

TREE PROTECT PLAN

for

VLMK ENGINEERING + DESIGN for the

124TH AVE BUSINESS PARK PROJECT SW TUALATIN ROAD, TUALATIN, OR 97062

Submitted by

Peter van Oss PN-8145A

Date Friday, April 21, 2023

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Summary

Teragan and Associates, Inc.TM has been contracted with VLMK Engineering + Design to provide arboricultural consulting services. This report is the tree plan for the development of the proposed business park. The report includes the narrative for the proposed removals and the protection mitigation recommendations that should be adopted during the construction project. The provisions in this report are collaborated to meet and exceed the ordinances set forth by the City of Tualatin, OR.

Background

The plans show the proposed development of the lots adjacent to Tualatin Island Greens (east) south of SW Myslony Street and north of SW Cimino Street. The site is currently vacant property that represents a natural appearance. Most of the east side of the property is designated as a Natural Resource Protected (NRPO) area and the plans show that a small portion of the proposed development is located within the area. This report provides the narrative for the proposed tree removals and the recommended protection mitigation for the retained trees.

Tree Inventory

Our firm completed the inventory in June 2021, and I verified the current conditions onsite during a site visit conducted on April, 20, 2023. The tree diameters were recorded using a diameter tape. The health and conditions of the trees are determined by the plant species profiles compared to the current condition the trees present. Attributes that can negatively impact the ratings are growing conditions, bark inclusions, broken branches, poor vigor...etc. All trees are tagged with aluminum tags that have the corresponding numbers scribed on them except for trees that were not accessible due to accessibility restrictions.

Purpose and Use of the Report

The purpose of this report is to establish a narrative for the removal of the trees and tree protection measures that will need to be adhered to during the construction project to ensure a positive outcome of the retention efforts. This report may be used by the owner to establish communications between the city planning department, the contractors, and sub-contractors regarding the tree protection efforts of the project.

Limits of the Report

The trees were visually assessed from the ground only, no tools were used to assess any of the tree parts. The site improvements were not staked out at the time of the inventory and the impacts from the construction were established by visualizing the provided plans to key landmarks.

Tree Plan VLMK Engineering | 124th Ave B.P.

Observations

The property has a significant topographical change between the road (SW 124th Ave) to where the NRPO area is located. Significant impacts from grading are anticipated and most of the trees are in the direct footprint of the development. There is a small portion of the NRPO that is located within the proposed footprint of the development, there are no trees located within that portion of the NRPO, however. Southwest 12th Ave has an improved right-of-way and there are street trees planted between the road and the sidewalk. The street trees are to be retained and considered protected during the construction process.

Proposed Removals

The attached site plans in this report (Appendix C) show the proposed site improvements which were added as an overlay to the existing conditions plans. The west side of the property has a significant topography change with an easterly aspect. The west side of the property is treed and given the terrain, most of the trees within the proposed development area will need to be removed. The trees within the proposed development area (orange hatched area on the plans) are proposed to be removed and the inventory in Appendix D shows detailed information regarding the individual trees.

Site Specific Tree Protection

There are 17 trees proposed to be retained not including the street trees. The trees in the northeast corner of the property are not anticipated to be negatively impacted by construction activities and the trees are outside of the development impact area. The trees to the south of the development are in proximity to the disturbance area and care must be taken to minimize impacts to the trees.

It is recommended that retained trees are protected at a distance of 12X the diameter of the trees. This means that ground disturbance should not occur within the root protection zones without the presence of the project arborist. It is typically accepted that 25% of the root structure can be disturbed without significantly impacting the trees, however this may decrease depending on the tree species and health and condition of the trees. The project arborist may require that alternative construction methods are used to increase the likelihood of retention possibility if large roots are encountered. Bridging or gapping the roots are examples viable alternative construction mitigation.

Diameter of tree at 4.5' above grade is 12 inches closer than one half of the required root protection zone radius Root protection zone is a 12 foot (24' diameter) in the root protect

Given the significant topographical differences it is anticipated that grading and retaining wall placement may be needed

within the tree protection zones. If the impacts are observed to be too significant and viable alternative construction is not possible, the project arborist may advise removing additional trees.

