## TREE MITIGATION LIST

	Existing Tree Survey								Trees To Be R	emoved				
			0		Herita	ige Trees		7	Tree Type	Categories- EC	M 3.5.1 (A)(2)	200 11.		ľ
ag#	Caliper/ Species	Total Cal. Inch	Invasive	Appdx. F	30" Heritage	24-29.9" Heritage	19"+ ECM Apdx. F	8-18.9" ECM Apdx. F	19"+ all other Trees	8-18.9" all other Trees	Trees in Fair Condition	Trees in Poor Condition	ROW Trees	De
5001	16" LIVE OAK	16		16			20	16						
5002 5003	20" LIVE OAK 18" LIVE OAK <i>(FAIR HEALTH)</i>	20 18		20 18		÷	20				18			
5004 5005	12" LIVE OAK 15" LIVE OAK	12 15		12 15				12 15						
5006	13" LIVE OAK	13		13				13						
5007	11" LIVE OAK 22" AMERICAN ELM (FAIR HEALTH)	11 22		11 22				11			22			
5008 5009	19" HACKBERRY (POOR HEALTH)	19		19				7			22	19		
5010 5011	6" MESQUITE (MULTI- TRUNK) 16" LIVE OAK (FAIR HEALTH)	6 16		16							16			
5012	12" LIVE OAK (FAIR HEALTH)	12		12							12			
5013 5014	17" LIVE OAK (12,10) (FAIR HEALTH) 25" LIVE OAK	17 25		17 25							17			_
5015	8" AMERICAN ELM (FAIR HEALTH)	8		8							8			
5016 5017	24" CHINABERRY (22,7) (POOR HEALTH) 10" CHINABERRY (DEAD)	24 10	24 10									24		-
5018	18" CHINABERRY (FAIR HEALTH)	18	18								18			
5019 5020	6" MESQUITE (MULTI- TRUNK) 15" AMERICAN ELM (10,9) (FAIR HEALTH)	6 15		15							15			_
5021	14" AMERICAN ELM (FAIR HEALTH)	14		14							14			
5022 5023	12" CHINABERRY (FAIR HEALTH) 24" CHINABERRY (MULTI-TRUNK)(DEAD)	12 24	12 24								12			
5024	10" CHINABERRY	10								10				
5025 5026	12" CEDAR ELM (8,8) (POOR HEALTH) 12" BOX ELDER (FAIR HEALTH)	12		12								12		
5027	33" COTTONWOOD (POOR HEALTH)	33		12 33										
5028 5029	11" BOX ELDER (POOR HEALTH) 8" BOX ELDER (FAIR HEALTH)	11 8		11 8									<u> </u>	
5030	14" CHINABERRY (POOR HEALTH)	14	14									14		
5031 5032	12" AMERICAN ELM (FAIR HEALTH) 9" BOX ELDER (FAIR HEALTH)	12 9		12 9						_	12			
5032	10" CHINABERRY (FAIR HEALTH)	10												
5034 5035	12" CHINABERRY (FAIR HEALTH) 20" CHINABERRY (FAIR HEALTH)	12 20	12 20								12			
5035	15" CHINABERRY (DEAD)	15	20 15											
5037	17" COTTONWOOD (FAIR HEALTH)	17		17							17 16			
5038 5039	16" BOX ELDER (FAIR HEALTH) 12" BOX ELDER (POOR HEALTH)	16 12		16 12							16			
5040	16" BOX ELDER (FAIR HEALTH)	16		16										
5041 5042	9" BOX ELDER (FAIR HEALTH) 8" AMERICAN ELM (FAIR HEALTH)	9		9							8			
5043	24" COTTONWOOD	24		24										_
5044 5045	13" BOX ELDER (FAIR HEALTH) 9" BOX ELDER (FAIR HEALTH)	13 9		13 9							9			
5046	26" COTTONWOOD	26		26										
5047 5048	26" COTTONWOOD BOX ELDER (DEAD)	26 10		26 10										$\vdash$
5049	8" BOX ELDER (FAIR HEALTH)	8		8										
5050 5051	11" CHINABERRY (FAIR HEALTH) 9" AMERICAN ELM (FAIR HEALTH)	11 9	11	9							11 9			┝
