



SURVEYED TREE SAMPLE AREAS						
Sample Area (see below inventory tables)	QTY	*Federal Way Tree Unit Value	Canopy Acres of Sample	Estimated Number of Trees per Canopy Acre	Estimated *Tree Units per Canopy Acre	Composition (% Deciduous/%Evergreen)
1	122	208.0	1.33	91.73	156.4	(122) 100% Deciduous
2	40	52.0	0.18	222.22	288.9	(18) 60% Deciduous / (12) 40% Evergreen
COMBINED	162	260.0	1.51	107.28	172.2	(140) 86% Deciduous / (12) 14% Evergreen

SITE TREES				
(ESTIMATED) TREES SURVEY				
SITE AREA (Acres)	Site Canopy Area (from aerial photo) (Acres)	Estimated QTY Trees Based On Site Canopy Acres (4.31 acres x 107.28 trees per canopy acre)	Estimated Existing *Tree Units (4.31 canopy acres x 172.2 tree units per canopy acre)	Estimated Composition of Trees 86% Deciduous / 14% Evergreen
7.72	4.31	462	742	397 Deciduous / 65 Evergreen

* per FWRC Table 19.120.130-2; tree units were assigned to inventoried trees according to DBH size - see tables below

TREE UNITS REQUIREMENTS	
per FWRC 19.120.130(2), the required tree unit density for OP and BC land use per FWRC 19.120.130(3) the calculation for this site is as follows:	
by multiplying gross site acreage, minus any proposed public Gross Site Acreage	7.72
Public / Private Streets	1.3
Net Site Acreage	6.42
@20 tree units / acre	128.4
REQUIREMENT Rounded up	129 tree units required

TREE RETENTION	
see below Sample Area 1 for trees to be retained	
Existing trees to be retained	87.5 tree units
Required additional tree units	41.5 tree units

TREE SAMPLE AREA 1

Tree #	Species	DBH	FW Tree Unit Value	Current Health Rating	Retained
001	RA/Ar	12.0"	2.0		✓
002	RA/Ar	6.5"	1.5		✓
003	RA/Ar	15.5"	2.0		✓
004	RA/Ar	6.7"	1.5	Poor	✓
005	RA/Ar	6.3"	1.5	Poor	✓
006	RA/Ar	10.7"	1.5		✓
007	RA/Ar	7.1"	1.5	Good	✓
008	RA/Ar	6.2"	1.5	Poor	✓
009	RA/Ar	8.6"	1.5		✓
010	BCw/PT	12.7"	2.0		✓
011	RA/Ar	6.2"	1.5		✓
012	RA/Ar	6.9"	1.5	Poor	✓
013	BCw/PT	6.2"	1.5		✓
014	RA/Ar	6.5"	1.5		✓
015	RA/Ar	7.4"	1.5		✓
016	RA/Ar	8.7"	1.5		✓
017	RA/Ar	6.1"	1.5		✓
018	RA/Ar	10.8", 8.9", 6.0", & 7.8"	3.0		✓
019	RA/Ar	7.2"	1.5		✓
020	RA/Ar	10.4"	1.5		✓
021	RA/Ar	8.4"	1.5		✓
022	BCw/PT	13.8"	2.0	Good	✓
023	BCw/PT	7.5" & 8.8"	2.0		✓
024	RA/Ar	7.8"	1.5		✓
025	RA/Ar	7.1"	1.5		✓
026	RA/Ar	7.3"	1.5		✓
027	RA/Ar	12.9", 9.2", & 9.4"	3.0		✓
028	BCw/PT	12.4"	2.0		✓
029	BCw/PT	6.1"	1.5		✓
030	BCw/PT	6.9"	1.5		✓
031	BCw/PT	6.2"	1.5		✓
032	BCw/PT	11.5" & 6.5"	2.5		✓
033	BCw/PT	6.8"	1.5		✓
034	BCw/PT	9.6"	1.5		✓
035	BCw/PT	9.4"	1.5		✓
036	BCw/PT	7.2"	1.5	Good (divided top)	✓
037	RA/Ar	7.7"	1.5		✓
038	RA/Ar	6.3"	1.5		✓
039	RA/Ar	8.5"	1.5		✓
040	BCw/PT	12.5"	2.0		✓
041	RA/Ar	6.1"	1.5		✓
042	RA/Ar	11.2"	1.5		✓
043	RA/Ar	8.8"	1.5		✓
044	RA/Ar	6.9"	1.5		✓
045	RA/Ar	6.1"	1.5	Poor	✓
046	BCw/PT	6.7"	1.5	Poor	✓
047	RA/Ar	6.8"	1.5		✓
048	BCw/PT	7.7"	1.5		✓
049	BCw/PT	12.2"	2.0		✓
050	RA/Ar	7.8"	1.5		✓
051	RA/Ar	10.4"	1.5	Poor/Dying	✓
052	BCw/PT	20.0" & 9.5"	3.0		✓
053	BCw/PT	20.5"	2.5		NO
054	RA/Ar	7.3"	1.5		NO
055	BCw/PT	8.9"	1.5		NO
056	BCw/PT	12.3"	2.0		NO
057	BCw/PT	8.9"	1.5		NO
058	RA/Ar	7.8"	1.5		NO
059	BCw/PT	6.2"	1.5		NO
060	BCw/PT	6.9"	1.5		NO
061	BCw/PT	7.2"	1.5	Poor	NO
062	RA/Ar	6.9"	1.5		NO
063	RA/Ar	7.9"	1.5	Poor (damaged)	NO
064	RA/Ar	7.9"	1.5		NO

