



**Stream Channel Restoration:  
Yarrow Creek Tributary**

**Monitoring and Maintenance**

Performance Standards

The following objectives and performance standards have been established to measure the success of this plan. The following standards need to be satisfied for the mitigation area to be a success:

- Objective 1:** Native sapling, shrub, and/or groundcover vegetation communities will be planted in the enhancement area as soon as practical after construction and established within five years after planting.  
**Performance Standard:** Within the planting areas, all woody plantings (trees and shrubs) will have 100% survival at the end of Year 1, 60% cover by Year 3, and 85% cover by Year 5, with additional planting provided if these standards are not met. Native volunteer species can be included in overall percent cover calculations.  
**Performance Standard:** Weedy cover by Himalayan and evergreen blackberry, reed canarygrass, Scot's broom, English ivy, morning glory, birds-foot trefoil, Japanese knotweed, or any other species listed by the Washington State Noxious Weed Board as Class A, Class B, or Class C weeds may not exceed 10%.

- Objective 2:** The in-stream woody debris shall remain distributed throughout the project area (as opposed to becoming grouped at the lower end). Normal desirable and expected changes in substrate are expected and include the formation of scour pools, riffles and gravel tail outs in the vicinity of each structure. Undue sideslope scour shall not occur. The trash rack at the inlet of the culvert under the maintenance road shall be kept clean to the extent that excessive ponding does not occur.  
**Performance Standard:** For five years after enhancement plan implementation, all of the woody debris shall remain in the vicinity of where it was placed as specified on the enhancement plan, and any channel migration will remain within the established floodplain area.

Sampling Protocol

Monitoring of the site shall be conducted by a biologist from The Watershed Company [Phone: (425) 822-5242] or other qualified persons familiar with these plans.

As-Built Plan/Report

Prior to the first monitoring visit, during the first spring following implementation of the mitigation plan, an As-Built Plan/Report will be prepared that documents the general implementation of the mitigation plans. During the As-Built assessment, two 50-foot-long transects will be placed in the field, with endpoints marked by flagged metal T-posts. For each transect, a count by species of installed plantings within 5 feet of each side of the transect will be recorded.

The As-Built Plan will note the locations of transects, and note the location of fixed photo points. Photo points will be established along each transect, and as needed to provide an overview of the entire project area.

The As-Built Report will include a table that lists the number of plants by species within each transect. This table will comprise the baseline for future monitoring efforts. The As-Built Report will also provide copies of all contractor receipts for plant purchases to demonstrate consistency with the approved Mitigation Plan plant numbers. Any minor changes to the approved revegetation plan that are required by plant availability or field conditions present during plan implementation will be documented in the As-Built Plan/Report and submitted to the City of Bellevue for approval. The monitoring period begins once the As-Built Plan/Report has been approved by the City. The approved As-Built Plan/Report then becomes the approved Mitigation Plan for future inspection purposes.

Annual Monitoring

Vegetation monitoring shall take place once each year, for five years. Vegetation monitoring visits shall occur between July 15 and September 15. The following will be recorded and reported in an annual monitoring report (due to the City of Bellevue by October 31 each year):

- 1) Percent cover for native shrubs and saplings using the line-intercept method on transects established during the As-Built site visit for (native "volunteers" will be credited toward the required native plant cover).
- 2) Percent cover of groundcovers by visual cover class estimates along the transects.
- 3) Counts by species of native plants along each transect. A complete count of dead stems by species in the enhancement area will also be conducted in Year 1 (only) for the purpose of establishing plant installer's obligation to guarantee 100% survival of plants for the first year. The Year 1 percent survival will be calculated from these data.
- 4) Percent cover by non-native species using the line-intercept method along transects and a visual estimate of the entire project area.
- 5) Visual assessment of entire project area for general survival and health of planted species.
- 6) Photographic documentation taken from a minimum of three fixed reference points established and mapped during the As-Built site visit.
- 7) Intrusions into the planting areas, vandalism or other actions that impair the intended functions of the mitigation area.
- 8) Recommendations for maintenance or repair.

The stream channel and log structures shall also be assessed annually for five years in the spring or early summer to evaluate project consistency with Objective 2 above. Specifically, depth and prevalence of pools formed and maintained, substrate and riffle characteristics, bank condition, and large woody debris position and condition will be noted.

Maintenance

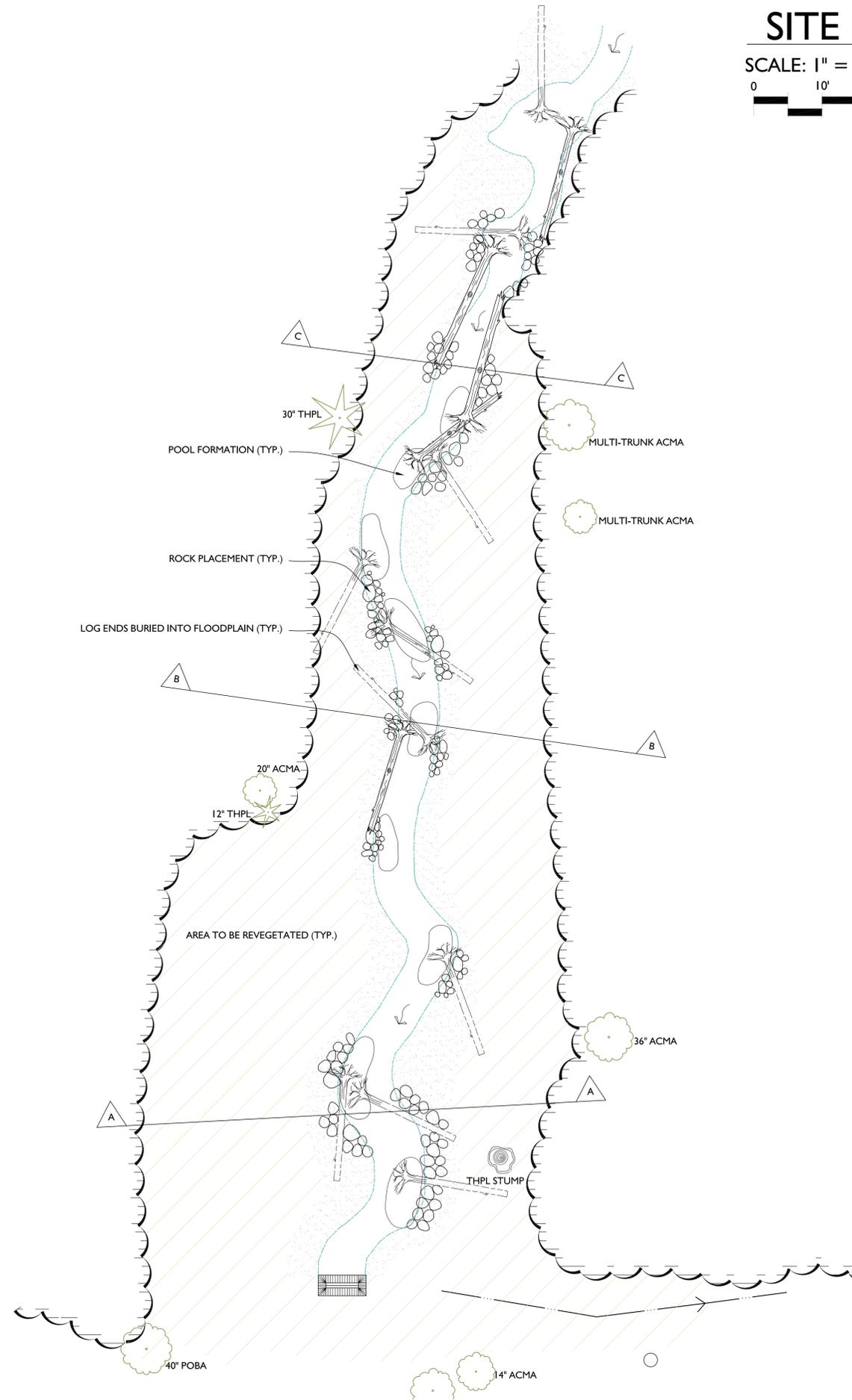
The site will be maintained annually for five years following completion of the construction:

