Landscape Architect



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OVERLAND 203 E. JONES AVE., SUITE 104 SAN ANTONIO, TX 78215

SEVENTH GENERATION DESIGN 933 NORTH FLORES STREET, SUITE B SAN ANTONIO, TX 78212

SPARKS ENGINEERING, INC. 933 NORTH FLORES STREET SAN ANTONIO, TX 78212

CNG ENGINEERING 1917 N. NEW BRAUNFELS AVE., SUITE 201 SAN ANTONIO TX, 78208





BRACKENRIDGE PARK 2017 BOND PROGRAM IMPROVEMENTS

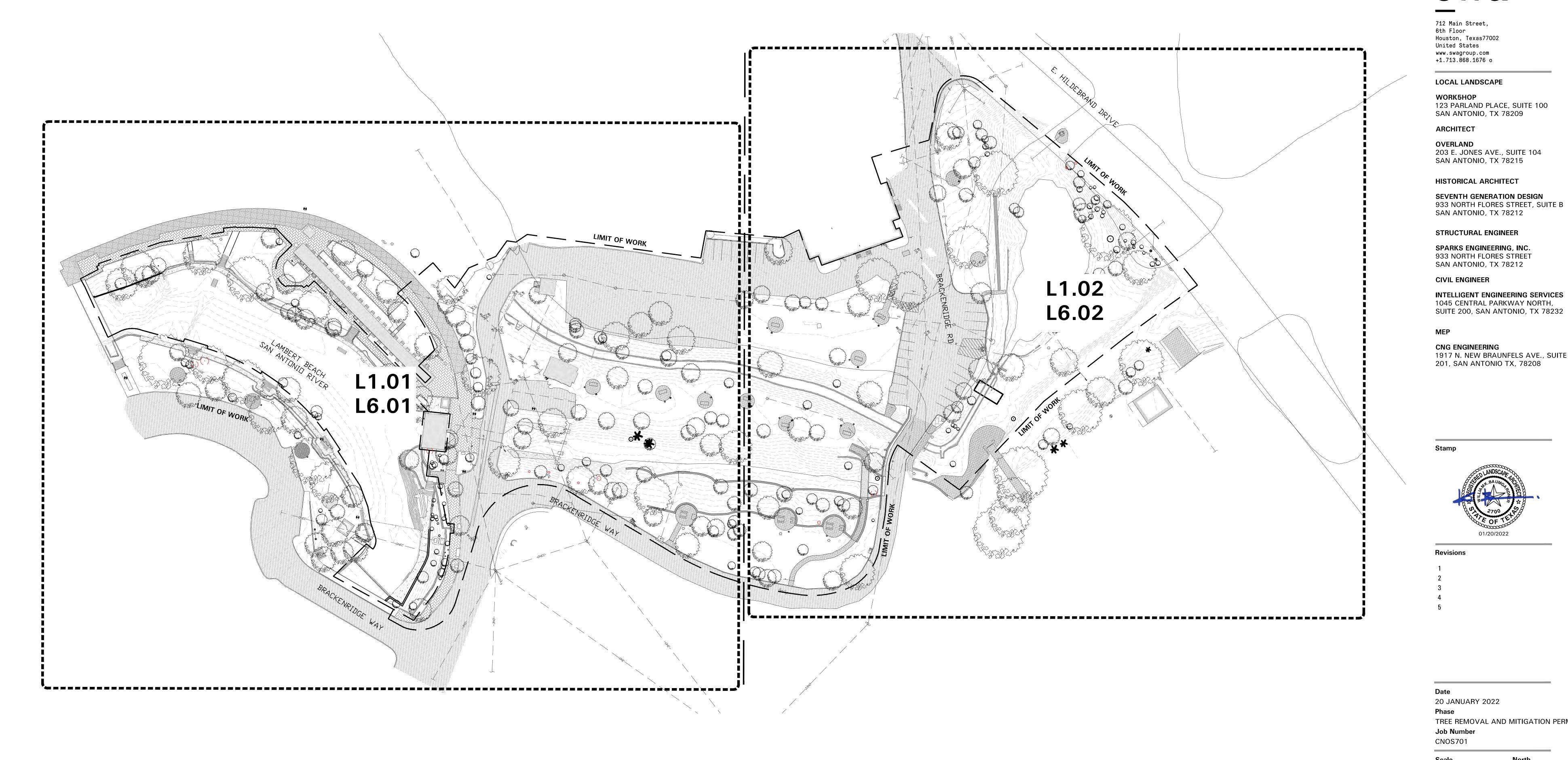
A PROJECT OF THE CITY OF SAN ANTONIO 114 W. Commerce Street 11th Floor San Antonio, Texas 78205 ISSUE FOR TREE REMOVAL AND MITIGATION PERMIT 20 JANUARY 2022







– SITE: BRACKENRIDGE PARK, SAN ANTONIO, TX



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01/20/2022 Revisions

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MEP CNG ENGINEERING 1917 N. NEW BRAUNFELS AVE., SUITE 201, SAN ANTONIO TX, 78208

SPARKS ENGINEERING, INC. 933 NORTH FLORES STREET SAN ANTONIO, TX 78212

SAN ANTONIO, TX 78212

STRUCTURAL ENGINEER

SAN ANTONIO, TX 78215 HISTORICAL ARCHITECT SEVENTH GENERATION DESIGN 933 NORTH FLORES STREET, SUITE B

www.swagroup.com +1.713.868.1676 o LOCAL LANDSCAPE WORK5HOP 123 PARLAND PLACE, SUITE 100 SAN ANTONIO, TX 78209

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78283-3966

BRACKENRIDGE PARK

TREE REMOVAL NOTES:

- "TREES TO BE REMOVED UNDER HISTORIAN OVERSIGHT" PER LEGEND WILL REQUIRE A HISTORIAN (PROVIDED BY PWD EMD) TO BE PRESENT BEFORE REMOVAL ACTIVITIES CAN BEGIN.
- 2. DO NOT STAGE EQUIPMENT ON OR NEAR HISTORIC RIVER WALLS OR HISTORIC STRUCTURES. EXACT DISTANCE WILL DEPEND ON CONDITION OF HISTORIC STRUCTURE. SUPPORT WILL BE PROVIDED BY THE MONITOR ON SITE.
- 3. IF HEAVY EQUIPMENT (SKID LOADER AND UP) IS TO BE USED NEAR A HISTORIC STRUCTURE, USE EDM APPROVED METHODS OF PROTECTION. CONTACT THE PWD EMD ARCHITECTURAL HISTORIAN (210-207-1454) FOR GUIDANCE.
- 4. NO MACHINERY SHOULD BE DRIVEN ON TOP OF THE UPPER LABOR DAM.
- 5. ALL TREES DESIGNATED FOR REMOVAL ARE TO BE REMOVED AT $\frac{1}{4}$ " ABOVE GRADE.
- 6. NO SOIL IS TO BE DISTURBED AS PART OF TREE REMOVAL.
- 7. ALL TREES TO BE REMOVED SHALL BE MARKED PER TECHNICAL SPECIFICATIONS AND REMOVED UPON REVIEW AND APPROVAL BY OWNER AND LANDSCAPE ARCHITECT.
- 8. ALL TREES IN AREAS NOT MARKED FOR REMOVAL SHALL REMAIN UNLESS OTHERWISE NOTED, ANY TREE THAT DOES NOT APPEAR ON THE TREE SURVEY SHALL BE VERIFIED WITH THE OWNER AND LANDSCAPE ARCHITECT TO DETERMINE STATUS OF REMOVAL.
- ALL TREES REMOVED EXCEPT THOSE DESIGNATED BY OWNER SHALL BE MULCHED ON SITE INCLUDING ALL LIMB/BRACH DEBRIS AND TRUNK. MULCH GRIND SHALL BE STORED ON SITE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR REMOVAL AND STORAGE INFORMATION.

EXISTING TREE MAINTENANCE NOTES:

- 1. TREE MAINTENANCE SHALL OCCUR AS NOTED FOR ALL EXISTING TREES AS REQUIRED PER TECHNICAL SPECIFICATIONS ISSUED. SUCH OPERATIONS MAY INCLUDE TRIMMING, PRUNING, FERTILIZING, WATERING, ROOT PRUNING AND/OR FOLIAGE WASHING AS REQUIRED BY SITE ARBORIST OR LANDSCAPE ARCHITECT.
- TREE MAINTENANCE OPERATIONS SHALL BE DEEMED HIGH PRIORITY AND SHALL OCCUR WHEN SUCH NOTED OPERATIONS ARE NOTED TO OCCUR AND SHALL OCCUR AS NOTED BY ARBORIST.

GENERAL TREE PROTECTION NOTES:

- 1. ALL TREES INDICATED ON THE TREE PRESERVATION PLANS TO BE PROTECTED SHALL BE PROTECTED WITH TEMPORARY FENCING THROUGHOUT CONSTRUCTION.
- 2. TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION AND/OR SITE PREPARATION WORK (CLEARING OR GRUBBING).
- 3. NO SOIL IS TO BE DISTURBED BY THIS SCOPE OF WORK.
- 4. FENCES SHALL COMPLETELY SURROUND THE TREE OR CLUSTERS OF TREES; FENCES SHALL BE LOCATED AT THE OUTERMOST LIMITS OF THE TREE BRANCHES (DRIP LINE); AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT. FENCES MAY BE MOVED OR REMOVED TO ENABLE THE PROGRESS OF CONSTRUCTION ONLY AS APPROVED BY THE LANDSCAPE ARCHITECT.
- 5. WHERE EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN 4 FEET TO A TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF 8' (OR TO THE LIMITS OF THE LOWER BRANCHING) AS INDICATED ON TREE PRESERVATION PLANS.
- COVER THE ROOT ZONE AREA WITH 4" OF HARDWOOD MULCH, UNDER 6. DIRECTION OF THE LANDSCAPE ARCHITECT, WHERE ROOT ZONES WITHIN DRIP LINES ARE UNPROTECTED BY FENCING.
- ANY ROOT SEVERED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH SPECIFIED TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH SPECIFIED ORGANIC MATERIAL. THE OWNER AND LANDSCAPE ARCHITECT MUST BE NOTIFIED IMMEDIATELY OF ANY DAMAGE TO PRESERVED TREES.
- TREES HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE WATERED THOROUGHLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER AS DIRECTED BY THE LANDSCAPE ARCHITECT. TREE CROWNS SHALL BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.

GENERAL TREE PROTECTION NOTES (CONT.):

NO LANDSCAPE TOPSOIL DRESSING GREATER THAN A 3" LAYER SHALL BE PERMITTED WITHIN THE DRIP LINE OF TREES. NO SOIL OR MULCH IS PERMITTED ON THE ROOT FLARE OF ANY TREE.

10. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS BY A RECOGNIZED ARBORIST.

- 11. ALL FINISHED PRUNING MUST BE DONE ACCORDING TO RECOGNIZED,
- SOIL, TO PROTECT ROOT ENDS FROM CONCRETE AND LIME.
- INJECTION OF DAVEY ARBOR GREEN FERTILIZER. REFER TO
- 14. CONTRACTOR SHALL MODIFY EXHAUST PIPES ON CONSTRUCTION OF CONSTRUCTION EQUIPMENT.
- 15. EQUIPMENT MUST NOT TOUCH UNDERSIDE OF TREE CROWNS.
- 16. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TREE WORK/REPAIR TO ANY DAMAGE TO EXISTING TREES DURING THE CONTRACT PERIOD. DAMAGE TO ANY EXISTING TREES SHALL BE REPORTED IMMEDIATELY TO THE OWNER'S REPRESENTATIVE. PROGRAM OF CORRECTIVE PRUNING AND TREE CARE TO REPAIR DAMAGE WITH THE NAME OF A QUALIFIED URBAN FORESTER OR ARBORIST FOR OWNER'S APPROVAL.
- VERIFICATION OF REQUIRED TREE FENCING LIMITS.
- 18. ALL EXISTING TREES, IN DESIGNATED PROTECTED AREAS, MUST BE OPERATIONS (REF. SPEC SECTION 02112)

APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES).

