

[illegible]

1	2	3	4	5	6	7		8	9	10		11				12		
#	Tree Tag #	Species ID	DBH (in)	Adj. DBH (in)	Drip-line radius (ft)	Wind-firm	OK in Grove	Health	Defects/Comments	Proposed Action		CRZ/TPZ/LOD				Value	Healthy Tree Credits	Retained value
										Ret.	Rem	Radius in feet						
										Viable	Remove	N	W	E	S			
1	301	Douglas fir	25	25	15		Y	Fair	Abnormal bark, shedding bark, popping bark, previous top loss, elongated branches, woodpecker activity, torque crack @ root crown up to 15' towards west	1		15	15	15	15			
2	302	Red alder	20	20	12			Poor	Dead top, previous top loss @ 30', dead scaffold		1	12	12	12	12			
3	303	Douglas fir	42	42	14		Y	Fair	Exposed roots, cavity @ root crown towards west, previous top loss, elongated branches, typical of species, woodpecker activity	1		14	14	14	14			
4	304	Douglas fir	48	48	18			OK	Previous top loss, elongated branches, dead wood, broken branches, typical of species	1		18	18	18	18			
5	305	Bigleaf maple	16.7	16.7	16		Y	Fair	Co-dominant leaders with included bark x2 @ 6', weak leaders	1		16	16	16	16			
6	306	Red alder	10.4	10.4	12			Fair	Suppressed canopy, low live crown ratio <10%, moss and lichen, failing south		1	12	12	12	12			
7	307	Japanese maple	10.7	10.7	14			OK	Moss and lichen, lean towards north, dead wood, broken branches, typical of species	1		14	14	14	14			
8	308	Japanese maple	10	10	16		Y	OK/Fair	Moss and lichen, lean towards north, typical of species, cavity @ 5' up to 6' towards east	1		16	16	16	16			

9	309	Japanese maple	10, 8	13	18			Fair	Co-dominant leaders with included bark x2 @ 2', cavity on scaffold, dead scaffolds, dead wood, moss and lichen		1	18	18	18	18			
10	310	Japanese maple	10	10	18			Fair	Ivy @ root crown up to 20', lean towards west, moss and lichen, typical of species		1	18	18	18	18			
11	311	Madrona	14, 4	14.5	14			OK	Co-dominant leaders with included bark x2 @ root crown, ivy @ root crown up to 15', typical of species	1		14	14	14	14			
12	312	Western red cedar	16, 8	18	10			OK	Co-dominant leaders with included bark x2 @ root crown, ivy @ root crown up to 6', twisted trunk, typical of species	1		10	10	10	10			
13	313	Western red cedar	4, 20	20.5	13		Y	Fair	Co-dominant leaders with included bark x2 @ root crown, dead top, ivy @ root crown up to 30', woodpecker activity	1		13	13	13	13			
14	314	Douglas fir	28	28	15		Y	Fair	Ivy @ root crown up to 10', thin canopy, dead wood, broken branches, typical of species	1		15	15	15	15			
15	315	Douglas fir	34	34	18			OK	Thin canopy, dead wood, broken branches, ivy @ root crown up to 20'	1		18	18	18	18			
16	316	Scots pine	14	14	15			OK	Ivy @ root crown up to 20', serpentine trunk, moss and lichen, typical of species	1		15	15	15	15			
17	317	Hemlock	26	26	21			OK	Nurse tree, thin canopy, dead wood, broken branches, typical of species	1		21	21	21	21			
18	318	Beech	18	18	24			Good	Typical of species	1		24	24	24	24			
19	319	Hemlock	16	16	14		Y	Fair	Thin canopy, dead wood, broken branches, exposed roots, typical of species	1		14	14	14	14			
20	320	Western red cedar	44	44	18			OK	Nurse tree, large cavity up to 8', carpenter ants , typical of species	1		18	18	18	18			
21	321	Eastern white pine	8, 4, 6, 6	12.5	10			OK	Co-dominant leaders with included bark x4 @ root crown, typical of species	1		10	10	10	10			
22	322	Douglas fir	10	10	10			OK	Dead wood, broken branches, typical of species	1		10	10	10	10			