- 1) Visit site daily during heavy rains, weekly during the rainy season and monthly during the dry season. Visits during the dry season are to inspect for debris and sediment as well as other changes or repairs needed. Sediment removal will be needed if sediment from the stream channel rises above the inlet to the trash rack. Removal of sediment will be needed when accumulation at the inlet rise to the point where the trash rack will plug if not removed.
- 2) Replace every plant found dead in Year One (only).
- 3) Remove weeds and weed roots from beneath each installed plant to a distance of 12 inches from the main plant stem, or to the dripline, whichever is greater.
- 4) Remove all invasive plants (e.g., Himalayan and evergreen blackberry, reed canarygrass, Scot's broom, English ivy, morning glory, birds-foot trefoil, Japanese knotweed, or any other species listed by the Washington State Noxious Weed Board as Class A, Class B, or Class C) from the revegetated areas. Weeding shall take place at least twice each year (in May and in late June/early July prior to each year's monitoring visit) for five years following installation. More frequent weeding may be necessary based on findings of the monitoring reports. Weeding is to be done using hand tools to remove weed plants and weed roots.
- 5) Supply a minimum of 2 inches of water per week from June 1 through September 30 for at least the first two years following installation.
- 6) Mulch the weeded areas beneath each plant with wood chip mulch as necessary to maintain a 4-inch thick mulch ring.
- 7) Complete any other items identified in the annual monitoring reports (such as dead plant replacement, streambed substrate amendment, wood location, trash removal and trash rack maintenance, sensitive area sign or fence maintenance, etc).

Contingency & Management Plans

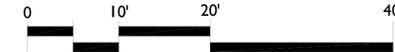
In the event that the implemented restoration plan does not meet the performance standards provided above, the consulting biologist would evaluate reasons for plant or log structure failure (e.g., poor installation, plant not suitable for site conditions, inadequate hydrology, animal damage, erosion and channel migration). Potential solutions to rectify poor performance include re-planting, additional watering, species substitutions, increasing plant density, providing protection to prevent animal damage, and repositioning of any logs which have moved such a manner as to threaten bank stability or clog the culvert inlet.

NOTE: SITE PLAN IS SCHEMATIC. ADJUSTMENTS MAY BE NECESSARY & ARE TO BE EXPECTED. VERIFY IN FIELD WITH STREAM RESTORATION SPECIALIST.



**SITE PLAN**

SCALE: 1" = 10'-0" (AT FULL SIZE)



750 Sixth Street South  
Kirkland WA 98033  
p 425.822.5242 f 425.827.8136  
www.watershedco.com  
Science & Design

**YARROW CREEK TRIBUTARY**  
**LOG PLACEMENT & REVEGETATION PLAN**  
**PREPARED FOR: PETE BLANE**  
**CITY OF BELLEVUE UTILITIES DIVISION**  
2901 115TH AVE NE  
BELLEVUE, WA 98004

SUBMITTALS & REVISIONS		BY	DATE	DESCRIPTION
1	REVIEW SET	ZS	10-10-08	
2	PERMIT SET	ZS	10-30-08	
3	REVISION PER CITY/WDFW	ZS	11-05-08	

SHEET SIZE:  
ORIGINAL PLAN IS 22" x 34" .  
SCALE ACCORDINGLY.

PROJECT MANAGER: GJ  
DESIGNED: GJ/ZS  
DRAFTED: ZS  
CHECKED: GJ

JOB NUMBER:  
**080914**

SHEET NUMBER:  
**2 OF 5**

**Stream Channel Restoration:  
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**Construction Sequencing:**

- A. Remove existing coir or similar fabric from the channel/ravine sideslopes and store for later use. Install any standard and/or required temporary erosion and sedimentation control measures (TESC).
- B. Divert stream flow around the channel restoration work area by:
  1. placing a sheet plastic and sand bag dam at the outlet of the existing "sump" pool at the upstream end of the disturbed area;
  2. incorporating a flexible, min 12" dia. plastic pipe into the dam;
  3. aligning the pipe along the sideslopes of the work area for discharge into the existing concrete head box at the inlet of the culvert under the access road.

The flexible bypass pipe may be moved around as needed to accommodate channel reconstruction activities.

- C. Pump the large pool at the culvert inlet down. Maintain a sump at the culvert inlet and keep the pool pumped down during channel reconstruction activities. Clean water may be discharged to the culvert; noticeably turbid water is to be discharged to upland locations for infiltration and biofiltration (provided it does not cause erosion), otherwise treated on-site before discharge (as in a Baker tank), or exported from the site.

- D. Place pit-run Gravel fill, Log structures, and Rounded Boulders (see specifications) to re-form the stream channel as follows:

1. Rough-grade (fill) using the specified "pit-run" Gravel material to the sub-grade (low-flow riffle) elevation, as shown in the accompanying cross sections, A-C. 20% - 30% sand, large woody materials, i.e. stumps and logs, are to be included in this fill material to increase stability. These materials may be either partially or fully buried. Most native tree species are acceptable, with the exclusion of alder and hemlock; non-hemlock conifers are preferred.
2. Place Log structures and Rounded Boulders as shown in the plan view, excavating pool depressions at least 1 foot deep corresponding to locations where logs extend into or cross the low-flow channel, particularly at root wad locations. Pools at root wad locations are to be excavated sufficiently deep such that they do not "prop up" the log they are attached to. (Fill may be withheld in Step 1 at pool locations, where they can be anticipated, to assist in pool formation.)
3. Place additional fill, incorporating the placed rock and logs, to form the low flow channel and flood plain. Log ends extending into the bank or flood plain are to be fully buried.
4. Incorporate a 3-way topsoil mix into pit-run fill and locate onto the side slopes above the floodplain materials to support the revegetation plan, achieving a side slope of roughly 3:1 (See sections). Upon reaching grade, re-apply stockpiled coir-fabric atop banks to prevent erosion.

- E. Upon approval of the work by involved stakeholders and regulators (Bellevue Utilities and/or designated representative, Bellevue Planning, Washington Department of Fish and Wildlife, and possibly others), re-place and secure the coir or similar fabric saved in step A, above, along the sideslope areas where soil is exposed. Remove the flow bypass dam and pipe, allowing water to flow through the reconstructed channel.

- F. During the first dormant season (November through March), implement the bank soils amendment and native planting plan.

- G. Remove any remaining TESC features, such as silt fencing, at the onset of the first growing season.

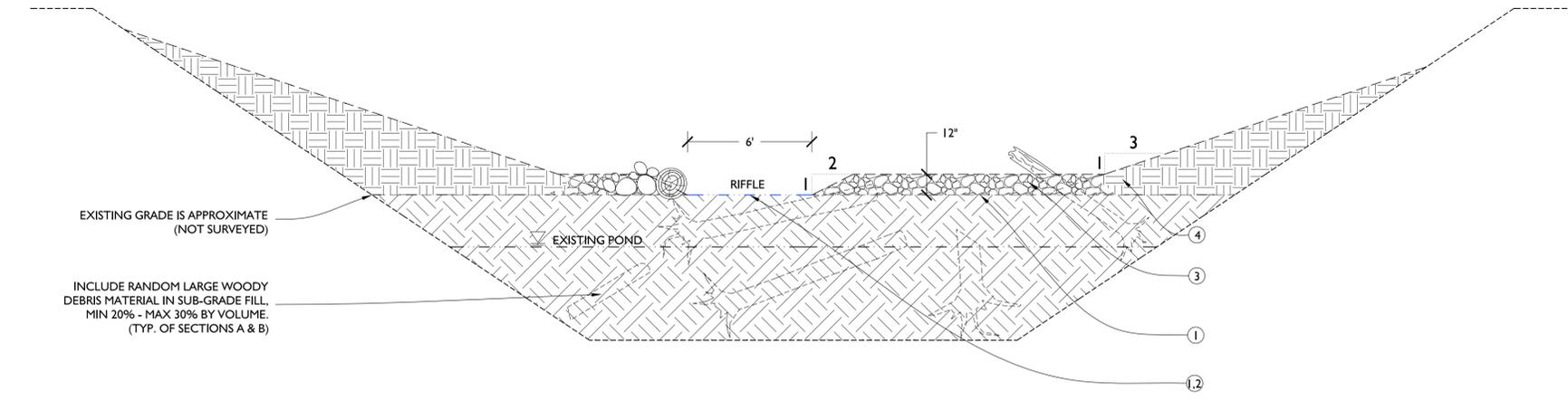
**Stream Channel Material Specifications:**