Tree #	Species	DBH	FW Tree Unit Value	Current Health Rating	Retained
065	RA/Ar	7.0"	1.5	Poor	NO
066	BCw/PT	7.2"	1.5	Good	NO
067	BCw/PT	8.8"	1.5	Good	NO
068	RA/Ar	6.6"	1.5		NO
069	RA/Ar	7.0"	1.5		NO
070	RA/Ar	8.1", 7.2", 6.9", & 6.4"	3.0		NO
071	RA/Ar	7.1"	1.5		NO
072	BCw/PT	8.2"	1.5		NO
073	BCw/PT	7.1"	1.5		NO
074	BCw/PT	8.2"	1.5		NO
075	BCw/PT	8.1"	1.5		NO
076	BCw/PT	9.9"	1.5		NO
077	BCw/PT	8.8"	1.5		NO
078	BCw/PT	8.3"	1.5		NO
079	BCw/PT	14.4" & 13.6"	3.0		NO
080	RA/Ar	10.2"	1.5		NO
081	BCw/PT	7.5"	1.5		NO
082	RA/Ar	7.3" & 5.2"	2.0		NO
083	RA/Ar	7.8"	1.5		NO
084	RA/Ar	6.5"	1.5		NO
085	RA/Ar	6.0"	1.5		NO
086	RA/Ar	6.0"	1.5		NO
087	RA/Ar	6.1"	1.5		NO
088	BCw/PT	8.2" & 7.6"	2.0	Good (Axe damage)	NO
089	BCw/PT	7.5"	1.5		NO
090	RA/Ar	9.0"	1.5	Poor	NO
091	RA/Ar	7.5", 6.2", 3.0", & 6.5"	2.5	Dying (Axe damage)	NO
092	RA/Ar	6.7"	1.5		NO
093	BCw/PT	7.3"	1.5		NO
094	BCw/PT	7.3"	1.5	Poor	NO
095	BCw/PT	7.3"	1.5	Poor	NO
096	BCw/PT	10.3"	1.5		NO
097	BCw/PT	7.1"	1.5		NO
098	RA/Ar	6.7", 6.7", 6.0", & 5.7"	3.0		NO
099	RA/Ar	6.7"	1.5		NO
100	RA/Ar	10.5"	1.5		NO
101	RA/Ar	7.0"	1.5		NO
102	RA/Ar	7.5", 4.9", 5.3", 4.5", & 4.0"	3.0	Poor	NO
103	RA/Ar	7.0" & 5.2"	2.0		NO
104	BCw/PT	7.7"	1.5		NO
105	M/Am	6.2"	1.5		NO
106	BCw/PT	8.4"	1.5		NO
107	BCw/PT	12.4", 10.7", & 13.4"	3.0		NO
108	BCw/PT	11.5"	1.5		NO
109	RA/Ar	9.7" & 5.2"	2.0		NO
110	BCw/PT	23.0"	2.5		NO
111	BCw/PT	8.4"	1.5		NO
112	BCw/PT	10.2"	1.5		NO
113	RA/Ar	11.1"	1.5		NO
114	RA/Ar	13.2"	2.0		NO
115	BCw/PT	8.0", 10.1", & 3.1"	2.5		NO
116	BCw/PT	7.3"	1.5		NO
117	BCw/PT	8.4" & 7.3"	2.0		NO
118	BCw/PT	9.4"	1.5	Poor	NO
119	BCw/PT	8.5"	1.5		NO
120	BCw/PT	9.2"	1.5	Poor	NO
121	RA/Ar	12.3"	2.0		NO
122	RA/Ar	7.5"	1.5	Poor	NO
123	BCw/PT	11.5"	1.5	Poor	NO