12. COVER SEVERED ROOTS AND TREE SIDE OF TRENCH WITH 8 MIL BLACK VISQUENE TO FULL DEPTH OF TRENCH AND 6" OVER TOP. STAPLE VISQUENE IN PLACE, BACKFILL AND COMPACT TRENCH WITH EXCAVATED

13. CORE AERATE AND DEEP ROOT FERTILIZE TREES BY PROBE AND WATER MANUFACTURER'S MAXIMUM RECOMMENDED RATES PER TREE CALIPER INCHES. INJECT 18"-24" DEEP 5'-0" O.C. THROUGHOUT DRIP-LINE OF TREE.

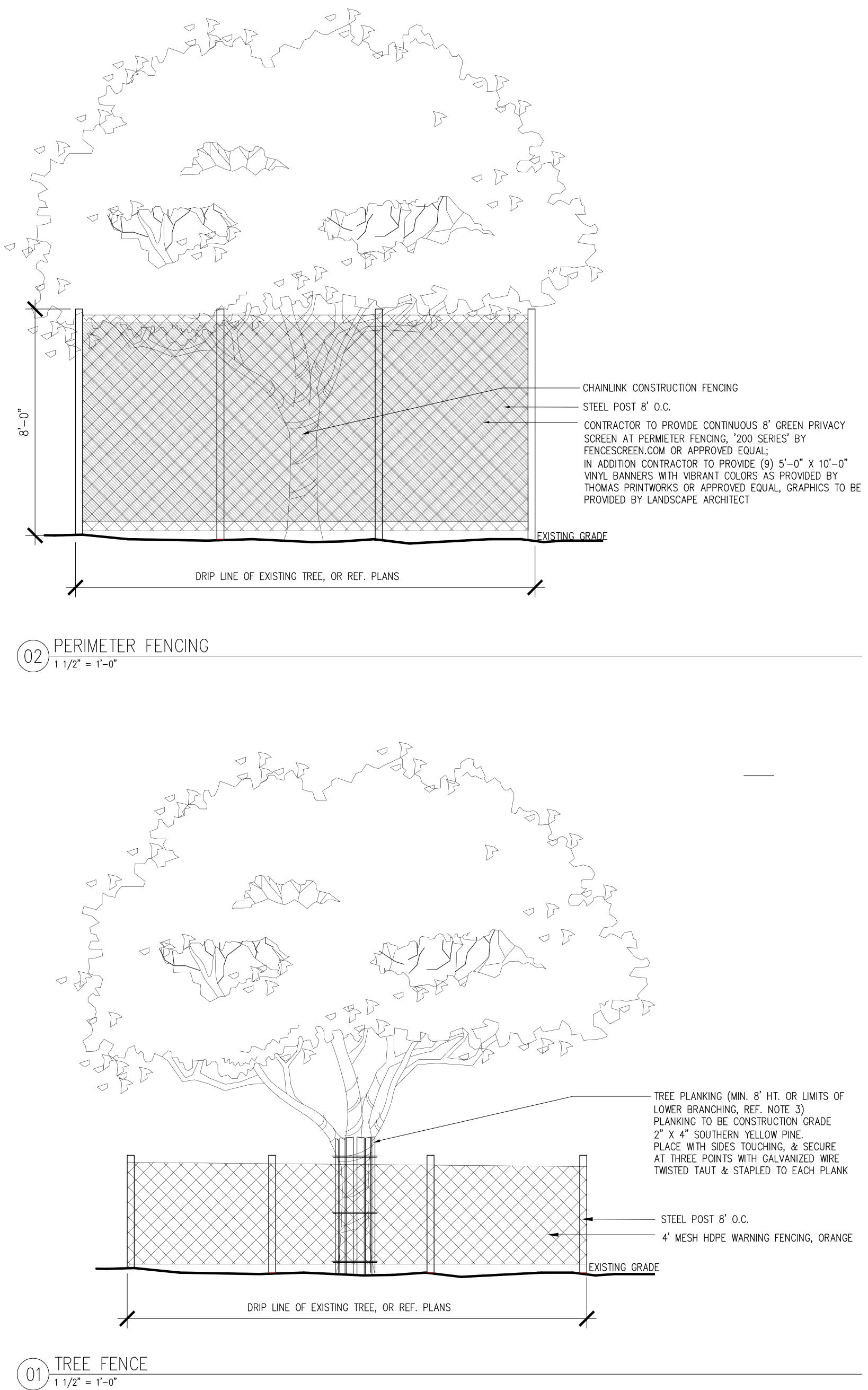
EQUIPMENT AS NEEDED TO INSURE THAT TREE CROWNS ARE NOT DAMAGED FROM EXHAUST HEAT FROM VERTICAL EXHAUST PIPES ON TOP

CONTRACTOR SHALL SUBMIT TO OWNER'S REPRESENTATIVE A WRITTEN

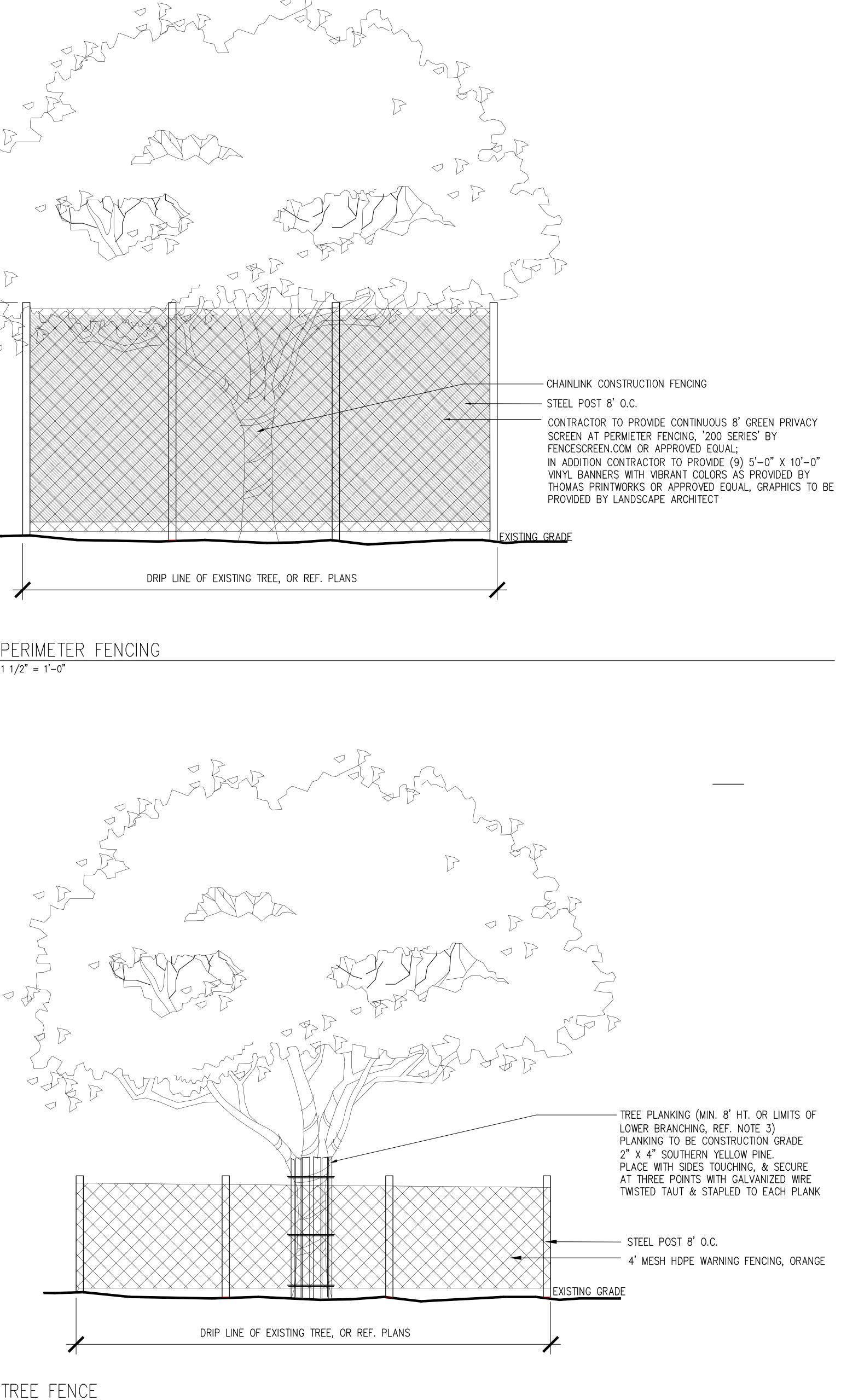
17. PLANS ARE DIAGRAMMATIC. CONTRACTOR IS RESPONSIBLE FOR FIELD

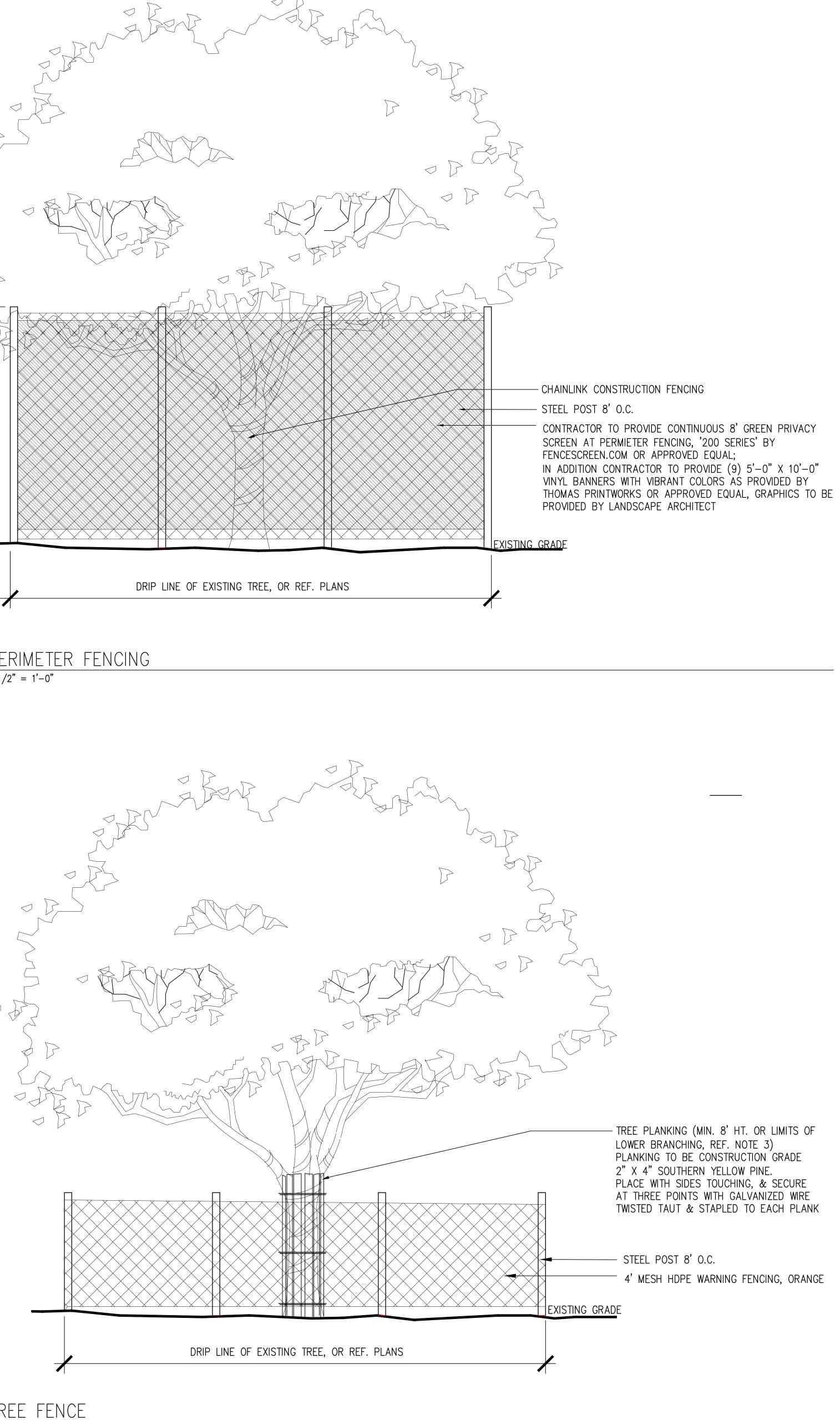
PRUNED TO AVOID DAMAGE BY EQUIPMENT DURING CONSTRUCTION