5052	8" AMERICAN ELM (FAIR HEALTH)	8		8							8			
5053 5054	9" AMERICAN ELM (FAIR HEALTH) 14" HACKBERRY (FAIR HEALTH)	9	9	9							9			-
5055	9" AMERICAN ELM (FAIR HEALTH)	9		9							9			
5056 5057	20" CHINABERRY (POOR HEALTH)  10" AMERICAN ELM (FAIR HEALTH)	20 10		10							10	20		
5058	10" AMERICAN ELM (FAIR HEALTH)	10		10							10			
5059 5060	33" COTTONWOOD (23,18) (FAIR HEALTH) 15" WILLOW (DEAD)	33 15		33 15										-
5061	10" AMERICAN ELM (POOR HEALTH)	10		10								10		
5062 5063	10" AMERICAN ELM (POOR HEALTH)  13" CEDAR ELM (FAIR HEALTH)	10 13		10 13							13	10		
5064	12" CEDAR ELM (FAIR HEALTH)	12		12							12			
5065 5066	10" CEDAR ELM (FAIR HEALTH)  13" WILLOW (FAIR HEALTH)	10 13		10 13							10 13			
5067	16" CHINABERRY (FAIR HEALTH)	16									15			
5068 5069	24" CHINABERRY (FAIR HEALTH) 10" AMERICAN ELM (Poor Health)	24 10	24	10										-
5070	15" CEDAR ELM	15		15										
5071	32" COTTONWOOD (24,8,7) (Poor Health)	32		32										
5072 5073	21"WILLOW (DEAD) 20" AMERICAN ELM (11,9,9) (FAIR HEALTH)	21 21	10	21 21							21			
5074	15" AMERICAN ELM (15,11) (DEAD)	15		15										
5075 5076	14" AMERICAN ELM (DEAD) 6" CREPE MYRTLE	14 6		14										
5077 5078	6" CREPE MYRTLE 28" CHINABERRY (20,15) (POOR HEALTH)	6												
5078	27" CHINABERRY (15,13,11)(POOR HEALTH)	28 27	27									27		
5080	10" HACKBERRY (FAIR HEALTH)	10		10							10			
5081 5082	10" AMERICAN ELM (FAIR HEALTH) 17" AMERICAN ELM (FAIR HEALTH)	10 17		10 17							10 17			
5083	19" AMERICAN ELM (FAIR HEALTH)	19		19							19	10200		
5084 5085	21" AMERICAN ELM (13,7,6) (Poor Health) 10" CHINABERRY (DEAD)	21 10	10	21								21		i i
11.	Total Caliper Inch Per Column				0	0	20	67	0	10	431	157	0	
	Total Caliper Inch Removed:								763					
	Mitigation Rates per ECM 3.5.4: Mitigation Percentage:				300%	•	T#10	50%	50%	25%	¥**	0%		
	Total Replacement Inches per Column: Total Replacement Caliper Inches:				0	0	20	33.5	0 <b>142.2</b>	2.5	86.2	0	0	
	Urban Forest Accounting Calculations													
	Total Caliper Inches Surveyed:	1263				Total Calin	er Inches- Tr	ees Removed						
	Total ECM Apdx. F Inches Surveyed:	934					Heritag	ge Trees- 30"+	0					
	Total Invasive Inches Surveyed: Total Dead Inches Surveyed:	305 78						ress- 24-29.9" , ECM Apdx. F	0 20					
	Total ECM Apdx. F Inches Removed:	87					8-18.9	' ECM Apdx. F	67					
	Total Non- Apdx. F Inches Removed:	598						ees Removed all other trees	0					
							8-18.9" a	all other Trees	10					
								air' Condition oor' Condition	431 157					
							nees III P	Invasives	182					
						Tot	al Calinor Inc	Dead nes Removed:	78 763					
						101	ы сапрет то	res nemoved:	703					
								Caliper Inches	142.2					