1. Logs as specified for this project are to be native species, excluding alder and hemlock, a minimum of 16 feet long and 12 inches in diameter 16 feet from the root end, at least 70% of which are non-hemlock conifers. All are specified with their root wads attached, and attached limbs and/or multiple trunks are allowed and encouraged. Acceptable species include western red cedar, Douglas-fir, bigleaf maple, Oregon ash, madrona, shore pine, and others as approved by the owner or the owner's designated representative.
2. Gravel fill material used to reform the channel is to be sandy, silty, gravelly, cobbly "pit run" material resembling the following mix:
 

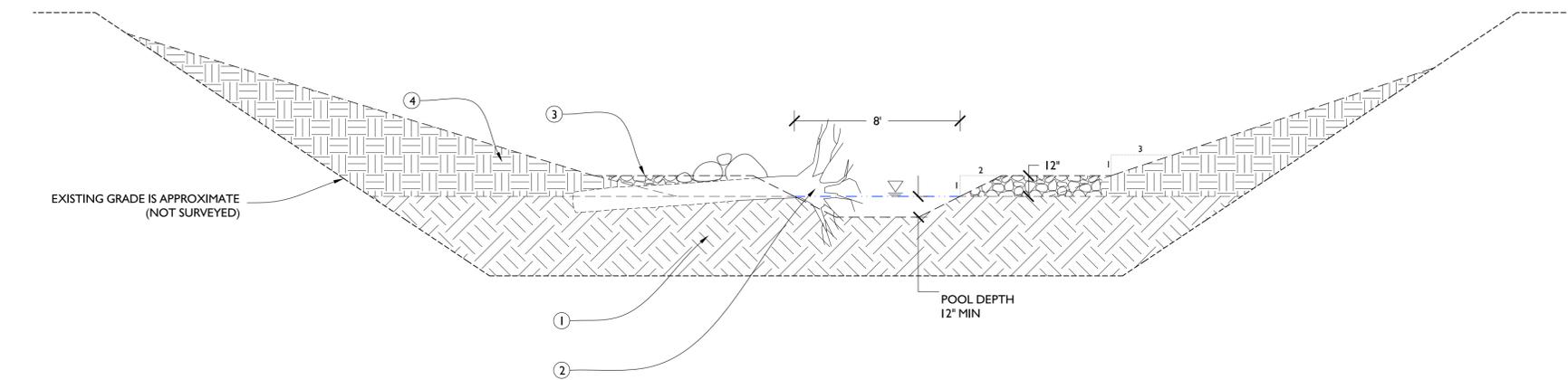
Silt	5%
Sand	10%
Pea Gravel	10%
Small Gravel 3/4" to 3"	30%
Large "Gravel" 3-6"	25%
Cobble 6-10"	20%
3. Rounded Boulders are to be 12-18" in diameter along the median axis and are to be placed as shown on the plan view and details along the streambanks, primarily at log ends and between logs and the streambank.

SEE SECTIONS

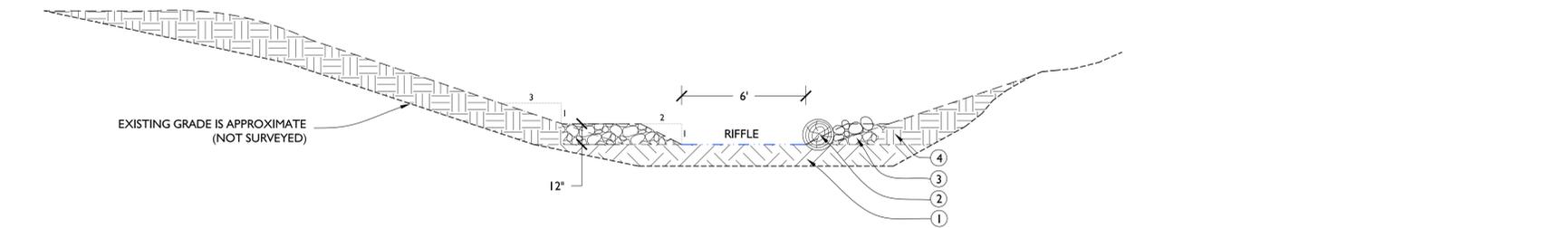
NOTE: FOR ALL SECTIONS, CIRCLED NUMBERS CORRESPOND TO CONSTRUCTION SEQUENCING. SEE SIDEBAR NOTES, THIS SHEET.



**A SECTION A**  
NTS



**B SECTION B**  
NTS



**C SECTION C**  
NTS

NOTE: SECTIONS ARE SCHEMATIC ONLY. ADJUSTMENTS MAY BE NECESSARY & ARE TO BE EXPECTED. VERIFY IN FIELD WITH STREAM RESTORATION SPECIALIST.

**YARROW CREEK TRIBUTARY**  
**LOG PLACEMENT & REVEGETATION PLAN**  
**PREPARED FOR: PETE BLANE**  
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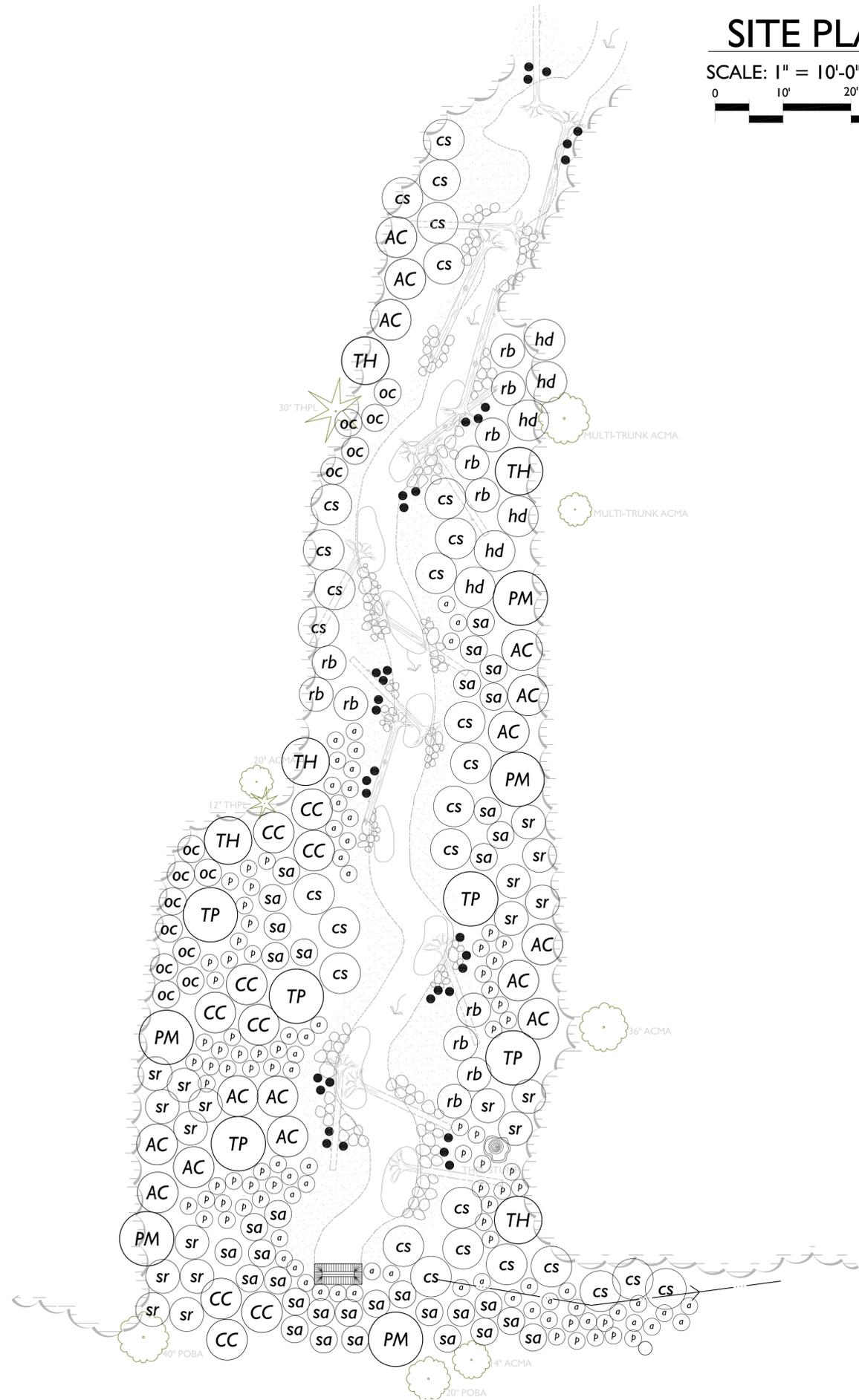
SHEET NUMBER:  
**3 OF 5**

