

City of Rockwall

Planning & Zoning Department
 385 S. Goliad Street
 Rockwall, Texas 75032
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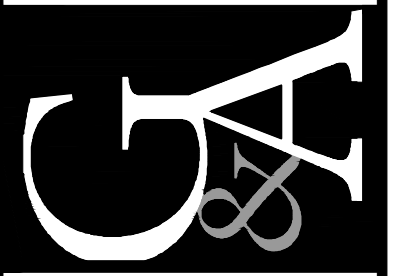
TREE CHART

TREE #	CALIPER (")	COMMON NAME	BOTANICAL NAME	PROTECTED	REMOVED	MITIGATION
101	4.5	HICKORY	<i>Carya texana</i>	Yes	No	
102	14	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	14
103	5.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	5.5
104	4.5	HICKORY	<i>Carya texana</i>	Yes	Yes	4.5
105	5.5	HICKORY	<i>Carya texana</i>	Yes	Yes	5.5
106	5.5	HICKORY	<i>Carya texana</i>	Yes	Yes	5.5
107	4	HICKORY	<i>Carya texana</i>	Yes	Yes	4
108	12.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	12.5
109	6.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	6.5
110	13	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	13
111	8.5	HICKORY	<i>Carya texana</i>	Yes	Yes	8.5
112	7.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	7.5
113	12.5	HACKBERRY	<i>Celtis occidentalis</i>	Yes	No	
114	12.5	HICKORY	<i>Carya texana</i>	Yes	Yes	12.5
115	21	HICKORY	<i>Carya texana</i>	Yes	Yes	21
116	20	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	20
117	5.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	5.5
118	8.5	PECAN	<i>Carya illinoensis</i>	Yes	Yes	8.5
119	8	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	8
120	8.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	No	
121	8.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	No	
122	5	HICKORY	<i>Carya texana</i>	Yes	No	
123	5	HICKORY	<i>Carya texana</i>	Yes	Yes	5
124	10	HICKORY	<i>Carya texana</i>	Yes	Yes	10
125	6.5	HICKORY	<i>Carya texana</i>	Yes	No	
126	8.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	No	
127	4	HICKORY	<i>Carya texana</i>	Yes	No	
128	7	HICKORY	<i>Carya texana</i>	Yes	No	
129	6	HICKORY	<i>Carya texana</i>	Yes	No	
130	5	HICKORY	<i>Carya texana</i>	Yes	No	
131	7	HICKORY	<i>Carya texana</i>	Yes	Yes	7
132	6	PECAN	<i>Carya illinoensis</i>	Yes	Yes	6
133	6	PECAN	<i>Carya illinoensis</i>	Yes	Yes	6
134	6	PECAN	<i>Carya illinoensis</i>	Yes	Yes	6
135	6	PECAN	<i>Carya illinoensis</i>	Yes	Yes	6
136	8	HICKORY	<i>Carya texana</i>	Yes	No	
137	7	HICKORY	<i>Carya texana</i>	Yes	Yes	7
138	7	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	7
139	5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	5
140	9	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	9
801	36	PECAN	<i>Carya illinoensis</i>	Yes	Yes	72
803	25	PECAN	<i>Carya illinoensis</i>	Yes	Yes	50
804	7	PECAN	<i>Carya illinoensis</i>	Yes	No	
805	6.5	PECAN	<i>Carya illinoensis</i>	Yes	Yes	6.5
806	38	PECAN	<i>Carya illinoensis</i>	Yes	Yes	76
807	11	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	5.5
816	18	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	9
817	14	RED CEDAR	<i>Juniperus virginiana</i>	Yes	Yes	7
818	18	RED CEDAR	<i>Juniperus virginiana</i>	Yes	Yes	9

TREE #	CALIPER (")	COMMON NAME	BOTANICAL NAME	PROTECTED	REMOVED	MITIGATION
819	12	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	6
820	17	RED CEDAR	<i>Juniperus virginiana</i>	Yes	Yes	8.5
821	11	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	5.5
822	13, 13	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	6.5
823	9	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	9
824	11.5	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	5.75
825	11	CATALPA	<i>Catalpa bignonioides</i>	Yes	Yes	11
826	6	SILVER MAPLE	<i>Acer saccharinum</i>	Yes	Yes	6
827	5	SILVER MAPLE	<i>Acer saccharinum</i>	Yes	Yes	5
828	4.5	BUR OAK	<i>Quercus macrocarpa</i>	Yes	Yes	4.5
829	8	PECAN	<i>Carya illinoensis</i>	Yes	Yes	8
830	4	PECAN	<i>Carya illinoensis</i>	Yes	Yes	4
831	5.5	PECAN	<i>Carya illinoensis</i>	Yes	Yes	5.5
832	6	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	6
833	7.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	7.5
834	18	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	No	
835	11	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	No	
836	9.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	9.5
837	9.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	9.5
838	17	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	17
839	7	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	7
840	12	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	12
841	7	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	7
842	10	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	10
845	7	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	7
844	4	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	4
843	5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	5
846	12.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	12.5
847	9	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	9
848	9	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	9
849	9.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	9.5
850	11	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	11
851	9	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	9
852	11	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	11
853	8	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	8
854	8	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	8
855	4.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	4.5
856	4	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	4
857	14	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	14
858	4	HICKORY	<i>Carya texana</i>	Yes	Yes	4
859	10	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	10
860	10	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	10
861	11	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	11
862	10	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	10
864	16.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	16.5
865	8.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	8.5
866	4	HICKORY	<i>Carya texana</i>	Yes	No	
867	21	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	No	
868	12	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	No	
869	6	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	No	