TOTAL TREE UNITS 208.0
TOTAL TREE UNITS RETAINED 87.5

TREE SAMPLE AREA 2

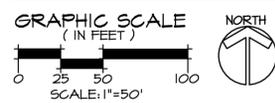
Tree #	Species	DBH	FW Tree Unit Value	Current Health Rating	Retained
001	PM	15.61	2.0	Good	No
002	PM	10.83	1.5	Good	No
003	PM	15.29	2.0	Good	No
004	PM	14.01	2.0	Good	No
005	PM	8.60	1.5	Good	No
006	PM	13.06	2.0	Good	No
007	PM	12.74	2.0	Good	No
008	PM	16.24	2.0	Good	No
009	PM	11.46	1.5	Good	No
010	PM	27.07	3.0	Excellent	No
011	PM	27.71	3.0	Excellent	No
012	AU	8.60	1.5	Good	No
013	AM	10.19	1.5	Good	No
014	AM	10.51	1.5	Good	No
015	RA/AR	7.96	1.5	Good	No
016	RA/AR	10.51	1.5	Good	No
017	PE	5.73	1.5	Good	No
018	PE	7.64	1.5	Good	No
019	PE	6.69	1.5	Good	No
020	PE	8.60	1.5	Good	No
021	BCw/PT	6.37	1.5	Good	No
1425	BCw/PT	7.96	1.5	Good	No
1426	BCw/PT	14.33	2.0	Good	No
1427	BCw/PT	11.78	1.5	Good	No
1428	BCw/PT	13.38	2.0	Good	No
1429	BCw/PT	8.92	1.5	Good	No
1430	BCw/PT	10.83	1.5	Good	No
1431	BCw/PT	6.37	1.5	Good	No
1432	BCw/PT	9.87	1.5	Good	No
1469	BCw/PT	10.19	1.5	Good	No

TOTAL TREE UNITS 52.0
NO TREE UNITS RETAINED 0

SPECIES LEGEND

Species:	RA/AR	Red Alder, <i>Alnus rubra</i>
	BCw/PT	Black Cottonwood, <i>Populus trichocarpa</i>
	PM	Douglas Fir, <i>Pseudotsuga menziesii</i>
	PE	Bitter Cherry, <i>Prunus emarginata</i>
	AU	Strawberry Tree, <i>Arbutus unedo</i>
	M/AM	Pacific Madrone, <i>Arbutus menziesii</i>

TREE RETENTION PLAN



PLAN LEGEND

	EXISTING TREE CANOPY ON-SITE, TO REMAIN	23,035 SF	0.53 AC
	EXISTING TREE CANOPY ON-SITE, TO BE REMOVED	131,985 SF	3.02 AC
	SURVEY TREE LOCATION [CONIFER/DECIDUOUS]		
	TREE SURVEY AREAS		
	PUBLIC / PRIVATE STREETS	50,673 SF	1.16 AC



NOTES

- SURVEY PROVIDED BY AXIS SURVEY AND MAPPING, 15241 NE 90TH STREET, REDMOND, WA 98052, (425) 823-5100.
- SITE PLAN PROVIDED BY THE BLUELINE GROUP, 25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033, (425) 216-4051.
- SOURCE DRAWING WAS MODIFIED BY TALASAEA CONSULTANTS FOR VISUAL ENHANCEMENT.



NOT FOR CONSTRUCTION

THESE PLANS HAVE BEEN SUBMITTED TO THE APPROPRIATE AGENCIES FOR REVIEW AND APPROVAL. UNTIL APPROVED, THESE PLANS ARE: **SUBJECT TO REVISION**

LANDSCAPE PLAN
TREE RETENTION PLAN
LANDMARK APARTMENTS AT FEDERAL WAY
FEDERAL WAY, WASHINGTON

Revisions	Date	By

Date	2-21-2020
Scale	AS NOTED
Designed	EP/MN
Drawn	EP/MN
Checked	AO
Approved	BS

Project #1196

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