### xx = Heritage tree

# CITY OF AUSTIN LANDSCAPE CALCULATIONS

APPENDIX C					
LANDSCAPE CALCULATIONS					
CTDEET VADD					
STREET YARD					
Tatal Cita Anna	Required	CE		Provided	
Total Street ward Area	N/A	SF		169,016 SF	
Total Street- yard Area	N/A	SF 1 FOR SE		7,544 SF	20%
Street-yard/ Landscape (20%)		1,508 SF		1,508 SF	20%
TREES (Street Yard)					
	Required			Provided	
		8		8	(including existing tree credit)
Existing Trees Credit					
2" Diameter to 6" Diameter	XX		ea. X 1	0 ea.	
6" Diameter or greater	XX		ea. X 2	0 ea.	
Proposed Trees					
(Street Yard)		8 ea.	(1.5"Cal.)	8 ea.	(2"Cal.)
Danlacement Trace					
Replacement Trees Required caliper inches replaced		142.2 in		94	
Number & Size of replacement tree total		142.2 111		45 (2"Cal.)	
Replacement inches counted from oversized stre	etyard trees			8 ea. (0.5"Cal.)	
ISLANDS, MEDIANS, OR PENINSULAS	·			0 ca. (0.0 ca.)	
	Required			Provided	
Street- yard	•	0 SF		0 SF	
Non Street-yard area		0 SF		0 SF	
INNOVATIVE WATER MANAGEMENT					
Required Landscape Area (Section 2.4.9.1)		1,370 SF			
50 Percent of Required Landscape Area		685 SF			
or erecit of nequired Editascape Airea		003 31			
	Required			Provided	
Landscaping Receiving Stormwater Runoff		685 SF		700 SF	
<b>Undisturbed Natural Areas</b>		0 SF		5,000 SF	
<b>Undisturbed Existing Trees</b>		0 SF		0 SF	
Total		685 SF		5,700 SF	

BUFFERING POINTS		Required		22	<b>Total Provided</b>	32
	Size	Quantity	Prefe	rred	Other	
Larger Trees	XX	XX	XX	pts.	XX	
Small Trees	2" Caliper		No	pts.	2	
Large Shrubs	XX	XX	XX	pts.	XX	
Medium Shrubs	5 Gallon	30	No	pts.	30	
Small Shrubs	XX	XX	XX	pts.	XX	
Decorative Wall (3' minimum height)	XX	XX	XX	pts.	XX	
Berm (3' min, @ no < 4:1 slope)	XX	XX	XX	pts.	XX	
ALTERNATIVE COMPLIANCE CALCU	LATIONS					
Landscape area/ Street- yard)			XX	pts.		
Islands, medians & peninsula			XX	pts.		
Trees/ Street- yard			XX	pts.		
Trees/ Parking area			XX	pts.		
Islands, medians & peninsula within 50	of parking	5	XX	pts.		
Trees within 50' of parking			XX	pts.		
Total Negative			XX	pts.		
ALTERNATIVE COMPLIANCE- COM	PENSATION	N				
XX % of installed Street- yard trees			XX	pts.		
XX % of increaded Buffering			XX	pts.		
XX % of increaed Buffering			XX	pts.		
XX Other (specify)			XX	pts.		
Total Compensation			XX	pts.		

## Tree Mitigation Fee Calculations 820 Total Cal. Inches Removed 142 92

Replacement Inches Required Replacement Inches Provided Replacement Inches Lacking Cost Per Inch \$200.00 Grand Total \$ 10,000 I, BRIAN OTT, A REGISTERED LANDSCAPE ARCHITECT NO. 1890 WITH THE STATE OF TEXAS, CERTIFY THAT THESE PLANS MEET THE MINIMUM REQUIREMENTS OF CHAPTER 25-2, ARTICLE 9 OF THE LAND DEVELOPMENT CODE OF THE CITY OF AUSTIN.

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE LANDSCAPE ARCHITECT WHO PREPARED THEM. IN APPROVING THESE PLANS, THE CITY OF AUSTIN MUST RELY UPON ADEQUACY OF THE WORK OF THE LANDSCAPE ARCHITECT.

THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX 12337, AUSTIN, TEXAS 78711-2337, TELEPHONE (512) 305-9000, HAS JURISDICTION OVER INDIVIDUALS LICENSED UNDER THE LANDSCAPE ARCHITECTS REGISTRATION LAW ARTICLE 249c, VERNON'S TEXAS CIVIL STATUTES.



December 14, 2018

## DOCUMENT NOTES

#### GENERAL NOTES:

- The location of existing underground utilities are shown in an approximate way only. The contractor shall determine the exact location of all existing utilities before commencing work. The contractor agrees to be fully responsible for any and all damages which might be occasioned by failure to exactly locate and preserve any and all underground utilities.
- Call Texas 811 for utility location services.
- Project Manual(s) and related specifications apply to these documents. These documents should be referenced by all associated contractors or bidders, and will provide supplemental detail for many aspects of the work herein.

