

TREE RETENTION & REPLACEMENT

- Significant existing trees will be retained along edges such as the watercourse and shoreline. It seems most prudent to retain trees that remain in woodland groups that will have healthy root development and not be jeopardized by future building.
- A total of 80 replacement trees will be planted, replacing over 70% of the original trees. Over 50% of the replacement trees will be native, as currently, less than 50% of the existing trees are native.
- Existing vegetation will be enhanced by new planting that enhances biodiversity and habitat value of existing riparian areas (creek and foreshore) through the removal of invasive plant species and the re-introduction of native and habitat species.
- Due to the existing steep site conditions and the existing homes above the site, care has been taken to enhance the views for the existing community by choosing smaller, vigorous tree species that establish a strong landscape character that reinforces the natural beauty inherent in the site and also strengthens the health and connectivity of the landscape.
- Due to P. Ramorum (sudden oak death) virus, having been found on adjacent sites, our planting palette does not include native shrubs or groundcovers that are considered 'host' material for the P. ramorum. (see List of Plant Genera regulated for Phytophthora ramorum, Canada Food Inspection Agency/ updated July 28, 2008.) In place of the 'host' material, we believe that it's prudent to use some amount of non-host plant material that is drought tolerant, evergreen, non-invasive, and well-suited to the site conditions.
- The planting palette for the project will therefore be primarily native species, with judicious use of appropriate drought-tolerant ornamental species with good habitat value. We believe that this type of balanced approach will help achieve a healthy, attractive, & sustainable landscape.
- The landscape design and implementation for the project will be in accordance with the 7th edition of the 'BC Landscape Standard' published by the BC Society of Landscape Architects and the BC Landscape & Nursery Association. Site work will be coordinated by a member in good standing of the BC Society of Landscape Architects. Landscape site work will best practices for erosion control as well as to ensure a clean site and a safe working environment.

KEY	QTY	BOTANICAL	COMMON NAME	SIZE	CONDITION/COMMENTS	TYPE
CR1	24	Crataegus 'Toba'	Hawthorne	6 cm cal./ B & B	Flowering in April & May later producing persistent fruit; attracting a variety of birds.	Native/deciduous
GHM	9	Gleditsia triacanthos 'shades'	Shademaster Honey Locust	6 cm cal./ B & B	Flowering in April attracting humming birds.	deciduous
MAL F	5	Malus fusca	Flowering Crab Apple	5 cm cal./ B & B	Fragrant flowers starting in mid-April to June later producing persistent fruit; attracting butterflies & a variety of birds.	Native/deciduous
OA	5	Oxydendrum arborescens	Sourwood	5 cm cal./ B & B	Fragrant flowers starting June to July producing persistent fruit; attracting bees, butterflies & a variety of birds.	deciduous
PI0	5	Pinus contorta	Shore Pine	2.5m Ht./ B & B	Provides cover for birds and small mammals.	Native/evergreen
PM2	10	Picea omorika	Serbian Spruce	3.5m Ht./ B & B	Provides cover for birds and small mammals.	evergreen
SJ	9	Styrax japonica	Japanese Snowbell	6cm cal./ B & B	Flowering in May & June later producing persistent fruit.	deciduous
SOA	3	Sorbus aucuparia	Mountain Ash	5 cm cal./ B & B	Flowering in early summer later producing orange fruit.	Native/deciduous
STP	4	Stewartia pseudocamellia	Japanese Stewartia	6 cm cal./ B & B	Flowers June to August w/ interesting bark and persistent fruit.	deciduous
TP	6	Thuja plicata var.	Western Red Cedar	2.5m Ht./ B & B	Provides cover for birds and small mammals.	Native/evergreen

Total Replacement Trees = 80
Replacing 70% of original trees
 52% of all replacement trees are native trees