19. THESE NOTES ARE SUPPLEMENTARY TO SPECIFICATION SECTION 015639.

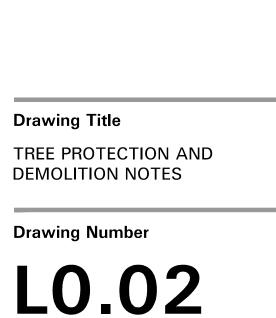








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Date 20 JANUARY 2022 Phase TREE REMOVAL AND MITIGATION PERMIT Job Number CNOS701 Scale North

Revisions	
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MEP CNG ENGINEERING 1917 N. NEW BRAUNFELS AVE., SUITE 201, SAN ANTONIO TX, 78208

INTELLIGENT ENGINEERING SERVICES 1045 CENTRAL PARKWAY NORTH, SUITE 200, SAN ANTONIO, TX 78232

STRUCTURAL ENGINEEF SPARKS ENGINEERING, INC. 933 NORTH FLORES STREET

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BRACKENRIDGE PARK

		PROPOSED	TREES			
SYMBOL	COMMON NAME	BOTANICAL NAME	SIZE	CALIPER PER TREE	QUANTITY	TOTAL CALIPEI
\bigcirc	EXISTING TREE					
	SHUMARD OAK	Quercus shumardii	200 GAL	6"	7	42
\bigcirc	TEXAS ASH	Fraxinus pennsylvanica	200 GAL	6"	6	36
	BALD CYPRESS	Taxodium distichum	200 GAL	6"	4	24
	PECAN	Carya illinoinensis	200 GAL	6"	4	24
$\left(\begin{array}{c} 0 \end{array}\right)$	PECAN	Carya illinoinensis	100 GAL	4"	4	16
	LIVE OAK	Quercus virginiana	200 GAL	6"	31	186
	LIVE OAK	Quercus virginiana	100 GAL	4"	38	152
	CEDAR ELM	Ulmus crassifolia	200 GAL	6"	11	66
$\left(\begin{array}{c} \bigcirc \\ \bigcirc \end{array} \right)$	CEDAR ELM	Ulmus crassifolia	100 GAL	4"	9	36
	ANACUA	Ehretia anacua	45 GAL	2"	23	46
	POSSUMHAW HOLLY	llex decidua	45 GAL	2"	52	104
$\langle \bigcirc \rangle$	RUSTY BLACKHAW VIBURNUM	Viburnum rufidulum	45 GAL	2"	11	22
	YAUPON HOLLY	llex vomitoria	45 GAL	2"	19	38
	I		1	TOTAL CALIPER	R IN NEW TREES	792

MITIGATION SUMMARY	
IO 1 OVERLAY DISTRICT	
REQUIRED MITIGATION	
OTAL FLOODPLAIN EXCESS / MITIGATION:	1645
OTAL ESA EXCESS / MITIGATION:	88
OTAL UPLAND EXCESS / MITIGATION:	-100
RAND TOTAL EXCESS / MITIGATION REQUIRED:	1633
VITIGATION PROVIDED	
/ITIGATION PROPOSED AS PROPOSED PLANTINGS (WITHIN PROJECT BOUNDARY)	792
/ITIGATION PROPOSED IN FUTURE PROJECT PHASES (PARK-WIDE)	841
/ITIGATION PROVIDED AS PAYMENT (\$200 per Inch)	0
/ITIGATION BALANCE:	0

ree	Canopy	Cover (F	Floodplai	n Excluded)		
			PROJECT AREA	70,260		
	15%	CAN	NOPY REQUIRED	10,539.00) SF	PROJECT SITE WITHIN CRAG AREA
	MET WITH PR	ESERVED TREES	S - REFERENCE T	'P SERIES		
QTY.	SHADE VALUE	PERCENT	SQFT	SPECIES		NOTES
1	1,200	1 0 0%	1,200	(1) Pecan		
27	875	100%	23,625	(19) Cedar Bm, (8) Oak		
	550	100%	-			
	275	100%	-			
28			······································		•	
		TOTAL PRESE	RVED CANOPY	24,825	SF	
		TOTAL PRESE	ERVED CANOPY	35.3%	6	
NOPY	MET WITH PR	OPOSED TREE F	PLANTINGS - REF	ERENCE L SERIES		
۵T	SHADE VALUE	PERCEN.	SQFT	SPECIES		NOTES
8	1,200		8,640.00	(8) Pecan	-	
129	875	90%	101,587.50	(7) Shumard Oak, (6) Ash. (4) Bald Cypress, (69) Live Oak, (20) Cedar Em, (23) Anacua		
71	275	90%	17,572.50	(52) Possumhaw Holly, (19) Yaupon Holly		
1		TOTAL PROF	POSED CANOPY	127,800	SF	
		TOTAL PROP	POSED CANOPY	181.9%	6	
			OPY PROVIDED	152,625		
			OPY PROVIDED	217.2		
	PERCE	NT INCREASE FRO	om preserved	252.6"	Ka l	

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Revisions

1/19/2022 18:39

20 JANUARY 2022

TREE REMOVAL AND MITIGATION PERMIT

North

Date

Phase

Job Number

Drawing Title

Drawing Number

COSA TREE MITIGATION CALCULATIONS

L0.03

CNOS701 Scale

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CITY OF SAN ANTONIO - UDC V-5-35-523 Floodplain Tree Preservation Inventory

				SM	ALL SPEC		S**		LARGE	SPECIE	S TREES	*	ו	
TREE #	TAG #	SPECIES	DBH	SIGNIFICANT	SIGNIFICANT REMOVED	HERITAGE	HERITAGE REMOVED (1:1)	SIGNIFICANT PRESERVED	SIGNIFICANT	HERITAGE	HERITAGE	HERITAGE	PROTECTED CAL. INCHES EXEMPT	COMMENTS
	<u> </u>	Willow Willow	11					THEOLINEO	11 11	FRESERVED				
018	2233	Oak Chinaberry	8	8									7	Undesirable Species, Not Counted
020	2224	Hackberry Willow	12 13						13				12	Felled, Removed, Not Counted
		Willow Ash	19 8	8					19					
	2253	Oak TX. Mountain Laurel	54 3	3						54				
		Oak TX. Mountain Laurel	18 3	3				18						
-		TX. Mountain Laurel Hackberry	3	3 4										
		Elm Oak	34 15						15	34				
033	2242	Cedar Elm Willow	12 12						12 12					
035	2227	Willow Willow	7 16						7 16					
037	2284	Willow Willow	8				· · ·		8 11			· · · · · · · ·		Previously Removed Previously Removed
039	2225	Ash Willow	11		11				16					Previously Removed Previously Removed
043	2217	Willow Cedar Elm Cedar Elm	28 9 12					9 12			28			
045	2266	Cedar Elm Crepe Myrtle	18					18	9					Previously Removed
047	6711	Baid Cypress Willow	6 13					6					13	Not Counted, Outside LOW
049	2249	Pecan Oak	27							26	27		15	Previously Removed
060	2268	Cedar Elm Black Oak	26 8						8	26				Twin (6-4)
063	2285	Anaqua Pecan	28 29							28 29				
067	2200	Cedar Elm Cedar Elm	1 4 10						14 10					
069	2377	Anaqua Cedar Elm	17 9					9	17					Multi-Trunk Tree
071 072	2194 3027	Cedar Elm Oak	13 12					13 12						Multi-trunk Tree
073 074	3028 2138	Oak Cedar Elm	12 15					12	15					Multi-trunk Tree
076	10132	Oak Hackberry	18 5	5					18					
078	2357	Crepe Myrtle Crepe Myrtle	17 22						17 22					Multi-trunk Tree
080	2379	Crepe Myrtle Crepe Myrtle	14 17						14 17					Multi-trunk Tree Multi-trunk Tree
082	2349	Crepe Myrtle Crepe Myrtle	<u>11</u> 11						<u>11</u> 11					Multi-trunk Tree
084	2321	Oak Crepe Myrtle	39 10						10	39				Multi-trunk Tree
086	6000 (2331)	Crepe Myrtle Baid Cypress	15 27						15				27	Multi-trunk Tree Outside LOW; Not Counted
088	6002 (600)	Baid Cypress Oak	21 23										21 23	Outside LOW; Not Counted Outside LOW; Not Counted
090	6004 (601)	Baid Cypress Oak	17 25 9										17 25 9	Outside LOW; Not Counted Outside LOW; Not Counted
092	2229	Crepe Myrtle Oak Bald Cypress	9 7 19					7		· · ·			19	Outside LOW; Not Counted Dead, Removed, Not Counted
094	233 9	Chinese Tallow Oak	19 12 32								32		19	Undesirable Species, Not Counted
096	2338	Oak Oak	34 22						22	34				
098	2364	Oak Oak	18 16						18 16					
100	6006 (2306)	Oak Oak	37 44								37 44			
		Cedar Elm Bald Cypress	18 20						18				20	Outside LOW; Not Counted
	<u>' '</u>	Pecan Oak	8 33						8	33				
		Cypress Pecan	23 18						23 18					
109	2325	Pecan Crepe Myrtle	22 10						22 10					Multi-Trunk
112	2372	Yaupon Crepe Myrtle	3 16						16					Multi-Trunk
114	2374	Pecan Pecan	20 14						20 14			······		
116	2359	Cedar Elm Pecan	23 25			:		23 25						Outside LOW; Not Counted
118	2387	Pecan Crepe Myrtle	24 27						45	24 27			24 27	Outside LOW; Not Counted Outside LOW; Not Counted Maisi family
120	2344	Crepe Myrtle Crepe Myrtle Crepe Myrtle	15 23 25						15		· · · · · · · · · · · · · · · · · · ·		23	Multi-trunk Dead, Removed, Not Counted Dead, Removed, Not Counted
122	2383	Pecan Cypress	25 22 40						22	40			23	locus, nemoved, not counted
124	2388	Bald Cypress Crepe Myrtle	40 46 27							40	27			Multi-trunk
126	2398	Bald Cypress Crepe Myrtle	38 9						9	38				
128	2335	Crepe Myrtle Baid Cypress	22 43										22	Dead, Removed, Not Counted
130	2337	Baid Cypress Hackberry	37 12	12						37				Multi-trunk
132 133	2400 2320	Crepe Myrtle Bald Cypress	17 53						17	53				Multi-trunk
134 135	6008 (2376) 6009 (2307)	Oak Oak	16 15						16 15					
137	6011 (2305)	Oak Cedar Elm	20 17						20 17					
139	2385	Cedar Elm Pecan	16 26						16		26			
1 4 1	2354	Pecan Baid Cypress	24 27								24 27	1		
143	2318	Pecan Cedar Elm	20 12						12				20	Dead, Removed, Not Counted
145	2125	Eve's Neckłace Oak	8 32		40				8		32			
147	2427 (2146)	Huisache Pecan Oak	13 28		13					28				
149	2117	Oak Ash	7 9					7 9						
1 5 1	2118	Pecan Oak Pecan	12 20					12 20						
152		Pecan Oak	18 16					18 15	5.5					
153		Decan	1 10		1	1	1		16	1	1	1		1
153 154 155	2039 (2308) 2307	Pecan Oak Ceder Elm	16 37							37	· · · · · · · · · · · · · · · · · · ·			
153 154 155 156 157	2039 (2308) 2307 1001 1002		÷					20	19	37 25				