23	323	Douglas fir	10	10	14			OK	Thin canopy, low live crown ratio <30%, typical of species	1		14	14	14	14			
24	324	Douglas fir	10	10	14		Y	Fair	Thin canopy, co-dominant canopy, typical of species	1		14	14	14	14			
25	325	Douglas fir	4, 12	12.5	14			OK	Co-dominant leaders with included bark x2 @ root crown, failing south, thin canopy, typical of species	1		14	14	14	14			
26	326	Western red cedar	14	14	14			OK	Thin canopy, typical of species	1		14	14	14	14			
27	327	Western red cedar	9	9	13			OK	Typical of species	1		13	13	13	13			
28	328	Western red cedar	8	8	10			OK	Thin canopy, typical of species	1		10	10	10	10			
29	329	Douglas fir	72	72	45			OK	Previous top loss, elongated branches, scraping wound 30' up to 40' towards east, typical of species	1		45	45	45	45			
30	330	Douglas fir	61	61	45			OK	Previous top loss, elongated branches, dead wood, broken branches, previous ivy @ root crown up to 50'	1		45	45	45	45			
31	331	Western red cedar	14	14	14			OK	Thin canopy, typical of species	1		14	14	14	14			
32	332	Norway spruce	8	8	8			Fair	Dead wood, broken branches, spruce adelgid, ivy @ root crown up to 50'		1	8	8	8	8			
33	333	Douglas fir	35	35	22		Y	Fair	Previous ivy @ root crown up to 80', racoon scat, dead wood, broken branches, previous top loss, elongated branches	1		22	22	22	22			
34	334	Douglas fir	32	32	22			OK	Asymmetric canopy towards east, previous top loss, elongated branches, dead wood, broken branches, typical of species	1		22	22	22	22			
35	335	Douglas fir	8	8	12			OK	Asymmetric canopy towards west, perennial canker, typical of species	1		12	12	12	12			
36	336	Douglas fir	8	8	8			OK	Asymmetric canopy towards west, ivy @ root crown up to 20', typical of species	1		8	8	8	8			

37	337	Bigleaf maple	30	30	18			OK	Moss and lichen, typical of species, slight lean towards west	1		18	18	18	18			
38	338	Douglas fir	13	13	14			OK	Low live crown ratio <30%, previous top loss, elongated branches, typical of species	1		14	14	14	14			
39	339	Bigleaf maple	22	22	18			OK	Moss and lichen, typical of species	1		18	18	18	18			
40	340	Lodgepole pine	16	16	18		Y	Fair	Woodpecker activity, horizontal crack @ 12' towards east, asymmetric canopy towards south, typical of species	1		18	18	18	18			
41	341	Bigleaf maple	22	22	20			OK	Tagged on #340, co-dominant leaders with included bark x2 @ 10', moss and lichen, typical of species	1		20	20	20	20			
42	342	Douglas fir	8	8	6			OK	Suppressed canopy, typical of species	1		6	6	6	6			
43	343	Hemlock	6, 7	9	10			OK	Co-dominant leaders with included bark x2 @ root crown, typical of species	1		10	10	10	10			
44	344	Western red cedar	9	9	9			OK	Typical of species	1		9	9	9	9			
45	345	Black pine	12	12	16			Fair	Trunk gall, serpentine trunk, typical of species		1	16	16	16	16			
46	346	Western red cedar	9	9	8			Fair	Co-dominant leaders with included bark x2 @ 10', typical of species		1	8	8	8	8			
47	347	Hemlock	18	18	12		Y	Fair	Nurse tree @ 6', typical of species	1		12	12	12	12			
48	348	Hemlock	18	18	13			OK	Thin canopy, dead wood, broken branches, exposed roots, typical of species	1		13	13	13	13			
49	349	Douglas fir	29.8	29.8	18			Poor	Topped @ 30', weak laterals, abnormal bark, shedding bark, popping bark		1	18	18	18	18			
50	350	Douglas fir	34	34	20		Y	Fair	Kink @ 50', dead wood, broken branches, previous top loss, elongated branches	1		20	20	20	20			
51	351	Douglas fir	32	32	19			OK	Previous top loss, elongated branches, dead wood, broken branches, asymmetric canopy towards north	1		19	19	19	19			