The attached existing conditions plan provided has been marked up to scale. The blue circles indicate the tree protection zone at 12X the diameter and the orange circles indicate the tree protection zones at 6X the diameter.

Additional Tree Protection Mitigation in Appendix E

Conclusion

It is my professional opinion that the tree protection measures set forth in this tree plan will suffice in the protection of the trees during construction. It is important to adhere to the standards in this report to ensure that the retention goals are successful.

Please feel free to contact me with any questions or concerns.

Sincerely,

Peter van Oss

Peter van Oss | Senior Associate ISA Certified Arborist PN-8145A Tree Risk Assessment Qualified ASCA Member

Enclosures:

Appendix A:	Certification of Performance
Appendix B:	Assumptions and Limiting Conditions
Appendix C:	Site Plan Fencing Placement and Proposed Removals
Appendix D:	Inventory
Appendix E:	Tree Protection Standards
Appendix F:	Vegetation Protection Signage
	Thursday 1 Annual

Appendix A: Certification of Performance

I, Peter van Oss, certify that:

- I have personally inspected the trees and the property referred to in this report and have stated my findings accurately. The extent of the evaluation or appraisal is stated in the attached report and the Terms of the Assignment.
- I have no current or prospective interest in the vegetation or the property that is subject of this report and have no personal interest or bias with respect to the parties involved.
- The analysis, opinions and conclusions stated herein are my own and are based on current professional procedures and facts.
- My analysis, opinions and conclusions were developed, and this report has been prepared according to commonly accepted arboricultural practices.
- No one provided significant professional assistance to me, except as indicated in the report.
- My compensation is not contingent upon reporting of a predetermined conclusion that favors the cause of the client or any other party nor upon the results of the assessment, the attainment of stipulated results, or the occurrence of any subsequent events.

I further certify that I am a member of, and certified as an arborist by the ISA. I have been involved in the arboricultural field in a full- time capacity for a period of 17 years.