TREE #	TAG #	SPECIES	DBH	SIGNIFICANT	ALL SPEC	HERITAGE	HERITAGE	SIGNIFICANT	SIGNIFICANT	HERITAGE	S TREES	HERITAGE	PROTECTED CAL.	COMMENTS
51	1008	Cedar Elm	13	PRESERVED	REMOVED	PRESERVED	REMOVED (1:1)	PRESERVED 13	REMOVED	PRESERVED	REMOVED (3:1)	REMOVED (1:1)	INCHES EXEMPT	
62 63	1009 1007	Cedar Elm Cedar Elm	13 9					13 9						
54 55	1006 1010	Cedar Elm Cedar Elm	12 8					8	12					
56 57	1011 1012	Cedar Elm Cedar Elm	20					20 11						
58 59 70	1013 1014	Cedar Elm Cedar Elm	13 18					13 18						
70 71 72	1015 1016 1017	Cedar Elm Oak Oak	14 11 19					14 11 19						
7 <u>2</u> 73 74	1017 1018 2245	Pecan Cedar Elm	35 14					14		35				
75 76	2311 (46) 2304 (45)	Pecan Cedar Elm	15 14						15 14					
77 78	2305 2312 (47)	Cedar Elm Ligustrum	23 16					23					16	Undesirable Species, Removed
.79 .80	2313 3401	Ligustrum Chinaberry	9 7										7	Undesirable Species, Removed Undesirable Species, Removed
81 82	2314 (48) 2315 (49)	Ligustrum Pecan	11 14						14					Undesirable Species, Removed
83 84	2316 (50) 2317	Ligustrum Pecan	10 13					13					10	Undesirable Species, Removed
.85 .86 .87	2318 (51) 186 3402	Oak Pecan	21 20	<u> </u>				21 20 8						
.87 88 .89	2290 (2201) 2291 (2167)	Anaqua Oak Oak	8 16 24					8	16	24				
.90 .91	2291 (2107) 2198 2206	Cedar Elm Cedar Elm	9 14					14	9	24		3		
.92 .93	2116 2294 (2208)	Oak Oak	33					22		33		-		
.94 .95	2295 (2205) 2296 (190)	Oak Oak	13 13					13 13						
.96 .97	2297 (2195) 2298 (194)	Oak Oak	19 15	-				19 15						
.98 .99	2211 2199	Cedar Elm Oak	10 19					10	19					
200 201	2119 2298	Oak Oak	15 18					15 18						
202 203	2193 2120	Palm Palm	20 18					20 18						
204 205	2207 2169	Box Elder Palm	12 22					12 22						
206 207	2300 (2110) 2203	Oak Red Oak	17 22					17 22				1		
208 209	2430 (2202) 193	Oak Pecan	16 19						19					······································
210 211 212	2168 2144	Pecan Pecan Oak	29 16 15						16 16	29				
212 213 214	2123 2204 10021	Pecan Box Elder	18 18 10					10	18					(Multi 6-4-2-2)
215 217	2390 3019	Crepe Myrtle Oak	19 5					10 19 5				1		Outside LOW
218 219	3020 3001	Oak Oak Oak	3					3						
220 221	3000 3016	Oak Box Elder	4					4						
222 223	3015 3011	Box Elder Ligustrum	5					5 6					6	Undesirable Species, Removed
224 225	3017 3018	Hackberry Hackberry	4	4 4										
226 227	3010 3008	Black Willow Golden Raintree	8 5					5	8					
228 229	3007 3005	Hackberry Red Oak	5					5						
230 231	3006 3009	Hackberry Ligustrum	9	9									6	Undesirable Species, Removed
232	3003 3004 3002	Oak Anaqua Red Oak	3					3						· · · · · · · · · · · · · · · · · · ·
234 235 236	10427 10426	Anaqua Oak	6 8 6					6	8 6					Multi-Tunk
237 238	10425 10407	Huisache Yaupon Holly	5		5				5					Cluster
239 240	10424 10421	Mesquite Crepe Myrtle	2		2				3					
241 242	10406 10405	Yaupon Holly Elm	2						2 1					
2 43 244	10404 10403	Elm Hackberry	4		2				4					
245 246	10402 10401	Hackberry Elm	4 2		4				2					
247 248	10423 10422	Cypress Cypress	3		3									
249 250	10418 10420	Chinaberry Oak	4						4					Undesirable Species, Removed
251 252	10411 10417 10415	Chinaberry Chinaberry Pecan	2 4 4						4					Undesirable Species, Removed Undesirable Species, Removed CLUSTER
253 254 255	10415 10400 3025	Yaupon Holly Crepe Myrtle	4 5 4						4 5 4					
256 257	3023 3024	Crepe Myrtle Crepe Myrtle	5						5			<u>.</u>		
258 259	10431 1313	Pecan Pecan	28 23						23				1	Outside LOW, Not Counted Previously Removed
260 261	2364 2312	Pecan Crepe Myrtle	19 12						19 12					Previously Removed Previously Removed
262 263	2395 2395	Crepe Myrtle Crepe Myrtle	4			· · · · · · · · · · · · · · ·			4					Previously Removed Previously Removed
264 265	2395 3355	Crepe Myrtle Crepe Myrtle	8 8						8 8					Previously Removed Previously Removed
166 167	10408 10409	Mesquite Buckeye	4						4					
68 69	10410 10411	Mesquite Buckeye	4.5 2		4,5				2					Cluster
70 71	10412 10413	Hackberry Hackberry	. 4		4								1	Twin Cluster
72 73	10414 2335 2370	Hackberry Crepe Myrtle	3 6		3				6					Dood Net Co. wheel
.74 .75	2370 3026 NO TAG	Crepe Myrtle Yaupon Holly Buckeye	8 2 2				 		2				8	Dead, Not Counted
276 277 278	NO TAG NO TAG	Buckeye Buckeye Chinaberoy	2 2 4				 		2			<u>.</u>	A	Indesirable Species Demons
278 279 280	NO TAG NO TAG NO TAG	Chinaberry Yaupon Holly Anaqua	4 2 25	<u> </u>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		2	L	+			4	Undesirable Species, Removed
180 181 182	NO TAG NO TAG NO TAG	Anaqua Hackberry Willow	2.5 3 4	3				2.5				1		
282 283 284	NO TAG NO TAG	Paper Mulberry Hackberry	4 6 2	2				4 	<u></u>			4 1 1 1	6	Undesirable Species, Removed
285 286	NO TAG 3012	Hackberry Hackberry Hackberry	2	2 6									1	
.20 187 188	NO TAG	Tree of Heaven	2						L	+			2	Undesirable Species, Removed Undesirable Species, Removed
89	NO TAG	Crepe Myrtle	4					4	······	······································		***************************************		

No category to fall below 20% preservation; Preserved- Tree to remain that meets root protection zone requirements described in section 35-523 of the UDC.

*Mitigation 1:1 for significant trees below minimum preservation requirements; 3:1 for heritage trees below 100% preservation ** Small species: Condalia, Redbud, Tx. Mountain Laurel, Tx. Persimmon, Hawthorn, Possumhaw - these are mitigated at 1:1 for all small trees regardless of size within the Floodplain and heritage trees are mitigated at 1:1 ** Ashe Juniper, Huisache, Mesquite, Arizona Ash, Hackberry protected regardless of size in the Floodplain and mitigated at 1:1 for heritage trees (12" DBH)

BRACKENRIDGE PARK

SAN ANTONIO, TX

Client CITY OF SAN ANTONIO - PUBLIC WORKS DEPARTMENT (TCI) PO BOX 839966, SAN ANTONIO TX 78283-3966

Landscape Architect



712 Main Street, 6th Floor Houston, Texas77002 United States www.swagroup.com +1.713.868.1676 o

LOCAL LANDSCAPE

WORK5HOP 123 PARLAND PLACE, SUITE 100 SAN ANTONIO, TX 78209

ARCHITECT OVERLAND 203 E. JONES AVE., SUITE 104 SAN ANTONIO, TX 78215

HISTORICAL ARCHITECT

SEVENTH GENERATION DESIGN 933 NORTH FLORES STREET, SUITE B SAN ANTONIO, TX 78212

STRUCTURAL ENGINEER

SPARKS ENGINEERING, INC. 933 NORTH FLORES STREET SAN ANTONIO, TX 78212

CIVIL ENGINEER

INTELLIGENT ENGINEERING SERVICES 1045 CENTRAL PARKWAY NORTH, SUITE 200, SAN ANTONIO, TX 78232

MEP

CNG ENGINEERING 1917 N. NEW BRAUNFELS AVE., SUITE 201, SAN ANTONIO TX, 78208

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Revisions

Date

Phase

Job Number

CNOS701

Scale

Drawing Title

TREE INVENTORY

Drawing Number

L0.04

20 JANUARY 2022

TREE REMOVAL AND MITIGATION PERMIT

North

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CITY OF SAN ANTONIO - UDC V-5-35-523 Upland Tree Preservation Inventory

				SN	IALL SPEC	IES TREE	\$**		LARGE	SPECIES	TREES*			
TREE #	TAG #	SPECIES	DBH	SIGNIFICANT PRESERVED	SIGNIFICANT REMOVED	HERITAGE PRESERVED	HERITAGE REMOVED (1:1)	SIGNIFICANT PRESERVED	SIGNIFICANT REMOVED	HERITAGE PRESERVED	HERITAGE REMOVED (3:1)	HERITAGE REMOVED (1:1)	PROTECTED CAL. INCHES EXEMPT	COMMENTS
003	2248	Cedar Elm	17						17	***************************************				
005	2243	Cedar Elm	20					20						Multi-trunk
800	5113 (35113)	Cedar Elm	6					6						
010	5114 (35114)	Cedar Elm	7					7						
011	2238	Cedar Elm	12					12						
012	2251	Cedar Elm	9					9						
013	2278	Cedar Elm	12					12		• •				Multi-trunk;
014	2228	Cedar Elm	13					13						
015	2223	Oak	27							27				
050	2282	Oak	37							37				
051	1381	Oak	43							43				
052	2259	Cedar Elm	23					23						
053	1383	Cedar Elm	13					13						
054	1384	Cedar Elm	12					12						
055	2283	Cedar Elm	16					16						
056	2252	Cedar Elm	17					17						
057	2109	Cedar Elm	18					18						
062	3404	Live Oak	28							28				
		TOTALS	313	0	0	0	0	178	17	135	0	0	0	

No category to fall below 20% preservation; Preserved- Tree to remain that meets root protection zone requirements described in section 35-523 of the UDC. Mitigation 1:1 for significant trees below minimum preservation requirements; 3:1 for heritage trees below 100% preservation **Small species: Condalia, Redbud, Tx. Mountain Laurel, Tx. Persimmon, Hawthom, Possumhaw - these are mitigated at 1:1 for Heritage Trees ** Ashe Juniper, Huisache, Mesquite, Arizona Ash, Hackberry protected at 10" dbh and mitigated at 1:1 for heritage trees

CITY OF SAN ANTONIO - UDC V-5-35-523 ESA Tree Preservation Inventory

				SM	IALL SPEC	IES TREE	S**		LARGE	SPECIES	S TREES*			
TREE #	TAG #	SPECIES	OBH	SIGNIFICANT PRESERVED	SIGNIFICANT REMOVED	HERITAGE PRESERVED	HERITAGE REMOVED (1:1)	SIGNIFICANT PRESERVED	SIGNIFICANT REMOVED	HERITAGE PRESERVED	HERITAGE REMOVED (3:1)	HERITAGE REMOVED (1:1)	PROTECTED CAL. INCHES EXEMPT	
001	2218	Cedar Elm	21						21					
002	2272	Oak	42							42				
004	2241	Cedar Elm	14					14						
006	2240	Cedar Elm	12					12						
007	2275	Oak	45							45				
009	5115 (35115)	Cedar Elm	13					13						
041	2247	Qak	25								25			
042	2264	Çedar Elm	17					***************************************	17					
059	2267	Cedar Elm	17					17					17	Outside LOW, Not Counted
064	2131	Oak	24			•				24	· · ·			
065	2147	Pecan	25					25						
216	3022	Oak	5					5						
TOTALS	·	•	260	0	0	0	0	86	38	111	25	0	17	