52	352	Douglas fir	32	32	24			Fair	Exposed roots, cavity @ root crown up to 1' towards west, woodpecker activity		1	24	24	24	24			
53	353	Douglas fir	18	18	16		Y	Fair	Calloused wound @ root crown up to 1' towards west, low live crown ratio <20%, previous top loss, elongated branches	1		16	16	16	16			
54	354	Douglas fir	16	16	16			OK	Dead wood, broken branches, no taper, suppressed canopy, typical of species	1		16	16	16	16			
55	355	Douglas fir	14	14	12			Fair	Previous top loss @ 30', strong leader, suppressed canopy, dead wood, broken branches, thin canopy, asymmetric canopy towards south, lean towards south		1	12	12	12	12			
56	356	Hemlock	12	12	12		Y	Fair	Nurse tree, exposed roots, asymmetric canopy towards east, typical of species	1		12	12	12	12			
57	357	Hemlock	20	20	14		Y	Fair	Nurse tree, exposed roots, asymmetric canopy towards west, typical of species	1		14	14	14	14			
58	358	Douglas fir	49.7	49.7	21		Y	Fair	Abnormal bark, shedding bark, popping bark, low live crown ratio <30%, dead wood, broken branches, typical of species	1		21	21	21	21			
59	359	Douglas fir	34	34	20		Y	Fair	Low live crown ratio <20%, asymmetric canopy towards west, previous top loss, elongated branches, calloused wound @ 15' towards south, typical of species, abnormal bark, shedding bark	1		20	20	20	20			
60	360	Bigleaf maple	14, 28, 18	36	30		Y	Fair	Co-dominant leaders with included bark x3 @ 4', cavity @ crotch, exposed roots, moss and lichen, hypoxylon canker	1		30	30	30	30			
61	361	Bigleaf maple	18	18	20			Fair	Previous top loss @ 50', asymmetric canopy towards south, dead scaffolds		1	20	20	20	20			

62	362	Douglas fir	14, 40	42.5	24			OK	Co-dominant leaders with included bark x2 @ root crown, abnormal bark, shedding bark, popping bark, woodpecker activity, previous top loss, elongated branches, typical of species	1		24	24	24	24			
63	363	Douglas fir	28	28	28			Poor	Previous top loss @ 50', weak leader, abnormal bark, shedding bark, popping bark, failing towards north, laminated root rot?		1	28	28	28	28			
64	364	Douglas fir	18	18	18			Poor	No taper, abnormal bark, shedding bark, popping bark, previous top loss, elongated branches, laminated root rot?		1	18	18	18	18			
65	365	Hemlock	15	15	14			OK	Asymmetric canopy towards north, dead wood, broken branches, exposed roots, typical of species	1		14	14	14	14			
66	366	Hemlock	7	7	8		Y	Fair	Dead wood, broken branches, suppressed canopy	1		8	8	8	8			
67	367	Douglas fir	14	14	14		Y	Fair	Dead wood, broken branches, suppressed canopy, typical of species	1		14	14	14	14			
68	368	Douglas fir	32	32	18			OK	Dead wood, broken branches, previous top loss, elongated branches, typical of species	1		18	18	18	18			
69	369	Douglas fir	26	26	16			Fair	Kink @ 25', asymmetric canopy towards west, previous top loss, elongated branches, self-corrected lean		1	16	16	16	16			
70	370	Douglas fir	13	13	12			Poor	Previous top loss @ 30', moss and lichen, failing towards south		1	12	12	12	12			
71	371	Douglas fir	21.5	21.5	18			OK	Dead wood, broken branches, previous top loss, elongated branches, low live crown ratio <30%	1		18	18	18	18			
72	372	Western red cedar	18	18	14			OK	Asymmetric canopy towards west, dead top, co-dominant canopy, typical of species	1		14	14	14	14			