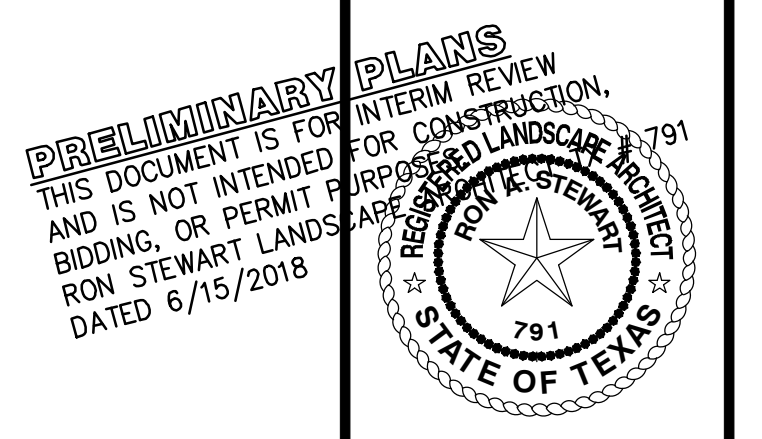
TREE #	CALIPER (")	COMMON NAME	BOTANICAL NAME	PROTECTED	REMOVED	MITIGATION
870	11.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	No	
871	9.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	9.5
872	10.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	No	
873	9.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	9.5
874	14	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	No	
876	19.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	19.5
877	11	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	11
878	9.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	9.5
879	15	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	15
880	10	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	10
881	6	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	6
882	8	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	8
883	15	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	15
884	7	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	7
885	6	HICKORY	<i>Carya texana</i>	Yes	No	
886	6	HICKORY	<i>Carya texana</i>	Yes	No	
887	6	HICKORY	<i>Carya texana</i>	Yes	No	
888	6	HICKORY	<i>Carya texana</i>	Yes	No	
889	5	HICKORY	<i>Carya texana</i>	Yes	No	
890	6	HICKORY	<i>Carya texana</i>	Yes	No	
891	4.5	HICKORY	<i>Carya texana</i>	Yes	No	
892	9	HICKORY	<i>Carya texana</i>	Yes	Yes	9
893	7.5	HICKORY	<i>Carya texana</i>	Yes	Yes	7.5
894	6	HICKORY	<i>Carya texana</i>	Yes	Yes	6
896	8	HICKORY	<i>Carya texana</i>	Yes	Yes	8
897	5.5	HICKORY	<i>Carya texana</i>	Yes	Yes	5.5
898	7.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	No	
899	5.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	No	
900	6.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	No	
979	11	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	5.5
980	12	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	6
981	13	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	6.5
982	11.5	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	5.75
983	11	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	5.5
984	20.5	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	10.25
985	17	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	8.5
986	24	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	12
987	15	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	7.5
988	17	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	8.5
989	11	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	5.5
990	15.5	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	7.75
991	13	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	6.5
992	10	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	10
993	6	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	6
994	13	AMERICAN ELM	<i>Ulmus americana</i>	Yes	Yes	13
995	30	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	15
996	13.5	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	6.75
997	12.5	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	6.25
998	11.5	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	5.75
999	12.5	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	6.25
1000	15	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	7.5
				MITIGATION INCHES:		1166
				MITIGATION PROVIDED:		627

SITE PLANNING CIVIL ENGINEERING PLANNING
CONSULTANTS, LLC
 LAND SURVEYING LANDSCAPE ARCHITECTURE
 111 Hillside Drive - Lewisville, TX 75057
 P: 972.436.9712 • F: 972.436.9715
 144 Old Town Blvd. North, Ste 2 - Argyle, TX 76226
 P: 940.240.1012 • F: 940.240.1028
 TBPES Firm No. 1798 TBPES Firm No. 10047700



LADERA ROCKWALL
 LADERA ROCKWALL
 Lot 1, Block A
 28.011 Acres
 in the
 M. JONES SURVEY, ABSTRACT NO. 122
 CITY OF ROCKWALL
 ROCKWALL COUNTY, TEXAS