# PLANTING LEGEND

	SCIENTIFIC / COMMON NAME	QTY.	SIZE
<b>TREES - ALL TREES FULL &amp; BUSHY</b>			
PM	PSUEDOTSUGA MENZEISII DOUGALS-FIR	5	2 GAL
TH	THUJA PLICATA WESTERN RED CEDAR	5	2 GAL
TP	TSUGA HETEROPHYLLA WESTERN HEMLOCK	5	2 GAL
<b>SHRUBS - ALL SHRUBS TO BE HEALTHY &amp; VIGOROUS</b>			
AC	ACER CIRCINATUM VINE MAPLE	15	1 GAL
CS	CORNUS SERICEA REDTWIG DOGWOOD	28	1 GAL
CC	CORYLUS CORNUTA BEAKED HAZELNUT	9	1 GAL
hd	HOLODISCUS DISCOLOR OCEANSPRAY	6	1 GAL
oc	OEMLARIA CERASIFORMIS INDIAN PLUM	14	1 GAL
rb	RIBES BRACTEOSUM STINK CURRANT	12	1 GAL
sr	SAMBUCUS RACEMOSA RED ELDERBERRY	18	1 GAL
sa	SYMPHORICARPOS ALBUS SNOWBERRY	34	1 GAL
<b>FERNS</b>			
a	ATHYRIUM FILIX FEMINA LADY FERN	52	1 GAL
p	POLYSTICHUM MUNITUM SWORD FERN	62	1 GAL
<b>LIVE STAKES</b>			
●	SALIX LUCIDA ssp LASIANDRA PACIFIC WILLOW	35	LIVE STAKE (3' - 5' IN LENGTH)

## PLANTING NOTES

- Native plant installation shall occur between October 15th and December 15th during frost-free periods only.
  - Before final grading is completed by the grading contractor, the landscape contractor should inspect the site to insure that soils, surface and grades are suitable for planting. At that time, assess soil conditions and if necessary provide amendment in planting areas such that there is a minimum of 20% organic material.
  - Remove any and all invasive weeds and their roots from the planting area. Species targeted for removal include Himalayan blackberry, English holly, English ivy, Scot's broom, Japanese knotweed, English laurel, and morning glory.
  - Locate all existing utilities within the limit of work. The contractor is responsible for any utility damage as a result of the landscape construction.
  - Cut holes into coir fabric 3X the size of the rootball to be planted.
  - Remove any large rocks or debris within planting pits and scarify the walls of the pit.
  - Layout plant material per plan for inspection by the Landscape Architect. Plant substitutions will NOT be allowed without the approval of the Landscape Architect.
  - Install plants per planting details.
  - Water each plant thoroughly to remove air pockets.
  - Install a 4" deep, coarse wood chip mulch throughout the planting area, atop the coir fabric. Pull mulch away from stems/trunks of plants to prevent rotting.
  - One year after initial plant installation, apply organic, slow-release fertilizer such as Osmocote or Perfect Blend 4-4-4 to each plant.
- The landscape contractor shall maintain all plant material until final inspection and approval by the Owner or Owner's representative. All plantings and workmanship shall be guaranteed for one year following final owner acceptance.



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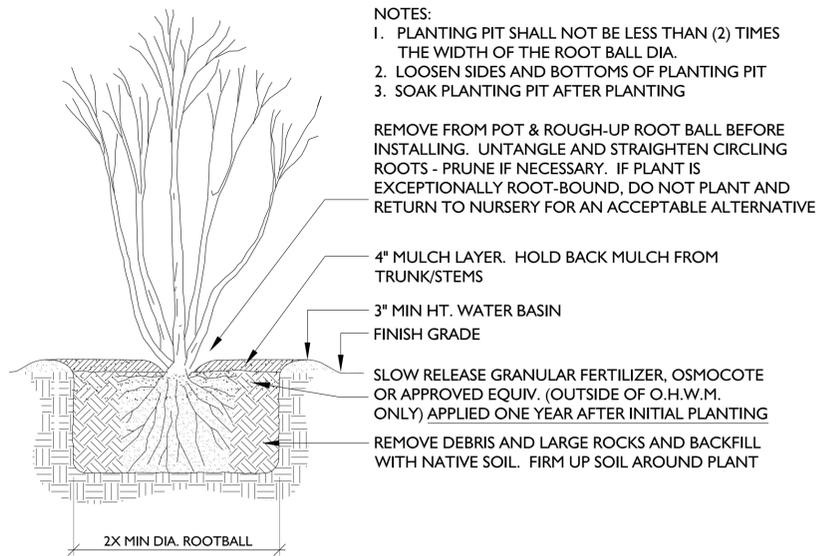
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**NOTES:**

1. PLANTING PIT SHALL NOT BE LESS THAN (2) TIMES THE WIDTH OF THE ROOT BALL DIA.
2. LOOSEN SIDES AND BOTTOMS OF PLANTING PIT
3. SOAK PLANTING PIT AFTER PLANTING

REMOVE FROM POT & ROUGH-UP ROOT BALL BEFORE INSTALLING. UNTANGLE AND STRAIGHTEN CIRCLING ROOTS - PRUNE IF NECESSARY. IF PLANT IS EXCEPTIONALLY ROOT-BOUND, DO NOT PLANT AND RETURN TO NURSERY FOR AN ACCEPTABLE ALTERNATIVE

4" MULCH LAYER. HOLD BACK MULCH FROM TRUNK/STEMS

3" MIN HT. WATER BASIN  
FINISH GRADE

SLOW RELEASE GRANULAR FERTILIZER, OSMOCOTE OR APPROVED EQUIV. (OUTSIDE OF O.H.W.M. ONLY) APPLIED ONE YEAR AFTER INITIAL PLANTING

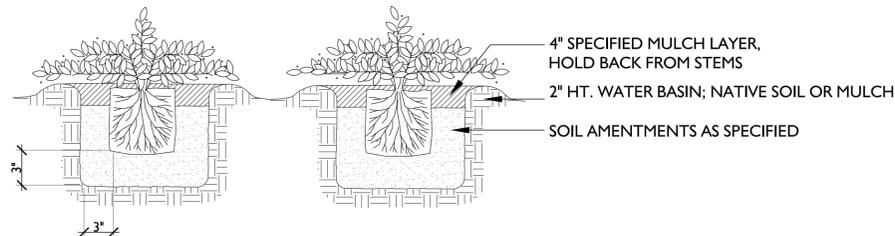
REMOVE DEBRIS AND LARGE ROCKS AND BACKFILL WITH NATIVE SOIL. FIRM UP SOIL AROUND PLANT

