

Protective Measures to be Employed during Construction
Measures intended to mitigate long-term damage to trees following construction generally entail preserving current site characteristics such as soil bulk density, grades and drainage.

The following measures are recommended to promote tree survival following construction:

Tree Protection Barrier

Plywood clad hoarding, 1.2 metres in height, should be installed adjacent to the trees to be protected. At a minimum, this barrier should either be placed at a distance of 1.2 metres from the trees or at a distance which is greater, whichever is greater. All of the supports and bracing for the barrier should be placed outside of the protected area and should be installed in such a way as to minimize root damage. Also, since the desired effect of the barrier is to prevent construction traffic from entering the protected area, the barrier should be kept in place until all construction has been completed. The barrier should also have signage attached to it indicating its presence as a protection barrier. Lastly, neither the repair or refueling of machinery nor the storage or stockpiling of materials should take place within this area.

Excavation & Root Pruning

No excavations may take place within the CRZ. Instead, directional micro-tunneling and boring should be employed. When excavation must take place outside of the CRZ a trench should be dug carefully either by hand or with hydraulic or pneumatic air excavation technology. After the trench is established, a backhoe or other equipment stationed outside of the CRZ can be used to complete the work. If roots are encountered while trenching outside of the CRZ they should be cleanly cut with either pruning shears or saw wiped with alcohol before each cut. This will ensure clean cuts of the roots, thus facilitating healing.

Treatment of Exposed Roots

If any tree roots are exposed during construction, they should be immediately reburied with soil or temporarily covered with burlap, filter cloth or woodchips and kept moist (i.e. watering with a soft-spray nozzle at least three times a week). A covering of plastic should be used in order to retain moisture during an extended period when watering may not be possible (i.e. over weekends).

Fertilization

Fertilizing the trees with a liquid, deep-root, slow-release fertilizer is recommended only after the completion of all construction. Since the trees could show signs of root-related stress, a fertilizer with a high-phosphorus formulation should be used.

4 TYPICAL TREE PROTECTION - Refer to Detailed Report by IFS

The information above is an excerpt from the full report

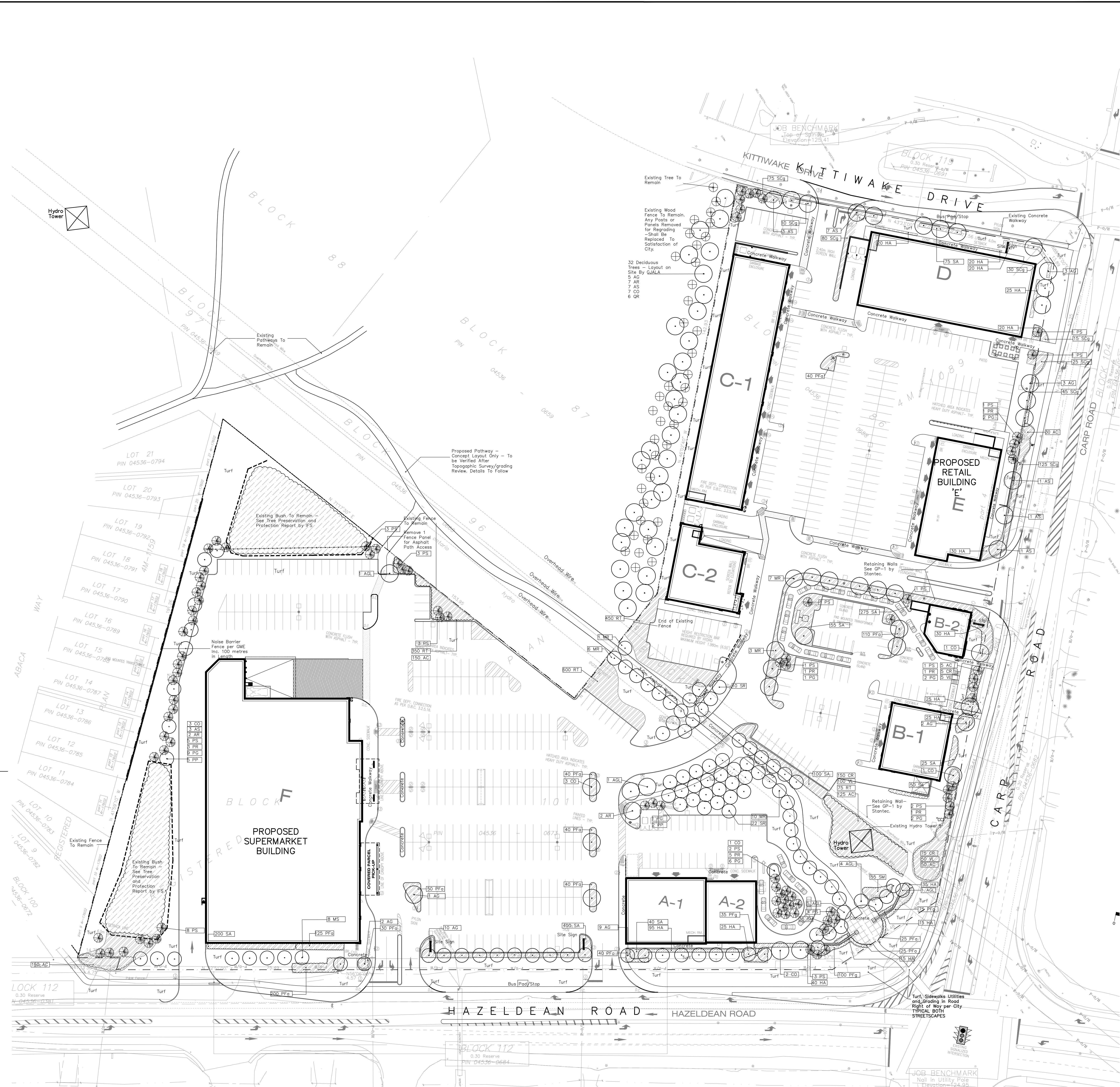
The Use of Existing Vegetation in the Landscape Plan