TREE CHART - CENTRAL



Drawn By: VC
 Date: 02/23/2018
 Scale: #####
 Revisions:
 04/23/2018

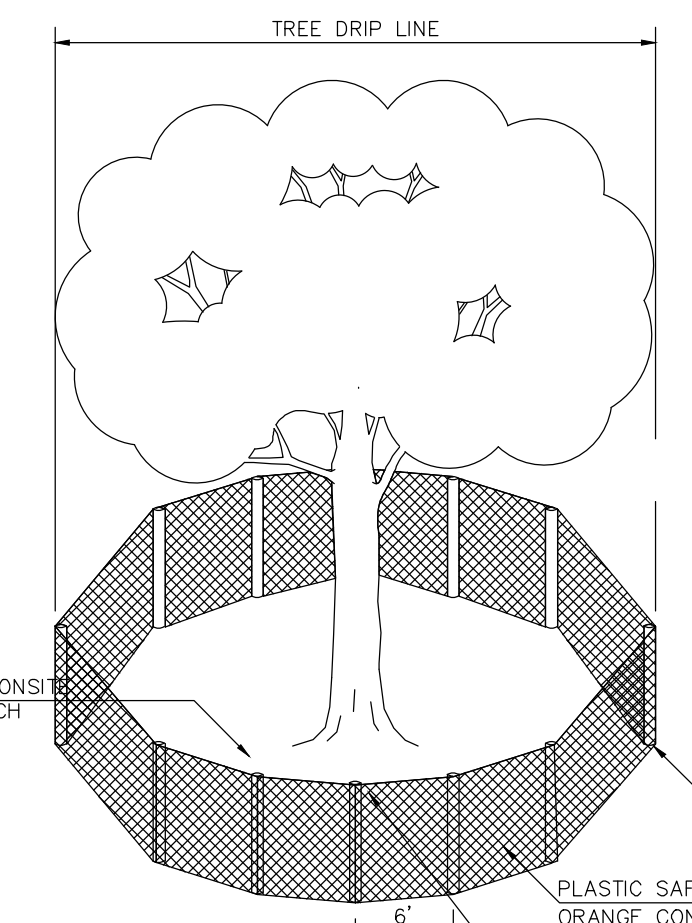
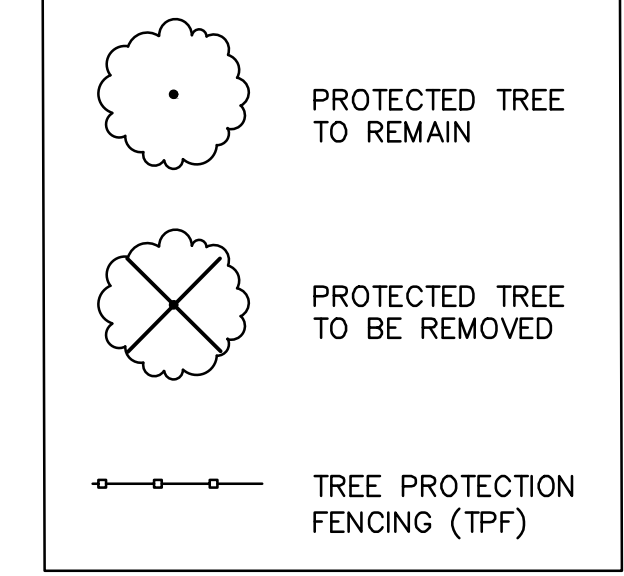
OWNER/DEVELOPER
 RW LADERA, LLC
 361 W. BYRON NELSON BLVD. STE 104
 ROANOKE, TX 76262
 Ph. 817.430.3318
 Contact: John Dellin

17191
 T1.1

File: 3/14/2018 10:00 AM (C:\Users\jw\Documents\17191 - 17191.dwg) Plot Date: 6/15/2018 3:17 PM by: jw



LEGEND



NOTE:
TREE PROTECTION FENCE MUST BE INSTALLED BEFORE ANY GRADING OR CONSTRUCTION BEGINS.
LANDSCAPE ARCHITECT MUST BE PRESENT WHEN ANY WORK IS DONE WITHIN THE TREE PROTECTION FENCE.