General Notes

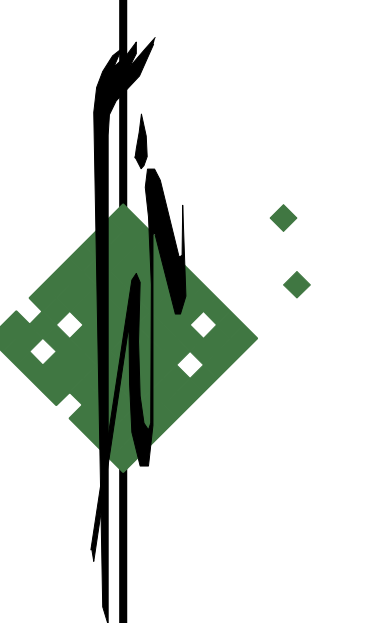
- All materials and execution of landscape works shall conform to the B.C.S.L.A./B.C.N.T.A. Landscape standard. Refer to written specifications for complete landscape documentation.
- Soil shall be supplied by Fraser Richmond Bio-cycle (Garden Mix) conform to the B.C.S.L.A./B.C.N.T.A. Landscape standard (7th ed.)
The Landscape Contractor shall ensure that the on-site planting medium/soil meets this specification & recommendations of the soil analysis taken at the time of Substantial Completion. All recommendations of the soil analysis shall be executed prior to Final Acceptance of the landscape works by the Consultant and the municipal authorities.
- Minimum planting medium depths:
lawn - 6"/150mm
groundcover - 12"/300 mm
shrubs - 18"/450 mm
trees - 12"/300 mm (around & beneath rootball)
- All onsite topsoil to be retained and used onsite as per the B.C.S.L.A./B.C.N.T.A. Landscape standard where testing shows suitable topsoil is.
- All mulch shall be a minimum of 4cm thickness of composted leaf mulch to the satisfaction of the Consultant and the municipal authorities.
- All plant material shall meet minimum size requirements as indicated in plant list. Quality of plant material and grading of site to conform to the B.C.N.T.A. standard for container grown stock.
- All plant material to be supplied on the job site must be obtained from a nursery participating in the BCLNA Phytophthora ramorum Certification Program. Plant material provided by the contractor found to be carrying Pr will be removed, disposed of and replaced at the contractor's expense.
- Tree Protection Measures
Where construction, demolition, or excavation is to take place within 4m of the drip line of a tree to be retained, a protection barrier at least 40" (1.2m) in height must be installed around the tree or group of trees to be retained. The diameter of the barrier shall be no smaller than the drip line of the tree(s). The barrier must be constructed of snow fencing spaced every 2' (1m), plywood sheets fastened to wooden stakes or of another form approved by the municipality. The barrier shall be constructed prior to any site work and remain intact until all construction is complete. The barrier shall clearly display all-weather signage indicating that the area is a protected zone. Any work which must be done within the protection zone is to be done by hand. No burning is to take place close enough for the flames or heat to damage any tree to be retained.
Refer to DNV tree protection detail and plan for approved dimensions.
- Final location and species selection will be to the satisfaction of the District of North Vancouver.
- Irrigation:
Automatic irrigation shall be installed in all planting beds, planters and lawn areas on the developer portion of the site. There shall be no automatic irrigation installed on the DNV portion of the site.