No category to fall below 20% preservation;

*Mitigation 1:1 for significant trees below minimum preservation requirements; 3:1 for heritage trees below 100% preservation ** Small species: Condalia, Redbud, Tx. Mountain Laurel, Tx. Persimmon, Hawthom, Possumhaw - these are mitigated at 1:1 for all small trees regardless of size within the Floodplain and heritage trees are mitigated at 1:1 ** Ashe Juniper, Huisache. Mesquite. Arizona Ash, Hackberry protected regardless of size in the Floodplain and mitigated at 1:1 for heritage trees (12" DBH)

UPLAND	TREE PRESER	VATION SUMMARY	
RIO 1 OVERLAY DISTRICT			
TOTAL CAL. INCHES ON SITE:	313		
SIGNIFICANT TREES		HERITAGE TREES	
CAL. INCHES ON SITE:	195	CAL. INCHES ON SITE:	135
CAL. INCHES PRESERVED:	178	Cal. INCHES PRESERVED:	135
CAL. INCHES EXEMPT:	0	CAL. INCHES REMOVED (3:1)	0
CLASS PRESERVATION RATIO	9 1%	CAL. INCHES REMOVED (1:1)	0
REQUIRED PRESERVATION RATIO	40%	CLASS PRESERVATION RATIO	100%
CLASS PRESERVATION RATIO:	1:1	REQUIRED PRESERVATION RATIO	100%
CLASS EXCESS / MITIGATION:	-100	CLASS EXCESS / MITIGATION (3:1):	0
		CLASS EXCESS / MITIGATION (1:1):	0
		TOTAL HERITAGE EXCESS / MITIGATION:	0
		TOTAL EXCESS / MITIGATION:	-100

Preserved- Tree to remain that meets root protection zone requirements described in section 35-523 of the UDC.

				-				_		
	-									
brotected r	'eaardiess	of size in	the Floodplain	and mitio	iated at 1	: 1 tor i	ientade ti	'ees (12" DE	зн

ESA F	PRESERVATIO	ON SUMMARY	
RIO 1 OVERLAY DISTRICT			
TOTAL CAL. INCHES ON SITE:	260		
SIGNIFICANT TREES		HERITAGE TREES	
CAL INCHES ON SITE:	124	CAL. INCHES ON SITE:	136
CAL INCHES PRESERVED:	86	Cal. INCHES PRESERVED:	111
CAL INCHES EXEMPT:	17	CAL. INCHES REMOVED (3:1)	25
CLASS PRESERVATION RATIO	69%	CAL. INCHES REMOVED (1:1)	0
REQUIRED PRESERVATION RATIO	80%	CLASS PRESERVATION RATIO	82%
CLASS PRESERVATION RATIO:	1:1	REQUIRED PRESERVATION RATIO	100%
CLASS EXCESS / MITIGATION:	13	CLASS EXCESS / MITIGATION (3:1):	75
		CLASS EXCESS / MITIGATION (1:1):	0
		TOTAL HERITAGE EXCESS / MITIGATION	75
		TOTAL EXCESS / MITIGATION:	88

FLOODPLAIN TREE PRESERVATION SUMMARY RIO 1 OVERLAY DISTRICT

TOTAL CAL. INCHES ON SITE:

IGNIFICANT TREES		HERITAGE TREES	
AL. INCHES ON SITE:	2128	CAL. INCHES ON SITE:	1083
AL. INCHES PRESERVED:	969.5	Cal. INCHES PRESERVED:	779
AL. INCHES EXEMPT:	496	CAL. INCHES REMOVED (3:1)	304
ASS PRESERVATION RATIO	46%	CAL. INCHES REMOVED (1:1)	0
EQUIRED PRESERVATION RATIO	80%	CLASS PRESERVATION RATIO	72%
ASS PRESERVATION RATIO:	1:1	REQUIRED PRESERVATION RATIO	100%
ASS EXCESS / MITIGATION:	733	CLASS EXCESS / MITIGATION (3:1):	912
		CLASS EXCESS / MITIGATION (1:1):	0
		TOTAL HERITAGE EXCESS / MITIGATION:	912

3690

1645

BRACKENRIDGE PARK

SAN ANTONIO, TX

Client

CITY OF SAN ANTONIO - PUBLIC WORKS DEPARTMENT (TCI) PO BOX 839966, SAN ANTONIO TX 78283-3966

Landscape Architect



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LOCAL LANDSCAPE

WORK5HOP 123 PARLAND PLACE, SUITE 100 SAN ANTONIO, TX 78209

ARCHITECT OVERLAND 203 E. JONES AVE., SUITE 104 SAN ANTONIO, TX 78215

HISTORICAL ARCHITECT

SEVENTH GENERATION DESIGN 933 NORTH FLORES STREET, SUITE B SAN ANTONIO, TX 78212

STRUCTURAL ENGINEER

SPARKS ENGINEERING, INC. 933 NORTH FLORES STREET SAN ANTONIO, TX 78212

CIVIL ENGINEER

INTELLIGENT ENGINEERING SERVICES 1045 CENTRAL PARKWAY NORTH, SUITE 200, SAN ANTONIO, TX 78232

MEP

CNG ENGINEERING 1917 N. NEW BRAUNFELS AVE., SUITE 201, SAN ANTONIO TX, 78208

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Date Phase

CNOS701

Drawing Title

TREE INVENTORY

Drawing Number

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L0.05

Scale

20 JANUARY 2022

North

TREE REMOVAL AND MITIGATION PERMIT Job Number



TREE REMOVAL KEY				
SYMBOL	DESCRIPTION			
•	TREE TO BE PRESERVED			
	TREE TO BE REMOVED UNDER HISTORIAN OVERSIGHT; REF. NOTES			
	TREE TO BE REMOVED			
	PREVIOUSLY REMOVED TREE			

BRACKENRIDGE PARK

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HISTORICAL ARCHITECT SEVENTH GENERATION DESIGN

933 NORTH FLORES STREET, SUITE B SAN ANTONIO, TX 78212

STRUCTURAL ENGINEER

SPARKS ENGINEERING, INC. 933 NORTH FLORES STREET SAN ANTONIO, TX 78212

CIVIL ENGINEER

INTELLIGENT ENGINEERING SERVICES 1045 CENTRAL PARKWAY NORTH, SUITE 200, SAN ANTONIO, TX 78232

MEP

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1" = 20' Drawing Title TREE PROTECTION AND DEMOLITION PLAN

North

Drawing Number

TREE REMOVAL AND MITIGATION PERMIT Job Number CNOS701 Scale

0 10' 20'

Phase

L1.01

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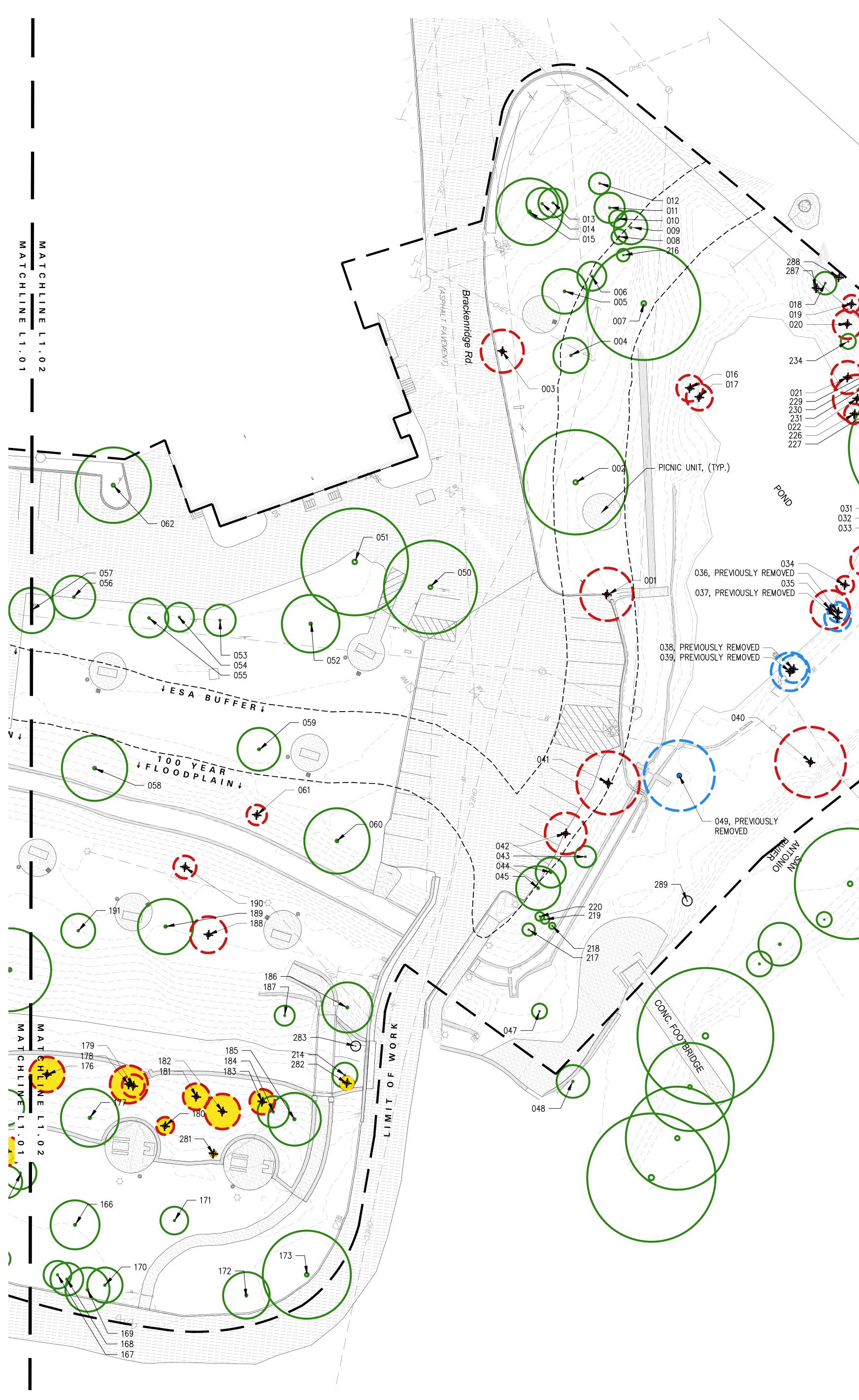
Date

20 JANUARY 2022

Revisions

01/20/2022





TREE	REMOVAL KEY
SYMBOL	DESCRIPTION
o	TREE TO BE PRESERVED
	TREE TO BE REMOVED UNDEF HISTORIAN OVERSIGHT; REF. NOTES
	TREE TO BE REMOVED

~ ~

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DI OP

222 284

TREE TO BE REMOVED UNDER HISTORIAN OVERSIGHT; REF. NOTES
TREE TO BE REMOVED
PREVIOUSLY REMOVED TREE

NOTES:

1.	"TREES TO BE REMOVED UNDER HISTORIAN OVERSIGHT" WILL
	REQUIRE A HISTORIAN (PROVIDED BY PWD EMD) TO BE
	PRESENT BEFORE REMOVAL ACTIVITIES CAN BEGIN.
2.	DO NOT STAGE EQUIPMENT ON OR NEAR HISTORIC RIVER
	WALLS OR HISTORIC STRUCTURES. EXACT DISTANCE WILL
	DEPEND ON CONDITION OF HISTORIC STRUCTURE. SUPPORT

- WILL BE PROVIDED BY THE MONITOR ON SITE. 3. IF HEAVY EQUIPMENT (SKID LOADER AND UP) IS TO BE USED NEAR A HISTORIC STRUCTURE, USE EMD APPROVED
- METHODS OF PROTECTION. CONTACT THE PWD EMD ARCHITECTURAL HISTORIAN (210-207-1454) FOR GUIDANCE. 4. NO MACHINERY SHOULD BE DRIVEN ON TOP OF THE UPPER
- LABOR DAM. 5. TREES ARE TO BE REMOVED TO GRADE AND STUMPS ARE
- TO REMAIN. 6. NO SOIL IS TO BE DISTURBED AS PART OF TREE REMOVAL.