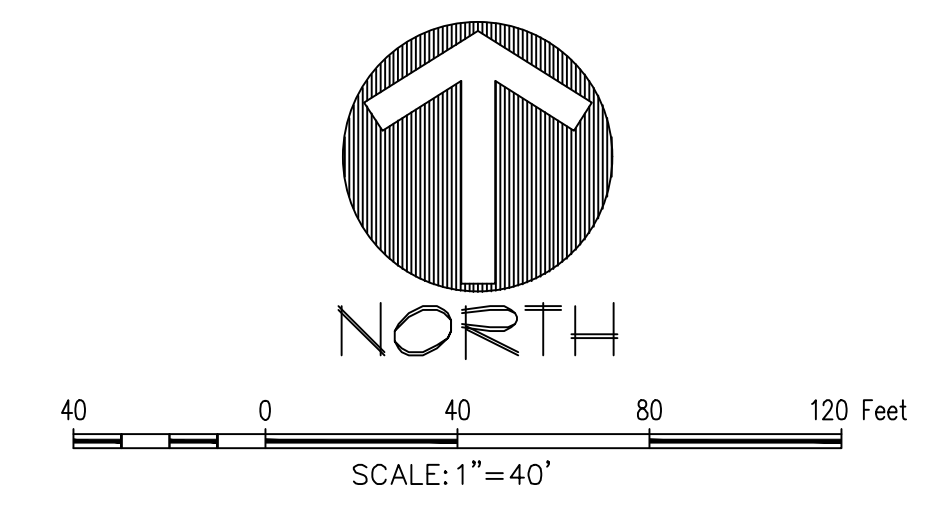
TREE PROTECTION

TREE CHART

TREE #	CALIPER (")	COMMON NAME	BOTANICAL NAME	PROTECTED	REMOVED	MITIGATION
811	15	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	7.5
812	18.5	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	9.25
809	14	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	7
808	13	HACKBERRY	<i>Celtis occidentalis</i>	Yes	Yes	6.5
810	5.5	TEXAS ASH	<i>Fraxinus texensis</i>	Yes	Yes	5.5
813	5.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	5.5
815	4	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	4
814	8.5	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	Yes	8.5
MITIGATION INCHES:						53.75

TREE PRUNING, REMOVAL AND PROTECTION MEASURES

- A. QUALITY ASSURANCE
 - 1) Comply with applicable Federal, state, county and local regulations governing landscape work.
 - 2) employ only experienced personnel. Provide adequate supervision by qualified foreman.
- B. JOB CONDITIONS
 - 1) Coordination: Coordinate and cooperate with other contractors to enable the work to proceed as rapidly and efficiently as possible.
 - 2) In order to minimize conflict, secure from the Construction Manager copies of layout drawings showing the location of all underground utility lines and other structures.
- C. PRODUCTS
 - 1) MULCH: Double shredded hardwood mulch free of sticks, dirt and other debris and derived from the site clearing.
- D. DEFINITIONS
 - 1) CRZ: Critical Root Zone: The area of undisturbed natural soil around a tree defined by a concentric circle with a radius in feet equal to the number of inches of trunk diameter.
 - 2) TPF: Tree Protection Fence: The orange safety barrier netting that shall extend around the entire circumference of the tree at the CRZ or as shown on approved plans.
- E. PRE-CONSTRUCTION TREE PRUNING
 - 1) Personnel Qualifications: All pruning shall be performed under the supervision of an International Society of Arboriculture (ISA) Certified Arborist.
 - 2) All trees within the project area shall be pruned to:
 - (i) Clear the crown of diseased, crossing, weak and dead wood to a minimum of 1 1/2 inches in diameter.
 - (ii) Provide 14 feet of vertical clearance over streets and 8 feet over sidewalks.
 - (iii) Remove stubs, cutting outside the woundwood tissue that has formed around the branch.
 - (iv) Reduce end weight on heavy, horizontal branches by selectively removing small diameter branches, no greater than 2 to 3 inches, near the ends of the scaffolds.
 - 3) Pruning cuts shall be made in accordance with ANSI 300 Pruning Standard and work shall be performed in accordance with ANSI Z133.1 Safety Standards. Pruning shall be in accordance with ISA's Best Management Practices: Tree Pruning
 - 4) No more than 20 percent of live foliage shall be removed from any tree.
 - 5) Brush shall be chipped and chips shall be spread underneath trees within the tree protection zone to a maximum depth of 4 inches, leaving the trunk clear of mulch.
- F. TREE REMOVAL
 - 1) Tree preservation requires a commitment to preserving and maintaining retained trees, as well as removal of any unsuited trees within the Project Area.
 - 2) All wood debris from all tree removals at the Project Site is to be chipped and stored on site for use in the tree preservation efforts at the discretion of the Landscape Architect.
 - 3) The limits of all tree protection zones shall be staked in the field and observed by all contractors.
 - 4) Any brush clearing required within the tree protection zone shall be accomplished with hand operated equipment.
 - 5) Trees to be removed from within the tree protection zone shall be removed under the supervision of a Certified Arborist. The trees shall be cut near ground level and the stump ground out.
- G. TREE PROTECTION
 - 1) Before beginning work, the Project Manager, Landscape Architect and/or Owner of their agents are required to meet at the site to review all work procedures, access routes, storage areas, and tree protection measures. Any intended construction activities inside the TPZ shall be clearly outlined.
 - 2) Fences shall be erected to protect trees to be preserved prior to construction equipment arriving on the Project Site. Fences will define the specific protection zone for each tree or group trees.
 - 3) Fences are to be maintained and remain until all site work has been completed and final landscape operations begin. Fences may not be relocated or removed without written permission from the Landscape Architect. Fences may be constructed with "1" stakes and orange web fence material.
 - 4) All trees to be preserved shall have 4 inches of hardwood mulch applied around the tree protection zone. This hardwood mulch shall be replenished as necessary to maintain a 4 inch depth.
 - 5) Construction trailers, traffic and storage areas must remain outside fenced areas at all times.
 - 6) Tree roots extend out in a straight, radial direction from the tree much like spokes on a wheel (to a depth generally not exceeding 24"). All underground utilities and drain or irrigation lines shall be routed outside the tree protection zone. If lines must traverse the protection area, they shall be tunneled or bored under the tree. Trenches "air dug" with Air Spade (registered trademark) or similar technology are the exceptions. Irrigation lines may be routed in any direction outside the dripline of retained trees. Irrigation lines inside the dripline must be in a straight, radial direction towards the tree trunk and terminate in a dead end sprinkler head no greater than 7 feet from a tree trunk (irrigation lines shall not in any way bisect and therefore damage the "spoke-like" root system).
 - 7) No materials, equipment, spoil, or waste or washout water may be deposited, stored, or parked within the tree protection zone.
 - 8) If unintentional injury should occur to any tree during construction, it shall be reported to the Landscape Architect within six hours so that remedial action can be taken. Timeliness is critical to tree health. The cost of any remedial treatments will become the burden of the offending contracting company.
 - 9) Any grading, construction, demolition, or other work that is expected to encounter tree roots must be monitored by the Landscape Architect. Specific locations or tree tag numbers should be identified.



