



City of Camas- Tree Inventory- Downtown Camas
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Arborists are tree specialists who use their education, knowledge, training and experience to examine trees, recommend measures to enhance the beauty and health of trees, and attempt to reduce the risk of living, working and playing near trees. Clients may choose to accept or disregard the recommendations of the arborist, or to seek additional advice.

Arborists cannot detect every condition that could possibly lead to the structural failure of trees. Trees are living organisms that fail in ways that we do not fully understand. Conditions are often hidden within trees or below ground. Arborists cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time. Likewise, remedial treatments, like any medicine, cannot be guaranteed. Even healthy trees with little to no observable defect or disease can begin to fail when wind speeds exceed average high annual wind speeds, and under snow and ice loads; such events cannot be managed or predicted.

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Observations

This is the main street shopping area of Camas with at least 70 small to medium business entities and many community events that occur in this vicinity. It is high traffic area with parking on both sides of the street and a high volume of pedestrian's during business hours. It is quintessential of "old town America".

There are seven species that are planted in this area. They are;

- Norway Maples-34
- Red Oaks, *Quercus rubra* - 14
- Ash, *Fraxinus* spp. 24
- Liquidamber spp. sweetgum 9
- *Prunus* spp. Fl. Cherry 3
- *Cornus* spp.. 5
- Fl. Pear 2

The majority of canopy is provided by two species, the Oaks and Maples. The other varieties are relatively small and insignificant in the area. In fact most are under drought stress, (Ash) and are disfigured. The concrete opening for 80% of the trees is too small, most being less than 3'. Soil levels are high; there is no provision for watering the trees. There is surprisingly little concrete uplifting.

The Norway Maple spp. is a relatively short lived tree, with 50-60 years in these conditions being a long life. Most of the specimens are over-mature, over pruned and showing signs of decline.

The red Oaks are a massive organism and when planted in the ideal space, (large parks) are a very special tree. A few of the specimens had end weight reduction cuts made, the effect was to make the trees narrow and not overhang the building. These are a longer lived tree spp. but usually there are many underground utilities issues that arise. This causes concern any time roots are cut during utility repair, replacement, or construction. This area of the world can experience very high winds because of the proximity to the Columbia gorge.

The *Fraxinus* spp. Ash was planted within the last 5-7 years, (I'm guessing). Most are stunted and insignificant. The openings are too small, the quality of trees was poor. The biggest issue is what is coming our way, (Emerald Ash Borer). No one is planting this species anymore.

Throughout the canopy there are Christmas lights that are attached. On many of the trees we looked at this is too tight and cutting into the cambium. Attempting to decrease the number of years between light service will help reduce this issue.



Discussion

This is a highly visible area in an affluent community. Most of the Maples should be budgeted for removal and replacement inside of 5 years. The Oaks are too large for this area but I fear the repercussions and politics surrounding this species will be overpowering. It will take strong leadership to make some of the changes that need to be made. I believe the future of this area has great potential but it will take a large budget and planning to pull my recommendations off.

Recommendations

Short term- Budget for removal of dead or dying trees and removal of dead wood in the canopy of all species. Have discussions about conditions of Oak trees in this area.

Medium term - Have a landscape architect redesign this area with raised planters, larger opening, fewer but more significant trees. Have a company like New Day Arborist consult on locations of tree placement and design ideas with landscape Architect.

Long term- Budget and implement plan over a 2-3 year time frame.

The recommendation for removal in the tree inventory is subject to City of Camas's long term goals. If the City is interested in re-design of the downtown canopy, replacement trees can wait until a more established plan is in place.

At the end of this report are several pictures that I have searched that may provide an idea to the future that I see as a possibility for Camas. My idea is to keep the "old town" feeling while adding a "modern" flair.

If you have any questions, please let me know.

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ISA Tree Risk Assessment Qualified

ASCA Registered Consulting Arborist # 525



New Day Arborist							
Tree Inventory and Assessment Form							
Tree #	Species	DBH	Location Lat X Lng	Approx. Height	Defects	Mitigation	
		Inch					
1	Acer- Norway Upright	15	NE 4th Ave. NE Franklin St. Lat 45.586 Long- 122.401900	20	Small Concrete Opening- one low limb	Increase size of planter- raise canopy	
2	Acer- Sp. Norway	14	45.586987X -122.401900	20	Small Concrete opening	Increase size of planter- raise canopy	
3	Acer Norway	12	45.586963 X -122.401910	20	Canopy in decline- opening too small	budget for removal	
4	Acer Norway	16	45.586905 X -122.402139	20	Opening too small		
5	Acer Norway	13	45.586831 X -122.402139	20	Opening too small	Increase size of planter-- 5-10 yr life span	
6	Liquidamber	14	45.586617 X -122.402132	20	Topped- Under wire	slightly low on street side- raise canopy	
7	Liquidamber	24	45.586537 X-122.402059	25	Blowing up sidewalk	Remove and replace	
8	Liquidamber	13.5	45.586527 X-122.402280	30	3 leaders- concrete opening too small	subordinate two - increase planter size	