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53	Cottonwood	Populus trichocarpa	23	Good	Good		Х	Two leaders split at 1' AGL: 16,16.
54	Cottonwood	Populus trichocarpa	20	Good	Fair	Х		Not tagged; heavy ivy and poison oak; broken branches.
55	Cottonwood	Populus trichocarpa	35	Good	Fair	Х		Not tagged; three large leaders: 20,20,20; heavy ivy and poison oak.
56	Cottonwood	Populus trichocarpa	13	Good	Good	Х		Not tagged; poison oak; phototropism to the NW.
57	Douglas-fir	Pseudotsuga menziesii	23	Good	Good	Х		
58	Cottonwood	Populus trichocarpa	36	Good	Good	Х		
59	Bigleafmaple	Acer macrophyllum	9	Good	Good	Х		
60	Pacific madrone	Arbutus menziesii	13	Good	Good	X		Diameter at 4': splits into 2 leaders at 6' AGL; barbed wire embedded.
61	Scouller willow	Salix scoulleriana	Avg. 12	Poor	Poor	Х		Seven leaders averaging 12" diameter: deadwood: broken branches.
62	Douglas-fir	Pseudotsuga menziesii	34	Good	Good	X		
63	Douglas-fir	Pseudotsuga menziesii	32	Fair	Fair	X		Storm damage: epicormic growth.
64	Douglas-fir	Pseudotsuga menziesii	11	Fair	Fair	X		Thin, suppressed.
65	Bigleafmaple	Acer macrophyllum	8	Good	Good	X		High crown.
66	Pacific madrone	Arbutus menziesii	14	Good	Good	X		Two leaders split at 3': 12.7.
67	Douglas-fir	Pseudotsuga menziesii	40	Good	Good	X		Inaccessible: not tagged.
68	Oregon white oak	Ouercus garrvana	8	Good	Good	x		/ 66
69	Douglas-fir	Pseudotsuga menziesii	24	Good	Good	Х		
70	Douglas-fir	Pseudotsuga menziesii	28	Good	Good	X		
71	Bigleaf maple	Acer macrophyllum	12	Fair	Fair	Х		Suppressed.
72	Bigleaf maple	Acer macrophyllum	8	Fair	Fair	X		Suppressed.
73	Bigleafmaple	Acer macrophyllum	10	Good	Good	X		
74	Bigleaf maple	Acer macrophyllum	11	Good	Good	X		
75	Bigleaf maple	Acer macrophyllum	15	Good	Good	Х		
76	Bigleaf maple	Acer macrophyllum	10	Good	Good	X		
77	Bigleaf maple	Acer macrophyllum	11	Good	Fair	X		High crown: W side suppressed.
78	Bigleaf maple	Acer macrophyllum	16	Fair	Fair	X		Suppressed: broken limbs.
79	Bigleafmaple	Acer macrophyllum	18	Good	Fair	X		Suppressed on W side.
80	Pacific madrone	Arbutus menziesii	14	Good	Fair	X		Horizontal trunk for approximately 30'; 6" pacific madroneto the E.
81	Douglas-fir	Pseudotsuga menziesii	12	Fair	Good	Х		Suppressed.
82	Douglas-fir	Pseudotsuga menziesii	18	Good	Good	Х		
83	Douglas-fir	Pseudotsuga menziesii	11	Good	Good	Х		
84	Douglas-fir	Pseudotsuga menziesii	9	Good	Fair	Х		Suppressed.
85	Douglas-fir	Pseudotsuga menziesii	16	Good	Good	Х		
86	Douglas-fir	Pseudotsuga menziesii	14	Good	Good	Х		
87	Douglas-fir	Pseudotsuga menziesii	14	Good	Good	Х		
88	Douglas-fir	Pseudotsuga menziesii	26	Good	Good	Х		
89	Douglas-fir	Pseudotsuga menziesii	60	Good	Good	Х		Two leaders fused at bottom 3': 40,45.
90	Douglas-fir	Pseudotsuga menziesii	14	Fair	Fair	Х		Suppressed, unbalanced canopy.
91	Douglas-fir	Pseudotsuga menziesii	27	Good	Good	Х		Poison oak in canopy
92	Douglas-fir	Pseudotsuga menziesii	28	Good	Good	Х		Poison oak in canopy.
93	Douglas-fir	Pseudotsuga menziesii	28	Good	Good	Х		Poison oak in canopy; directly next to 92;~50' break between 93 and 94.
94	Douglas-fir	Pseudotsuga menziesii	26	Good	Good	Х		
95	Bigleaf maple	Acer macrophyllum	23	Good	Good	Х		Three leaders: 20,12,10; one leader has deadwood and a wound on W side.
96	Douglas-fir	Pseudotsuga menziesii	14	Good	Good	Х		
97	Scouller willow	Salix scoulleriana	8	Good	Good	Х		Poison oak.
98	Douglas-fir	Pseudotsuga menziesii	32	Good	Good	Х		
99	Bigleaf maple	Acer macrophyllum	15	Good	Fair	Х		Unbalanced to the S.
100	Bigleaf maple	Acer macrophyllum	20	Good	Good	X		
101	Cottonwood	Populus trichocarpa	14	Good	Good	Х		High crown.
102	Scouller willow	Salix scoulleriana	10	Dead	Dead	X		7" willow to the E.
103	Bigleaf maple	Acer macrophyllum	17	Good	Good	Х		
104	Douglas-fir	Pseudotsuga menziesii	18	Good	Good	X		
105	Douglas-fir	Pseudotsuga menziesii	8	Good	Good	Х		Growing below canopy of 107.