2X MIN DIA. ROOTBALL

**A TREE & SHRUB PLANTING DETAIL**  
NTS

**NOTES:**

1. PLANT GROUND COVER AT SPECIFIED DISTANCE ON-CENTER (O.C.) USING TRIANGULAR SPACING, TYP.
2. LOOSEN SIDES AND BOTTOM OF PLANTING PIT AND REMOVE DEBRIS
3. LOOSEN ROOTBOUND PLANTS BEFORE INSTALLING
4. SOAK PIT BEFORE AND AFTER INSTALLING PLANT



4" SPECIFIED MULCH LAYER, HOLD BACK FROM STEMS

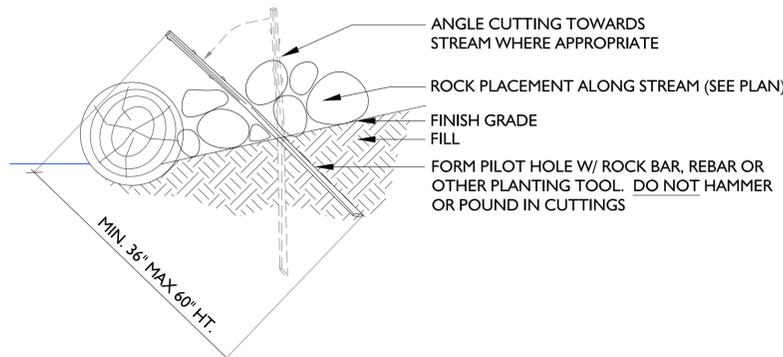
2" HT. WATER BASIN; NATIVE SOIL OR MULCH

SOIL AMENTMENTS AS SPECIFIED

**B GROUND COVER & PERENNIAL PLANTING DETAIL**  
NTS

**NOTES:**

1. CUTTING SHOULD BE ANGLE CUT (45°) AT THE BASE AND PERPENDICULAR CUT JUST ABOVE A NODE (BUD)
2. INSTALL CUTTING A MIN. OF 1/2 WAY INTO SOIL
3. ENSURE THAT NODES (BUDS) ARE POINTING UP
4. WHERE GROUPED WITHIN LARGER ROCKS, REMOVE ROCKS, FORM PILOT HOLE AND GENTLY REPLACE ROCKS AROUND STAKE AFTER INSTALLATION.
5. ENSURE STAKE IS DEEP ENOUGH TO REACH FILL LAYER.
6. WATER CUTTINGS AFTER PLANTING



ANGLE CUTTING TOWARDS STREAM WHERE APPROPRIATE

ROCK PLACEMENT ALONG STREAM (SEE PLAN)

FINISH GRADE  
FILL

FORM PILOT HOLE W/ ROCK BAR, REBAR OR OTHER PLANTING TOOL. DO NOT HAMMER OR POUND IN CUTTINGS

**C LIVE STAKE PLANTING DETAIL**  
NTS

**PLANT INSTALLATION SPECIFICATIONS**

NOTE: THESE SPECIFICATIONS ARE A LEGALLY BINDING CONTRACT

**GENERAL NOTES**

**QUALITY ASSURANCE**

1. PLANTS SHALL MEET OR EXCEED THE SPECIFICATIONS OF FEDERAL, STATE, AND LOCAL LAWS REQUIRING INSPECTION FOR PLANT DISEASE AND INSECT CONTROL.
2. PLANTS SHALL BE HEALTHY, VIGOROUS, AND WELL-FORMED, WITH WELL DEVELOPED, FIBROUS ROOT SYSTEMS, FREE FROM DEAD BRANCHES OR ROOTS. PLANTS SHALL BE FREE FROM DAMAGE CAUSED BY TEMPERATURE EXTREMES, LACK OR EXCESS OF MOISTURE, INSECTS, DISEASE, AND MECHANICAL INJURY. PLANTS IN LEAF SHALL BE WELL FOLIATED AND OF GOOD COLOR. PLANTS SHALL BE HABITUATED TO THE OUTDOOR ENVIRONMENTAL CONDITIONS INTO WHICH THEY WILL BE PLANTED (HARDENED-OFF).
3. TREES WITH DAMAGED, CROOKED, MULTIPLE OR BROKEN LEADERS WILL BE REJECTED. WOODY PLANTS WITH ABRASIONS OF THE BARK OR SUNSCALD WILL BE REJECTED.

**DEFINITIONS**

1. PLANTS/PLANT MATERIALS. PLANTS AND PLANT MATERIALS SHALL INCLUDE ANY LIVE PLANT MATERIAL USED ON THE PROJECT. THIS INCLUDES BUT IS NOT LIMITED TO CONTAINER GROWN, B&B OR BAREROOT PLANTS; LIVE STAKES AND FASCINES (WATTLES); TUBERS, CORMS, BULBS, ETC.; SPRIGS, PLUGS, AND LINERS. CONTAINER GROWN. CONTAINER GROWN PLANTS ARE THOSE WHOSE ROOTBALLS ARE ENCLOSED IN A POT OR BAG IN WHICH THAT PLANT GREW.

**SUBSTITUTIONS**

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN SPECIFIED MATERIALS IN ADVANCE IF SPECIAL GROWING, MARKETING OR OTHER ARRANGEMENTS MUST BE MADE IN ORDER TO SUPPLY SPECIFIED MATERIALS.
2. SUBSTITUTION OF PLANT MATERIALS NOT ON THE PROJECT LIST WILL NOT BE PERMITTED UNLESS AUTHORIZED IN WRITING BY THE LANDSCAPE ARCHITECT / CONSULTANT.
3. IF PROOF IS SUBMITTED THAT ANY PLANT MATERIAL SPECIFIED IS NOT OBTAINABLE, A PROPOSAL WILL BE CONSIDERED FOR USE OF THE NEAREST EQUIVALENT SIZE OR ALTERNATIVE SPECIES, WITH CORRESPONDING ADJUSTMENT OF CONTRACT PRICE.
4. SUCH PROOF WILL BE SUBSTANTIATED AND SUBMITTED IN WRITING TO THE CONSULTANT AT LEAST 30 DAYS PRIOR TO START OF WORK UNDER THIS SECTION.

**INSPECTION**

1. PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CONSULTANT FOR CONFORMANCE TO SPECIFICATIONS, EITHER AT TIME OF DELIVERY ON-SITE OR AT THE GROWER'S NURSERY. APPROVAL OF PLANT MATERIALS AT ANY TIME SHALL NOT IMPAIR THE SUBSEQUENT RIGHT OF INSPECTION AND REJECTION DURING PROGRESS OF THE WORK.
2. PLANTS INSPECTED ON SITE AND REJECTED FOR NOT MEETING SPECIFICATIONS MUST BE REMOVED IMMEDIATELY FROM SITE OR RED-TAGGED AND REMOVED AS SOON AS POSSIBLE.
3. THE CONSULTANT MAY ELECT TO INSPECT PLANT MATERIALS AT THE PLACE OF GROWTH. AFTER INSPECTION AND ACCEPTANCE, THE CONSULTANT MAY REQUIRE THE INSPECTED PLANTS BE LABELED AND RESERVED FOR PROJECT. SUBSTITUTION OF THESE PLANTS WITH OTHER INDIVIDUALS, EVEN OF THE SAME SPECIES AND SIZE, IS UNACCEPTABLE.

**MEASUREMENTS OF PLANTS**

1. PLANTS SHALL CONFORM TO SIZES SPECIFIED UNLESS SUBSTITUTIONS ARE MADE AS OUTLINED IN THIS CONTRACT.
2. HEIGHT AND SPREAD DIMENSIONS SPECIFIED REFER TO MAIN BODY OF PLANT AND NOT BRANCH OR ROOT TIP TO TIP. PLANT DIMENSIONS SHALL BE MEASURED WHEN THEIR BRANCHES OR ROOTS ARE IN THEIR NORMAL POSITION.
3. WHERE A RANGE OF SIZE IS GIVEN, NO PLANT SHALL BE LESS THAN THE MINIMUM SIZE AND AT LEAST 50% OF THE PLANTS SHALL BE AS LARGE AS THE MEDIAN OF THE SIZE RANGE. (EXAMPLE: IF THE SIZE RANGE IS 12" TO 18", AT LEAST 50% OF PLANTS MUST BE 15" TALL.)