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 Sheet: 6/15/2018 3:57 PM by User: J...

SITE PLANNING CIVIL ENGINEERING PLANNING
CONSULTANTS, LLC
 LAND SURVEYING LANDSCAPE ARCHITECTURE
 111 Hillside Drive - Lewisville, TX 75057
 P: 972.436.9712 • F: 972.436.9715
 144 Old Town Blvd. North, Ste 2 - Argyle, TX 76226
 P: 940.240.1012 • F: 940.240.1028
 TBPE Firm No. 1798 TBPLS Firm No. 10047700



LADERA ROCKWALL
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 Lot 1, Block A
 28.011 Acres
 in the
 M. JONES SURVEY, ABSTRACT NO. 122
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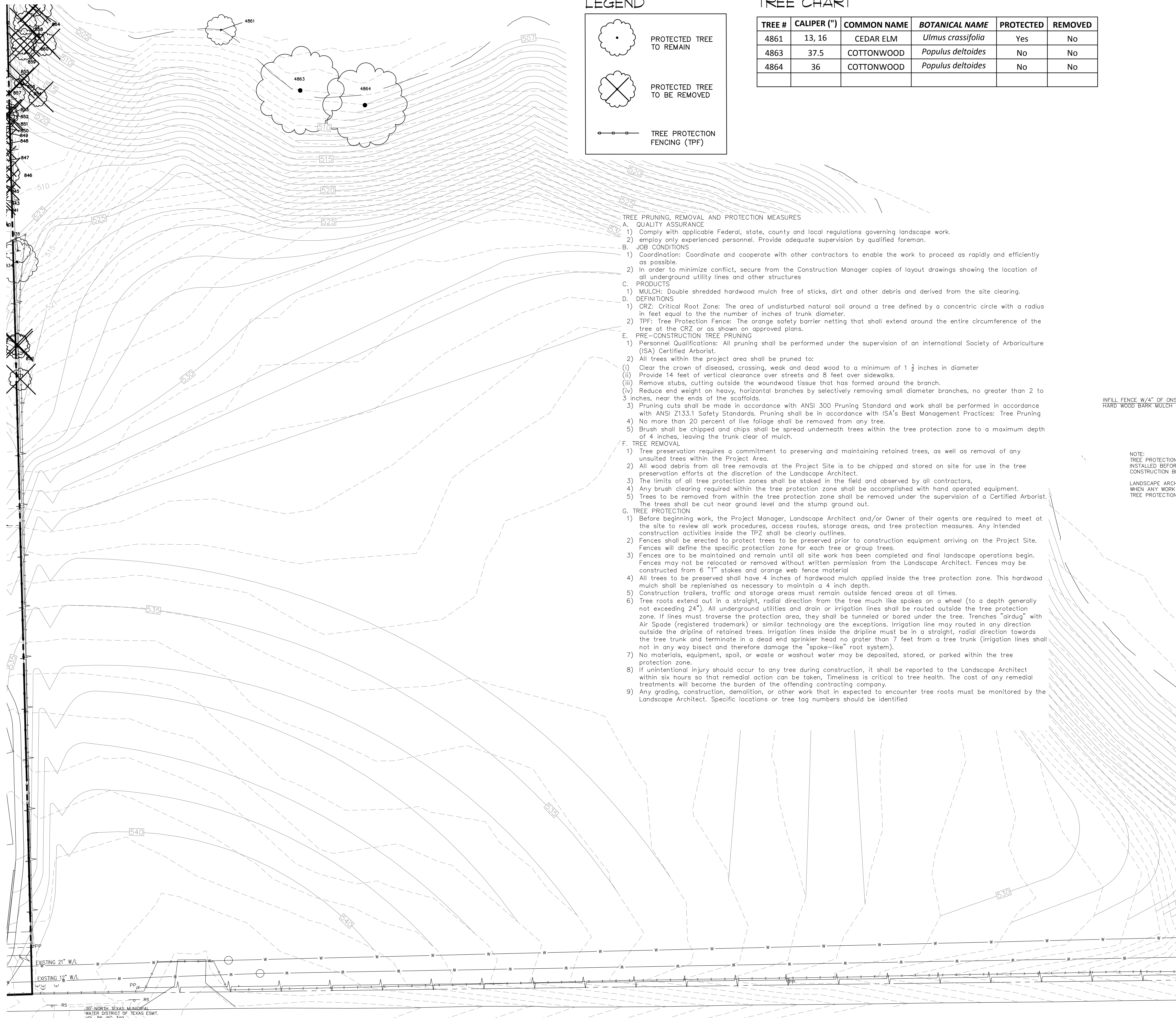
TREE SURVEY -
SOUTHWEST