Numerous juvenile spruce trees presently on the property will be in the way of construction. Since they appear to be in good health they should be considered for transplanting to other areas of the property, perhaps to augment screening. This is also true of a single Bur oak (*Quercus macrocarpa*) which could be used as a centerpiece tree if transplanted. This tree is located near to the intersection of Carp and Hazeldean Roads and has been marked with blue flagging tape.

5 POSSIBLE SMALL TREE TRANSPLANTING - Refer to Detailed Report by IFS

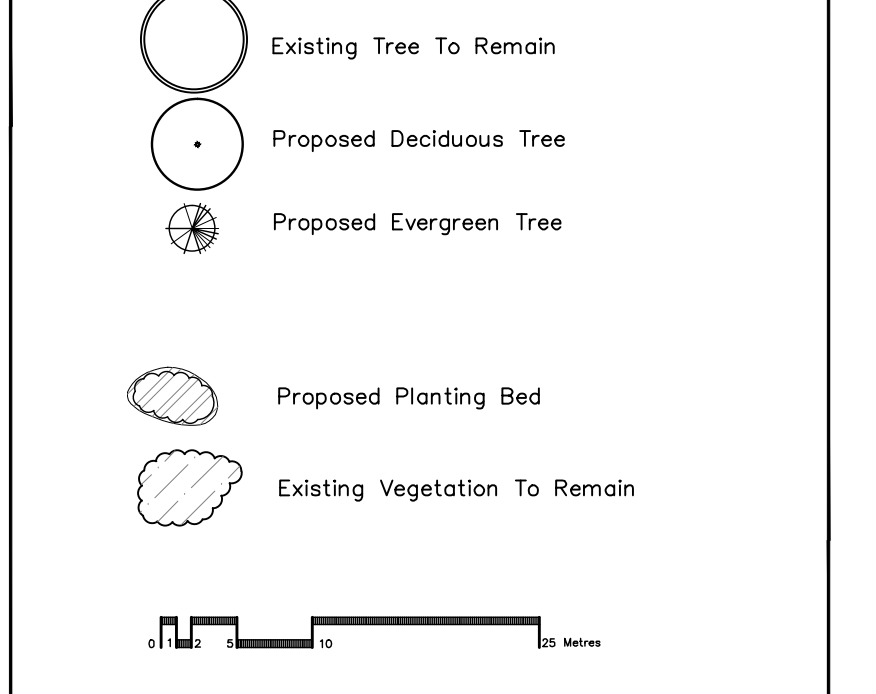
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Code	Botanical Name	Common Name	Size	Cond.
AG 12	<i>Amaranthus gran.</i>	Cumulus Serviceberry	50mm cal	B + B
AGL 11	<i>Aesculus glabra</i>	Ohio Buckeye	50mm cal	B + B
AR 2	<i>Acer rubrum</i>	Red Maple	60mm cal	B + B
AS 3	<i>Acer saccharum</i>	Sugar Maple	60mm cal	B + B
CO 6	<i>Cornus occidentalis</i>	Common Honeysuckle	50mm cal	B + B
MR 17	<i>Malus 'Red Splendour'</i>	Red Splendour Crabapple	50mm cal	B + B
MS 16	<i>Malus 'Snowdrift'</i>	Snowdrift Crabapple	50mm cal	B + B
SR 13	<i>Syringa reticulata 'Honey Silk'</i>	Honey Silk Tree Lilac	50mm cal	B + B
PG 9	<i>Picea abies</i>	White Spruce	150cm ht.	B + B
PP 3	<i>Picea pungens</i>	Green Colorado Spruce	150cm ht.	B + B
PR 3	<i>Pinus resinosa</i>	Red Pine	150cm ht.	B + B
PS 22	<i>Pinus strobus</i>	White Pine	150cm ht.	B + B
AC 130	<i>Ametanther canadensis</i>	Spicebush	60cm ht.	Pat
OR 2	<i>Ornus asplenifolia</i>	Grey Dogwood	60cm ht.	Pat
VA 4	<i>Hydrangea arborescens 'Annabelle'</i>	Annabelle Hydrangea	50 cm ht.	Pat
PA 136	<i>Panicum trichoides 'Spartan'</i>	Spartan Panicum	50 cm ht.	Pat
PA 205	<i>Panicum trichoides 'Spartan'</i>	Spartan Panicum	50 cm ht.	Pat
ST 150	<i>Stipa sp.</i>	Stipa Grass	80 cm ht.	Pat
SG 6	<i>Spirea alba 'Spiraea'</i>	Ornamental Spirea	60cm ht.	Pat
SA 600	<i>Symphoricarpos alba</i>	Coronilla	50cm ht.	Pat
SW 18	<i>Syringa vulgaris 'Royal'</i>	Queen's Lace	50cm ht.	Pat
VL 2	<i>Viburnum lentago</i>	Nannyberry Viburnum	120cm ht.	Pat