Fragaria chiloensis / Beach Strawberry
Refer to Planting Plan for quantity

PARK/RIPARIAN AREA PLANT LIST

KEY	QTY	BOTANICAL	COMMON NAME	SIZE	CONDITION/COMMENTS
TREES					
AA	5	Amenlaetich alnifolia	Bancklatoon	6cm cal.	B & B
AC	9	Acer circinatum	Vine Maple	Multi-trunk	B & B / 2.5m Ht.
CR1	24	Crataegus 'Toba'	Hawthorne	6 cm cal.	B & B
MAL F	5	Malus fusca	Flowering Crab Apple	5 cm cal.	B & B
OA	5	Oxydendrum arborescens	Sourwood	5 cm cal.	B & B
PI0	5	Pinus contorta	Shore Pine	2.5m Ht.	B & B
PM2	10	Picea omorika	Serbian Spruce	3.5m Ht.	B & B
SJ	9	Styrax japonica	Japanese Snowbell	6cm cal.	B & B
STP	4	Stewartia pseudocamellia	Japanese Stewartia	6 cm cal.	B & B
TP	4	Thuja plicata var.	Western Red Cedar	2.5m Ht.	B & B
SHRUBS					
Amn	121	Amenlaetich x grandiflora	Sievertson Berry	-	B&B / 1.5m Ht.
Amn	74	Arctostaphylos u. Vancouver 'Jade'	Black Chokeberry	-	#3 Flt.
Co	37	Cornus sibirica	Rail Stem Dogwood	-	#2 Flt.
Fya	25	Hydrangea aronata	Climbing Hydrangea	-	#5 Flt.
Ma	15	Myrica gale	Sweet gale	-	-
PM	100	Pinus mugo 'mugo'	Common Mugo Pine	-	#2 Flt.
Ra	105	Ribes sanguinum	Rail Flowering Currant	-	#2 Flt.
Spa	18	Spiraea x humilida 'Anthony Waterer'	Anthony Waterer Spiraea	-	#2 Flt.
Spd	140	Spiraea douglasii	Western Spiraea	-	#2 Flt.
Spm	46	Salix purpurea 'Nana'	Dwarf Arctic Willow	-	#3 Flt.
Sr	122	Sambucus racemosa	Elkberry	-	#3 Flt.
Sym	191	Symphoricarpos alba	Snowberry	-	#5 Flt.
GROUND COVERS					
ar	17	Arctostaphylos u. Vancouver 'Jade'	Vancouver 'Jade' Kinnikinnick	-	#1 Flt.
Be	240	Blechnum spicant	Deer Fern	12"	#1 Flt.
cap	590	Carex testacea	Orange Sedge	-	# 1 pot
clF	104	Calamagrostis x acutiflora 'Karl'	Karl Foerster	12"	#1 pot
Ew	121	Elymus elaeoagrostis 'Wulfert'	Elymus Wulfert	-	#2 Flt.
elm	244	Elymus mollis	Dune grass	-	4" pot
Fc	186	Fragaria chiloensis	Beach Strawberry	see above for hatch	4" pot
ga	1	Gaillardia elatior	Saili	-	#1 Flt.
ho	30	Hemerocallis sp.	Hemerocallis cv	-	#1 Flt.
hu	188	Helictotrichon sempervirens	Blue Oak Grass	12"	#1 Flt.
lm	35	Liriope muscari	Big Blue Lily Turf	-	#1 Flt.
ph	77	Phenacostium alopocuroides 'Hamdr'	Dwarf Fountain Grass	12"	# 1 pot
pot	1036	Phytolichum muricatum	Western Sword Fern	12"	#1 Flt.
sch	150	Symphoricarpos x chenaultii 'Hancock'	occidentalis	-	#1 Flt.
stb	105	Stipa brachytricha	Korean Feather Reed Grass	12"	# 1 pot
stc	126	Stipa tenuissima	Feather Grass	12"	# 1 pot

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- revisions:**
- Feb. 08, 2008, issued for review
 - March 7, 2008 submitted to DNV
 - April 8, 2008 submitted for BEFC.
 - June 04, 2008 resubmitted to DNV
 - Jan. 8, 2009 DP submission to DNV
 - April 2009 all consultants revisions & resubmission for DP to DNV as per DNV comments.

consultants:

project:
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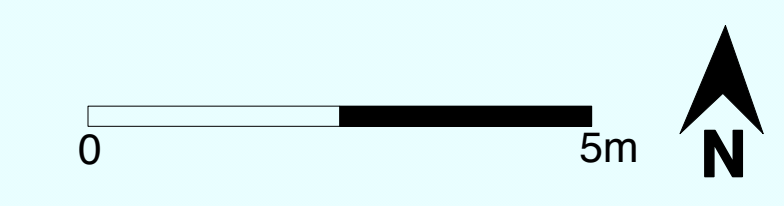
PLANTING PLAN

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date: FEB 08, 2008
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Contractors shall verify and be responsible for all dimensions on the plan and the site shall be informed of any change made on site.

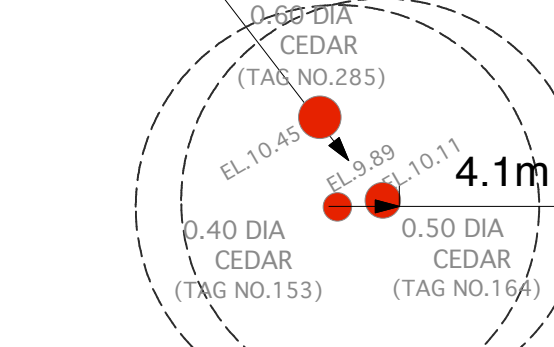
project no: 07.076 sheet no: L2 OF 3

Burrard Inlet



Reclamation Planting to CDNV Requirements.
New construction path and stairs within 15m setback = 865 sq ft
Reclamation planting within 15m setback = 2690 sq ft
Surplus = 1825 sq ft

+/- 1.2 m ht granite faced retaining walls with sloped planting area between (typ)



trees for retention

tree for retention tree protection

tree protection tree for retention

tree protection tree for retention

tree protection tree for retention

tree protection tree for retention

tree protection tree for retention