106	Scouller willow	Salix scoulleriana	9	Good	Good	x		Growing 1'SE of 107
107	Douglas-fir	Pseudotsuga menziesii	30	Good	Good	X		
108	Cottonwood	Populus trichocarna	19	Good	Good	x	1	
109	Cottonwood	Populus trichocarpa	17	Good	Good	X		
110	Bigleafmanle	Acer macronhyllum	39	Good	Fair	X	1	Four leaders: 24 19 17 17
111	Bigleafmaple	Acer macrophyllum	9	Good	Good	X		Two leaders: 7 6: two 6" higher fmanles to the SE
112	Bigleafmaple	Acer macrophyllum	13	Fair	Fair	X		Three leaders: 10.8.6: 6" leader dead
112	Bigleafmaple	Acer macrophyllum	14	Good	Good	X V		Two leaders at 2' AGL: two leaders: 12, 7
113	Bigleafmaple	Acer macrophyllum	14	0000	0000	X		Two readers at 2 AOE, two readers. 12, 7.
115	Bigleafmaple	Acer macrophyllum				X V		
115	Digleafmanla	Acer macrophyllum	10	Good	Good	X		Two loadeeu 7, 7, two 7" twose to N
117	Cottonwood	Populus trichogarna	Avg 8	Good	Good	X V		Cluster of acttonwood
119	Biglesfmanle	Agar magronhyllum	12	Good	Good	X		Three leaders: 8.8.4
110	Digleafmanla	Acer macrophyllum	0	Good	Good	X V		
119	Bigleafmanla	Acer macrophyllum	0	Good	Good	A V		Nattagand maison calc
120	Scouller willow	Salin accullaniana	14	Deed	Dood	A V		Not tagged, poison oak.
121	Bigloofmanla	Acon macronhullum	Avg.4	Gead	Dead	A V		N of 101
122	Bigleafmanla	Acer macrophyllum	0	Good	Good	A V		N 01 121. Tan af maundu two loadars: 7.5
123	Digleaf manla	Acer macrophyllum	11	Good	Good		1	Three leaders: 7, 6, 6
124	Distantinaple	Acer macrophyllum	11	Good	Good	A V		The leaders. 7, 0, 0.
125	Dislasf maple	Acer macrophyllum	15	Good	Esin	A V		Fine landers, 8,7.
120	Bigleafmanla	Acer macrophyllum	0	Good	Fair	A V		rive leaders: 9,8,5,5,4; inclusion, bacterial wetwood.
127	Bigical maple	Acer macrophylium	0	Good	Good	A V		
120	Cottonwood	Populus trichocarpa	15	Good	Good	A V		
129	Cottonwood	Populus trichocarpa	0	Good	Good	A V		
130	Cottonwood	Populus trichocarpa	0	Good	Good	A V		
131	Cottonwood	Populus trichocarpa	0	Good	Good	A V		Two looders 7-4
132	Cottonwood	Populus trichocarpa	0	Good	Good	A V		Two leaders. 7, 4.
133	Sweet cherry	Drumus avium	14	Foir	Foir	X		Thin foliage missing bark concustors
125	Opeseed heavthorm	Crataagus monogyna	12	Good	Fair	X V		Multiple leaders: grossing branches
136	Oneseed hawthorn	Crataegus monogyna	10	Good	Good	X		Two leaders: 7 7: Not tagged
130	Cottonwood	Populus trichocarna	26	Good	Good	X		Three leaders: 17, 15, 12
138	Cottonwood	Populus trichocarpa	11	Good	Good	X		
130	Cottonwood	Populus trichocarpa	15	Good	Good	X		
140	Cottonwood	Populus trichocarpa	8	Good	Good	x	1	
141	Cottonwood	Populus trichocarpa	14	Good	Good	X		
142	Cottonwood	Populus trichocarpa	14	Good	Good	x	1	
143	Douglas-fir	Pseudotsuga menziesii	12	Good	Good	X		
144	Scouller willow	Salix scoulleriana	Avg 8	Good	Good	X		Twelve leaders with ave of 8" diameter
145	Pacific madrone	Arbutus menziesii	8	Good	Good	X		Two leaders: 6. 5.
146	Scouller willow	Salix scoulleriana	Avg. 7	Good	Good	Х		Seven leaders avg. 7"
147	Bigleaf maple	Acer macrophyllum	8	Good	Good	Х		
148	Oregon ash	Fraxinus latifolia	28	Fair	Fair		Х	Wound and dead leader on E side of trunk.
149	Oregon ash	Fraxinus latifolia	Avg. 9	Fair	Fair		Х	Deadwood, unbalanced to SE.
150	Cottonwood	Populus trichocarpa	49	Good	Good		Х	diameter estimated due to large lateral side leader.
151	Cottonwood	Populus trichocarpa	54	Good	Good		Х	diameter estimated, 3 leaders at 3'
152	Oregon ash	Fraxinus latifolia	8	Good	Good		Х	
153	Cottonwood	Populus trichocarpa	20	Good	Good	Х		NW of homeless camp; two leaders: 14, 14.
154	Cottonwood	Populus trichocarpa	26	Good	Good	Х		Four leaders: 17,14,11,7; near road.
155	Douglas-fir	Pseudotsuga menziesii	8	Fair	Fair	Х		
156	Pacific madrone	Arbutus menziesii	8	Fair	Fair	Х		Diameter at 2' agl, close to DF
157	Pacific madrone	Arbutus menziesii	10	Fair	Fair	Х		Estimated diameter, poor access.
158	Pacific madrone	Arbutus menziesii	8	Fair	Fair	Х		Estimated diameter, poor access.