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				_
Date 20 JANUA Phase TREE REM Job Numb CNOS701	10VAL A		GATION	I PERMIT
Scale 0 10' 1" = 20'	20'		orth	-
Drawing T TREE PRO DEMOLITI	TECTION			-
Drawing N		2		-



Stamp

MEP CNG ENGINEERING 1917 N. NEW BRAUNFELS AVE., SUITE 201, SAN ANTONIO TX, 78208

INTELLIGENT ENGINEERING SERVICES

SUITE 200, SAN ANTONIO, TX 78232

1045 CENTRAL PARKWAY NORTH,

SPARKS ENGINEERING, INC. 933 NORTH FLORES STREET SAN ANTONIO, TX 78212

CIVIL ENGINEER

STRUCTURAL ENGINEER

SAN ANTONIO, TX 78212

SEVENTH GENERATION DESIGN 933 NORTH FLORES STREET, SUITE B

SAN ANTONIO, TX 78215 HISTORICAL ARCHITECT

WORK5HOP 123 PARLAND PLACE, SUITE 100 SAN ANTONIO, TX 78209

ARCHITECT **OVERLAND** 203 E. JONES AVE., SUITE 104

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Client

Landscape Architect

LOCAL LANDSCAPE

SAN ANTONIO, TX

BRACKENRIDGE PARK

CITY OF SAN ANTONIO - PUBLIC WORKS DEPARTMENT (TCI) PO BOX 839966, SAN ANTONIO TX 78283-3966



001 CEDAR ELM | 21 TAG #2218 PRESERVED



008 CEDAR ELM | 6 TAG **#**5113 PRESERVED



015 OAK | 27 TAG #2223 PRESERVED







002 OAK | 42 TAG #2272

PRESËRVED



009 CEDAR ELM | 13 TAG #5115 PRESERVED



016 WILLOW | 11 TAG #2238 PRESERVED



023 ASH | 8 TAG #2233 PRESERVED



003





017 WILLOW | 11 TAG #2262 REMOVED



024 OAK | 54 TAG #2253 PRESERVED







CEDAR ELM | 14 TAG #2241 PRESËRVED

011 CEDAR ELM | 12 TAG #2238 PRESERVED



018 0AK | 8 TAG #2233 PRESERVED



025 TEXAS MOUNTAIN LAUREL TAG #2222 PRESERVED



005 CEDAR ELM | 20 TAG #2243 PRESERVED



012 CEDAR ELM | 9 TAG #2251 PRESERVED



O19 CHINABERRY | 7 TAG #2232 INVASIVE; REMOVED



026 OAK | 18 TAG #5135 PRESERVED



006 CEDAR ELM | 12 TAG #2240 PRESËRVED



013 CEDAR ELM | 12 TAG #2278 PRESERVED



020 HACKBERRY | 12 TAG #2224 INVASIVE; REMOVED



027 TEXAS MOUNTAIN LAUREL | 3 TAG #2216 PRESERVED



007 LIVE OAK | 45 TAG #2275 PRESERVED



014 CEDAR ELM | 13 TAG #2278 PRESERVED



021 WILLOW | 19 TAG #2260 REMOVED



028 TEXAS MOUNTAIN LAUREL | 3 TAG #2216 PRESERVED

BRACKENRIDGE PARK

SAN ANTONIO, TX

Client

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Landscape Architect



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CIVIL ENGINEER

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MEP

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01/20/2022

Revisions



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NOT TO SCALE

Drawing Title

TREE SURVEY

Drawing Number

Date 20 JANUARY 2022 Phase TREE REMOVAL AND	MITIGATION	PERMI
Job Number CNOS701		
Scale	North	



029

NO PHOTO; PREVIOUSLY REMOVED



030 CEDAR ELM | 34 TAG #2254 PRESERVED

NO PHOTO; PREVIOUSLY REMOVED

036

WILLOW | 8 TAG #2227 REMOVED; PREVIOUSLY REMOVED



043 CEDAR ELM | 17 TAG #2217 PRESERVED



052 CEDAR ELM |23 TAG #2259 PRESERVED

037 WILLOW | 11 TAG #2284 REMOVED; PREVIOUSLY REMOVED







053 CEDAR ELM | 13 TAG #1383 PRESERVED



O31 OAK | 15 TAG #2236 REMOVED

038 ASH | 11 TAG #2274 REMOVED; PREVIOUSLY REMOVED



045 CEDAR ELM | 18 TAG #2266 PRESERVED



054 CEDAR ELM | 12 TAG #1384 PRESERVED



O32 CEDAR ELM | 12 TAG #2220 REMOVED

NO PHOTO; PREVIOUSLY REMOVED

NO PHOTO; PREVIOUSLY REMOVED

039 WILLOW | 16

TAG #2225 REMOVED; PREVIOUSLY REMOVED



047 BALD CYPRESS | 6 TAG #6711 PRESERVED



055 CEDAR ELM | 16 TAG #2283 PRESERVED



O33 WILLOW | 12 TAG #2242 REMOVED



040 WILLOW | 28 TAG #7125 REMOVED



048 WILLOW | 13 TAG #6710 PRESERVED; OUTSIDE LOW



056 CEDAR ELM | 17 TAG #2252 PRESERVED



034 WILLOW | 7 TAG #2256 REMOVED









050 0AK | 37 TAG #2249 PRESERVED



057 CEDAR ELM | 18 TAG #2109 PRESERVED



035 WILLOW | 16 TAG #2257 REMOVED



O42 CEDAR ELM | 17 TAG #2264 PRESERVED



051 OAK | 43 TAG #1381 PRESERVED



BRACKENRIDGE PARK

SAN ANTONIO, TX

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HISTORICAL ARCHITECT

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STRUCTURAL ENGINEEF

SPARKS ENGINEERING, INC. 933 NORTH FLORES STREET SAN ANTONIO, TX 78212

CIVIL ENGINEER

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Date

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Drawing Number

20 JANUARY 2022		
Phase		
TREE REMOVAL AND	MITIGATION	PER
Job Number		
CNOS701		
Scale	North	
NOT TO SCALE		_
Drawing Title		
TREE SURVEY		



058 OAK | 26 TAG #2285 PRESERVED



065 PECAN | 25 TAG #2147 PRESERVED



072 0AK | 18 TAG #3027 PRESERVED



O79 CREPE MYRTLE | 14 TAG #10430 REMOVED



059 CEDAR ELM | 17 TAG #2267 PRESERVED



066 PECAN | 29 TAG #2111 PRESERVED



073 0AK | 12 TAG #3028 PRESERVED



O80 CREPE MYRTLE | 17 TAG #2379 REMOVED



060 CEDAR ELM | 26 TAG #2268 PRESERVED



O67 CEDAR ELM | 14 TAG #2200 REMOVED



O74 CEDAR ELM | 15 TAG #2138 REMOVED



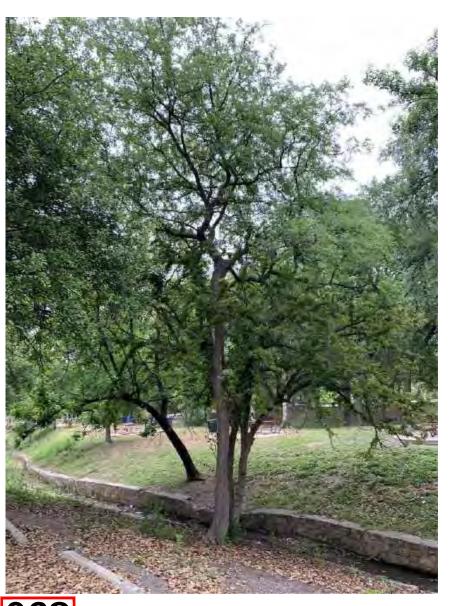
081 CREPE MYRTLE | 11 TAG #2369 REMOVED







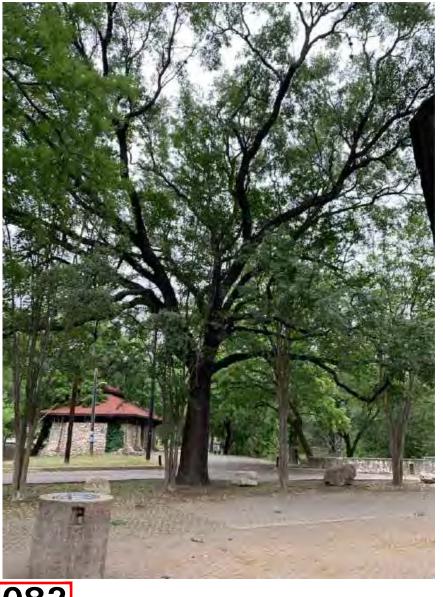
061 BLACK OAK | 8 CITY TAG 3403 REMOVED



O68 CEDAR ELM | 10 TAG #2350 REMOVED



075 OAK | 18 TAG #2209 REMOVED



082 CREPE MYRTLE | 11 TAG #2349 REMOVED



062 TREE SPECIES | SIZE CONDITION CITY TAG #



069 ANAQUA | 28 TAG #2377 REMOVED



076 HACKBERRY | 5 TAG #10132 PRESERVED



083 OAK | 39 TAG #2303 PRESERVED



063 ANAQUA | 28 TAG #2285 PRESERVED



070 CEDAR ELM | 9 TAG #2122 PRESERVED



O77 CREPE MYRTLE | 17 TAG #2304 REMOVED



084 CREPE MYRTLE | 10 TAG #2321 REMOVED



064 OAK | 24 TAG #2131 PRESERVED



071 CEDAR ELM | 13 TAG #2194 PRESERVED



078 CREPE MYRTLE | 22 TAG #2357 REMOVED



O85 CREPE MYRTLE | 15 TAG #2323 REMOVED





BRACKENRIDGE PARK

SAN ANTONIO, TX

Client

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Landscape Architect



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LOCAL LANDSCAPE

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ARCHITECT OVERLAND 203 E. JONES AVE., SUITE 104 SAN ANTONIO, TX 78215

HISTORICAL ARCHITECT

SEVENTH GENERATION DESIGN 933 NORTH FLORES STREET, SUITE B SAN ANTONIO, TX 78212

STRUCTURAL ENGINEER

SPARKS ENGINEERING, INC. 933 NORTH FLORES STREET SAN ANTONIO, TX 78212

CIVIL ENGINEER

INTELLIGENT ENGINEERING SERVICES 1045 CENTRAL PARKWAY NORTH, SUITE 200, SAN ANTONIO, TX 78232

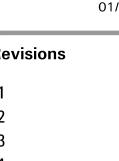
MEP

CNG ENGINEERING 1917 N. NEW BRAUNFELS AVE., SUITE 201, SAN ANTONIO TX, 78208

HED LANDSCADE	tamp		
HILL BAUMG	Ŕ	LANDSC40	
	EGISTE	WK. CP	8
× 3 × 8 80 × 2700	A B X		



Revisions



Date 20 JANUARY 2022 Phase TREE REMOVAL AND MITIGATION PERMIT Job Number CNOS701 Scale NOT TO SCALE Drawing Title