73	373	Western red cedar	31	31	14			Fair	Cavity @ root crown up to 6' towards east, previous top loss @ 10', weak leader, co-dominant canopy		1	14	14	14	14			
74	374	Bigleaf maple	36, 12	38	21			OK	Co-dominant leaders with included bark x2 @ root crown, moss and lichen, dead wood, broken branches, hanger, typical of species	1		21	21	21	21			
75	375	Douglas fir	16	16	15			OK	Low live crown ratio <5%, previous top loss, elongated branches, dead wood, broken branches, typical of species	1		15	15	15	15			
76	376	Douglas fir	12, 16	20	14			Fair	Co-dominant leaders with included bark x2 @ root crown, previous top loss, dead wood, broken branches, asymmetric canopy towards west		1	14	14	14	14			
77	377	Douglas fir	38	38	18			OK	Ivy @ root crown up to 15', free flowing sap, previous top loss, elongated branches, epicormic branch formation @ 20' towards east	1		18	18	18	18			
78	378	Douglas fir	16	16	15			Poor	Self-corrected lean towards east, serpentine trunk, suppressed canopy		1	15	15	15	15			
79	379	Douglas fir	14	14	12			Poor	Serpentine trunk, self-corrected lean towards south, previous top loss, asymmetric canopy towards south		1	12	12	12	12			
80	380	Douglas fir	16	16	14			Fair	Self-corrected lean towards north, serpentine trunk, previous top loss, elongated branches, dead wood, broken branches, asymmetric canopy towards south		1	14	14	14	14			
81	381	Douglas fir	18	18	16			Fair	Lean towards north, dead wood, broken branches, dead twigs, moss and lichen, previous top loss, elongated branches		1	16	16	16	16			

82	382	Douglas fir	22	22	18			OK	Serpentine trunk, asymmetric canopy towards north, dead wood, broken branches, typical of species	1		18	18	18	18			
83	383	Douglas fir	29.5	29.5	20			Poor	Moss and lichen, serpentine trunk, lean towards east, previous top loss, elongated branches		1	20	20	20	20			
84	384	Douglas fir	23.6	23.6	16			Fair	Bulge @ 20', low live crown ratio <20%, previous top loss, elongated branches, lean towards north		1	16	16	16	16			
85	385	Douglas fir	21	21	18			OK	Previous top loss, elongated branches, dead wood, broken branches, moss and lichen, typical of species	1		18	18	18	18			
86	386	Red alder	11	11	16			Fair	Lean towards east, moss and lichen		1	16	16	16	16			
87	387	Douglas fir	23.5	23.5	16			OK/Fair	Low live crown ratio <30%, asymmetric canopy towards south, dead wood, broken branches, co-dominant canopy, typical of species	1		16	16	16	16			
88	388	Douglas fir	16	16	16			Fair	No taper, kink @ 20', previous top loss @ 40'		1	16	16	16	16			
89	389	Douglas fir	34.2	34.2	15		Y	Fair	Abnormal bark, shedding bark, popping bark, dead wood, broken branches, previous top loss, elongated branches, typical of species	1		15	15	15	15			
90	390	Douglas fir	22	22	16		Y	Fair	Asymmetric canopy towards west, low live crown ratio <30%, abnormal bark, shedding bark, horizontal crack @ 6' towards east	1		16	16	16	16			
91	391	Douglas fir	29	29	18		Y	Fair	Low live crown ratio <20%, previous top loss, elongated branches, red ring rot, typical of species	1		18	18	18	18			
92	392	Douglas fir	13	13	12		Y	Fair	Suppressed canopy, dead wood, broken branches, previous top loss	1		12	12	12	12			