159	Pacific madrone	Arbutus menziesii	8	Fair	Fair	Х		Estimated diameter, poor access.
160	Pacific madrone	Arbutus menziesii	8	Fair	Fair	Х		Estimated diameter, poor access.
161	Pacific madrone	Arbutus menziesii	8	Fair	Fair	Х		Estimated diameter, poor access.
162	Pacific madrone	Arbutus menziesii	8	Fair	Fair	Х		Estimated diameter, poor access.
163	Pacific madrone	Arbutus menziesii	8	Fair	Fair	Х		Estimated diameter, poor access.
164	Pacific madrone	Arbutus menziesii	12	Fair	Fair	Х		Estimated diameter, poor access.
165	Pacific madrone	Arbutus menziesii	12	Fair	Fair	Х		Estimated diameter, poor access.
166	Pacific madrone	Arbutus menziesii	8	Fair	Fair	Х		Estimated diameter, poor access.
167	Pacific madrone	Arbutus menziesii	10				Х	Estimated diameter, poor access.
168	Red alder	Alnus rubra	9	Good	Good		Х	Wound on E side of tree, 10' long, 6" wide, good wound wood response.
169	Red alder	Alnus rubra	9	Good	Good		Х	Street tree diameter at 4'.
171	Northern red oak	Quercus rubra	9	Good	Good		Х	Street tree; west of black fence
172	Northern red oak	Quercus rubra	10	Good	Good		Х	Northern red oaks : 6,6,4,7,6,4,9.
173	Douglas-fir	Pseudotsuga menziesii	36	Good	Good		Х	
174	Douglas-fir	Pseudotsuga menziesii	18	Good	Good		Х	
175	Oregon ash	Fraxinus latifolia	22	Good	Good		Х	
176	Oregon ash	Fraxinus latifolia	16	Poor	Very Poor	X		Large portion of dieback in the crown
177	Oregon ash	Fraxinus latifolia	18	Very Poor	Very Poor	X		Large failed crown
						159	17	

Appendix E: Tree Protection Specifications

It is critical that the following steps be taken to ensure that they are retained and protected.

Before Construction Begins

- 1. Notify all contractors of the tree protection procedures. For successful tree protection on a construction site, all contractors must know and understand the goals of tree protection. It can only take one mistake with a misplaced trench or other action to destroy the future of a tree.
 - 1.1. Hold a Tree Protection meeting with all contractors to fully explain the goals of tree protection.
 - 1.2. Have all subcontractors sign memoranda of understanding regarding the goals of tree protection. Memoranda to include penalty for violating tree protection plan. Penalty to equal appraised value of tree(s) within the violated tree protection zone per the current Trunk Formula Method as outlined by the Council of Tree & Landscape Appraisers current edition of the *Guide for Plant Appraisal*.

2. Fencing.

- 2.1. Establish fencing around each tree or grove of trees to be retained as shown on the tree protection site plan.
- 2.2. The fencing is to be put in place before the ground is cleared to protect the trees and the soil around the trees from any disturbance at all. The exception is if trees are to be removed that are located within the tree protection zones, they should be removed prior to installing the tree protection fencing without the use of mechanized wheeled or tracked equipment.
- 2.3. Fencing is to be placed at the edge of the root protection zone as shown on the Tree Protection Plan (Appendix C). Root protection zones are established by the project arborist based on the needs of the site and the tree to be protected.
- 2.4. "Protection fencing consisting of a minimum 4-foot-high metal fencing, secured with metal posts shall be established at the edge of the root protection zone and permissible encroachment area on the development site. Existing structures and/or existing secured fencing at least 3.5 feet tall can serve as the required protective fencing." If construction fencing is used it is recommended that the panels are secured to prevent movement of the fencing during construction.
- 2.5. Fencing is to remain in the position that is established by the project arborist and not to be moved without written permission from the project arborist until the end of the project after the final inspection has been completed.