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Tree #	Species	DBH	Location Lat X Lng	Approx. Height	Defects	Mitigation	
		Inch					
9	Liquidamber	12	45.586561 X -122.402354	30	A few long limbs over building	end weight reduction	
10	Norway Maple	20	45.586561 X -122.402354	30	Canopy in decline	replace	
11	Norway Maple	19.5	45.586649 X-122.402507	30	Declining	budget for replacement	
12	Red Oak	25	45.586550X -122.402780	60	Co-dominant attachment at 10'-raising of concrete	will continue to cause issue with infrastructure	
13	Red Oak	25.5	45.58551X -122.402832	60	Nice tree - very large for space allowed	low limb over parking- raise canopy	
14	Liquidamber	9	45.586400 X-122.402887	30	small opening	increase size of planter	
15	Norway Maple	19	45.586339 X -122.403105	30	declining	replace	
16	Norway Maple	15	45.586244X -122.403083	20	declining	replace	

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Tree #	Species	DBH	Location Lat X Lng	Approx. Height	Defects	Mitigation	
		Inch					
17	Flowing Cherry	5	45.586085X -122.403170	12	concrete opening is too small	increase size of opening	
18	Flowing Cherry	6.5	45.586156 X-122.403182	12	damage to trunk- cars		
19	Norway Maple	19	45.586219 X-122.403339	35	declining- deadwood.	Budget for removal 3-5 yrs. Remove deadwood now	
20	Cornus florida	9	45.586146 X -122.403500	12	over pruned	Budget for removal 3-5 yrs. Remove deadwood now	
21	Red Oak	29	45.586109 X-122.403641	60		reduce limbs over structure	
22	Liquidamber	10	45.586056X -122.403673	25		some limbs too low - raise	
23	Liquidamber	9.5	45.585973X-122.403813	30	concrete opening is too small		
24	Norway Maple	23.5	45.585929 X-122.403945	40	small amount of deadwood.- grade is raised.	no more bark- soil grade too high	



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Tree #	Species	DBH	Location Lat X Lng	Approx. Height	Defects	Mitigation
		Inch				
25	Norway Maple	16	45.585856X-122.403969	30	Wire should be removed	Remove wire
26	Liquidamber	9.5	45.585736X-122.403872	30		
27	Ash	7	45.585591X-122.403771	25	drought stressed- poor specimen	increase size of concrete opening
	Ash		Not tagged bad shape			
28	Ash	3	45.585534X-122.403842	12		increase size of concrete opening
29	Ash	3	45.585573X-122.403939	12		ince
30	Norway Maple	18	45.585740X-122.404078	30	declining canopy	replace
31	Norway Maple	18	45.585751X-122.404.154	30	dead wood	remove wire

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Tree #	Species	DBH	Location Lat X Lng	Approx. Height	Defects	Mitigation	
		Inch					
31	Ash	2	45.585712X-122.404350	12	Dead	removal	
32	Red Oak	20	45.585619X-122.404432	40	Dead wood	remove dead wood	
33	Red Oak	22	45.585610X-122.404550	60	Dead wood	remove dead wood	
34	Red Oak	24	45.585558X-122.404599	60	too much pruning- small dead wood. over sized	remove dead wood	
35	Ash	2.5	45.585545X-122.404689	12	concrete opening too small	increase concrete opening	
36	Norway Maple	24	45.585377X-122.404775	25	declining- small amount of dead wood	budget for removal 3 yrs	
37	Ash	2	45.585218X-122.404753	12	small concrete opening	increase concrete opening	
38	Ash	7.5	45.585218X-122.404753	17	small concrete opening	increase concrete opening	



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Tree #	Species	DBH	Location Lat X Lng	Approx. Height	Defects	Mitigation	
		Inch					
39	Ash	8	45.585006X-122.404472	20	Small concrete opening- poor specimen	Increase size	
40	Maple	6	45.584872X-122.404455	15	Declining	budget for Removal	
41	Maple	4.5	45.584977X-122.404614	15	Small concrete opening Poor specimen	increase concrete opening	
42	Maple	8	45.585000X-122.404635	20	Increase size of concrete opening- low limbs	increase concrete opening- Remove limb	
43	Ash	2.5	45.585144X-122.404733	15	small concrete openings		
44	Maple	7	45.585158X-122.404775	20	stem damage at base	budget for Removal	
45	Maple	23.5	45.585283X-122.404934	30	wire too tight. Soil raised around trunk. Small amount of dead wood	take wire off- remove dead wood	
46	Cornus florida	11.5	45.585377X-122.405047	15	grade too high	remove soil from base of trunk	