PRELIMINARY PLANS
 THIS DOCUMENT IS FOR INTERIM REVIEW
 AND IS NOT INTENDED FOR CONSTRUCTION
 OR PERMIT APPLICATIONS
 WITHOUT THE WRITTEN PERMISSION OF
 RON STEWART LANDSCAPE ARCHITECTS
 DATED 6/15/2018

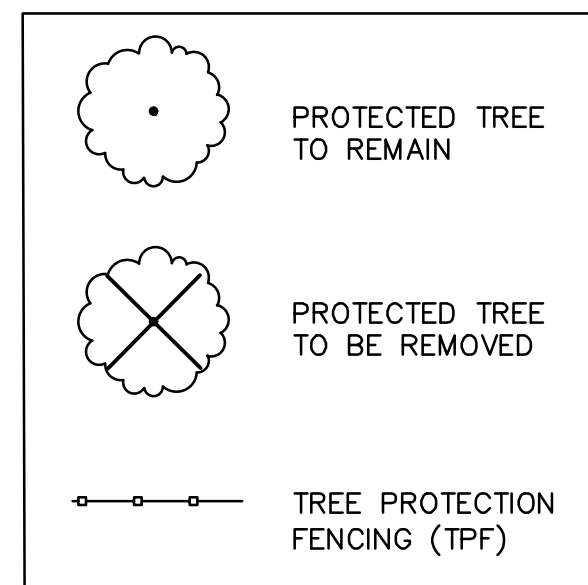
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 Date: 02/23/2018
 Scale: 1"=40'
 Revisions:
 04/23/2018

OWNER/DEVELOPER
RW LADERA, LLC.
 361 W. BYRON NELSON BLVD. STE 104
 ROANOKE, TX 76262
 Ph. 817.430.3318
 Contact: John Dellin