3. Signage

- 3.1. All tree protection fencing should have signage clearly indicating that the area is a vegetation protection zone (Appendix F).
- 3.2. Signage should be placed so as to be visible from all sides of a tree protection area and spaced every 35 feet.

During Construction

4. Protection guidelines within the Root Protection Zone

- 4.1. No traffic shall be allowed within the root protection zone. No vehicle, heavy equipment, or even repeated foot traffic.
- 4.2. No storage of materials including but not limited to soil, construction material, or waste from the site.
- 4.3. Waste includes but is not limited to concrete wash out, gasoline, diesel, paint, cleaner, thinners, etc.
- 4.4. Construction trailers are not to be parked / placed within the root protection zone without written clearance from the project arborist.
- 4.5. No vehicles shall be allowed to park within the root protection areas.
- 4.6. No activity shall be allowed that will cause soil compaction within the root protection zone.
- 4.7. The use of straw waddles is strongly recommended instead of silt fencing to avoid the need for trenching within the root protection zones.

5. Landscaping

- 5.1. Landscaping within the tree protection zones at a distance of 12X the diameter of the tree may commence after approval from the project arborist.
- 5.2. Inground irrigation systems must be avoided, and it is recommended that only above ground irrigation systems are used. Temporary systems and/or drip irrigation are preferred.
- 5.3. Any hardscapes within the tree protection zones shall be approved by the project arborist prior to soil disturbance taking place.
- 5.4. Landscape vegetation can be installed inside of the tree protection zones by pocket planting only. It is not recommended that soils are amended unless laboratory testing indicates that soil amelioration is needed.
- 5.5. No more than 4" of fill is allowed within the tree protection zone measured at a distance of 12X the diameter in circumference of the trees. No more than 25% of the tree protection zone may be impacted without the consent of the project arborist.
- 5.6. It is highly recommended that nutrient rich mulch or arborist woodchips are used in the planter areas. The material may be enriched with nitrogen to enhance the nutrient uptake by the soils.
- 6. **Tree protection.** Retained trees shall be protected from any cutting, skinning, or breaking of branches, trunks, or roots.
- 7. **Root pruning.** The roots that are to be cut from existing trees that are to be retained, the project consulting arborist shall be notified to evaluate, document, and oversee the proper cutting of roots with sharp cutting tools. Cut roots are to be immediately covered with soil or mulch to prevent them from drying out.
- 8. Grade changes. No grade change should be allowed within the root protection zone.
- 9. **Root protection zone changes.** Any necessary deviation of the root protection zone shall be cleared by the project consulting arborist in writing.
- 10. Watering. Provide water to trees during the summer months as needed. Tree(s) that will have had root system(s) cut back will need supplemental water to overcome the loss of ability to absorb necessary moisture during the summer months.
- 11. Utilities. Any necessary passage of utilities through the root protection zone shall be by means of tunneling under roots by hand digging or boring.
- 12. **Re-inspection of fencing.** Tree protection fencing is subject to inspection by the city. The project arborist highly recommends monthly inspections of tree protection fencing to ensure compliance with the permit and protection of the trees.

After Construction

- 13. Fences are to remain standing until the final inspection has been completed by the city for the project.
- 14. Provide for or ensure that adequate drainage will occur around the retained trees.
- 15. Pruning of the existing trees should be completed as one of the last steps of the landscaping process before the final placement of trees, shrubs, ground covers, mulch, or turf.
- 16. Trees that are retained may need to be fertilized as called for by the project arborist if acceptable thresholds are exceeded. Lab analysis may be required.
- 17. The existing trees should be monitored for decline for a period of three years post construction. Proper care should be prescribed if the trees start to show signs of stress.

If there are any questions or concerns regarding the proper protection of the trees during the construction process, contact the project arborist.

VEGETATION/TREE PROTECTION ZONE

DO NOT REMOVE OR ADJUST THIS FENCING. THE FENCE LOCATIONS ARE APPROVED TO PROTECT VEGETATION AND TREES.

Please contact the Code Enforcement Specialist and project arborist, if alterations to the approved location of the protection fencing are needed.



Project Arborist: TERAGAN & ASSOCIATES, INC 503-697-1975