93	393	Douglas fir	35	35	18			OK	Dead wood, broken branches, previous top loss, elongated branches	1		18	18	18	18			
94	394	Douglas fir	36.6	36.6	22			OK	Previous top loss, elongated branches, asymmetric canopy towards east, dead wood, broken branches, typical of species	1		22	22	22	22			
95	395	Douglas fir	22	22	16			Poor	Abnormal bark, shedding bark, previous top loss @ 6', dead spur, asymmetric canopy towards east, taps hollow		1	16	16	16	16			
96	396	Douglas fir	11	11	12			OK	Suppressed canopy, previous top loss, lean towards east, asymmetric canopy towards east	1		12	12	12	12			
97	397	Douglas fir	15	15	16			Fair	Thin canopy, dead wood, broken branches, asymmetric canopy towards northeast		1	16	16	16	16			
98	398	Douglas fir	42	42	22			OK	Previous top loss, elongated branches, dead wood, broken branches, typical of species	1		22	22	22	22			
99	94	Douglas fir	9	9	14			Poor	Previously girdled with wire @ 4', free flowing sap		1	14	14	14	14			
100	399	Douglas fir	13.8	13.8	8		Y	Fair	Suppressed canopy, serpentine trunk, dead wood, broken branches	1		8	8	8	8			
101	400	Douglas fir	26.2	26.2	18		Y	Fair	Previous top loss, elongated branches, dead wood, broken branches, typical of species	1		18	18	18	18			
102	513	Douglas fir	28.8	28.8	18			OK	Low live crown ratio <30%, previous top loss, elongated branches, dead wood, broken branches, typical of species	1		18	18	18	18			
103	93	Douglas fir	8	8	8		Y	Fair	Suppressed canopy, thin canopy	1		8	8	8	8			
104	299	Douglas fir	24	24	18		Y	Fair	Ivy @ root crown up to 25', co-dominant canopy, asymmetric canopy towards west, previous top loss, elongated branches	1		18	18	18	18			

105	53	Douglas fir	26	26	20			Poor	Self-corrected lean towards north, woodpecker activity, carpenter ants, dead wood, broken branches		1	20	20	20	20			
106	217	Douglas fir	30	30	22		Y	Fair	Girdled by barb wire fencing @ 4', co-dominant canopy, low live crown ratio <30%, previous top loss, elongated branches, dead wood, broken branches	1		22	22	22	22			
107	433	Douglas fir	16	16	10		Y	Fair	Suppressed canopy, asymmetric canopy towards south, no taper, typical of species	1		10	10	10	10			
108	246	Douglas fir	22	22	18			OK	Previous top loss, elongated branches, asymmetric canopy towards west, dead wood, broken branches, typical of species		1	18	18	18	18			
109	243	Douglas fir	22	22	18		Y	Fair	Asymmetric canopy towards east, dead wood, broken branches, previous top loss, elongated branches, exposed roots, moss and lichen	1		18	18	18	18			
110	537	Douglas fir	36	36	18			OK	Ivy @ root crown up to 15', hanger, dead wood, broken branches, typical of species	1		18	18	18	18			
111	497	Douglas fir	19.7	19.7	18		Y	Fair	Ivy @ root crown up to 30', pin point crack @ 5', free flowing sap, dead wood, broken branches, previous top loss, elongated branches	1		18	18	18	18			
112	498	Douglas fir	14	14	16			OK	Suppressed canopy, dead wood, broken branches, self-corrected lean towards west, hanger, typical of species	1		16	16	16	16			
113	501	Douglas fir	24.5	24.5	18			Fair	Carpenter ants, woodpecker activity, taps hollow, asymmetric canopy towards west, lean towards west		1	18	18	18	18			