**SUBMITTALS**

**PROPOSED PLANT SOURCES**

1. WITHIN 45 DAYS AFTER AWARD OF THE CONTRACT, SUBMIT A COMPLETE LIST OF PLANT MATERIALS PROPOSED TO BE PROVIDED DEMONSTRATING CONFORMANCE WITH THE REQUIREMENTS SPECIFIED. INCLUDE THE NAMES AND ADDRESSES OF ALL GROWERS AND NURSERIES.

**PRODUCT CERTIFICATES**

1. PLANT MATERIALS LIST - SUBMIT DOCUMENTATION TO CONSULTANT AT LEAST 30 DAYS PRIOR TO START OF WORK UNDER THIS SECTION THAT PLANT MATERIALS HAVE BEEN ORDERED. ARRANGE PROCEDURE FOR INSPECTION OF PLANT MATERIAL WITH CONSULTANT AT TIME OF SUBMISSION.
2. HAVE COPIES OF VENDOR'S OR GROWERS' INVOICES OR PACKING SLIPS FOR ALL PLANTS ON SITE DURING INSTALLATION. INVOICE OR PACKING SLIP SHOULD LIST SPECIES BY SCIENTIFIC NAME, QUANTITY, AND DATE DELIVERED (AND GENETIC ORIGIN IF THAT INFORMATION WAS PREVIOUSLY REQUESTED).

**DELIVERY, HANDLING, & STORAGE**

**NOTIFICATION**

CONTRACTOR MUST NOTIFY CONSULTANT 48 HOURS OR MORE IN ADVANCE OF DELIVERIES SO THAT CONSULTANT MAY ARRANGE FOR INSPECTION.

**PLANT MATERIALS**

1. TRANSPORTATION - DURING SHIPPING, PLANTS SHALL BE PACKED TO PROVIDE PROTECTION AGAINST CLIMATE EXTREMES, BREAKAGE AND DRYING. PROPER VENTILATION AND PREVENTION OF DAMAGE TO BARK, BRANCHES, AND ROOT SYSTEMS MUST BE ENSURED.
2. SCHEDULING AND STORAGE - PLANTS SHALL BE DELIVERED AS CLOSE TO PLANTING AS POSSIBLE. PLANTS IN STORAGE MUST BE PROTECTED AGAINST ANY CONDITION THAT IS DETRIMENTAL TO THEIR CONTINUED HEALTH AND VIGOR.
3. HANDLING - PLANT MATERIALS SHALL NOT BE HANDLED BY THE TRUNK, LIMBS, OR FOLIAGE BUT ONLY BY THE CONTAINER, BALL, BOX, OR OTHER PROTECTIVE STRUCTURE, EXCEPT BAREROOT PLANTS SHALL BE KEPT IN BUNDLES UNTIL PLANTING AND THEN HANDLED CAREFULLY BY THE TRUNK OR STEM.
4. LABELS - PLANTS SHALL HAVE DURABLE, LEGIBLE LABELS STATING CORRECT SCIENTIFIC NAME AND SIZE. TEN PERCENT OF CONTAINER GROWN PLANTS IN INDIVIDUAL POTS SHALL BE LABELED. PLANTS SUPPLIED IN FLATS, RACKS, BOXES, BAGS, OR BUNDLES SHALL HAVE ONE LABEL PER GROUP.

**WARRANTY**

**PLANT WARRANTY**

PLANTS MUST BE GUARANTEED TO BE TRUE TO SCIENTIFIC NAME AND SPECIFIED SIZE, AND TO BE HEALTHY AND CAPABLE OF VIGOROUS GROWTH.

**REPLACEMENT**

1. PLANTS NOT FOUND MEETING ALL OF THE REQUIRED CONDITIONS MUST BE REMOVED FROM SITE AND REPLACED IMMEDIATELY AT THE CONSULTANT'S DISCRETION.
2. PLANTS NOT SURVIVING AFTER ONE YEAR TO BE REPLACED AT THE CONTRACTOR'S EXPENSE.

**PLANT MATERIAL**

**GENERAL**

1. PLANTS SHALL BE NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES UNDER CLIMATIC CONDITIONS SIMILAR TO OR MORE SEVERE THAN THOSE OF THE PROJECT SITE.
2. PLANTS SHALL BE TRUE TO SPECIES AND VARIETY OR SUBSPECIES. NO CULTIVARS OR NAMED VARIETIES SHALL BE USED UNLESS SPECIFIED AS SUCH.

**QUANTITIES**

SEE PLANT LIST ON ACCOMPANYING PLANS.

**ROOT TREATMENT**

1. CONTAINER GROWN PLANTS (INCLUDES PLUGS): PLANT ROOT BALLS MUST HOLD TOGETHER WHEN THE PLANT IS REMOVED FROM THE POT, EXCEPT THAT A SMALL AMOUNT OF LOOSE SOIL MAY BE ON THE TOP OF THE ROOTBALL.
2. PLANTS MUST NOT BE ROOT-BOUND; THERE MUST BE NO CIRCLING ROOTS PRESENT IN ANY PLANT INSPECTED.
3. ROOTBALLS THAT HAVE CRACKED OR BROKEN WHEN REMOVED FROM THE CONTAINER SHALL BE REJECTED.

NO.	DATE	DESCRIPTION	BY
1	10-10-08	REVIEW SET	ZS
2	10-30-08	PERMIT SET	ZS
3	11-05-08	REVISION PER CITY/WDFW	ZS

**SHEET SIZE:**  
ORIGINAL PLAN IS 22" x 34" .  
SCALE ACCORDINGLY.

PROJECT MANAGER: GJ  
DESIGNED: GJ/ZS  
DRAFTED: ZS  
CHECKED: GJ

JOB NUMBER:  
**080914**

SHEET NUMBER:  
**5 OF 5**

**To:** David Pyle, Senior Environmental/ Land Use Planner

**From:** Don McQuilliams, Storm & Surface Water Superintendent

**Re:** Yarrow Creek Project Narrative, Maintenance & Monitoring Plan and Statement of Consistency

David, attached in the following document is the information you have requested to complete the Yarrow Creek Restoration Critical Areas Land Use Permit. As stated in your letter from February 3<sup>rd</sup>, 2009, you have asked for the following:

- Project Narrative including site photos
- Description of restoration plan and maintenance and monitoring plan consistency with LUC 20.25H.210 through LUC 20.25H.220 (explain how the proposed plan meets the requirements of the code and how you plan to continue to meet the requirements over the full maintenance and monitoring time period)
- Statement of consistency with LUC 20.30P.140 (respond to each criteria and describe how the project is consistent with the criteria)
- Statement of consistency with LUC 20.25H.080 (respond to each and describe why the project is consistent with the standard)
- • An electronic copy of all documents submitted on a properly formatted CD

#### Project Narrative including site photos

On or about September of 2008, the Storm & Surface Water maintenance crew performed excavation work within a tributary of Yarrow Creek adjacent to an existing access road just South of State Route 520. At the time of the maintenance activities, City permits allowed for the removal of 2 cubic yards of material and the site was not identified on State HPA permits. During the course of the maintenance activities, it is estimated that 320 yards of material in total was excavated from the site, far beyond the yardages identified in the City permit. This resulted in a 'Correction Notice' from the City's Development Services Department requesting that restoration activities be undertaken at the site to re-establish the stream channel and re-vegetate the surrounding disturbed areas.

Shortly after the correction notice, the site was stabilized with erosion control netting to prevent further erosion until such time that a restoration project could be implemented. Also at this time, The Watershed Company was hired to draft restoration plans to comply with the items identified in the correction notice. Also at this time, a HPA was requested from Washington State Fish and Wildlife to allow work to proceed within the stream channel. The HPA was granted with an expiration date of January 8<sup>th</sup>, 2009.