17191
T1.2



LEGEND

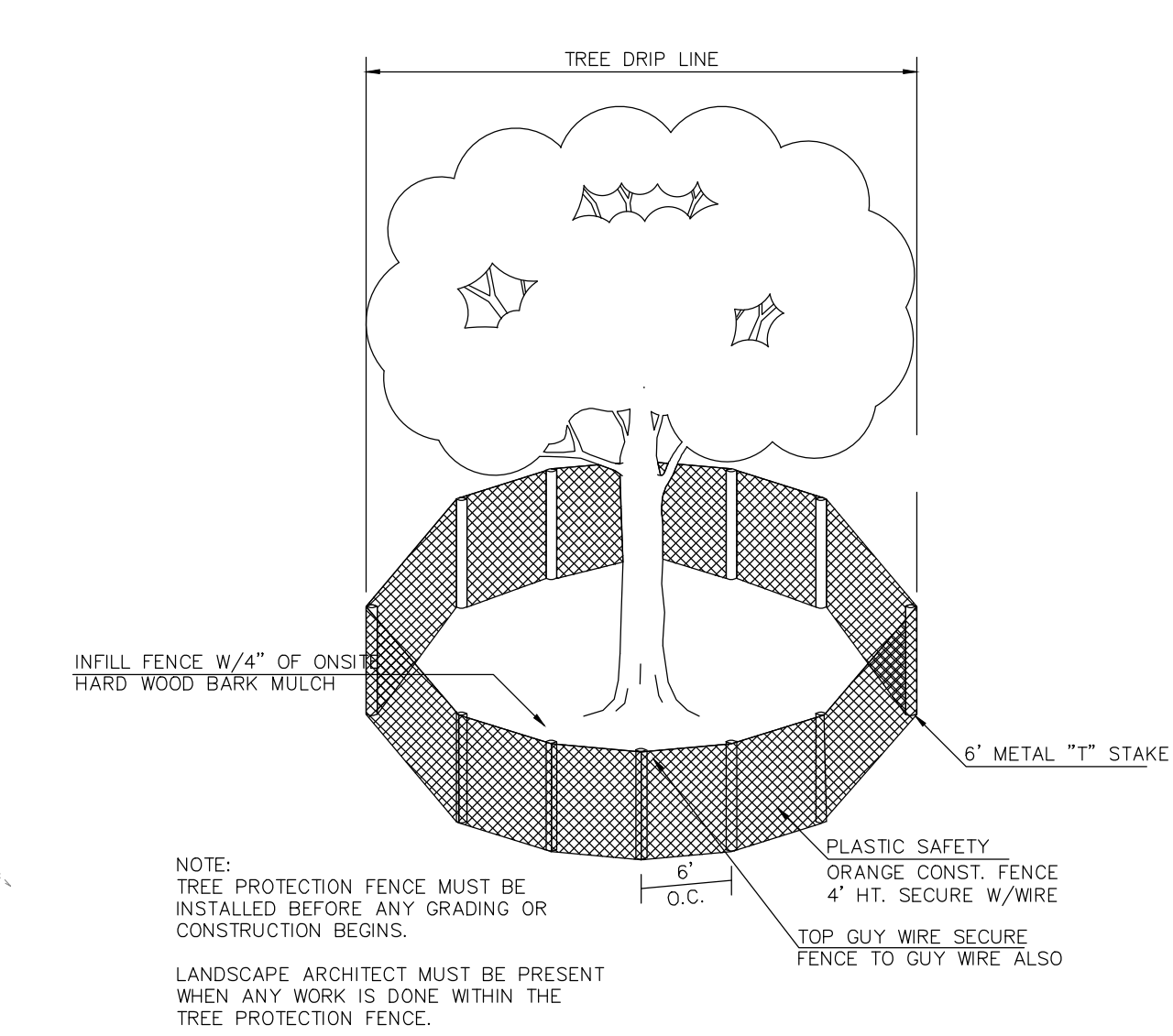
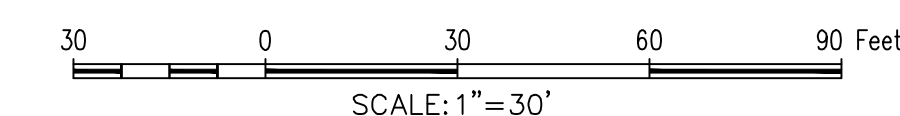


TREE CHART

TREE #	CALIPER (")	COMMON NAME	BOTANICAL NAME	PROTECTED	REMOVED
4861	13, 16	CEDAR ELM	<i>Ulmus crassifolia</i>	Yes	No
4863	37.5	COTTONWOOD	<i>Populus deltoides</i>	No	No
4864	36	COTTONWOOD	<i>Populus deltoides</i>	No	No

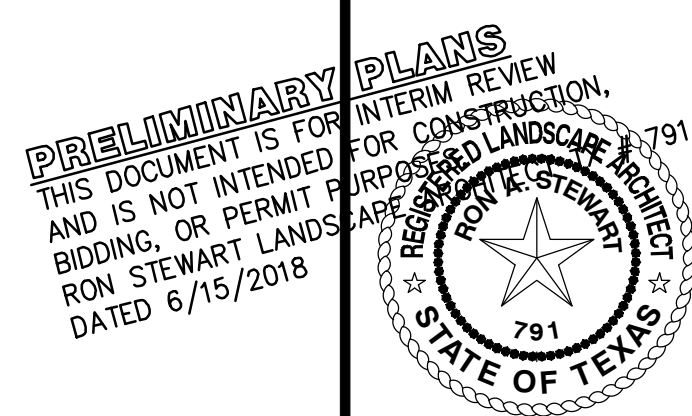
TREE PRUNING, REMOVAL AND PROTECTION MEASURES