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Tree #	Species	DBH	Location Lat X Lng	Approx. Height	Defects	Mitigation	
		Inch					
47	Ash	7	45.585291X-122.405137	20	Nice tree no problems		
48	Liquidamber	7.5	45.585208X-122.405262	25			
49	Red Oak	32.5	45.585172X-122.404411	65	Wires	remove wire	
50	Red Oak	33	45.585141X-122.405401	70	Cluster branching/ water meter at base.	consider removal	
51	Red Oak	27	45.585206X-122.405453	70	heavy reduction cuts in past		
52	Red Oak	27	45.585278X-122.405321	70	heavy reduction cuts in past	splinter growth	
53	Cornus Sp.	2	45.585354X-122.405057	10	too small of a species in this space	wrong tree in this location	
54	Norway Maple	26	45.585497X-122.405081	40	small amount of dead wood.	remove	

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Tree #	Species	DBH	Location Lat X Lng	Approx. Height	Defects	Mitigation
		Inch				
no tag	Cornus Kousa	4	45.585538X-122.405212	10		
55	Acer	10	45.585633X-122.505305	20	Concrete opening too small	Increase size of concrete opening
56	Cornus sp.	6	45.585675X-122.405304	18	construction damage	
57	Ash	18	45.585818X-122.405294	18	heavy limbs over building	end weight reduction. Increase concrete opening
no tag	Ash	4.5	45.585695X-122.405276	15	trunk damage	remove- increase concrete opening
58	Maple- norway	22.5	45.585530X-122.404980	35	some lower limbs over parking area. Small amount of dead wood	raise canopy. Or remove
59	Norway Maple	23.5	45.585488X-122.404877	40	light canopy. Small amount of dead wood	5 years left. Not strong specimen
60	Red Oak	34.5	45.585623X-122.404706	80	Some limbs over building	

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Tree #	Species	DBH	Location Lat X Lng	Approx. Height	Defects	Mitigation	
		Inch					
no tag	Ash	2	45.585732X-122.404535	12	Dead- Increase size of concrete opening	Remove	
61	Ash	3	45.585766X-122.404396	15	Small concrete opening	Increase size of concrete opening	
62	Maple	19	45.585829X-122.404221	35	light canopy small amount of dead wood	short timer- budget for removal	
63	Maple	26	45.585961X-122.404228	35	over 50% canopy dead	hazard tree- remove	
no tag	Ash	4	45.585944X-122.404264	20	Poor specimen Increase size of concrete hole	remove- increase concrete opening	
64	Ash	12	45.586027X-122.404360	30	a few limbs on the building	end weight reduction	
65	Ash	17.5	45.586133X-122.404494	30	Poor specimen Increase size of concrete hole	removal	
66	Ash	17	45.586249X-122.404628	30	small opening. Telephone pole rubbing. Wire on stem	increase size of opening	

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Tree #	Species	DBH	Location Lat X Lng	Approx. Height	Defects	Mitigation	
		Inch					
67	Ash	16.55	45.586355X-122.404691	35	Small opening.		
68	Flowering pear	5	45.586378X-122.404571	17	low limbs in visual space	raise canopy. Hazard	
69	Ash	4	45.586330-X122.404498	17			
70	Flowering Pear	12	45.586227X-122.404407	17	low limbs in visual space	raise canopy	
71	Ash	21	45.586147X-122.404290	25	Dead- Increase size of concrete opening	hazard tree- remove	
72	Maple	22	45.585982X-122.404203	40	some low dead limbs	Remove dead limbs	
73	Maple	31	45.585945X-122.404604	45	light canopy. Some dead wood		
74	Red Oak		45.586066X-122.403858		some low limbs over street	Raise	



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Tree #	Species	DBH	Location Lat X Lng	Approx. Height	Defects	Mitigation
		Inch				
75	Red Oak	22	45.586172X-122.403740	60	Small dead wood	
76	Red Oak	28	45.586215X-122.403603	65	heavily weighted over building	reduce branch length over building
77	Maple	17	45.586334X-122.403477	35	light canopy	budget for removal
78	Maple	17.5	45.586347X-122.403441	30	light canopy	
no tag	Ash	2.5	45.586395X-122.403509	15	dead	removal and replace
79	Ash	3	45.586514X-122.403675	15	increase size of concrete opening	
80	Prunus	10	45.586458X-122.403494	15	poor specimen	remove
81	Maple	18	45.586.51X-122.403373	30	Light canopy	remove



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Tree #	Species	DBH Inch	Location Lat X Lng	Approx. Height	Defects	Mitigation
82	Maple	19	45.586349X-122.403156	45	Light canopy Dead wood throughout	Remove
83	Red Oak	22	45.586407X-122.402879	65	Cluster branching.	Structural pruning
84	Red Oak	24	45.586557X-122.402894	65	Cluster branching. Few low limbs	structural pruning
85	Maple	25	45.586709X-122.402576	40	Dead wood throughout	remove dead limbs
86	Maple	24	45.586763X-122.402581	40	Topped in past. Light canopy	remove dead limbs





One idea for a more interesting planting space.



Creating larger openings for the trees, and adding a more “interactive” place for pedestrians.

This helps to reduce the amount of compacted soil around the tree. The planters should be as large as possible. Overall, my idea is fewer trees, but higher end species, quality, and more consideration to location through the downtown area.