#### LANDSCAPE NOTES:

- A minimum of 6" permeable soil (native or imported material that meets COA specification 601S) shall be installed for all turf or planted areas.
- All proposed landscape areas adjacent to vehicular uses shall be protected by a minimum 6" height curb, wheel stop, or other approved barrier per ECM 2.4.7.
- The Owner shall continuously maintain required landscape features in accordance with LDC section 25-2-984.
- Proof of final inspection fee payment will be required prior to final approval of this site plan by ECSD.
- All street furnishings will comply with COA Great Streets requirements.
- All pavers set on sand or aggregate base materials (non-grouted or mortared) shall be patterned perpendicular to street curb line.
- Project Manual(s) and related specifications apply to these documents. These documents should be referenced by all associated contractors or bidders, and will provide supplemental detail for many aspects of the work herein.

#### **IRRIGATION SYSTEM NOTES:**

- All proposed landscape areas within property line to receive 100% head-to-head irrigation coverage. This system will include separated turf and planting zones, and will comply with water conservation irrigation system requirements as required in the ECM.
- Irrigation lines shall be trenched to avoid disturbance of existing tree critical root zones.
- Irrigation systems shall be in place and functional at landscape inspection.
- If stage 2 (or greater) watering restrictions are active when planting is to occur, contact the COA landscape inspector prior to planting.

### IRRIGATION NOTES: ECM APPENDIX O

### Automatic irrigation systems shall comply with TCEQ Chapter 344, as well as the following requirements:

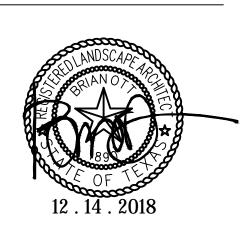
- 1. These requirements shall be noted on the Site Development Permit and shall be implemented as part of the
- a. the system must provide a moisture level adequate to sustain growth of the plant materials;
- b. the system does not include spray irrigation on areas less than ten (10) feet wide (such as medians, buffer strips, and parking lot islands); c. circuit remote control valves have adjustable flow controls;
- d. serviceable in-head check valves area adjacent to paved areas where elevation differences may cause low head
- e. a master valve installed on the discharge side of the backflow preventer;
- f. above-ground irrigation emission devices are set back at least six (6) inches from impervious surfaces; g an automatic rain shut-off device shuts off the inigation system automatically after more than a one-half inch  $(\frac{1}{2})$
- h. newly planted trees shall have permanent irrigation consisting of drip or bubblers.
- 2. The irrigation installer shall develop and provide an as-built design plan to the City at the time the final irrigation inspection is performed;
  - a. unless fiscal security is provided to the City for the installation of the system, it must be operational at the time of the final landscape inspection.
- 3. The irrigation installer shall also provide exhibits to be permanently installed inside or attached to the irrigation
- a. a laminated copy of the water budget containing zone numbers, precipitation rate, and gallons per minute; and a zone map with the isolation valve location.
- 4. The irrigation installer shall provide a report to the City on a form provided by Austin Water certifying compliance with Subsection 1. When the final plumbing inspection is performed by the City.



FILE NUMBER:	SP-2020-0169C	EXPIRATIO	ON DATE:	
CASE MANAGER:	RANDY ROUDA	 APPLICATI	ION DATE:	04/17/202
APPROVED ADMINI	STRATIVELY ON:	<del>_</del>		
APPROVED BY PLA	NNING COMMISSION OF	l:		
APPROVED BY CIT	Y COUNCIL ON:			
under Section1	<u>12</u> of Chapter <u>25-</u> 5	of the Aus	tin City Code	Э.
			•	
	nent Services Department		CS-MU-V-C	
Director for Developr	nent Services Department		CS-MU-V-CC CS-CO & CS	
Director for Developr	nent Services Department	( Zoning: _(	CS-MU-V-C0 CS-CO & CS No.1	

OF ALL DATA. INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS. ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OF NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS.

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BLVD 31

**Project Number:** 18-021

Date Issued:

December 14, 2018

Revisions:

Sheet Title:

NOTES AND TABLES

LS1

35 OF 58

<sup>\* =</sup> Tree not on property but included in survey