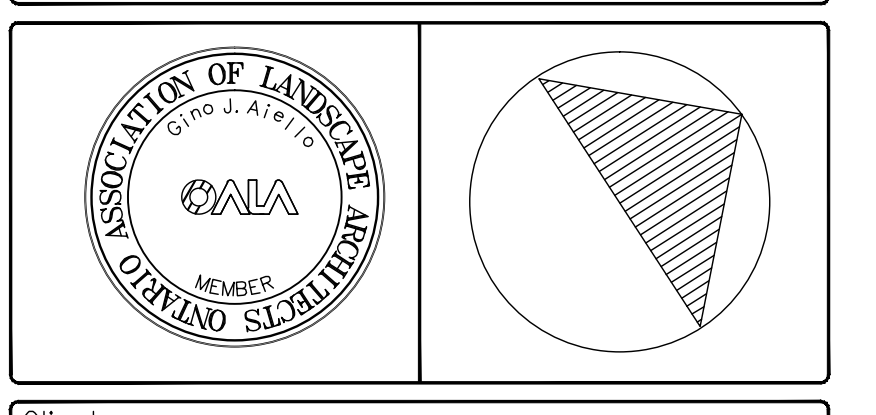
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NOTES:
TURF AREAS TO BE 500 C/W 150MM DEPTH TOPSOIL ON APPROVED SUBGRADE
PLANTING MIX TO BE APPROVED BY LANDSCAPE ARCHITECT
ALL PLANT MATERIAL TO MEET CNRA STANDARDS AND BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PLANTING
REFER TO CIVIL ENGINEER'S DRAWING FOR ELEVATIONS
ALL WORK TO INCLUDE 1 YEAR WARRANTY FROM DATE OF FINAL ACCEPTANCE.



No.	Revision	Date
17	Revised Site	July 19 2010
16	Revised Site and Grading	February 15 2010
15	Revised Site and Subways Building	January 8 2010
14	Revised Site and Kittiwake End	December 23 2009
13	Revised Site and Kittiwake Island	December 9 2009
12	Revised Site and Civil	November 24 2009
11	Revised per City	September 18 2009

No.	Revision	Date
10	Pathway Added on City Lands	December 1 2008
9	per Revised Site and Grading	February 1 2008
8	For Site Plan Control	December 19 2007
7	For Site Plan Control	March 15 2007
6	For Review	February 23 2007
5	per revised site plan	January 19 2007
4	per revised site plan	November 7 2006
3	For Site Plan Control	July 24 2006
2	For Review	March 16 2006
1	For Review	March 2 2006



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Project: **6303 Hazeldean Road**
Carp Road & Hazeldean Road

Drawing: **Landscape Plan**

Drawn By: GJA
Design By: GJA
Date: January 2006
Scale: 1:500
Sheet Number: **L1**