TREE SURVEY

Drawing Number



086 BALD CYPRESS | 27 TAG #6000 PRESERVED; OUTSIDE LOW



093 BALD CYPRESS | 19 TAG #2234 REMOVED; DEAD (NOT COUNTED)



100 OAK | 37 TAG #6006 REMOVED







087 BALD CYPRESS | 21 TAG #6001 PRESERVED; OUTSIDE LOW



094 CHINESE TALLOW | 12 TAG #2339 REMOVED; INVASIVE SPECIES (NOT COUNTED)





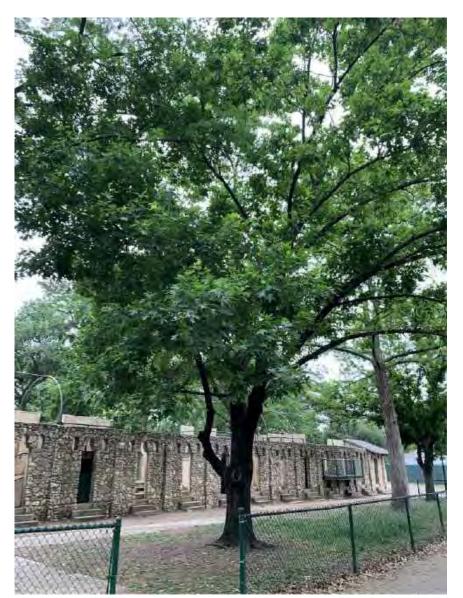


108 PECAN | 22 TAG #2392 REMOVED





109 CREPE MYRTLE | 10 TAG #225 REMOVED



088 OAK | 23 TAG #6002 PRESERVED; OUTSIDE LOW



095 OAK | 32 TAG #2334 REMOVED







089 BALD CYPRESS | 17 TAG #6003 PRESERVED, OUTSIDE LOW



096 OAK | 34 TAG #2338 PRESERVED



103 BALD CYPRESS | 20 TAG #2328 PRESERVED; OUTSIDE LOW



111 YAUPON | 3 TAG #3026 REMOVED



090 OAK | 25 TAG #6004 PRESERVED; OUTSIDE LOW



097 OAK | 18 TAG #2364 PRESERVED



104 PECAN | 8 TAG #6007 REMOVED



112 CREPE MYRTLE | 16 TAG #2372 REMOVED



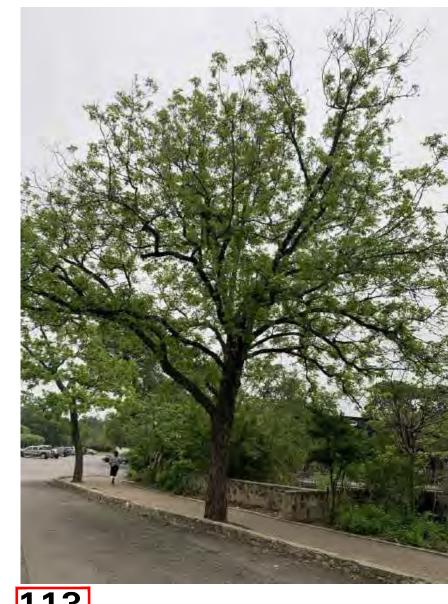
091 CREPE MYRTLE | 9 TAG #3029 PRESERVED, OUTSIDE LOW



098 OAK | 22 TAG #2310 PRESERVED



105 0AK | 33 TAG #2366 PRESERVED

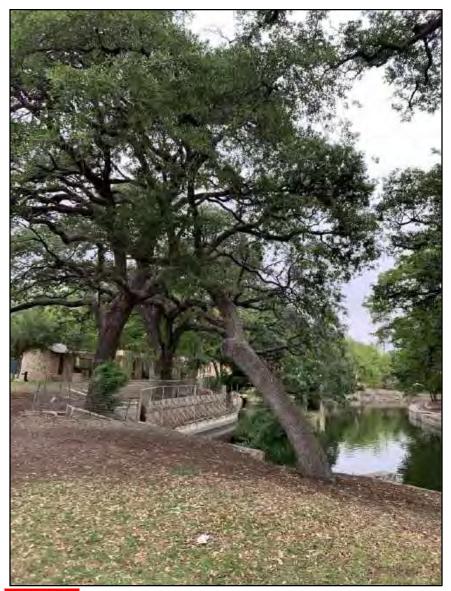


113 PECAN | 20 TAG #2375 REMOVED



092

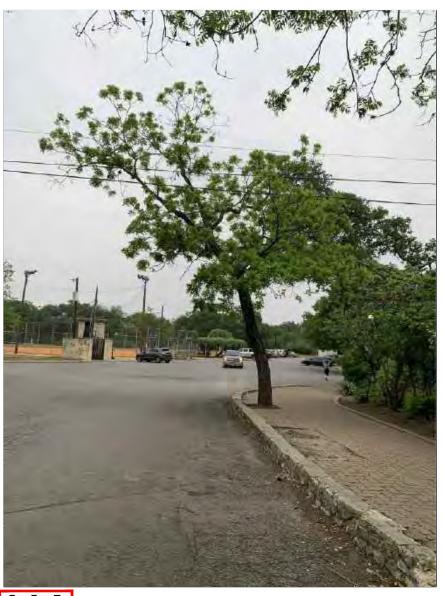
OAK | 7 TAG #2229 PRESERVED; OUTSIDE LOW



099 OAK | 16 TAG #2335 PRESERVED



106 CYPRESS | 23 TAG #2358 REMOVED



114 CEDAR ELM | 23 TAG #2345 REMOVED









BRACKENRIDGE PARK

SAN ANTONIO, TX

Client

CITY OF SAN ANTONIO - PUBLIC WORKS DEPARTMENT (TCI) PO BOX 839966, SAN ANTONIO TX 78283-3966

Landscape Architect



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LOCAL LANDSCAPE

WORK5HOP 123 PARLAND PLACE, SUITE 100 SAN ANTONIO, TX 78209

ARCHITECT **OVERLAND** 203 E. JONES AVE., SUITE 104 SAN ANTONIO, TX 78215

HISTORICAL ARCHITECT

SEVENTH GENERATION DESIGN 933 NORTH FLORES STREET, SUITE B SAN ANTONIO, TX 78212

STRUCTURAL ENGINEEF

SPARKS ENGINEERING, INC. 933 NORTH FLORES STREET SAN ANTONIO, TX 78212

CIVIL ENGINEER

INTELLIGENT ENGINEERING SERVICES 1045 CENTRAL PARKWAY NORTH, SUITE 200, SAN ANTONIO, TX 78232

MEP

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115 CEDAR ELM | 23 TAG #2345 PRESERVED



122 PECAN | 22 TAG #2383 REMOVED



129 BALD CYPRESS | 43 TAG #2226 PRESERVED; OUTSIDE LOW



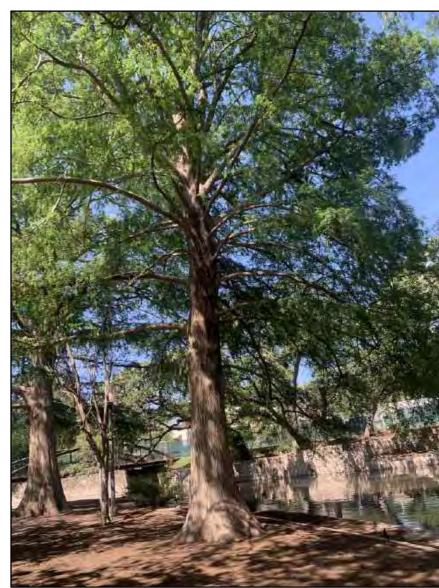
136 OAK | 20 TAG #6010 REMOVED



116 PECAN | 25 TAG #2359 PRESERVED; OUTSIDE LOW



123 CYPRESS | 40 TAG #2342 PRESERVED; OUTSIDE LOW

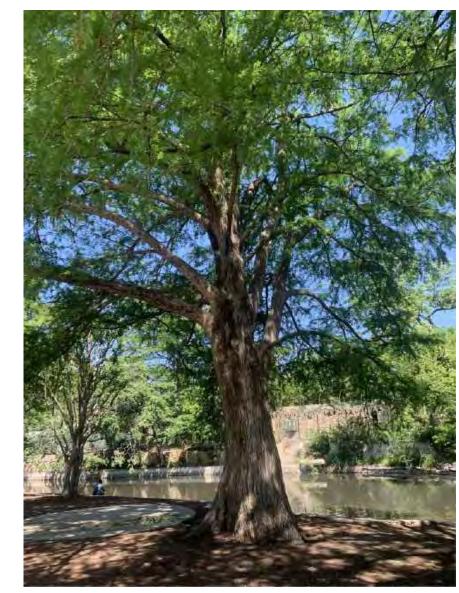


130 BALD CYPRESS | 37 TAG #2337 PRESERVED; OUTSIDE LOW



137 CEDAR ELM | 17 TAG #6011 REMOVED

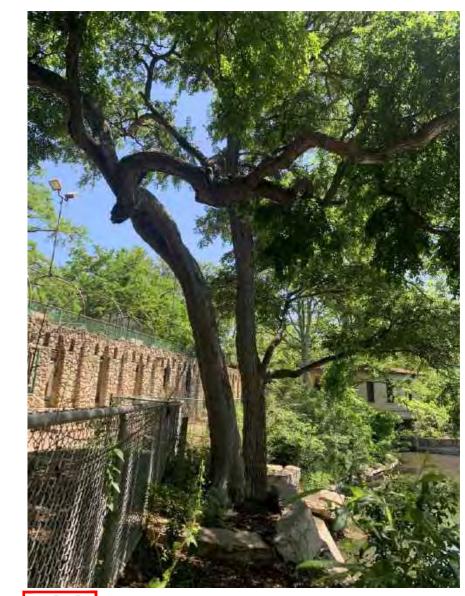




124 BALD CYPRESS | 46 TAG #2388 PRESERVED; OUTSIDE LOW



131 HACKBERRY | 25 TAG #2315 REMOVED



138 CEDAR ELM | 16 TAG #6012 REMOVED



118 CREPE MYRTLE | 27 TAG #2387 PRESERVED; OUTSIDE LOW



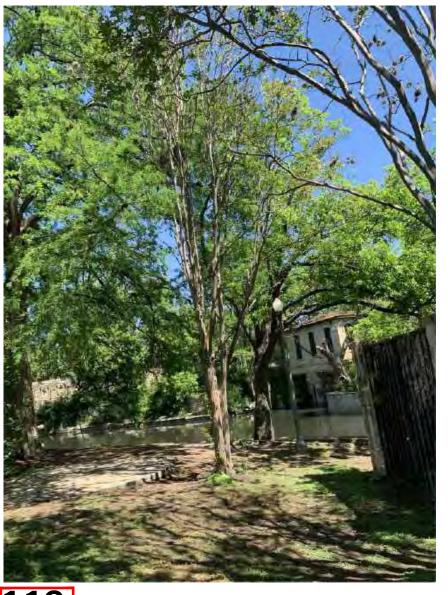
125 CREPE MYRTLE | 27 TAG #2343 REMOVED



132 CREPE MYRTLE | 17 TAG #2400 REMOVED



139 PECAN | 26 TAG #2385 REMOVED



119 CREPE MYRTLE | 15 TAG #2311 REMOVED



126 BALD CYPRESS | 38 TAG #2398 PRESERVED; OUTSIDE LOW



133 BALD CYPRESS | 53 TAG #2320 PRESERVED; OUTSIDE LOW



140 PECAN | 24 TAG #2385 REMOVED



120 CREPE MYRTLE | 23 TAG #2344 PRESERVED; OUTSIDE LOW



127 CREPE MYRTLE | 9 TAG #2378 REMOVED



134 OAK | 16 TAG #6008 REMO^WED



141 BALD CYPRESS | 27 TAG #2354 REMOVED



121 CREPE MYRTLE | 25 TAG #2371 PRESERVED; OUTSIDE LOW



128 CREPE MYRTLE | 22 TAG #2336 REMOVED



135 OAK | 15 TAG #6009 REMOVED



142 PECAN | 20 TAG #2316 REMOVED; DEAD (NOT COUNTED)





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Drawing Title

TREE SURVEY

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Phase

20 JANUARY 2022

TREE REMOVAL AND MITIGATION PERMIT



143 CEDAR ELM | 12 TAG #2318 REMOVED



150 PECAN | 12 TAG #2426 PRESERVED



157 CEDAR ELM | 25 TAG #1002 PRESERVED



164 CEDAR ELM | 12 TAG #1006 REMOVED



144 EVE'S NECKLACE | 8 TAG #2373 REMOVED



151 OAK | 20 TAG #2425 PRESERVED



158 CEDAR ELM | 20 TAG #1003 PRESERVED



165 CEDAR ELM | 8 TAG #1010 PRESERVED



152



159 CEDAR ELM | 11 TAG #1005 PRESERVED



166 cedar elm | 20 tag #1011 preserved





HUIISACHE | 13 TAG #2134 REMOVED













160 CEDAR ELM | 18 TAG #1004 PRESERVED



167 CEDAR ELM | 11 TAG #1012 PRESERVED



147 PECAN | 28 TAG #2426 PRESERVED



154 PECAN | 16' TAG #2039 REMOVED



161 CEDAR ELM | 13 TAG #1007 PRESERVED



168 CEDAR ELM | 13 TAG #1013 PRESERVED



148 tree species | size Condition CITY TAG #



155 OAK | 37 TAG #2307 PRESERVED



162 CEDAR ELM | 13 TAG #1009 PRESERVED



169 CEDAR ELM | 18 TAG #1014 PRESERVED



149

ASH | 7 TAG #3030 PRESERVED



156 CEDAR ELM | 19 TAG #1001 REMOVED



163 CEDAR ELM | 9 TAG #1007



170 CEDAR ELM | 14 TAG #1015 PRESERVED







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TREE SURVEY

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171 0AK | 11 TAG #1016 PRESERVED