114	245	Douglas fir	39	39	18		Y	Fair	Co-dominant leaders with included bark x2 @ 8', dead wood, broken branches, hanger, previous top loss, elongated branches	1		18	18	18	18			
115	608	Douglas fir	16	16	10			OK	Suppressed canopy, dead wood, broken branches, typical of species	1		10	10	10	10			
116	244	Douglas fir	16	16	16		Y	Fair	Asymmetric canopy towards south, scraping wound towards south, dead wood, broken branches, thin canopy	1		16	16	16	16			
117	300	Douglas fir	35	35	16			Poor	Free flowing sap from cracks, bulge @ 8'		1	16	16	16	16			
118	515	Douglas fir	16	16	8			Poor	Mostly dead		1	8	8	8	8			
119	525	Douglas fir	26.1	26.1	18		Y	Fair	Co-dominant canopy, asymmetric canopy towards west, dead wood, broken branches	1		18	18	18	18			
120	514	Douglas fir	32.5	32.5	18			Fair	Ivy @ root crown up to 35', dead wood, broken branches, previous top loss, elongated branches		1	18	18	18	18			
121	1	Douglas fir	18	18	18			Poor	Lean towards south, serpentine trunk, asymmetric canopy towards south		1	18	18	18	18			
122	2	Douglas fir	16	16	12		Y	Fair	Lean towards south, low live crown ratio <20%, previous top loss, elongated branches	1		12	12	12	12			
123	3	Douglas fir	28	28	16			OK	Lean towards south, self-corrected lean towards north, asymmetric canopy towards south, dead wood, broken branches, typical of species	1		16	16	16	16			
124	4	Douglas fir	18	18	18			Fair	Self-corrected lean towards north, low live crown ratio <5%		1	18	18	18	18			
125	5	Douglas fir	21	21	18		Y	Fair	Previous top loss, elongated branches, dead wood, broken branches, dead twigs, low live crown ratio <30%	1		18	18	18	18			

126	6	Douglas fir	43.7	43.7	22			OK	Previous top loss, elongated branches, asymmetric canopy towards south, nurse tree	1		22	22	22	22			
-----	---	-------------	------	------	----	--	--	----	--	---	--	----	----	----	----	--	--	--

1	2	3	4	5	6	7		8	9	10		11			
#	Tree Tag #	Species ID	DBH inches	Adj. DBH inches	Drip-line radius feet	Wind-firm	OK in Grove	Health	Defects/Comments	Proposed Action		CRZ/TPZ/LOD			
										Retain		Radius in feet			
										Viable	Non-viable	N	W	E	S
1	A	Bigleaf maple	20	20	18 over fence			OK	Co-dominant leaders with included bark x2 @ 6', moss and lichen, typical of species, exposed roots, root over property line 8'	1		18	18	18	18
2	B	Douglas fir	11	11	8			OK	Previous top loss, elongated branches, typical of species	1		8	8	8	8
3	C	Douglas fir	8	8	8			OK	Self-corrected lean, asymmetric canopy towards east, typical of species	1		8	8	8	8
4	D	Douglas fir	10	10	9			OK	Typical of species, dead top	1		9	9	9	9
5	E	Douglas fir	8	8	6			OK	Typical of species	1		6	6	6	6
6	F	Douglas fir	28	28	24		Y	Fair	Abnormal bark, shedding bark, popping bark, previous top loss, asymmetric canopy towards east, elongated branches, laminated root rot? Horizontal crack @ 10'	1		24	24	24	24
7	G	Douglas fir	8	8	10			OK	Thin canopy, suppressed canopy	1		10	10	10	10
8	H	Douglas fir	24	24	18			Poor	Previous top loss, elongated branches, dead wood, broken branches		1	18	18	18	18
9	I	Douglas fir	30	30	18			Fair	Previous top loss, elongated branches, dead wood, broken branches, asymmetric canopy towards north		1	18	18	18	18
10	J	Douglas fir	25	25	16			OK	Typical of species	1		16	16	16	16
11	K	Douglas fir	18	18	16		Y	Fair	Suppressed canopy, typical of species	1		16	16	16	16

Tree Density Calculations	
Total number of onsite trees	
Total number of Non-viable trees	
Total number of viable trees	
Total number of trees removed for site improvements	
Total number of tree credits	
Total number of viable tree creds	
Total number of required tree credits	
Total number of retained tree credits	