During the month of December, it was realized that the plans as submitted by The Watershed Company would be difficult to implement due to large quantities of fill materials that were identified as part of the plans. The plans were negotiated with Development Services and Fish & Wildlife to eliminate the fill materials (for the time being) and implement the large woody debris along with the restoration plantings. The remainder of December was spent gathering materials and coordinating with finance to ensure the project could be done as proposed.

During the second week of January the project began. The stream was bypassed and erosion control measures were put in place. Turbidity monitoring was started with readings taken at least twice per day. Once the stream was diverted and the flow was minimal, a track hoe was carefully maneuvered into the channel to begin placing the large woody debris (LWD). The LWD was lowered from the access road into the holding area by use of a crane and with the assistance of the backhoe. Once the materials were roughly placed along the sides of the stream channel, a consultant from The Watershed Company was invited to aid in the placement of the LWD. This process involved using the track hoe to set the LWD and nestle it into the stream channel in such a manner that would re-establish a functional stream channel and minimize erosion due to down cutting of the stream. Due to the small size of the channel, the LWD had to be carefully set one log at a time from the bottom to the top of the project area to allow for egress of the

excavator. With placement of the LWD completed, the track hoe was driven out of the site on the same access that had been used for ingress.

After allowing the LWD to sit for a few hours, the stream was slowly released and flows began to establish the new channel. After a short but intense rainfall that evening, the stream had established several pools, eddies and sediment traps around and behind the LWD as designed.

To date, the channel is being monitored on a regular basis and the site awaits restoration plantings along the edges of the disturbed areas.



Before



During



During



Immediately After Construction



One Week After



One Week After

Description of restoration plan and maintenance and monitoring plan consistent with LUC 20.25H.210 through LUC 20.25H.220

20.25H.210 Applicability – The plans as designed were developed in cooperation with Development Services and meet the requirements set forth in the code.

20.25H.215 Mitigation sequencing – An alteration to the critical area has taken place. The mitigation efforts after completion of construction meets the requirements of section C-3 by enhancing the stream corridor.

20.25H.220 Mitigation and restoration plan requirements –

A. Plan Phases - Not applicable

B. Restoration and Mitigation Project Details - The restoration plans were originally created by The Watershed Company in cooperation with Development Services and Fish & Wildlife. Revisions to the plans later eliminated the fill materials from the original scope. This was also coordinated with Development Services and Fish & Wildlife. Measurable success of the plan was defined by achieving as close to design build as feasible. Final placement of the large woody debris demonstrated this aspect of the plan. Unless otherwise noted by the reviewer, the restoration plan appears to meet all requirements as set forth in this code.

C. Timing of Work - Not applicable

D. Monitoring Program - Monitoring will be conducted on a quarterly basis and after significant rain events. Monitoring of the stream channel shall consist of examining the Large Woody Debris for movement that may cause unwanted erosion, conducting turbidity readings both upstream and downstream of the project site and counting the survival rate of all installed plantings. Monitoring shall extend for a period of five years from the date of construction and is set to expire in January of 2014.

E. Contingency Plan – Should a major failure occur with the restoration objectives as set forth in the restoration plan, the Utilities Department will take necessary corrective actions to bring the failed portion of the project site back into compliance with the general theme of the restoration plan. \*Please note that WSDOT is currently creating plans for road widening of SR520 that may, in the future, effect the work conducted as part of this restoration project. All actions taken by WSDOT that result in a failure of the restoration site shall be the responsibility of WSDOT and not effect the Bellevue Utilities Department under this agreement.

F. Assurance Devices – At this time, no assurance devices have been requested or proposed as part of the project.

G. Mitigation for City Park projects – Not applicable

H. Restoration for Areas of Temporary Disturbance – Areas of temporary disturbance not identified in the restoration plan include the ingress/egress route taken by the track hoe. Where steep slopes are present, these areas have been covered with jute netting and will be re-vegetated during the upcoming planting phase of the project.

Statement of consistency with LUC 20.30P.140

20.30P.140 Decision criteria –

A. All permits have been obtained as requested. This project has been subject to 2 Clear and Grade Permits, a Critical Areas Land Use Permit and a HPA from the State.

B. By working the excavator into and out of the stream channel only once and using the stream channel as the work/staging area to set the large woody debris, we believe that Best Available Construction Methods were utilized on this project.

C. All performance standards as set forth in LUC 20.25H.055C and 20.25H.080 have been met.

D. The site is served by adequate public facilities for the purposes of maintenance activities to the Storm Water system.

E. A restoration plan consistent with the requirements of 20.25H.210 has been submitted as part of this proposal.

F. After a review of Ord. 5683, it appears that this proposal is in compliance.

Statement of consistency with LUC 20.25H.080

20.25H.080 Performance standards –

A. General

1. No lights were used as part of this project.
2. Noise was generated during construction activities for a period of 2 days.
3. No toxic runoff was detected within the work area.
4. No water was treated as part of this project.
5. The outer edge of the stream channel shall be planted in accordance with the submitted restoration plans.
6. No pesticides, fertilizers or insecticides are to be used as part of this project.

B. Modification of Stream Channel – No portion of the stream was modified by closing the channel through new pipes or culverts .



# HYDRAULIC PROJECT APPROVAL

RCW 77.55.021(10) & (11) - Appeal Pursuant to Chapter

North Puget Sound  
16018 Mill Creek Boulevard  
Mill Creek, WA 98012-1296  
(425) 775-1311

Issue Date: November 10, 2008  
Project Expiration Date: January 08, 2009

Control Number: 115201-1  
FPA/Public Notice #: N/A

<u>PERMITTEE</u>	<u>AUTHORIZED AGENT OR CONTRACTOR</u>
Bellevue City of Utilities Dept. O & M ATTENTION: Peter Blane 2901 115th Ave. NE Bellevue, WA 98004 425-452-6450	

Project Name: Yarrow Creek Stream Restoration

Project Description: Restore section of creek disturbed by unpermitted dredging; location is at end of utility access road south of SR 520 accessed eas of north end of 96th Ave. NE

## PROVISIONS

1. Stream restoration work, including installation of the approved revegetation plan (Provision 2), may begin immediately and shall be completed by January 8, 2009.
2. Work shall be accomplished per plans and specifications approved by the Washington Department of Fish and Wildlife (WDFW) entitled, "YARROW CREEK TRIBUTARY LOG PLACEMENT & REVEGETATION PLAN", dated last revised November 5, 2008, except as modified by this Hydraulic Project Approval (HPA). A copy of these plans shall be available on site during construction.
3. NOTIFICATION REQUIREMENT: The Area Habitat Biologist (AHB) listed below (e-mail to fisheldf@dfw.wa.gov) and the Enforcement Program Officer (e-mail to steveles@dfw.wa.gov) shall receive e-mail notification from the person to whom this HPA is issued (permittee) no less than three working days prior to start of work, and again within seven days of completion of work to arrange a compliance inspection. The notification shall include the permittee's name, project location, starting date of work or completion date of work, and the control number of this HPA.
4. A temporary bypass to divert flow around the work area shall be in place prior to initiation of other work in the wetted perimeter.
5. A sandbag revetment or similar device shall be installed at the bypass inlet to divert the entire flow through the bypass.
6. A sandbag revetment or similar device shall be installed at the downstream end of the bypass to prevent backwater from entering the work area.
7. The bypass shall be of sufficient size to pass all flows and debris for the duration of the project.