178 LIGUSTRUM | 16 TAG #2312 REMOVED



185 OAK | 21 TAG #2318 PRESERVED



192 OAK | 33 TAG #2116 PRESERVED



172 OAK | 19 TAG #1017



179 LIGUSTRUM | 16 TAG #2313 REMOVED



186 PECAN | 20 TAG #186 PRESERVED



193 OAK | 22 TAG #2294 PRESERVEWD





180 CHINABERRY | 7 TAG #3401 REMOVED



187 ANAQUA | 8 TAG #3402 PRESERVED



194 OAK | 13 TAG #2295 PRESERVED



CEDAR ELM | 14 TAG #2306 PRESERVED



195 OAK | 13 TAG #2296 PRESERVED



181 LIGUSTRUM | 11 TAG #2314 REMOVED



188 OAK | 16 TAG #2290 REMOVED





175 PECAN | 15 TAG #2311 REMOVED



182 PECAN | 14 TAG #2315 REMOVED



189 TREE SPECIES | SIZE CONDITION CITY TAG #



196 OAK | 19 TAG #2297 PRESERVED



176 CEDAR ELM | 14 TAG #2304 REMOVED











197 OAK | 15 TAG #2298 PRESERVED



177 CEDAR ELM | 17 TAG #2305 PRESERVED



184 PECAN | 13 TAG #2317 PRESERVED



191 CEDAR ELM | 14 TAG #2206 PRESERVED



198 CEDAR | 10 TAG #2211 PRESERVED



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199 OAK | 19 TAG #2199 REMOVED



206 OAK | 17 TAG #2300 PRESERVED



213 PECAN | 18 TAG #2204 REMOVED







200 OAK | 15 TAG #2301 PRESERVED



207 OAK | 22 TAG #2203 PRESERVED



214 BOX ELDER | 10 TAG #10021 PRESERVED



221 BOX ELDER | 5 TAG #3016 PRESERVED





208 OAK | 16 TAG #2430 PRESERVED



215 CREPE MYRTLE | 19 TAG #2390 PRESERVED; OUTSIDE LOW



222 BOX ELDER | 5 TAG #3015 PRESERVED



PALM | 20 TAG #2193 PRESERVED







209 PECAN | 19 TAG #193 REMOVED



216 0AK | 5 TAG #3022 PRESERVED



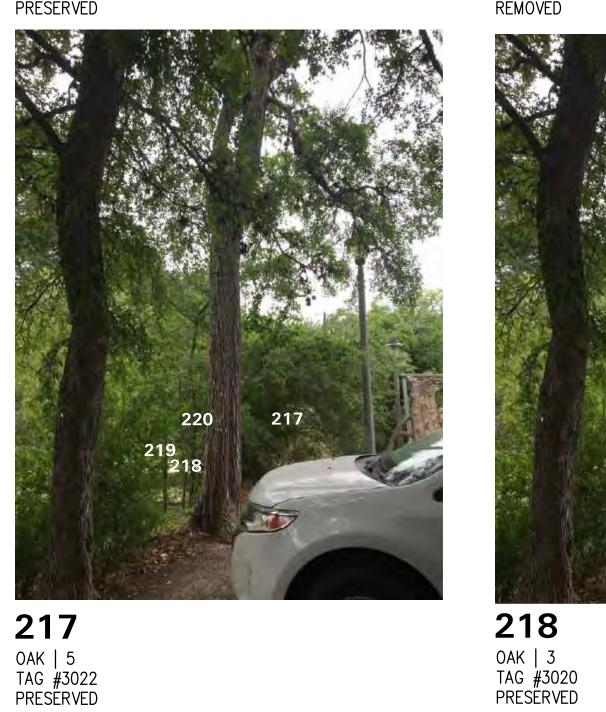
223 LIGUSTRUM | 6 TAG #3011 REMOVED; UNDESIRABLE SPECIES (NOT COUNTED)



203 PALM | 18 TAG #2120 PRESERVED



210 PECAN | 29 TAG #2168 PRESERVED







224 HACKBERRY | 4 TAG #3017 PRESERVED



204 BOX ELDER | 12 TAG #2207 PRESERVED



211 PECAN | 16 TAG #2144 REMOVED





225 HACKBERRY | 4 TAG #3018 PRESERVED



205 PALM | 22 TAG #2169 PRESERVED











226 BLACK WILLOW | 8 TAG #3010 REMOVED



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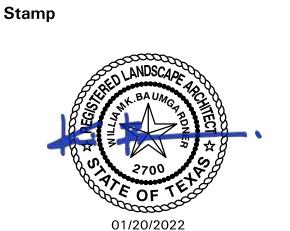
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GOLDEN RAINTREE | 5 TAG #3010 PRESERVED



234 OAK | 4 TAG #3000 PRESERVED



241 YAUPON HOLLY | 2 TAG #10406 REMOVED



247 CYPRESS | 3 TAG #10422 REMOVED



228 HACKBERRY | 5 TAG #3007 PRESERVED



235 ANAQUA | 8 TAG #10427 REMOVED



242 ELM | 1 TAG #10405 REMOVED



248 HACKBERRY | 3 TAG #10422 REMOVED



229 RED OAK | 5 TAG #3005 PRESERVED



236 OAK | 6 TAG #10426 REMOVED



243 ELM | 4 TAG #10405 REMOVED



249 CHINABERRY | 4 TAG #10418 REMOVED



HACKBERRY | 9 TAG #3006 PRESERVED









244 HACKBERRY | 2 TAG #10403 REMOVED



250 OAK | 4 TAG #10420 REMOVED



231 LIGUSTRUM | 6 TAG #3009 PRESERVED



238 YAUPON | 5 TAG #3017 REMOVED



245 HACKBERRY | 4 TAG #10402 REMOVED



251 HACKBERRY | 2 TAG #10411 REMOVED



232 OAK | 3 TAG #3003 PRESERVED







246 ELM | 2 TAG #10401 REMOVED



252 HACKBERRY | 4 TAG #10417 PRESERVED



233 ANAQUA | 3 TAG #3004 PRESERVED



240 CREPE MYRTLE | 3 TAG #10421 REMOVED



247 CYPRESS | 3 TAG #10423 REMOVED



253 PECAN | 4 TAG #10415 REMOVED

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SAN ANTONIO, TX

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Landscape Architect



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LOCAL LANDSCAPE

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ARCHITECT **OVERLAND** 203 E. JONES AVE., SUITE 104 SAN ANTONIO, TX 78215

HISTORICAL ARCHITECT

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STRUCTURAL ENGINEER

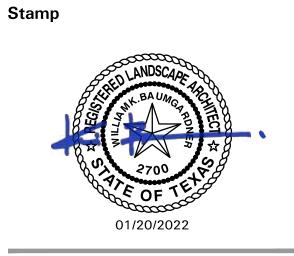
SPARKS ENGINEERING, INC. 933 NORTH FLORES STREET SAN ANTONIO, TX 78212

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TREE SURVEY

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254 YAUPON HOLLY | 5 TAG #10400 REMOVED



255 CREPE MYRTLE | 4 TAG #3025 REMOVED



MESQUITE | 4.5 TAG #10410 REMOVED



YAUPON | NO TAG REMOVED



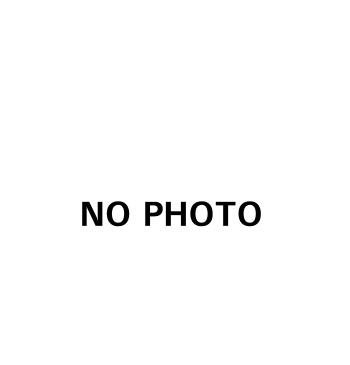
282 WILLOW | 4 NO TAG PRESERVED



269 BUCKEYE | 2 TAG #10411 REMOVED



276 BUCKEYE | NO TAG REMOVED



283 PAPER MULBERRY | 6 NO TAG REMOVED; INVASIVE



256 BUCKEYE | 5 TAG #3005 REMOVED



270 HACKBERRY | 4 TAG #10412 REMOVED



277 BUCKEYE NO TAG REMOVED

284 HACKBERRY | 2 NO TAG PRESERVED



257 HACKBERRY | 9 TAG #3006 REMOVED

271

HACKBERRY | 8

TAG #10413 REMOVED



258 PECAN | 28 TAG #10431 PRESERVED, OUTSIDE LOW



272 HACKBERRY | 3 TAG #10414 REMOVED





278 CHINABERRY | 4 NO TAG REMOVED



279 YAUPON HOLLY | 2 NO TAG PRESERVED

ΝΟ ΡΗΟΤΟ

ΝΟ ΡΗΟΤΟ

285 HACKBERRY | 2 NO TAG PRESERVED

ΝΟ ΡΗΟΤΟ

286 HACKBERRY | 6 NO TAG PRESERVED





266 MESQUITE | 4 TAG #10408 REMOVED



267 BUCKEYE TAG #10409 REMOVED



273 CREPE MYRTLE | 6 TAG #2335 REMOVED



274 CREPE MYRTLE | 8 TAG #2370 REMOVED; DEAD



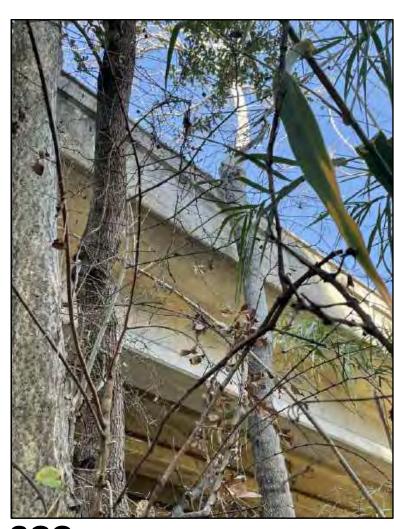
ANAQUA | 2.5 NO TAG PRESERVED



HACKBERRY | 3 NO TAG PRESERVED







288 TREE OF HEAVEN | 2 NO TAG REMOVED

ΝΟ ΡΗΟΤΟ

289 CREPE MYRTLE | 2 NO TAG PRESERVED

BRACKENRIDGE PARK

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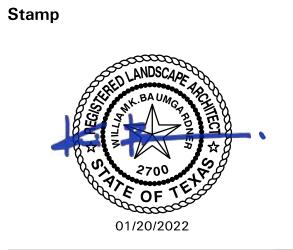
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TREE SURVEY

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