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To: Erin Flanagan  
 CC: Jane Waters  
 From: Darryl Clark  
 Permit #: In application  
 Date: 3/13/2019  
 Re: 1708 Coronation Ave.

**Received**  
 City of Victoria

**MAR 14 2019**

Planning & Development Department  
 Community Planning Division

Hi Erin,

An exploratory trench on the municipal boulevard (as per city instruction) was completed at 1708 Coronation Ave. Victoria BC V8R 1X2 on March 10, 2019. The purpose of this trench was to expose any roots that may cause a conflict with a proposed driveway that would serve a new duplex you are currently applying to build in the city of Victoria. The current city bylaw requires 2 meters from the base of the tree in question and you are asking for a relaxation to 1.6 meters.

#### Summary

1708 Coronation Ave. Inventory of Impacted Trees							
#	Species	cm/DBH	Height/m	PRZ/m	Structure	Health	Retain/Remove
25385	<i>Acer rubrum (columnar)</i>	28	10	3	Good	Good	Retain

DBH-Diameter at Breast Height. Measured at 1.4m from the point of germination. Where the tree is multi-stemmed at 1.4m, the DBH shall be considered 100% of the largest stem and 60% of the sum of the remaining stems, rounded to the nearest cm. PRZ-Protected Root Zone. The PRZ shall be considered 12x the DBH, rounded to the nearest whole meter.

- The purpose of this trench was to expose any roots that may cause a conflict with a proposed driveway
- Excavation was undertaken by hand (shovel) 1.6m east of tree #25385
- Excavation was observed to a depth of approximately 38cm at the deepest point
- (2) roots approximately 1cm in diameter were exposed

1708 Coronation Ave. Root Impact Record					
#	Species	Date of Excavation	<1cm-2.4cm	2.5cm-5cm	>5cm
25385	<i>Acer rubrum (columnar)</i>	March 10, 2019	2	0	0

#### Conclusion

There is no expected overall impact to the health and structural condition of tree #25385 from excavation activities. Excavation for the installation of a driveway to service a new duplex can proceed. Mechanical excavation (machine dig) can proceed but should be supervised/inspected at the westerly edge by the project arborist. Excavation should not be undertaken until approved tree protection fencing is installed by the builder and approved by the project arborist. There is a second tree (#25386)

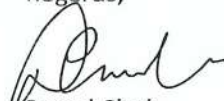
of the same species on the boulevard east of the proposed driveway. Fencing expectations should be the same for this tree as well.

Due to the nature of this species of tree, it is likely that some type of pavement heave will take place in the future without mitigations at the point of construction of the driveway. It is strongly suggested that a root barrier be installed the full length of the driveway drop, from north to south on the westerly side of the driveway.

The trees are a columnar variety and as such are not anticipated to have any overhead conflicts with the proposed driveway.

I am available for any questions or concerns you have regarding this memo.

Regards,



Darryl Clark

Certified Arborist PN-6523A  
TRAQ Certified  
ISA Tree Risk Assessor CTRA 459

#### PHOTOS





1708 Coronation Ave.

March 10, 2019

view of south side of trench from curb  
edge west side





1708 Coronation Ave.

March 10, 2019

View of north end of trench from street