- A. QUALITY ASSURANCE**
- 1) Comply with applicable Federal, state, county and local regulations governing landscape work.
 - 2) employ only experienced personnel. Provide adequate supervision by qualified foreman.
- B. JOB CONDITIONS**
- 1) Coordination: Coordinate and cooperate with other contractors to enable the work to proceed as rapidly and efficiently as possible.
 - 2) In order to minimize conflict, secure from the Construction Manager copies of layout drawings showing the location of all underground utility lines and other structures.
- C. PRODUCTS**
- 1) MULCH: Double shredded hardwood mulch free of sticks, dirt and other debris and derived from the site clearing.
- D. DEFINITIONS**
- 1) CRZ: Critical Root Zone: The area of undisturbed natural soil around a tree defined by a concentric circle with a radius in feet equal to the number of inches of trunk diameter.
 - 2) TPF: Tree Protection Fence: The orange safety barrier netting that shall extend around the entire circumference of the tree or the CRZ or as shown on approved plans.
- E. PRE-CONSTRUCTION TREE PRUNING**
- 1) Personnel Qualifications: All pruning shall be performed under the supervision of an international Society of Arboriculture (ISA) Certified Arborist.
 - 2) All trees within the project area shall be pruned to:
 - (i) Clear the crown of diseased, crossing, weak and dead wood to a minimum of 1 1/2 inches in diameter
 - (ii) Provide 14 feet of vertical clearance over streets and 8 feet over sidewalks.
 - (iii) Remove stubs, cutting outside the woundwood tissue that has formed around the branch.
 - (iv) Reduce end weight on heavy, horizontal branches by selectively removing small diameter branches, no greater than 2 to 3 inches, near the ends of the scaffolds.
 - 3) Pruning cuts shall be made in accordance with ANSI 300 Pruning Standard and work shall be performed in accordance with ANSI Z133.1 Safety Standards. Pruning shall be in accordance with ISA's Best Management Practices: Tree Pruning
 - 4) No more than 20 percent of live foliage shall be removed from any tree.
 - 5) Brush shall be chipped and chips shall be spread underneath trees within the tree protection zone to a maximum depth of 4 inches, leaving the trunk clear of mulch.
- F. TREE REMOVAL**
- 1) Tree preservation requires a commitment to preserving and maintaining retained trees, as well as removal of any unsuited trees within the Project Area.
 - 2) All wood debris from all tree removals at the Project Site is to be chipped and stored on site for use in the tree preservation efforts at the discretion of the Landscape Architect.
 - 3) The limits of all tree protection zones shall be staked in the field and observed by all contractors.
 - 4) Any brush clearing required within the tree protection zone shall be accomplished with hand operated equipment.
 - 5) Trees to be removed from within the tree protection zone shall be removed under the supervision of a Certified Arborist. The trees shall be cut near ground level and the stump ground out.
- G. TREE PROTECTION**
- 1) Before beginning work, the Project Manager, Landscape Architect and/or Owner of their agents are required to meet at the site to review all work procedures, access routes, storage areas, and tree protection measures. Any intended construction activities inside the TPZ shall be clearly outlined.
 - 2) Fences shall be erected to protect trees to be preserved prior to construction equipment arriving on the Project Site. Fences will define the specific protection zone for each tree or group trees.
 - 3) Fences are to be maintained and remain until all site work has been completed and final landscape operations begin. Fences may not be relocated or removed without written permission from the Landscape Architect. Fences may be constructed from 6" T" stakes and orange web fence material.
 - 4) All trees to be preserved shall have 4 inches of hardwood mulch applied inside the tree protection zone. This hardwood mulch shall be replenished as necessary to maintain a 4 inch depth.
 - 5) Construction trailers, traffic and storage areas must remain outside fenced areas at all times.
 - 6) Tree roots extend out in a straight, radial direction from the tree much like spokes on a wheel (to a depth generally not exceeding 24"). All underground utilities and drain or irrigation lines shall be routed outside the tree protection zone. If lines must traverse the protection area, they shall be tunneled or bored under the tree. Trenches "airaug" with Air Spade (registered trademark) or similar technology are the exceptions. Irrigation line may route in any direction outside the dripline of retained trees. Irrigation lines inside the dripline must be in a straight, radial direction towards the tree trunk and terminate in a dead end sprinkler head no greater than 7 feet from a tree trunk (irrigation lines shall not in any way bisect and therefore damage the "spoke-like" root system).
 - 7) No materials, equipment, spoil, or waste or washout water may be deposited, stored, or parked within the tree protection zone.
 - 8) If unintentional injury should occur to any tree during construction, it shall be reported to the Landscape Architect within six hours so that remedial action can be taken. Timeliness is critical to tree health. The cost of any remedial treatments will become the burden of the offending contracting company.
 - 9) Any grading, construction, demolition, or other work that in expected to encounter tree roots must be monitored by the Landscape Architect. Specific locations or tree tag numbers should be identified.



TREE PROTECTION

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Drawn By: VC
 Date: 02/23/2018
 Scale: 1" = 30'
 Revisions:
 04/23/2018

OWNER/DEVELOPER
 RW LADERA, LLC
 361 W. BYRON NELSON BLVD. STE 104
 ROANOKE, TX 76262
 Ph. 817.430.3318
 Contact: John Dellin

17191

T1.4

LADERA ROCKWALL
 LADERA ROCKWALL
 Lot 1, Block A
 28.011 Acres
 in the
 M. JONES SURVEY, ABSTRACT NO. 122
 CITY OF ROCKWALL
 ROCKWALL COUNTY, TEXAS

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