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8. Prior to releasing the water flow to the project area, all instream work shall be completed.
  9. Upon completion of the project, all material used in the temporary bypass shall be removed from the site and the site returned to preproject or improved conditions.
  10. Fish habitat components such as logs, stumps, and/or large boulders are required as part of the project to mitigate the impacts of prior unpermitted dredging. All large woody material used shall be native coniferous species, such as western red cedar and Douglas fir. These fish habitat components shall be installed to withstand 100-year peak flows.
  11. Equipment used for this project shall operate stationed on the bank shall be free of external petroleum-based products while working around the stream and wetlands associated with the stream. Accumulation of soils or debris shall be removed from the drive mechanisms (wheels, tires, tracks, etc.) and undercarriage of equipment prior to its working below the ordinary high water line. Equipment shall be checked daily for leaks and any necessary repairs shall be completed prior to commencing work activities along the stream and wetlands associated with the stream.
  12. If at any time, as a result of project activities, fish are observed in distress, a fish kill occurs, or water quality problems develop (including equipment leaks or spills), immediate notification shall be made to the Washington Emergency Management Division at 1-800-258-5990, and to the AHB.
  13. Erosion control methods shall be used to prevent silt-laden water from entering the stream. These may include, but are not limited to, straw bales, filter fabric, temporary sediment ponds, check dams of pea gravel-filled burlap bags or other material, and/or immediate mulching of exposed areas.
  14. Prior to starting work, the selected erosion control methods (Provision 13) shall be installed. Accumulated sediments shall be removed during the project and prior to removing the erosion control methods after completion of work.
  15. All waste material such as construction debris, silt, excess dirt or overburden resulting from this project shall be deposited above the limits of floodwater in an approved upland disposal site.
  16. Extreme care shall be taken to ensure that no petroleum products, hydraulic fluid, fresh cement, sediments, sediment-laden water, chemicals, or any other toxic or deleterious materials are allowed to enter or leach into the stream.



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## PROJECT LOCATIONS

Location #1 end of utility road

WORK START: November 10, 2008				WORK END: January 08, 2009		
WRIA: 08.0252		Waterbody: Yarrow Creek		Tributary to: Lake Washington		
1/4 SEC: NW 1/4	Section: 20	Township: 25 N	Range: 05 E	Latitude: N 47.64208	Longitude: W 122.20416	County: King
Location #1 Driving Directions						

## APPLY TO ALL HYDRAULIC PROJECT APPROVALS

This Hydraulic Project Approval pertains only to those requirements of the Washington State Hydraulic Code, specifically Chapter 77.55 RCW (formerly RCW 77.20). Additional authorization from other public agencies may be necessary for this project. The person(s) to whom this Hydraulic Project Approval is issued is responsible for applying for and obtaining any additional authorization from other public agencies (local, state and/or federal) that may be necessary for this project.

This Hydraulic Project Approval shall be available on the job site at all times and all its provisions followed by the person(s) to whom this Hydraulic Project Approval is issued and operator(s) performing the work.

This Hydraulic Project Approval does not authorize trespass.

The person(s) to whom this Hydraulic Project Approval is issued and operator(s) performing the work may be held liable for any loss or damage to fish life or fish habitat that results from failure to comply with the provisions of this Hydraulic Project Approval.

Failure to comply with the provisions of this Hydraulic Project Approval could result in a civil penalty of up to one hundred dollars per day and/or a gross misdemeanor charge, possibly punishable by fine and/or imprisonment.

All Hydraulic Project Approvals issued pursuant to RCW 77.55.021 (EXCEPT agricultural irrigation, stock watering or bank stabilization projects) or 77.55.141 are subject to additional restrictions, conditions or revocation if the Department of Fish and Wildlife determines that new biological or physical information indicates the need for such action. The person(s) to whom this Hydraulic Project Approval is issued has the right pursuant to Chapter 34.04 RCW to appeal such decisions. All agricultural irrigation, stock watering or bank stabilization Hydraulic Project Approvals issued pursuant to RCW 77.55.021 may be modified by the Department of Fish and Wildlife due to changed conditions after consultation with the person(s) to whom this Hydraulic Project Approval is issued: PROVIDED HOWEVER, that such modifications shall be subject to appeal to the Hydraulic Appeals Board established in RCW 77.55.301.

## APPEALS INFORMATION

If you wish to appeal the issuance or denial of, or conditions provided in a Hydraulic Project Approval, there are informal and formal appeal processes available.



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A. INFORMAL APPEALS (WAC 220-110-340) OF DEPARTMENT ACTIONS TAKEN PURSUANT TO RCW 77.55.021, 77.55.141, 77.55.181, and 77.55.291: A person who is aggrieved or adversely affected by the following Department actions may request an informal review of:

(A) The denial or issuance of a Hydraulic Project Approval, or the conditions or provisions made part of a Hydraulic Project Approval; or

(B) An order imposing civil penalties. A request for an INFORMAL REVIEW shall be in WRITING to the Department of Fish and Wildlife HPA Appeals Coordinator, 600 Capitol Way North, Olympia, Washington 98501-1091 and shall be RECEIVED by the Department within 30 days of the denial or issuance of a Hydraulic Project Approval or receipt of an order imposing civil penalties. If agreed to by the aggrieved party, and the aggrieved party is the Hydraulic Project Approval applicant, resolution of the concerns will be facilitated through discussions with the Area Habitat Biologist and his/her supervisor. If resolution is not reached, or the aggrieved party is not the Hydraulic Project Approval applicant, the Habitat Technical Services Division Manager or his/her designee shall conduct a review and recommend a decision to the Director or his/her designee. If you are not satisfied with the results of this informal appeal, a formal appeal may be filed.

B. FORMAL APPEALS (WAC 220-110-350) OF DEPARTMENT ACTIONS TAKEN PURSUANT TO RCW 77.55.021 (EXCEPT agricultural irrigation, stock watering or bank stabilization projects) or 77.55.291:

A person who is aggrieved or adversely affected by the following Department actions may request a formal review of:

(A) The denial or issuance of a Hydraulic Project Approval, or the conditions or provisions made part of a Hydraulic Project Approval;

(B) An order imposing civil penalties; or

(C) Any other 'agency action' for which an adjudicative proceeding is required under the Administrative Procedure Act, Chapter 34.05 RCW.

A request for a FORMAL APPEAL shall be in WRITING to the Department of Fish and Wildlife HPA Appeals Coordinator, shall be plainly labeled as 'REQUEST FOR FORMAL APPEAL' and shall be RECEIVED DURING OFFICE HOURS by the Department at 600 Capitol Way North, Olympia, Washington 98501-1091, within 30-days of the Department action that is being challenged. The time period for requesting a formal appeal is suspended during consideration of a timely informal appeal. If there has been an informal appeal, the deadline for requesting a formal appeal shall be within 30-days of the date of the Department's written decision in response to the informal appeal.

C. FORMAL APPEALS OF DEPARTMENT ACTIONS TAKEN PURSUANT TO RCW 77.55.021 (agricultural irrigation, stock watering or bank stabilization only), 77.55.141, 77.55.181, or 77.55.241: A person who is aggrieved or adversely affected by the denial or issuance of a Hydraulic Project Approval, or the conditions or provisions made part of a Hydraulic Project Approval may request a formal appeal. The request for FORMAL APPEAL shall be in WRITING to the Hydraulic Appeals Board per WAC 259-04 at Environmental Hearings Office, 4224 Sixth Avenue SE, Building Two - Rowe Six, Lacey, Washington 98504; telephone 360/459-6327.

D. FORMAL APPEALS OF DEPARTMENT ACTIONS TAKEN PURSUANT TO CHAPTER 43.21L RCW: A person who is aggrieved or adversely affected by the denial or issuance of a Hydraulic Project Approval, or the conditions or provisions made part of a Hydraulic Project Approval may request a formal appeal. The FORMAL APPEAL shall be in accordance with the provisions of Chapter 43.21L RCW and Chapter 199-08 WAC. The request for FORMAL APPEAL shall be in WRITING to the Environmental and Land Use Hearings Board at Environmental Hearings Office, Environmental and Land Use Hearings Board, 4224 Sixth Avenue SE, Building Two - Rowe Six, P.O. Box 40903, Lacey, Washington 98504; telephone 360/459-6327.

E. FAILURE TO APPEAL WITHIN THE REQUIRED TIME PERIODS results in forfeiture of all appeal rights. If there is no timely request for an appeal, the department action shall be final and unappealable.



Washington  
Department of  
FISH and  
WILDLIFE

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ENFORCEMENT: Sergeant Chandler (34) P2E

Habitat Biologist

Larry Fisher

425-313-5683

for Director  
WDFW

CC: