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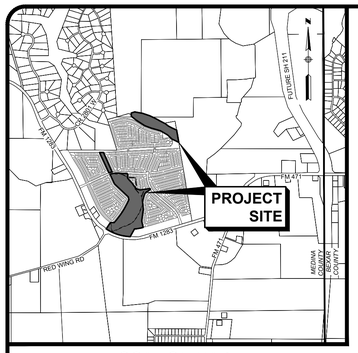
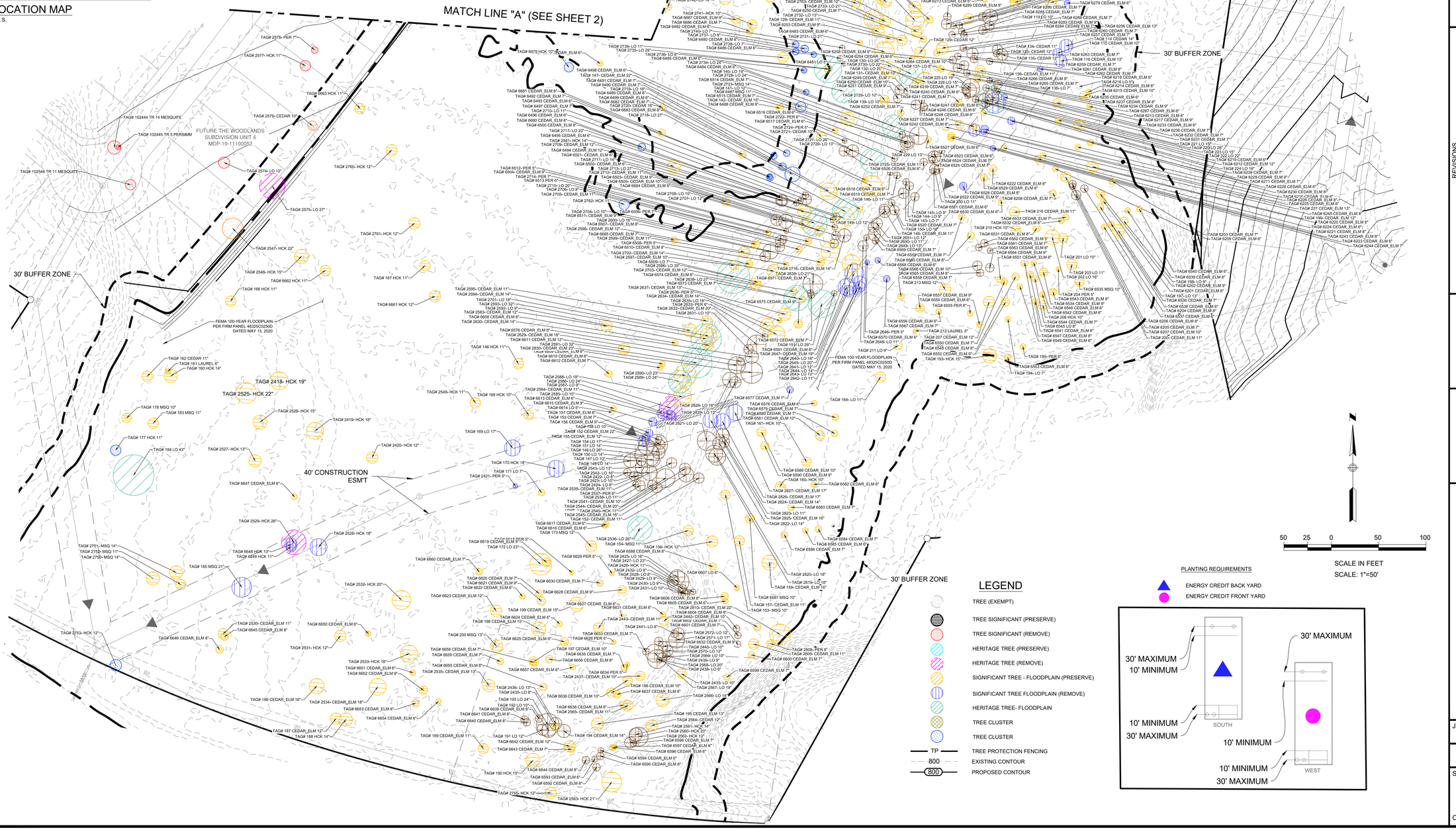


LOCATION MAP
N.T.S.

INDEX MAP
N.T.S.



LEGEND

- TREE (EXEMPT)
- TREE SIGNIFICANT (PRESERVE)
- TREE SIGNIFICANT (REMOVE)
- HERITAGE TREE (PRESERVE)
- HERITAGE TREE (REMOVE)
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- SIGNIFICANT TREE FLOODPLAIN (REMOVE)
- HERITAGE TREE- FLOODPLAIN
- TREE CLUSTER
- TREE CLUSTER
- TP — TREE PROTECTION FENCING
- 800 — EXISTING CONTOUR
- (800) — PROPOSED CONTOUR

50 25 0 50 100

SCALE IN FEET

SCALE: 1"=50'

PLANTING REQUIREMENTS

- ENERGY CREDIT BACK YARD
- ENERGY CREDIT FRONT YARD

THE WOODLANDS AT MEDINA HILLS

TREE PRESERVATION PLAN
(SHEET 1 OF 6)

NO.	REVISIONS DESCRIPTION	BY	DATE

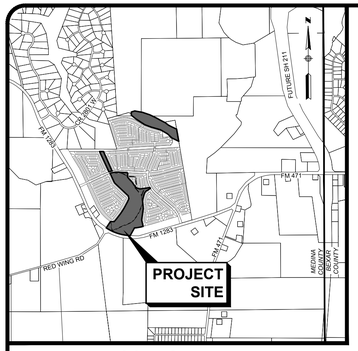
DATE: 3/6/2023
DESIGNED BY: JD
DRAWN BY: JD
CHECKED BY: JG
DRAWING NAME: 1ab_Tree Preservation (Floodplain).dwg

LJA Engineering, Inc.
1100 NE Loop 410
Suite 650
San Antonio, Texas 78209
Phone 210.503.2700
Fax 210.503.2749
TBPE No. F-1386

JOB NUMBER:
SA190-0401A-426

SHEET NO.
1
OF 16 SHEETS

K:\SA190 Lucro Terra, LLC\0401A Woodlands at Medina Hills Subd_PV\426 Site Development Plans\DWG-Sheets\ph_Tree Preservation (Floodplain).dwg
User: rbremser
Last Modified: Mar 06, 23 - 10:00
Plot Date/Time: Mar 06, 23 - 10:00:00



LOCATION MAP
N.T.S.

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N.T.S.

50 25 0 50 100
SCALE IN FEET
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PLANTING REQUIREMENTS

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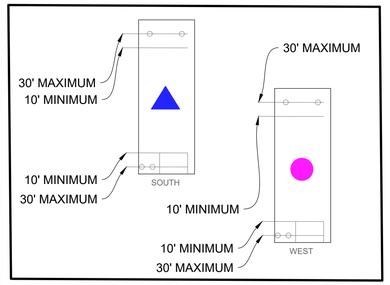
ENERGY CREDIT FRONT YARD



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- TREE SIGNIFICANT (REMOVE)
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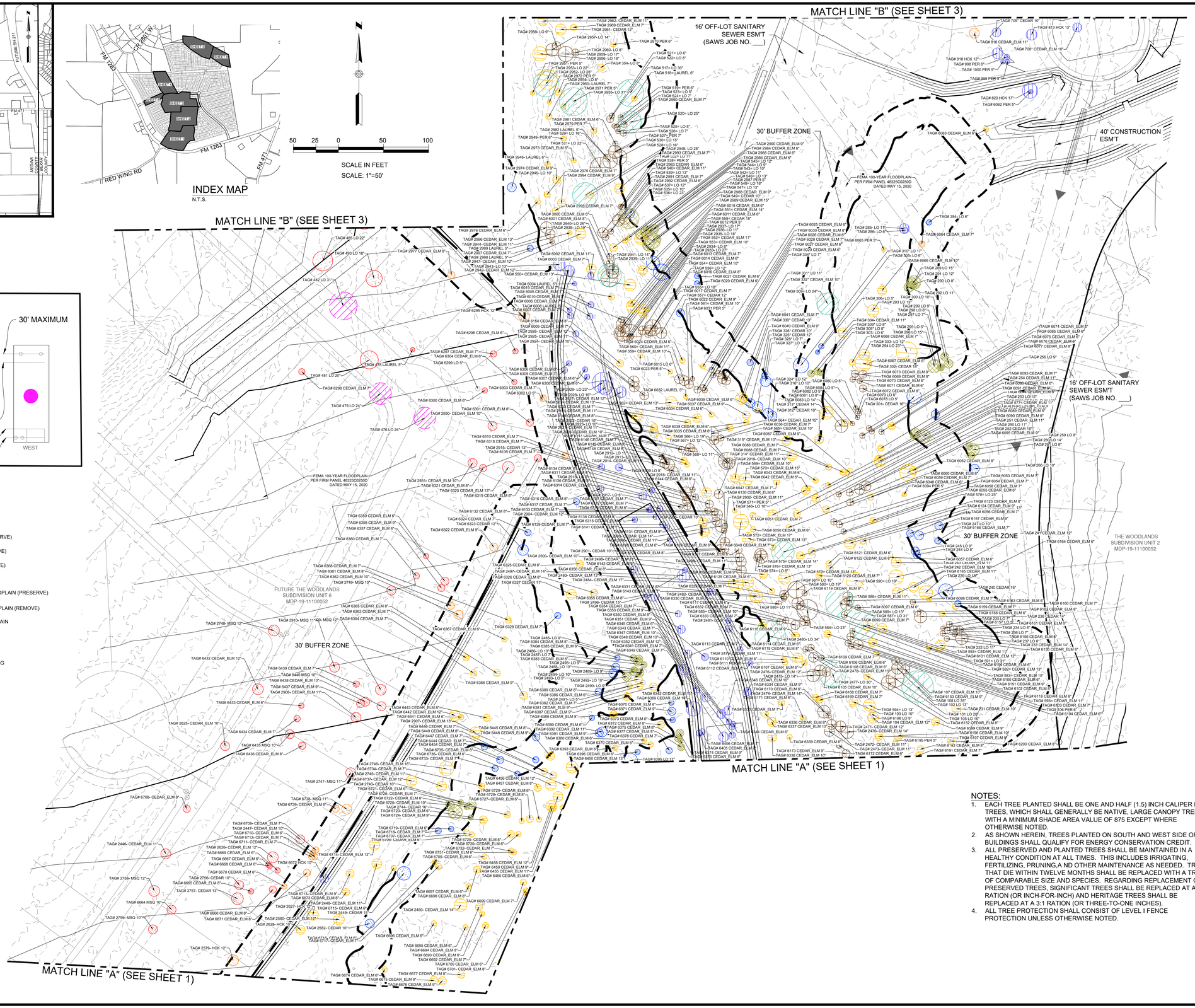

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THE WOODLANDS AT MEDINA HILLS

TREE PRESERVATION PLAN
(SHEET 2 OF 6)

NO.	REVISIONS DESCRIPTION	BY	DATE

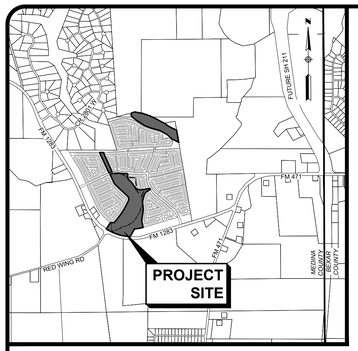
DATE: 3/6/2023
DESIGNED BY: JD
DRAWN BY: JD
CHECKED BY: JG
DRAWING NAME: sh. Tree Preservation (Floodplain).dwg

LJA Engineering, Inc.
1100 NE Loop 410
Suite 650
San Antonio, Texas 78209
Phone 210.503.2100
Fax 210.503.2749
TBPE No. F-1386

JOB NUMBER: SA190-0401A-426

SHEET NO. 2 OF 16 SHEETS

K:\SA190 Lucre Terra LLC\0401A Woodlands at Medina Hills Subd.P\426 Site Development Plans\DWG-Sheets\sh.Tree Preservation (Floodplain).dwg
User: nbremser
Last Modified: Mar 06, 23 - 10:00
Plot Date/Time: Mar 06, 23 - 10:03:29



LOCATION MAP
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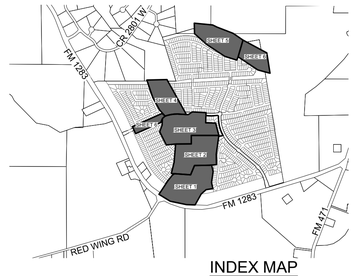
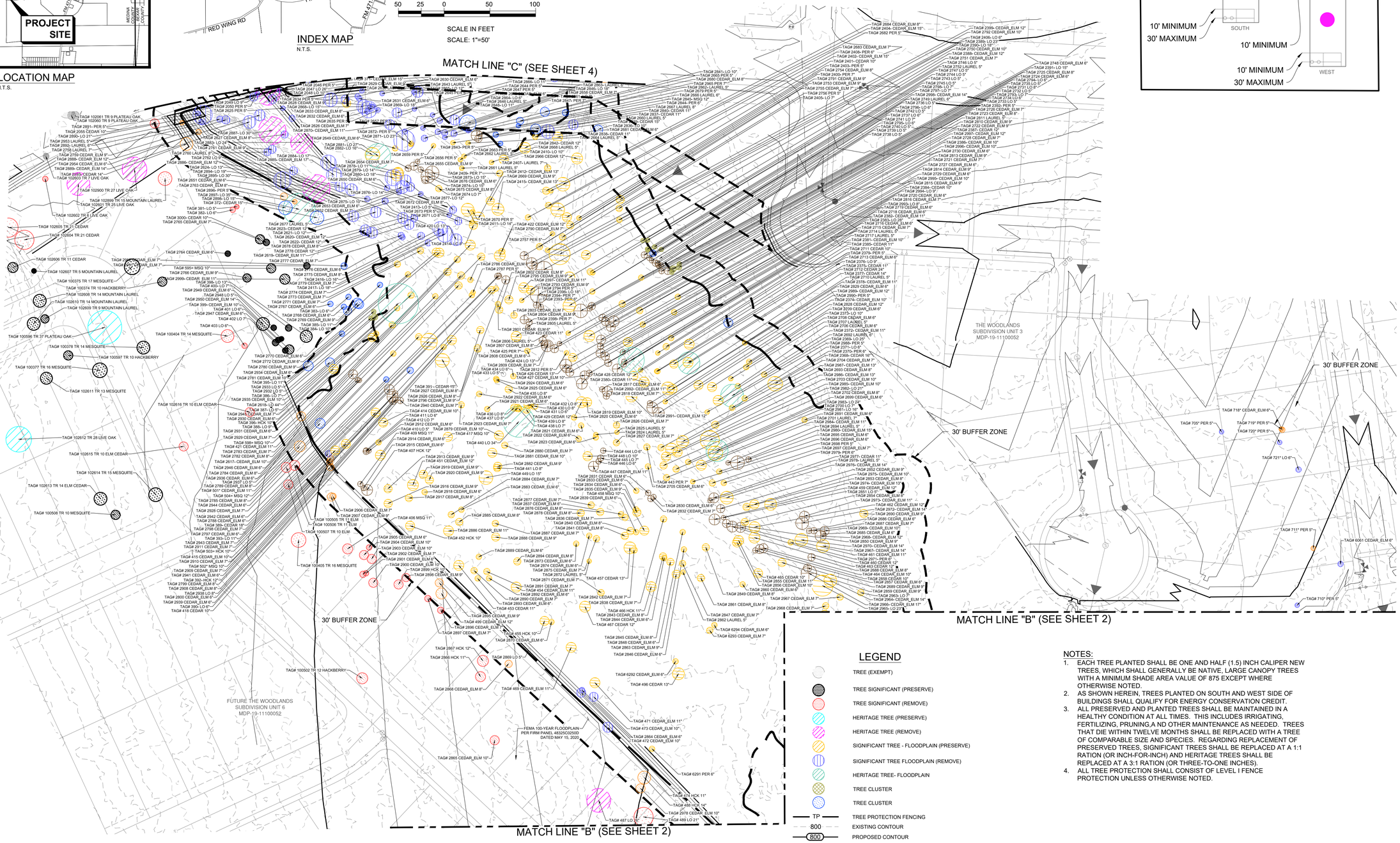


INDEX MAP
N.T.S.

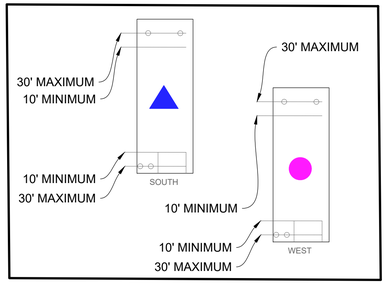
50 25 0 50 100
SCALE IN FEET
SCALE: 1"=50'



PLANTING REQUIREMENTS

ENERGY CREDIT BACK YARD

ENERGY CREDIT FRONT YARD



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- TREE SIGNIFICANT (PRESERVE)
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THE WOODLANDS AT MEDINA HILLS

TREE PRESERVATON PLAN (SHEET 3 OF 6)

NO.	DESCRIPTION	BY	DATE

REVISIONS

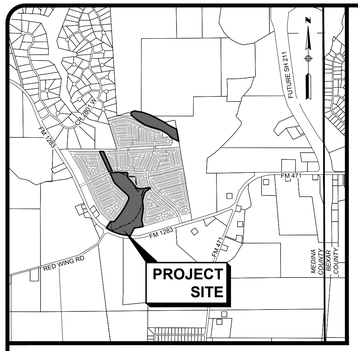
DATE: 3/6/2023
DESIGNED BY: JD
DRAWN BY: JD
CHECKED BY: JG
DRAWING NAME: sh. Tree Preservation (Floodplain).dwg

LJA Engineering, Inc.
1100 NE Loop 410
Suite 650
San Antonio, Texas 78209
Phone 210.503.2100
Fax 210.503.2749
TBPE No. F-1386

JOB NUMBER: SA190-0401A-426

SHEET NO. 3 OF 16 SHEETS

K:\SA190 Lucra Terra LLC\0401A Woodlands at Medina Hills Subd_P\426 Site Development Plans\DWG-Sheets\sh_Tree Preservation (Floodplain).dwg
User: nbremser
Last Modified: Mar 06, 23 - 10:00
Plot Date/Time: Mar 06, 23 - 10:00:00



LOCATION MAP
N.T.S.

LEGEND

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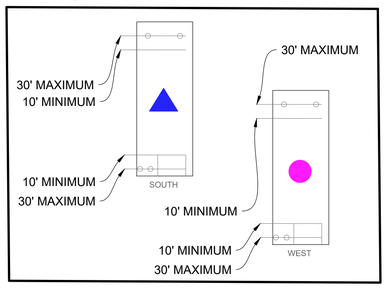

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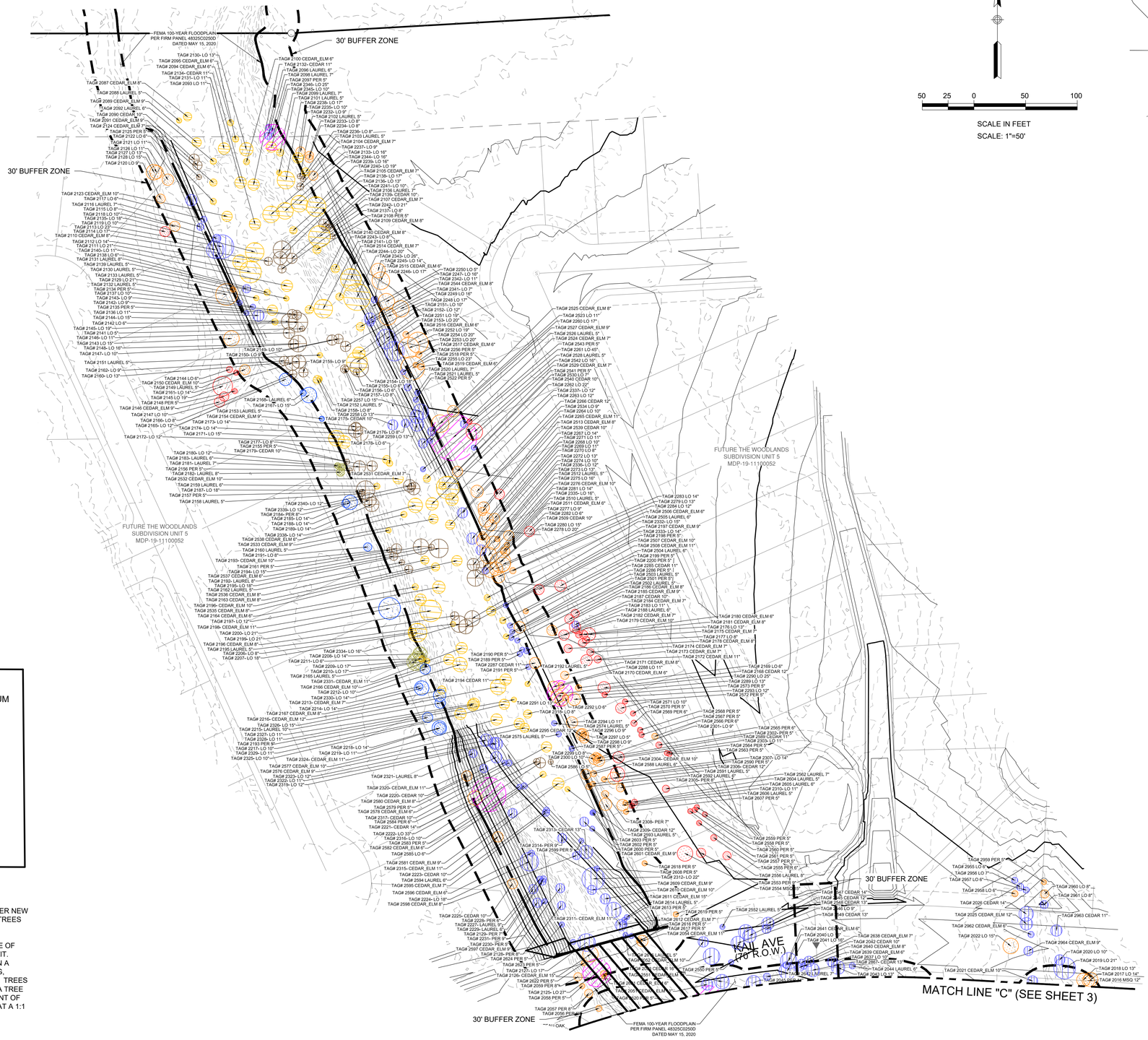
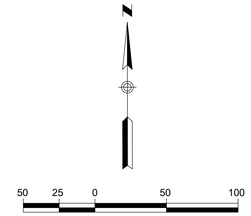
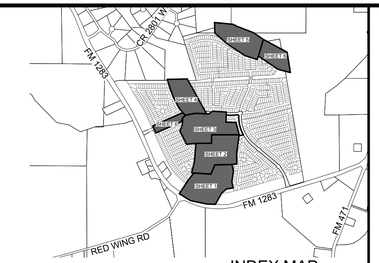




SCALE IN FEET
SCALE: 1"=50'



INDEX MAP
N.T.S.

THE WOODLANDS AT MEDINA HILLS

TREE PRESERVATION PLAN
(SHEET 4 OF 6)

REVISIONS			
NO.	DESCRIPTION	BY	DATE

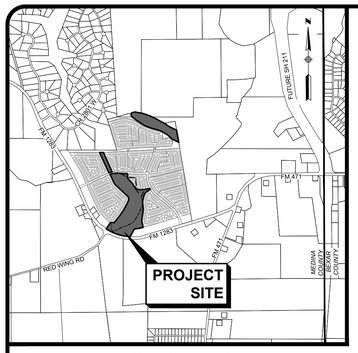
DATE: 3/6/2023
DESIGNED BY: JD
DRAWN BY: JD
CHECKED BY: JG
DRAWING NAME: sh_Tree Preservation (Floodplain).dwg

LJA Engineering, Inc.
1100 NE Loop 410
Suite 850
San Antonio, Texas 78209
Phone 210.503.2700
Fax 210.503.2749
TBPE No. F-1386

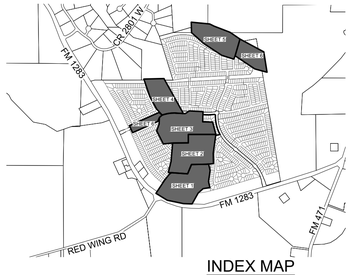
JOB NUMBER:
SA190-0401A-426

SHEET NO.
4
OF 16 SHEETS

K:\SA190 Lucia Terra, LLC\0401A Woodlands at Medina Hills Subd_P\426 Site Development Plans\DWG-Sheets\sh_Tree Preservation (Floodplain).dwg
User: nbrenner
Last Modified: Mar. 06, 23 - 10:00
Plot Date/Time: Mar. 06, 23 - 10:04:30



LOCATION MAP
N.T.S.



INDEX MAP
N.T.S.

50 25 0 50 100
SCALE IN FEET
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PLANTING REQUIREMENTS

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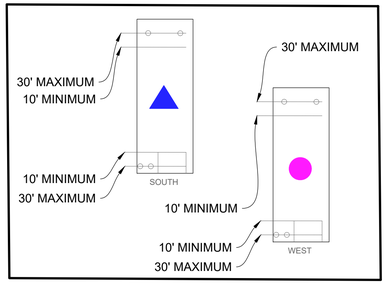
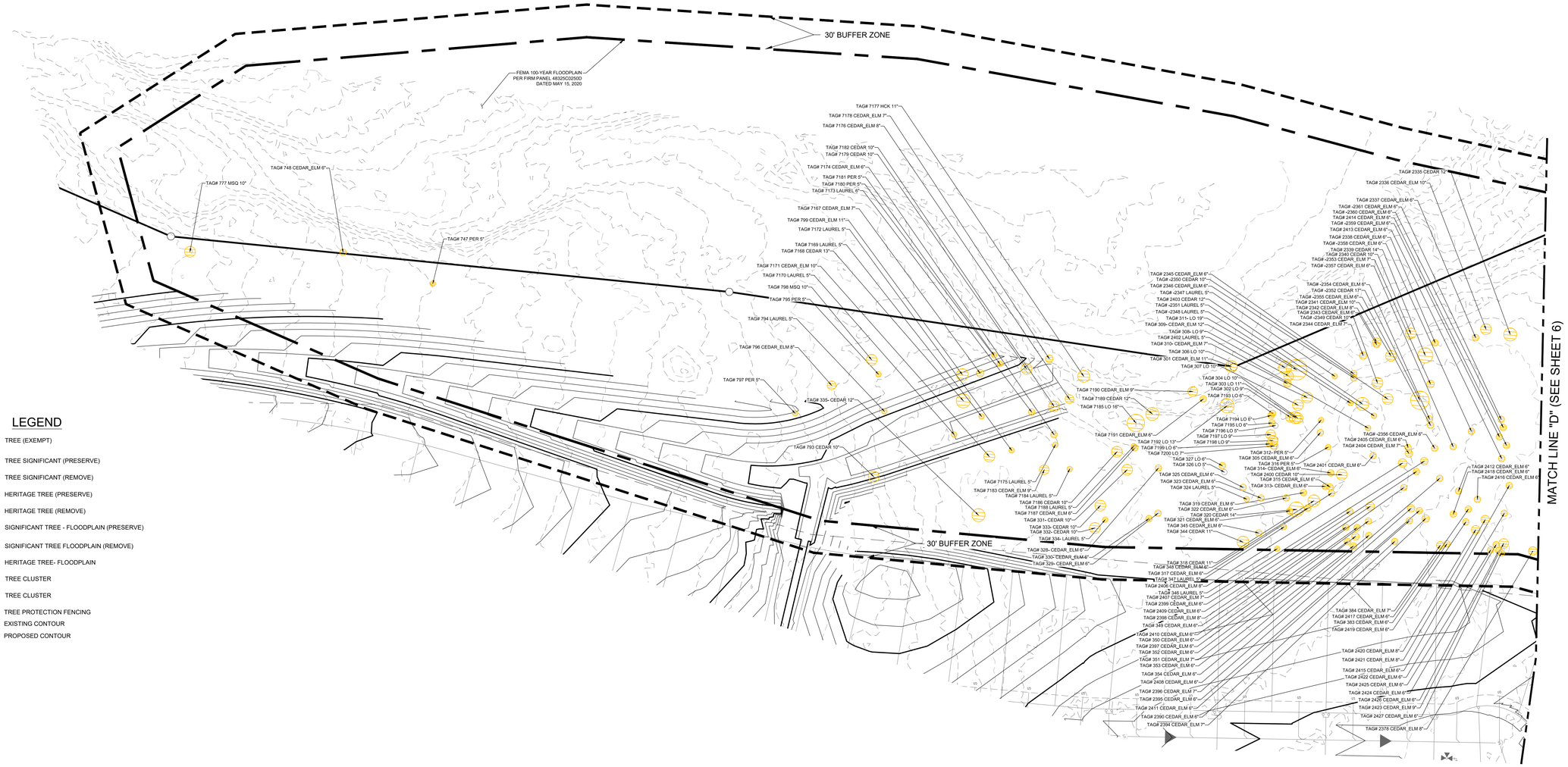
ENERGY CREDIT FRONT YARD





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THE WOODLANDS AT MEDINA HILLS

TREE PRESERVATON PLAN (SHEET 5 OF 6)

REVISIONS

NO.	DESCRIPTION	BY	DATE

DATE: 3/6/2023
DESIGNED BY: JD
DRAWN BY: JD
CHECKED BY: JG
DRAWING NAME: sh_Tree Preservation (Floodplain).dwg

LJA Engineering, Inc.
1100 NE Loop 410
Suite 850
San Antonio, Texas 78209
Phone 210.503.2700
Fax 210.503.2749
TBPE No. F-1386

JOB NUMBER:
SA190-0401A-426

SHEET NO.
5
OF 16 SHEETS

K:\SA190 Lucia Terra, LLC\0401A Woodlands at Medina Hills Subd_PI\426 Site Development Plan\DWG-Sheets\sh_Tree Preservation (Floodplain).dwg
User: nbrenner
Last Modified: Mar. 06, 23 - 10:00
Plot Date/Time: Mar. 06, 23 - 10:04:59

LOCATION MAP
N.T.S.

INDEX MAP
N.T.S.

LEGEND

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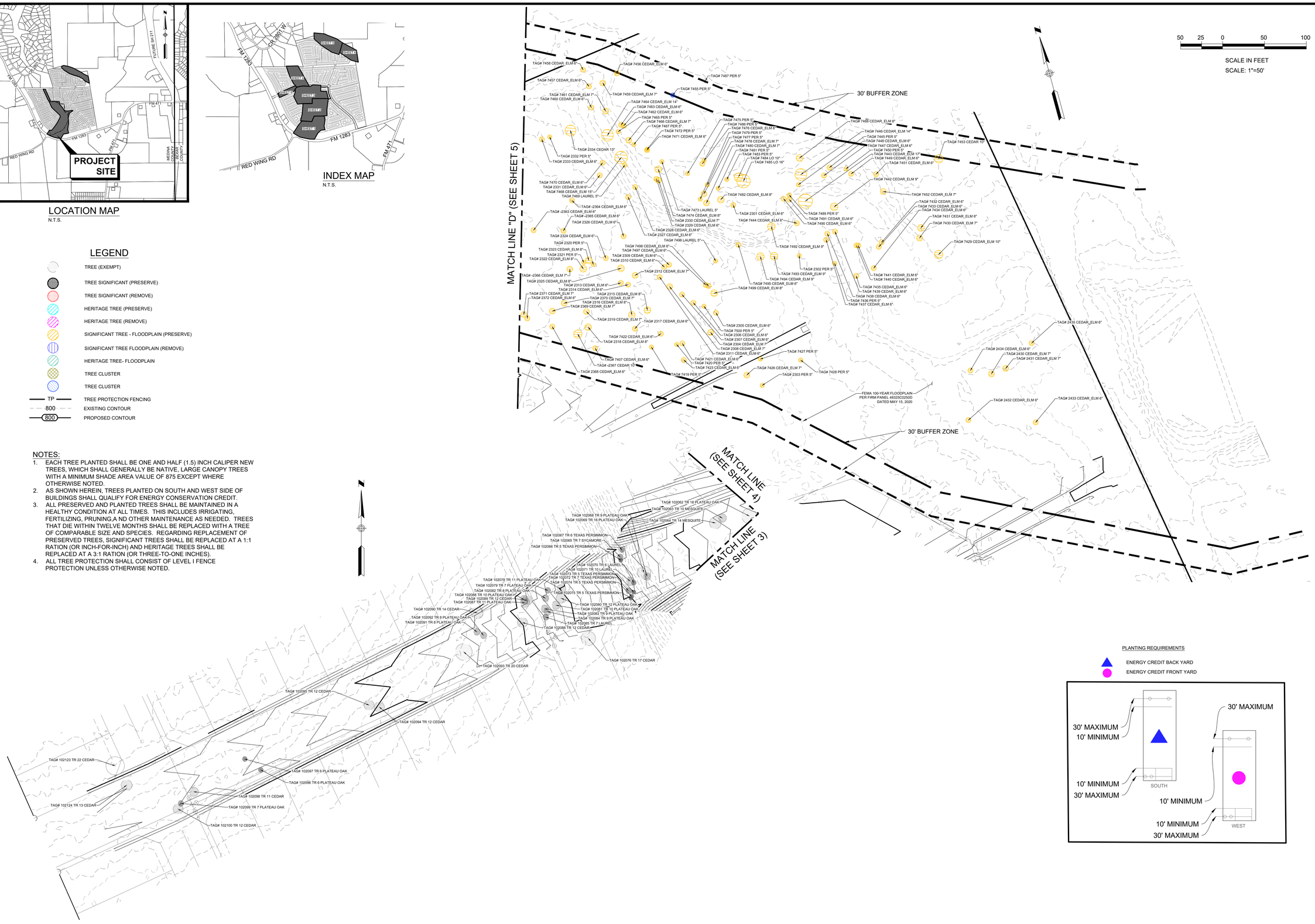

THE WOODLANDS AT MEDINA HILLS

TREE PRESERVATON PLAN (SHEET 6 OF 6)

NO.	DESCRIPTION	BY	DATE

REVISIONS

DATE: 3/6/2023
DESIGNED BY: JD
DRAWN BY: JD
CHECKED BY: JG
DRAWING NAME: sh_Tree Preservation (Floodplain).dwg

LJA Engineering, Inc.
1100 NE Loop 410
Suite 850
San Antonio, Texas 78209
Phone 210.503.2700
Fax 210.503.2749
TBPE No. F-1386

JOB NUMBER:
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SHEET NO.
6
OF 16 SHEETS

K:\SA190 Lucra Terra, LLC\0401A Woodlands at Medina Hills Subd.P\426 Site Development Plans\DWG-Sheets\sh_Tree Preservation (Floodplain).dwg
User: rbremer
Last Modified: Mar 06, 23 - 10:00
Plot Date/Time: Mar 06, 23 - 10:00:37

Floodplain Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

Tag #	Species	Exempt	Understory Species* 5.0" - 11.5" Removed	Understory Species* 5.0" - 11.5" Preserved	Significant Tree 6" - 23.5" Removed	Significant Tree 6" - 23.5" Preserved	Significant Tree** 10.0" - 23.5" Removed	Significant Tree** 10.0" - 23.5" Preserved	Heritage 3:1 24" + HERITAGE TREES Removed	Heritage 3:1 24" + HERITAGE TREES Preserved	Heritage 1:1 11.5" + HERITAGE TREES Removed	Heritage 1:1 11.5" + HERITAGE TREES Preserved	Heritage 1:1 11.5" + HERITAGE TREES Removed	Heritage 1:1 11.5" + HERITAGE TREES Preserved	Additional Inches Preserved for Mitigation *** Preserved	Tree Canopy Cover Shade Value
-2367	CEDAR 10"					10										875
-2366	CEDAR_ELM 7"					7										875
-2365	CEDAR_ELM 6"					6										875
-2364	CEDAR_ELM 6"					6										875
-2363	CEDAR_ELM 6"					6										875
-2361	CEDAR_ELM 6"					6										875
-2360	CEDAR_ELM 6"					6										875
-2359	CEDAR_ELM 6"					6										875
-2358	CEDAR_ELM 6"					6										875
-2357	CEDAR_ELM 6"					6										875
-2356	CEDAR_ELM 6"					6										875
-2355	CEDAR_ELM 6"					6										875
-2354	CEDAR_ELM 6"					6										875
-2353	CEDAR_ELM 7"					7										875
-2352	CEDAR 17"					17										875
-2351	LAUREL 5"				5											0
-2350	CEDAR 10"					10										875
-2349	CEDAR 10"					10										875
-2348	LAUREL 5"				5											0
-2347	LAUREL 5"				5											0
101	LO 20"														3	875
102	LO 13"														1.95	875
103	LO 10"					10										875
104	CEDAR_ELM 12"					12										875
105	LO 16"														2.4	875
106	PER 6"				6											275
107	CEDAR_ELM 10"														1.5	875
108	LO 35"										35					875
109	LO 17"					17										875
110	LO 10"					10										875
111	LO 12"														1.8	875
112	LO 8"														1.2	875
113	CEDAR_ELM 14"				14											
114	CEDAR 14"				14											
115	CEDAR_ELM 10"				10											
116	CEDAR_ELM 13"				13											
117	CEDAR_ELM 17"					17										875
118	CEDAR 16"														2.4	875
119	LO 10"														1.5	875
120	CEDAR_ELM 11"					11										875
121	CEDAR_ELM 11"														1.65	875
122	LO 16"					16										875
127	LO 11"					11										875
146	HCK 11"							11								550
147	LO 10"														1.5	875
148	LO 14"														2.1	875
149	LO 26"														3.9	875
150	LO 14"														2.1	875
151	LO 14"														2.1	875
152	CEDAR_ELM 22"														3.3	875
153	CEDAR_ELM 7"														1.05	875
154	LO 17"														2.55	875
155	CEDAR_ELM 12"				12											
156	CEDAR_ELM 9"				9											
157	CEDAR_ELM 8"				8											
158	LO 10"														1.5	875
159	CEDAR_ELM 12"														1.8	875
160	HCK 14"							14								550
161	LAUREL 6"				6											0
162	CEDAR 11"					11										875
166	HCK 11"							11								550
167	HCK 11"							11								550
168	HCK 10"							10								550
169	LO 17"				17											
170	HCK 18"						18									
171	LO 7"					7										875
172	LO 23"					23										875
173	MSQ 12"							12								550
176	MSQ 10"							10								550
183	MSQ 11"							11								550
184	LO 43"										43					875
185	MSQ 21"						21									
186	CEDAR_ELM 16"					16										875
187	CEDAR_ELM 12"					12										875
188	HCK 14"							14								550
189	CEDAR_ELM 11"					11										875
190	HCK 15"							15								550
191	LO 12"														1.8	875
192	LO 15"														2.25	875
193	LO 24"														3.6	875
194	CEDAR_ELM 14"														2.1	875
195	CEDAR_ELM 13"					13										875
196	CEDAR_ELM 10"					10										875
197	CEDAR_ELM 10"					10										875
198	CEDAR_ELM 15"					15										875
199	CEDAR_ELM 15"					15										875
200	MSQ 13"							13								550
201	LO 10"					10										875
202	LO 16"					16										875
203	LO 11"					11										875
204	PER 5"				5											275
206	HCK 10"							10								550
207	CEDAR_ELM 12"					12										875
211	LO 9"					9										875
212	LAUREL 5"				5											0
213	MSQ 12"							12								550
215	HCK 10"							10								550
216	CEDAR_ELM 11"					11										875
220	LO 28"										28					875
221	LO 15"														2.25	875
222	LO 22"				22											
223	LO 15"														2.25	875
224	LO 16"														2.4	875
225	LO 19"														2.85	875
226	LO 15"														2.25	875
227	CEDAR_ELM 13"				13											
229	LO 13"														1.95	875
230	LO 11"														1.65	875
231	CEDAR_ELM 10"					10										875
232	LO 11"					11										875
233	CEDAR_ELM 14"														2.1	875
234	LO 8"														1.2	875
235	LO 7"														1.05	875
236	LO 7"														1.05	875
237	LO 6"														0.9	875
238	CEDAR 14"														2.1	875
239	LO 15"					15										875
241	CEDAR_ELM 12"					12										875
242	CEDAR_ELM 16"					16										875
243	CEDAR_ELM 11"					11										875
249	CEDAR_ELM 13"					13										875
250	LO 11"														1.65	875
251	CEDAR_ELM 11"														1.65	875
252	CEDAR 18"					18										875

Floodplain Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

Tag #	Species	Exempt	Understory Species* 5.0" - 11.5" Removed	Understory Species* 5.0" - 11.5" Preserved	Significant Tree 6" - 23.5" Removed	Significant Tree 6" - 23.5" Preserved	Significant Tree** 10.0" - 23.5" Removed	Significant Tree** 10.0" - 23.5" Preserved	Heritage 3:1 24" + HERITAGE TREES Removed	Heritage 3:1 24" + HERITAGE TREES Preserved	Heritage 1:1 11.5" + HERITAGE TREES Removed	Heritage 1:1 11.5" + HERITAGE TREES Preserved	Heritage 1:1 11.5" + HERITAGE TREES Removed	Heritage 1:1 11.5" + HERITAGE TREES Preserved	Additional Inches Preserved for Mitigation *** Preserved	Tree Canopy Cover Shade Value
293	LO 13"					13										875
294	LO 23"					23										875
301	CEDAR_ELM 11"					11										875
302	LO 9"					9										875
303	LO 11"					11										875
304	LO 10"					10										875
305	CEDAR_ELM 6"					6										875
306	LO 10"					10										875
307	LO 10"					10										875
315	CEDAR_ELM 6"					6										875
316	PER 5"				5											275
317	CEDAR_ELM 6"					6										875
318	CEDAR 11"					11										875
319	CEDAR_ELM 6"					6										875
320	CEDAR 14"					14										875
321	CEDAR_ELM 6"					6										875
322	CEDAR_ELM 6"					6										875
323	CEDAR_ELM 6"					6										875
324	LAUREL 5"				5											0
325	CEDAR_ELM 6"					6										875
327	LO 6"					6										875
344	CEDAR 11"					11										875
345	CEDAR_ELM 6"					6										875
346	LAUREL 5"				5											0
347	LAUREL 5"				5											0
348	CEDAR_ELM 6"					6										875
349	CEDAR_ELM 6"					6										875
350	CEDAR_ELM 6"					6										875
351	CEDAR_ELM 7"					7										875
352	CEDAR_ELM 6"					6										875
353	CEDAR_ELM 6"					6										875
354	CEDAR_ELM 6"					6										875
383	CEDAR_ELM 6"					6										875
384	CEDAR_ELM 7"					7										875
407	HCK 12"														1.8	550
409	MSQ 11"							11								550
410	LO 5"														0.75	875
411	LO 6"														0.9	875
412	LO 7"														1.05	875
414	CEDAR_ELM 10"					10										875
415	CEDAR_ELM 10"					10										875
417	MSQ 10"							10								550
418	CEDAR 10"					10										875
420	LO 13"				13											
421	CEDAR_ELM 11"					11										875
422	CEDAR_ELM 12"					12										875
423	CEDAR 11"					11										875
424	LO 13"														1.95	875
425	PER 7"														1.05	275
426	CEDAR 13"														1.95	875
427	CEDAR_ELM 10"														1.5	875
428	CEDAR 12"														1.8	875
429	CEDAR 12"					12										875
430	LO 8"					8										875
431	LO 6"					6										875
432	LO 8"					8										875
434	LO 6"					6										875
435	LO 8"					8										875
436	LO 8"					8										875
437	LO 8"					8										875
438	LO 7"					7										875
439	LO 8"					8										875
440	LO 34"								34							875
441	LO 8"					8										875
443	PER 7"				7											275
444	LO 6"														0.9	875
445	LO 7"														1.05	875
446	LO 6"														0.9	875
447	CEDAR_ELM 11"														1.65	875
448	LO 10"					10										875
449	LO 15"					15										875
451	CEDAR_ELM 12"					12										875
452	HCK 10"							10								550
453	CEDAR 11"					11										875
454	CEDAR_ELM 11"					11										875
455	HCK 10"							10								550
457	CEDAR 13"					13										875
458	MSQ 10"							10								550
459	CEDAR_ELM 12"														1.8	875
460	CEDAR 12"														1.8	875
461	CEDAR_ELM 11"														1.65	875
462	CEDAR_ELM 12"					12										875
463	CEDAR 12"					12										875
464	CEDAR_ELM 10"														1.5	875
465	CEDAR 10"					10										875
466	HCK 11"							11								550
467	CEDAR 12"					12										875
469	CEDAR_ELM 11"					11										875
471	CEDAR_ELM 11"					11										875
472	CEDAR_ELM 10"				10											
473	CEDAR_ELM 10"				10											
474	HCK 11"						11									
496	CEDAR 13"					13										875
747	PER 5"				5											275
748	CEDAR_ELM 6"					6										875
777	MSQ 10"							10								550
793	CEDAR 10"					10										875
794	LAUREL 5"				5											0
795	PER 5"				5											275
796	CEDAR_ELM 8"					8										875
797	PER 5"				5											275
798	MSQ 10"							10								550
799	CEDAR_ELM 11"					11										875
813	HCK 12"						12									
818	HCK 12"						12									
820	HCK 17"						17									
998	PER 6"		6													
999	PER 5"		5													
1000	PER 5"		5													
2019	LO 21"					21										
2020	LO 10"					10										
2021	CEDAR_ELM 10"					10										
2025	CEDAR_ELM 12"					12										
2026	CEDAR 14"					14										
2040	LO 16"					16										
2041	LO 16"					16										
2042	CEDAR 10"					10										
2043	LO 13"					13										
2044	LAUREL 6"		6													
2045	PER 14"		14													
2046	PER 5"		5													
2047	LO 26"							26								
2048	LO 10"					10										
2049	LO 9"					9										

Floodplain Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

Tag #	Species	Exempt	Understory Species* 5.0" - 11.5" Removed	Understory Species* 5.0" - 11.5" Preserved	Significant Tree 6" - 23.5" Removed	Significant Tree 6" - 23.5" Preserved	Significant Tree** 10.0" - 23.5" Removed	Significant Tree** 10.0" - 23.5" Preserved	Heritage 3:1 24" + HERITAGE TREES Removed	Heritage 3:1 24" + HERITAGE TREES Preserved	Heritage 1:1 11.5" + HERITAGE TREES Removed	Heritage 1:1 11.5" + HERITAGE TREES Preserved	Heritage 1:1 11.5" + HERITAGE TREES Removed	Heritage 1:1 11.5" + HERITAGE TREES Preserved	Additional Inches Preserved for Mitigation *** Preserved	Tree Canopy Cover Shade Value
2050	PER 5"			5												
2051	CEDAR_ELM 11"					11										
2052	CEDAR_ELM 10"					10										
2053	CEDAR 16"					16										
2087	CEDAR_ELM 8"						8									875
2088	LAUREL 5"				5											0
2089	CEDAR_ELM 9"						9									875
2090	CEDAR 10"														1.5	875
2091	CEDAR_ELM 9"														1.35	875
2092	LAUREL 6"				6											0
2093	LO 11"						11									875
2094	CEDAR_ELM 6"						6									875
2095	CEDAR_ELM 6"						6									875
2096	LAUREL 6"		6													
2097	PER 5"		5													
2098	LAUREL 7"		7													
2099	LAUREL 7"				7											0
2100	CEDAR_ELM 6"						6									875
2101	LAUREL 5"				5											0
2102	LAUREL 5"														0.75	0
2103	LAUREL 5"														0.75	0
2104	CEDAR_ELM 7"														1.05	875
2105	CEDAR_ELM 7"						7									875
2106	LAUREL 7"														1.05	0
2107	CEDAR_ELM 7"														1.05	875
2108	PER 5"														0.75	275
2109	CEDAR_ELM 8"						8									875
2110	CEDAR_ELM 8"														1.2	875
2111	LO 21"						21									875
2112	LO 14"						14									875
2113	LO 23"					23										
2114	LO 17"					17										
2115	LO 8"					8										
2116	LAUREL 7"		7													
2117	LO 6"					6										
2121	LO 11"					11										
2122	LO 6"						6									875
2123	CEDAR_ELM 10"						10									875
2124	CEDAR_ELM 7"						7									875
2125	PER 5"														0.75	275
2131	LAUREL 8"		8													
2132	LAUREL 5"		5													
2133	LAUREL 5"				5											0
2134	PER 5"		5													
2135	PER 5"		5													
2136	LO 11"					11										
2137	LO 10"						10									875
2138	LO 6"						6									875
2139	LAUREL 5"				5											0
2140	CEDAR_ELM 8"						8									875
2141	LO 5"														0.75	875
2142	LO 6"						6									875
2151	LAUREL 5"				5											0
2152	LAUREL 5"				5											0
2154	CEDAR_ELM 9"														1.35	875
2155	PER 5"														0.75	275
2156	PER 5"														0.75	275
2157	PER 5"														0.75	275
2158	LAUREL 5"														0.75	0
2159	LAUREL 6"				6											0
2160	LAUREL 5"				5											0
2161	PER 5"														0.75	275
2162	LAUREL 5"														0.75	0
2163	CEDAR_ELM 8"														1.2	875
2164	CEDAR_ELM 6"						6									875
2165	LAUREL 5"				5											0
2166	CEDAR_ELM 10"						10									875
2167	CEDAR_ELM 8"						8									875
2184	CEDAR_ELM 7"					7										
2188	LAUREL 6"		6													
2189	PER 5"		5													
2190	PER 5"		5													
2191	PER 5"		5													
2192	LAUREL 5"				5											0
2193	PER 5"				5											275
2194	CEDAR 11"						11									875
2195	LAUREL 5"				5											0
2196	CEDAR_ELM 8"														1.2	875
2197	CEDAR_ELM 9"						9									875
2198	PER 5"		5													
2200	PER 5"		5													
2251	LO 19"					19										
2252	LO 19"					19										
2256	PER 5"		5													
2257	LO 15"					15										
2258	LO 13"					13										
2259	LO 13"					13										
2261	LO 45"								45							
2262	LO 22"						22									875
2263	LO 12"						12									875
2264	LO 10"					10										
2271	LO 11"					11										
2274	LO 10"					10										
2281	LO 14"														2.1	875
2282	LO 6"					6										
2286	PER 5"		5													
2290	LO 25"								25							
2301	CEDAR_ELM 6"						6									875
2302	PER 5"				5											275
2303	PER 5"				5											275
2304	CEDAR_ELM 7"						7									875
2305	CEDAR_ELM 6"						6									875
2306	CEDAR_ELM 6"						6									875
2307	CEDAR_ELM 6"						6									875
2308	CEDAR_ELM 7"						7									875
2309	CEDAR_ELM 6"						6									875
2310	CEDAR_ELM 6"						6									875
2311	CEDAR_ELM 6"						6									875
2312	CEDAR_ELM 7"						7									875
2313	CEDAR_ELM 6"						6									875
2314	CEDAR_ELM 6"						6									875
2315	CEDAR_ELM 8"						8									875
2316	CEDAR_ELM 8"						8									875
2317	CEDAR_ELM 6"						6									875
2318	CEDAR_ELM 8"						8									875
2319	CEDAR_ELM 7"						7									875
2320	PER 5"				5											275
2321	PER 5"				5											275
2322	CEDAR_ELM 8"						8									875
2323	CEDAR_ELM 8"						8									875
2324	CEDAR_ELM 6"						6									875
2325	CEDAR_ELM 8"						8									875
2326	CEDAR_ELM 6"						6									875
2327	CEDAR_ELM 6"						6									875

THE WOODLANDS AT MEDINA HILLS

TREE PRESERVATON PLAN CALCULATIONS (SHEET 1 OF 4) FLOODPLAIN

NO.	DESCRIPTION	BY	DATE

REVISIONS

DATE: 3/6/2023
DESIGNED BY: JD
DRAWN BY: JD
CHECKED BY: JG
DRAWING NAME: 9b_Tree Preservation (Floodplain).dwg

LJA Engineering, Inc.
1100 NE Loop 410
Suite 850
San Antonio, Texas 78209
Phone 210.503.2700
Fax 210.503.2749
TBPE No. F-1386

JOB NUMBER: SA190-0401A-426

SHEET NO. 7 OF 16 SHEETS

K:\SA190 Lucky Tenn, LLC\0401A Woodlands at Medina Hills Subd_Pt\CAD Site Development Plans\DWG-Sheets\9b_Tree Preservation (Floodplain).dwg
User: ntreneer
Last Modified: Mar. 06, 23 - 10:00
Plot Date/Time: Mar. 06, 23 - 10:00:39

Floodplain Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

			Understory Species* 5.0" - 11.5"		Significant Tree 6" - 23.5"		Significant Tree** 10.0" - 23.5"		Heritage 3:1 24" + HERITAGE TREES		Heritage 1:1 24" + HERITAGE TREES		Heritage 1:1 11.5" + HERITAGE TREES		Additional Inches Preserved for Mitigation ***	Tree Canopy Cover Shade Value
Tag #	Species	Exempt	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Preserved	
2328	CEDAR, ELM 6"					6										875
2329	CEDAR, ELM 6"					6										875
2330	CEDAR, ELM 7"					7										875
2331	CEDAR, ELM 6"					6										875
2332	PER 5"				5											275
2333	CEDAR, ELM 6"					6										875
2334	CEDAR 13"					13										875
2335	CEDAR 12"					12										875
2336	CEDAR, ELM 10"					10										875
2337	CEDAR, ELM 6"					6										875
2338	CEDAR, ELM 6"					6										875
2339	CEDAR 14"					14										875
2340	CEDAR 10"					10										875
2341	CEDAR, ELM 10"					10										875
2342	CEDAR, ELM 8"					8										875
2343	CEDAR, ELM 6"					6										875
2344	CEDAR, ELM 7"					7										875
2345	CEDAR, ELM 6"					6										875
2346	CEDAR, ELM 6"					6										875
2368	CEDAR, ELM 6"					6										875
2369	CEDAR, ELM 7"					7										875
2370	CEDAR, ELM 7"					7										875
2371	CEDAR, ELM 7"					7										875
2372	CEDAR, ELM 6"					6										875
2378	CEDAR, ELM 8"					8										875
2390	CEDAR, ELM 6"					6										875
2394	CEDAR, ELM 7"					7										875
2395	CEDAR, ELM 6"					6										875
2396	CEDAR, ELM 7"					7										875
2397	CEDAR, ELM 6"					6										875
2398	CEDAR, ELM 8"					8										875
2399	CEDAR, ELM 6"					6										875
2400	CEDAR 10"					10										875
2401	CEDAR, ELM 6"					6										875
2402	LAUREL 5"				5											0
2403	CEDAR 12"					12										875
2404	CEDAR, ELM 7"					7										875
2405	CEDAR, ELM 6"					6										875
2406	CEDAR, ELM 8"					8										875
2407	CEDAR, ELM 7"					7										875
2408	CEDAR, ELM 6"					6										875
2409	CEDAR, ELM 6"					6										875
2410	CEDAR, ELM 6"					6										875
2411	CEDAR, ELM 6"					6										875
2412	CEDAR, ELM 6"					6										875
2413	CEDAR, ELM 6"					6										875
2414	CEDAR, ELM 6"					6										875
2415	CEDAR, ELM 6"					6										875
2416	CEDAR, ELM 6"					6										875
2417	CEDAR, ELM 6"					6										875
2418	CEDAR, ELM 6"					6										875
2419	CEDAR, ELM 6"					6										875
2420	CEDAR, ELM 8"					8										875
2421	CEDAR, ELM 8"					8										875
2422	CEDAR, ELM 6"					6										875
2423	CEDAR, ELM 9"					9										875
2424	CEDAR, ELM 6"					6										875
2425	CEDAR, ELM 6"					6										875
2426	CEDAR, ELM 6"					6										875
2427	CEDAR, ELM 6"					6										875
2430	CEDAR, ELM 7"					7										875
2431	CEDAR, ELM 7"					7										875
2432	CEDAR, ELM 6"					6										875
2433	CEDAR, ELM 6"					6										875
2434	CEDAR, ELM 6"					6										875
2435	CEDAR, ELM 6"					6										875
2501	PER 5"		5													
2502	LAUREL 5"		5													
2503	LAUREL 5"			5												0
2504	LAUREL 6"			6												0
2505	LAUREL 6"			6												0
2514	CEDAR, ELM 7"					7										875
2515	CEDAR, ELM 6"				6											
2520	LAUREL 7"		7													
2521	LAUREL 5"		5													
2522	PER 5"		5													
2524	CEDAR, ELM 7"				7											
2525	CEDAR, ELM 8"				8											
2526	LAUREL 5"		5													
2527	CEDAR, ELM 9"				9											
2528	LAUREL 5"		5													
2529	CEDAR, ELM 7"					7										875
2530	LO 7"					7										875
2531	CEDAR, ELM 7"														1.05	875
2532	CEDAR, ELM 10"					10										875
2533	CEDAR, ELM 9"					9										875
2534	LO 9"					9										875
2535	CEDAR, ELM 8"					8										875
2536	CEDAR, ELM 8"					8										875
2537	CEDAR, ELM 6"														0.9	875
2538	CEDAR, ELM 6"					6										875
2541	PER 5"		5													
2544	CEDAR, ELM 8"					8										875
2545	CEDAR 12"				12											
2546	LO 9"				9											
2547	CEDAR 14"				14											
2548	CEDAR 13"				13											
2549	CEDAR 13"				13											
2550	PER 5"		5													
2551	CEDAR, ELM 14"				14											
2552	LAUREL 5"		5													
2574	LAUREL 5"		5													
2575	LAUREL 5"		5													
2576	CEDAR, ELM 9"					9										875
2577	CEDAR, ELM 10"					10										875
2578	CEDAR, ELM 6"				6											
2579	PER 5"		5													
2580	CEDAR, ELM 8"				8											
2581	CEDAR, ELM 9"				9											
2582	CEDAR, ELM 6"				6											
2583	PER 5"		5													
2584	PER 6"														0.9	275
2585	LO 6"					6										875
2586	LO 5"														0.75	875
2587	PER 5"		5													
2593	LAUREL 5"			5												0
2594	LAUREL 8"		6													
2595	CEDAR, ELM 7"				7											
2596	CEDAR, ELM 6"				6											
2597	CEDAR, ELM 9"				9											
2598	CEDAR, ELM 8"				8											
2599	PER 5"		5													
2600	PER 5"		5													
2601	CEDAR, ELM 9"				9											

Floodplain Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

			Understory Species* 5.0" - 11.5"		Significant Tree 6" - 23.5"		Significant Tree** 10.0" - 23.5"		Heritage 3:1 24" + HERITAGE TREES		Heritage 1:1 24" + HERITAGE TREES		Heritage 1:1 11.5" + HERITAGE TREES		Additional Inches Preserved for Mitigation ***	Tree Canopy Cover Shade Value
Tag #	Species	Exempt	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Preserved	
2602	PER 5"		5													
2603	PER 5"		5													
2608	PER 5"		5													
2609	CEDAR, ELM 9"				9											
2610	CEDAR, ELM 10"				10											
2611	CEDAR, ELM 15"				15											
2612	CEDAR, ELM 7"				7											
2613	PER 5"		5													
2614	LAUREL 5"		5													
2615	LAUREL 5"		5													
2616	PER 5"		5													
2623	PER 5"		5													
2624	PER 5"		5													
2625	PER 5"		5													
2626	CEDAR, ELM 7"				7											
2627	CEDAR, ELM 8"				8											
2628	CEDAR, ELM 9"					9										875
2629	CEDAR, ELM 9"				9											
2630	CEDAR, ELM 6"				6											
2631	CEDAR, ELM 6"				6											
2632	CEDAR, ELM 6"				6											
2633	CEDAR, ELM 8"				8											
2634	PER 5"		5													
2635	PER 5"		5													
2636	LAUREL 5"		5													
2637	LO 10"				10											
2638	CEDAR, ELM 7"				7											
2639	CEDAR, ELM 6"				6											
2640	CEDAR, ELM 8"				8											
2641	CEDAR, ELM 6"				6											
2642	LAUREL 7"		7													
2643	LAUREL 5"		5													
2644	PER 5"		5													
2645	PER 5"		5													
2646	LAUREL 5"		5													
2647	PER 5"		5													
2648	CEDAR, ELM 6"				6											
2649	CEDAR, ELM 6"					6										875
2650	CEDAR, ELM 6"				6											
2651	CEDAR, ELM 6"				6											
2652	CEDAR, ELM 7"				7											
2653	CEDAR, ELM 6"				6											
2654	CEDAR, ELM 7"														1.05	875
2655	CEDAR, ELM 9"														1.35	875
2656	PER 5"														0.75	275
2657	PER 5"			5												275
2658	CEDAR, ELM 7"				7											
2659	PER 5"			5												275
2660	LAUREL 5"			5												0
2661	LAUREL 5"			5												0
2662	LAUREL 5"			5												0
2663	PER 5"			5												275
2664	LAUREL 5"			5												0
2665	PER 5"		5													
2666	LAUREL 6"														0.9	0
2667	LAUREL 8"														1.2	0
2668	LAUREL 5"			5												0
2669	CEDAR, ELM 9"					9										875
2670	PER 5"			5												275
2671	LO 8"				8											
2672	CEDAR, ELM 8"				8											
2673	PER 5"		5													
2674	LO 7"					7										875
2675	CEDAR, ELM 8"														1.2	875
2676	CEDAR, ELM 6"														0.9	875
2677	LAUREL 5"		5													
2678	CEDAR, ELM 8"				8											
2681	CEDAR, ELM 6"					6										875
2682	PER 5"			5												275
2683	CEDAR, ELM 7"					7										875
2684	CEDAR, ELM 8"					8										875
2685	CEDAR, ELM 6"														0.9	875
2686	CEDAR, ELM 6"														0.9	875
2687	CEDAR, ELM 7"														1.05	875
2688	CEDAR, ELM 8"														1.2	875
2689	CEDAR, ELM 9"														1.35	875
2690	CEDAR, ELM 9"					9										875
2691	CEDAR, ELM 6"					6										875
2692	LAUREL 6"			6												0
2693	CEDAR, ELM 8"					8										875
2694	LAUREL 5"														0.75	0
2695	CEDAR, ELM 6"														0.9	875
2696	CEDAR, ELM 6"					6										875
2697	CEDAR, ELM 7"					7										875
2698	PER 5"			5												275
2699	CEDAR, ELM 6"					6										875
2700	LO 7"					7										875
2701	LAUREL 7"			7												0
2702	CEDAR, ELM 8"					8										875
2703	CEDAR, ELM 10"					10										875
2704	CEDAR, ELM 7"					7										875
2705	CEDAR, ELM 6"					6										875
2706	CEDAR, ELM 6"					6										875
2707	LAUREL 5"			5												0
2708	CEDAR, ELM 6"					6										875
2709	CEDAR, ELM 6"					6										875
2710	LAUREL 5"			5												0
2712	CEDAR 24"									24						875
2713	CEDAR, ELM 6"					6										875
2714	LAUREL 5"			5												0
2715	CEDAR, ELM 7"					7										875
2716	CEDAR, ELM 6"					6										875
2717	LAUREL 5"			5												0
2718	CEDAR, ELM 6"														0.9	875
2719	CEDAR, ELM 6"														0.9	875
2720	CEDAR, ELM 6"														0.9	875
2721	CEDAR, ELM 7"														1.05	875
2722	CEDAR, ELM 9"														1.35	875
2723	CEDAR, ELM 8"														1.2	875
2724	CEDAR, ELM 6"														0.9	875
2725	CEDAR, ELM 8"														1.2	875
2726	CEDAR, ELM 7"					7										875
2727	CEDAR, ELM 6"					6										875
2728	CEDAR, ELM 7"					7										875
2729	CEDAR, ELM 6"					6										875
2730	CEDAR, ELM 6"					6										875
2731	LO 8"														1.2	875
2738	LO 5"														0.75	875
2739	LO 5"														0.75	875
2740	LO 5"														0.75	875
2741	LO 7"														1.05	875
2742	LO 5"														0.75	875
2748	CEDAR, ELM 6"					6										875
2749	LAUREL 6"			6												0

Floodplain Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

			Understory Species* 5.0" - 11.5"		Significant Tree 6" - 23.5"		Significant Tree** 10.0" - 23.5"		Heritage 3:1 24" + HERITAGE TREES		Heritage 1:1 24" + HERITAGE TREES		Heritage 1:1 11.5" + HERITAGE TREES		Additional Inches Preserved for Mitigation ***	Tree Canopy Cover Shade Value
Tag #	Species	Exempt	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Preserved	
2750	CEDAR, ELM 10"					10										875
2751	CEDAR, ELM 7"					7										875
2752	LAUREL 5"				5											0
2753	CEDAR, ELM 9"					9										875
2754	CEDAR, ELM 8"					8										875
2755	CEDAR, ELM 7"					7										875
2756	PER 5"				5											275
2757	PER 5"				5											275
2758	LAUREL 7"			7												
2759	CEDAR, ELM 9"					9										
2760	LAUREL 8"			8												
2761	CEDAR, ELM 9"					9										
2762	LO 9"					9										
2771	CEDAR, ELM 7"					7										875
2772	CEDAR, ELM 6"					6										875
2773	CEDAR, ELM 7"					7										875
2774	CEDAR, ELM 7"					7										
2775	CEDAR, ELM 8"					8										
2776	CEDAR, ELM 6"					6										
2777	CEDAR, ELM 7"					7										
2778	CEDAR 12"					12										
2779	CEDAR, ELM 7"					7										
2780	CEDAR, ELM 9"					9										875
2781	CEDAR, ELM 10"					10										875
2782	CEDAR, ELM 8"					8										875
2783	CEDAR, ELM 7"					7										875
2784	CEDAR, ELM 8"					8										875
2785	CEDAR, ELM 8"					8										875
2786	CEDAR, ELM 6"					6										875
2787	PER 5"				5											275
2788	CEDAR, ELM 6"					6										875
2789	CEDAR, ELM 8"					8										875
2790	CEDAR, ELM 7"					7										875
2791	CEDAR, ELM 9"														1.35	875
2792	CEDAR, ELM 10"														1.5	875
2793	CEDAR, ELM 9"					9										875
2794	PER 5"				5											275
2795	CEDAR, ELM 9"					9										875
2796	CEDAR, ELM 9"														1.35	875
2797	CEDAR, ELM 6"														0.9	875
2798	CEDAR, ELM 7"														1.05	875
2799	CEDAR, ELM 8"					8										875
2800	CEDAR, ELM 6"					6										875
2801	CEDAR, ELM 6"					6										875
2802	CEDAR, ELM 8"					8										875
2803	CEDAR, ELM 7"					7										875
2804	CEDAR, ELM 9"														1.35	875
2805	LAUREL 5"														0.75	0
2806	LAUREL 5"														0.75	0
2807	CEDAR, ELM 8"														1.2	875
2808	CEDAR, ELM 6"					6										875
2809	CEDAR, ELM 7"														1.05	875
2810	CEDAR, ELM 9"														1.35	875
2811	LAUREL 5"														0.75	0
2812	PER 5"				5											275
2813	CEDAR, ELM 9"					9										875
2814	CEDAR, ELM 9"														1.35	875
2815	CEDAR, ELM 9"														1.35	875
2816	CEDAR, ELM 7"														1.05	875
2817	CEDAR, ELM 6"														0.9	875
2818	CEDAR, ELM 7"														1.05	875
2819	CEDAR, ELM 10"					10										875
2820	CEDAR, ELM 6"					6										875
2821	CEDAR, ELM 6"					6										875
2822	CEDAR, ELM 6"					6										875
2823	CEDAR, ELM 6"					6										875
2824	LAUREL 5"				5											0
2825	LAUREL 5"				5											0
2826	CEDAR, ELM 7"					7										875
2827	CEDAR, ELM 7"					7										875
2828	CEDAR, ELM 12"														1.8	875
2829	CEDAR, ELM 6"														0.9	875
2830	CEDAR, ELM 6"														0.9	875
2831	CEDAR, ELM 6"														0.9	875
2832	CEDAR, ELM 7"														1.05	875
2833	CEDAR, ELM 6"					6										875
2834	CEDAR, ELM 6"					6										875
2835	CEDAR, ELM 9"					9										875
2836	CEDAR, ELM 7"					7										875
2837	CEDAR, ELM 6"					6										875
2838	CEDAR, ELM 7"					7										875
2839	CEDAR, ELM 6"					6										875
2840	CEDAR, ELM 8"					8										875
2841	CEDAR, ELM 8"					8										875
2842	CEDAR, ELM 7"					7										875
2843	CEDAR, ELM 8"					8										875
2844	CEDAR, ELM 6"					6										875
2845	CEDAR, ELM 8"					8										875
2846	CEDAR, ELM 6"					6										875
2847	CEDAR, ELM 7"					7										875
2848	CEDAR, ELM 6"					6										875
2849	CEDAR, ELM 8"					8										875
2850	CEDAR, ELM 9"														1.35	875
2851	LO 5"														0.75	875
2852	CEDAR, ELM 9"														1.35	875
2853	CEDAR, ELM 8"					8										875
2854	CEDAR, ELM 8"					8										875
2855	CEDAR, ELM 11"					11										875
2856	CEDAR, ELM 10"					10										875
2857	CEDAR, ELM 6"														0.9	875
2859	CEDAR, ELM 9"					9										875
2860	CEDAR, ELM 6"					6										875
2861	CEDAR, ELM 8"					8										875
2862	LAUREL 5"				5											0
2863	CEDAR, ELM 9"					9										875
2864	CEDAR, ELM 6"						6									
2870	CEDAR, ELM 6"					6										875
2871	CEDAR, ELM 7"					7										875
2872	LAUREL 5"				5											0
2873	CEDAR, ELM 6"					6										875
2874	CEDAR, ELM 6"					6										875
2875	CEDAR, ELM 7"					7										875
2876	CEDAR, ELM 8"					8										875
2877	CEDAR, ELM 7"					7										875
2878	CEDAR, ELM 8"					8										875
2879	CEDAR, ELM 10"					10										875
2880	CEDAR, ELM 7"					7										875
2881	CEDAR, ELM 10"					10										875
2882	CEDAR, ELM 9"					9										875
2883	CEDAR, ELM 6"					6										875
2884	CEDAR, ELM 7"					7										875
2885	CEDAR, ELM 8"					8										875
2886	CEDAR, ELM 11"					11										875
2887	CEDAR, ELM 7"					7										875

THE WOODLANDS AT MEDINA HILLS

TREE PRESERVATON PLAN CALCULATIONS (SHEET 2 OF 4) FLOODPLAIN

NO.	REVISIONS DESCRIPTION	BY	DATE

DATE: 3/6/2023
DESIGNED BY: JD
DRAWN BY: JD
CHECKED BY: JG
DRAWING NAME: sh_Tree Preservation (Floodplain).dwg

LJA Engineering, Inc.
1100 NE Loop 410
Suite 850
San Antonio, Texas 78209
Phone 210.503.2700
Fax 210.503.2749
TBPE No. F-1386

JOB NUMBER: SA190-0401A-426

SHEET NO. 8 OF 16 SHEETS

K:\SA190 Lennar Terra, LLC\0401A Woodlands at Medina Hills Subd_PA\430 Site Development Plans\DWG-Sheets\sh_Tree Preservation (Floodplain).dwg
User: nbrenner
Last Modified: Mar. 06, 23 - 10:00
Plot Date/Time: Mar. 06, 23 - 10:00:44

Floodplain Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

Tag #	Species	Exempt	Understory Species* 5.0" - 11.5" Removed	Understory Species* 5.0" - 11.5" Preserved	Significant Tree 6" - 23.5" Removed	Significant Tree 6" - 23.5" Preserved	Significant Tree** 10.0" - 23.5" Removed	Significant Tree** 10.0" - 23.5" Preserved	Heritage 3:1 24" + HERITAGE TREES Removed	Heritage 3:1 24" + HERITAGE TREES Preserved	Heritage 1:1 24" + HERITAGE TREES Removed	Heritage 1:1 24" + HERITAGE TREES Preserved	Heritage 1:1 11.5" + HERITAGE TREES Removed	Heritage 1:1 11.5" + HERITAGE TREES Preserved	Additional Inches Preserved for Mitigation *** Preserved	Tree Canopy Cover Shade Value
2888	CEDAR_ELM 9"					9										875
2889	CEDAR_ELM 6"					6										875
2890	CEDAR_ELM 7"					7										875
2891	CEDAR_ELM 7"					7										875
2892	CEDAR_ELM 6"					6										875
2893	CEDAR_ELM 6"					6										875
2894	CEDAR_ELM 8"					8										875
2911	CEDAR_ELM 7"				7											875
2912	CEDAR_ELM 6"					6										875
2913	CEDAR_ELM 9"					9										875
2914	CEDAR_ELM 6"														0.9	875
2915	CEDAR_ELM 6"														0.9	875
2916	CEDAR_ELM 9"					9										875
2917	CEDAR_ELM 8"					8										875
2918	CEDAR_ELM 6"					6										875
2919	CEDAR_ELM 9"					9										875
2920	CEDAR_ELM 9"					9										875
2921	CEDAR_ELM 6"					6										875
2922	CEDAR_ELM 6"					6										875
2923	CEDAR_ELM 7"					7										875
2924	CEDAR_ELM 6"					6										875
2925	CEDAR_ELM 6"					6										875
2926	CEDAR_ELM 8"					8										875
2927	CEDAR_ELM 8"					8										875
2928	CEDAR_ELM 7"					7										875
2929	CEDAR_ELM 7"					7										875
2930	CEDAR_ELM 6"					6										875
2931	CEDAR_ELM 6"					6										875
2936	CEDAR_ELM 6"														0.9	875
2937	LO 5"														0.75	875
2938	LO 8"														1.2	875
2939	CEDAR_ELM 6"														0.9	875
2940	CEDAR_ELM 7"														1.05	875
2941	CEDAR_ELM 6"														0.9	875
2944	CEDAR_ELM 6"					6										875
2945	CEDAR_ELM 7"					7										875
2946	CEDAR_ELM 6"					6										875
2955	LO 6"				6											875
2956	LO 7"				7											875
2957	LO 6"				6											875
2961	LO 8"				8											875
2962	CEDAR_ELM 6"				6											875
2963	CEDAR 11"				11											875
2964	CEDAR_ELM 9"				9											875
2966	CEDAR 12"					12										875
2967	CEDAR_ELM 7"					7										875
2968	CEDAR_ELM 7"					7										875
2969	CEDAR_ELM 7"					7										875
2970	PER 6"			6												275
2971	PER 5"			5												275
2972	PER 5"			5												275
2973	CEDAR_ELM 6"					6										875
2974	CEDAR_ELM 9"					9										875
2975	CEDAR_ELM 7"					7										875
2976	CEDAR_ELM 6"					6										875
2979	PER 7"			7												275
2980	CEDAR_ELM 7"														1.05	875
2981	CEDAR_ELM 6"														0.9	875
2982	LAUREL 5"														0.75	0
2983	CEDAR_ELM 6"														0.9	875
2984	CEDAR_ELM 6"					6										875
2985	CEDAR_ELM 6"					6										875
2990	CEDAR_ELM 9"					9										875
2991	CEDAR_ELM 7"														1.05	875
2992	CEDAR_ELM 6"														0.9	875
2993	CEDAR_ELM 7"					7										875
2994	CEDAR_ELM 9"					9										875
2995	CEDAR_ELM 7"					7										875
2996	CEDAR_ELM 13"														1.95	875
2998	LAUREL 5"														0.75	0
2999	LAUREL 5"			5												0
3000	CEDAR_ELM 6"														0.9	875
6001	CEDAR_ELM 8"														1.2	875
6002	CEDAR_ELM 11"					11										875
6003	CEDAR_ELM 7"				7											875
6004	LAUREL 5"		5													
6005	CEDAR_ELM 7"				7											875
6006	CEDAR_ELM 7"				7											875
6007	CEDAR_ELM 7"				7											875
6008	LAUREL 5"		5													
6009	CEDAR_ELM 7"				7											875
6010	CEDAR_ELM 7"														1.05	875
6011	CEDAR_ELM 6"														0.9	875
6012	PER 5"														0.75	275
6013	CEDAR_ELM 7"														1.05	875
6014	CEDAR_ELM 6"														0.9	875
6015	LO 6"					6										875
6016	CEDAR_ELM 8"														1.2	875
6017	CEDAR_ELM 7"														1.05	875
6018	CEDAR_ELM 6"					6										875
6019	CEDAR_ELM 7"					7										875
6023	PER 5"			5												275
6024	CEDAR_ELM 6"					6										875
6025	CEDAR_ELM 6"					6										875
6026	CEDAR_ELM 6"														0.9	875
6027	CEDAR_ELM 6"														0.9	875
6028	CEDAR_ELM 7"														1.05	875
6029	CEDAR_ELM 6"														0.9	875
6030	CEDAR_ELM 8"														1.2	875
6031	PER 5"														0.75	275
6032	LAUREL 5"			5												0
6033	CEDAR_ELM 7"					7										875
6034	CEDAR_ELM 6"					6										875
6035	CEDAR_ELM 8"					8										875
6036	CEDAR_ELM 7"														1.05	875
6037	CEDAR_ELM 9"					9										875
6038	CEDAR_ELM 6"					6										875
6039	CEDAR_ELM 6"					6										875
6040	CEDAR_ELM 9"					9										875
6042	CEDAR_ELM 6"					6										875
6043	CEDAR_ELM 6"					6										875
6044	CEDAR_ELM 6"					6										875
6045	CEDAR_ELM 9"					9										875
6046	CEDAR_ELM 8"					8										875
6047	CEDAR_ELM 7"					7										875
6048	CEDAR_ELM 6"					6										875
6049	CEDAR_ELM 7"					7										875
6050	CEDAR_ELM 6"					6										875
6051	CEDAR_ELM 7"					7										875
6052	CEDAR_ELM 8"					8										875
6053	CEDAR_ELM 7"														1.05	875
6054	CEDAR_ELM 7"														1.05	875
6055	CEDAR_ELM 6"														0.9	875
6056	CEDAR_ELM 7"					7										875

Floodplain Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

Tag #	Species	Exempt	Understory Species* 5.0" - 11.5" Removed	Understory Species* 5.0" - 11.5" Preserved	Significant Tree 6" - 23.5" Removed	Significant Tree 6" - 23.5" Preserved	Significant Tree** 10.0" - 23.5" Removed	Significant Tree** 10.0" - 23.5" Preserved	Heritage 3:1 24" + HERITAGE TREES Removed	Heritage 3:1 24" + HERITAGE TREES Preserved	Heritage 1:1 24" + HERITAGE TREES Removed	Heritage 1:1 24" + HERITAGE TREES Preserved	Heritage 1:1 11.5" + HERITAGE TREES Removed	Heritage 1:1 11.5" + HERITAGE TREES Preserved	Additional Inches Preserved for Mitigation *** Preserved	Tree Canopy Cover Shade Value
6057	CEDAR_ELM 6"					6										875
6058	CEDAR_ELM 7"					7										875
6059	CEDAR_ELM 7"					7										875
6060	CEDAR_ELM 8"														1.2	875
6061	CEDAR_ELM 6"				6											
6062	PER 5"		5													
6063	CEDAR_ELM 6"					6										875
6065	PER 5"			5												275
6066	CEDAR_ELM 10"					10										875
6067	CEDAR_ELM 6"					6										875
6068	CEDAR_ELM 7"					7										875
6069	CEDAR_ELM 8"														1.2	875
6070	CEDAR_ELM 6"														0.9	875
6071	CEDAR_ELM 6"														0.9	875
6072	CEDAR_ELM 8"														1.2	875
6073	CEDAR_ELM 9"														1.35	875
6074	CEDAR_ELM 6"														0.9	875
6075	CEDAR_ELM 6"														0.9	875
6076	CEDAR_ELM 6"														0.9	875
6077	CEDAR_ELM 8"					8										875
6078	LO 5"														0.75	875
6079	LO 6"														0.9	875
6080	LO 5"														0.75	875
6081	LO 8"					8										875
6082	LO 5"														0.75	875
6083	LO 14"														2.1	875
6084	LO 5"														0.75	875
6085	CEDAR_ELM 6"														0.9	875
6086	CEDAR_ELM 7"					7										875
6087	CEDAR_ELM 9"					9										875
6088	CEDAR_ELM 7"					7										875
6089	CEDAR_ELM 6"														0.9	875
6090	CEDAR_ELM 8"														1.2	875
6091	CEDAR_ELM 6"					6										875
6092	CEDAR_ELM 13"					13										875
6093	CEDAR_ELM 7"					7										875
6094	PER 5"			5												275
6095	CEDAR_ELM 9"					9										875
6097	CEDAR_ELM 6"														0.9	875
6098	CEDAR_ELM 7"														1.05	875
6099	CEDAR_ELM 7"														1.05	875
6100	CEDAR_ELM 6"														0.9	875
6101	CEDAR_ELM 12"					12										875
6102	CEDAR_ELM 8"														1.2	875
6103	CEDAR_ELM 7"														1.05	875
6104	CEDAR_ELM 6"														0.9	875
6105	CEDAR_ELM 10"														1.5	875
6106	CEDAR_ELM 6"														0.9	875
6107	CEDAR_ELM 6"					6										875
6108	CEDAR_ELM 6"														0.9	875
6109	CEDAR_ELM 7"														1.05	875
6110	CEDAR_ELM 6"					6										875
6111	PER 6"			6												275
6112	CEDAR_ELM 6"				6											875
6113	CEDAR_ELM 7"				7											875
6114	CEDAR_ELM 6"				6											875
6115	CEDAR_ELM 8"				8											875
6116	CEDAR_ELM 9"					9										875
6117	CEDAR_ELM 6"														0.9	875
6118	CEDAR_ELM 8"					8										875
6119	CEDAR_ELM 6"														0.9	875
6120	CEDAR_ELM 7"					7										875
6121	CEDAR_ELM 6"					6										875
6122	CEDAR_ELM 8"					8										875
6123	CEDAR_ELM 8"					8										875
6124	CEDAR_ELM 9"					9										875
6125	CEDAR_ELM 6"					6										875
6126	CEDAR_ELM 9"					9										875
6127	CEDAR_ELM 8"														1.2	875
6128	CEDAR_ELM 8"														1.2	875
6129	CEDAR_ELM 6"														0.9	875
6130	CEDAR_ELM 6"														0.9	875
6131	CEDAR_ELM 9"														1.35	875
6132	CEDAR_ELM 8"														1.2	875
6133	CEDAR_ELM 7"														1.05	875
6134	CEDAR_ELM 9"														1.35	875
6135	CEDAR_ELM 7"														1.05	875
6136	CEDAR_ELM 8"														1.2	875
6137	CEDAR_ELM 7"				7											875
6138	CEDAR_ELM 6"				6											875
6139	CEDAR_ELM 7"				7											875
6140	CEDAR_ELM 6"				6											875
6141	CEDAR_ELM 7"				7											875
6142	CEDAR_ELM 6"				6											875
6143	CEDAR_ELM 7"				7											875
6144	CEDAR_ELM 6"														0.9	875
6145	CEDAR_ELM 6"					6										875
6146	CEDAR_ELM 7"					7										875
6147	CEDAR_ELM 7"														1.05	875
6148	CEDAR_ELM 6"														0.9	875
6149	CEDAR_ELM 8"					8										875
6150	CEDAR_ELM 8"					8										875
6151	CEDAR_ELM 9"					9										875
6152	CEDAR_ELM 8"					8										875
6153	CEDAR_ELM 9"														1.35	875
6154	CEDAR_ELM 6"					6										875
6155	CEDAR_ELM 6"														0.9	875
6156	CEDAR_ELM 6"														0.9	875
6157	LO 5"														0.75	875
6158	CEDAR_ELM 6"					6										875
6159	CEDAR_ELM 7"					7										875
6161	CEDAR_ELM 9"														1.35	875
6162	CEDAR_ELM 8"														1.2	875
6163	CEDAR_ELM 6"														0.9	875
6164	CEDAR_ELM 6"					6										875
6165	CEDAR_ELM 11"					11										875
6168	CEDAR_ELM 7"					7										875
6169	CEDAR_ELM 7"					7										875
6170	CEDAR_ELM 6"														0.9	875
6171	CEDAR_ELM 6"					6										875
6172	CEDAR_ELM 6"														0.9	875
6173	CEDAR_ELM 9"														1.35	875
6174	CEDAR_ELM 8"														1.2	875
6175	CEDAR_ELM 9"														1.35	875
6176	CEDAR_ELM 7"														1.05	875
6177	CEDAR_ELM 7"														1.05	875
6178	CEDAR_ELM 6"					6										875
6179	CEDAR_ELM 6"					6										875
6180	CEDAR_ELM 8"					8										875
6181	CEDAR_ELM 6"					6										875
6182	CEDAR_ELM 8"					8										875
6183	CEDAR_ELM 6"					6										875
6184	CEDAR_ELM 7"					7										875
6185	CEDAR_ELM 8"					8										875

Floodplain Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

Tag #	Species	Exempt	Understory Species* 5.0" - 11.5" Removed	Understory Species* 5.0" - 11.5" Preserved	Significant Tree 6" - 23.5" Removed	Significant Tree 6" - 23.5" Preserved	Significant Tree** 10.0" - 23.5" Removed	Significant Tree** 10.0" - 23.5" Preserved	Heritage 3:1 24" + HERITAGE TREES Removed	Heritage 3:1 24" + HERITAGE TREES Preserved	Heritage 1:1 24" + HERITAGE TREES Removed	Heritage 1:1 24" + HERITAGE TREES Preserved	Heritage 1:1 11.5" + HERITAGE TREES Removed	Heritage 1:1 11.5" + HERITAGE TREES Preserved	Additional Inches Preserved for Mitigation *** Preserved	Tree Canopy Cover Shade Value
6186	CEDAR_ELM 8"					8										875
6187	LO 6"					6										875
6188	CEDAR_ELM 6"					6										875
6189	CEDAR_ELM 6"					6										875
6190	LO 6"														0.9	875
6191	CEDAR_ELM 7"					7										875
6192	CEDAR_ELM 8"					8										875
6193	CEDAR_ELM 7"					7										875
6194	CEDAR_ELM 6"					6										875
6195	PER 5"				5											275
6196	CEDAR_ELM 10"					10										875
6197	CEDAR_ELM 9"					9										875
6199	CEDAR_ELM 9"					9										875
6200	CEDAR_ELM 8"					8										875
6201	CEDAR_ELM 6"					6										875
6202	CEDAR_ELM 9"					9										875
6203	CEDAR_ELM 7"					7										875
6204	CEDAR_ELM 8"														1.2	875
6205	CEDAR_ELM 7"														1.05	875
6206	CEDAR_ELM 8"														1.2	875
6207	CEDAR_ELM 10"														1.5	875
6208	CEDAR_ELM 7"					7										875
6209	CEDAR_ELM 6"					6										875
6210	CEDAR_ELM 6"					6										875
6211	CEDAR_ELM 7"					7										875
6212	CEDAR_ELM 12"					12										875
6213	CEDAR_ELM 6"					6										875
6214	CEDAR_ELM 6"					6										875
6215	CEDAR_ELM 10"					10										875
6217	CEDAR_ELM 9"					9										875
6218	CEDAR_ELM 6"				6											
6219	CEDAR_ELM 6"					6										875
6220	CEDAR_ELM 6"					6										875
6221	CEDAR_ELM 8"					8										875
6222	CEDAR_ELM 8"					8										875
6223	CEDAR_ELM 6"				6											
6224	CEDAR_ELM 6"					6										875
6225	CEDAR_ELM 6"				6											
6226	CEDAR_ELM 8"				8											
6227	CEDAR_ELM 7"					7										875
6228	CEDAR_ELM 6"					6										875
6229	CEDAR_ELM 9"														1.35	875
6230	CEDAR_ELM 8"				8											
6231	CEDAR_ELM 7"				7											
6232	CEDAR_ELM 7"														1.05	875
6233	CEDAR_ELM 6"														0.9	875
6234	CEDAR_ELM 9"														1.35	875
6235	CEDAR_ELM 6"														0.9	875
6236	CEDAR_ELM 7"														1.05	875
6237	CEDAR_ELM 8"					8										875
6238	CEDAR_ELM 7"														1.05	875
6239	CEDAR_ELM 7"														1.05	875
6240	CEDAR_ELM 6"														0.9	875
6241	CEDAR_ELM 7"					7										875
6242	CEDAR_ELM 9"					9										875
6243	CEDAR_ELM 8"					8										875
6244	CEDAR_ELM 7"					7										875
6245	CEDAR_ELM 8"					8										875
6246	CEDAR_ELM 6"														0.9	875
6247	CEDAR_ELM 8"														1.2	875
6248	CEDAR_ELM 6"														0.9	875
6249	CEDAR_ELM 7"														1.05	875
6250	CEDAR_ELM 10"														1.5	875
6251	CEDAR_ELM 9"														1.35	875
6252	CEDAR_ELM 7"					7										875
6253	CEDAR_ELM 9"					9										875
6254	CEDAR_ELM 6"					6										875
6255	CEDAR_ELM 7"					7										875
6256	CEDAR_ELM 13"					13										875
6257	CEDAR_ELM 7"					7										875
6258	CEDAR_ELM 8"														1.2	875
6259	CEDAR_ELM 7"														1.05	875
6260	CEDAR_ELM 7"														1.05	875
6261	CEDAR_ELM 8"														1.2	875
6262	CEDAR_ELM 7"														1.05	875
6263	CEDAR_ELM 7"														1.05	875
6264	CEDAR_ELM 10"														1.5	875
6265	CEDAR_ELM 7"														1.05	875
6266	CEDAR_ELM 9"														1.35	875
6267	CEDAR_ELM 6"					6										875
6268	CEDAR_ELM 8"					8										875
6269	CEDAR_ELM 7"					7										875
6270	CEDAR_ELM 9"					9										875
6271	CEDAR_ELM 6"					6										875
6272	CEDAR_ELM 6"														0.9	875
6273	CEDAR_ELM 6"					6										875
6274	CEDAR_ELM 9"														1.35	875
6275	CEDAR_ELM 7"					7										875
6276	CEDAR_ELM 9"				9											
6277	CEDAR_ELM 16"				16											
6278	CEDAR_ELM 6"				6											
6279	CEDAR_ELM 6"				6											
6280	CEDAR_ELM 12"					12										875
6281	CEDAR 11"					11										875
6282	CEDAR_ELM 9"														1.35	875
6283	CEDAR_ELM 9"														1.35	875
6284	CEDAR_ELM 7"														1.05	875
6285	CEDAR_ELM 7"														1.05	875
6286	CEDAR_ELM 7"														1.05	875
6287	CEDAR_ELM 6"														0.9	875
6288	CEDAR_ELM 7"														1.05	875
6289	CEDAR_ELM 8"														1.2	875
6290	CEDAR_ELM 8"					8										875
6291	PER 6"				6											275
6292	CEDAR_ELM 6"					6										875
6293	CEDAR_ELM 7"					7										875
6294	CEDAR_ELM 6"					6										875
6305	CEDAR_ELM 7"				7											
6306	CEDAR_ELM 6"				6											
6307	CEDAR_ELM 6"				6											
6308	CEDAR_ELM 6"				6											
6309	LO 8"				8											
6310	CEDAR_ELM 7"				7											
6311	CED

Floodplain Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

Tag #	Species	Exempt	Understory Species* 5.0" - 11.5" Removed	Understory Species* 5.0" - 11.5" Preserved	Significant Tree 6" - 23.5" Removed	Significant Tree 6" - 23.5" Preserved	Significant Tree** 10.0" - 23.5" Removed	Significant Tree** 10.0" - 23.5" Preserved	Heritage 3:1 24" + HERITAGE TREES Removed	Heritage 3:1 24" + HERITAGE TREES Preserved	Heritage 1:1 24" + HERITAGE TREES Removed	Heritage 1:1 24" + HERITAGE TREES Preserved	Heritage 1:1 11.5" + HERITAGE TREES Removed	Heritage 1:1 11.5" + HERITAGE TREES Preserved	Additional Inches Preserved for Mitigation ***	Tree Canopy Cover Shade Value
6331	CEDAR_ELM 6"														0.9	875
6332	CEDAR_ELM 7"														1.05	875
6333	CEDAR_ELM 7"														1.05	875
6334	CEDAR_ELM 9"				9											
6335	CEDAR_ELM 7"					7										875
6336	CEDAR_ELM 8"					8										875
6337	CEDAR_ELM 10"					10										875
6338	CEDAR_ELM 10"					10										875
6339	CEDAR_ELM 6"					6										875
6340	CEDAR_ELM 9"				9											
6341	CEDAR_ELM 7"				7											
6342	CEDAR_ELM 11"				11											
6343	CEDAR_ELM 7"				7											
6344	CEDAR_ELM 6"				6											
6345	CEDAR_ELM 6"				6											
6346	CEDAR_ELM 10"				10											
6347	CEDAR_ELM 10"				10											
6348	CEDAR_ELM 10"				10											
6349	CEDAR_ELM 7"				7											
6350	CEDAR_ELM 8"				8											
6351	CEDAR_ELM 9"				9											
6352	CEDAR_ELM 12"				12											
6353	CEDAR_ELM 9"				9											
6354	CEDAR_ELM 7"				7											
6355	CEDAR_ELM 8"				8											
6363	CEDAR_ELM 7"					7										875
6364	CEDAR_ELM 7"					7										875
6365	CEDAR_ELM 8"					8										875
6366	CEDAR_ELM 9"					9										875
6367	CEDAR_ELM 6"					6										875
6368	CEDAR_ELM 7"					7										875
6369	CEDAR_ELM 16"				16											
6372	CEDAR_ELM 8"					8										875
6379	CEDAR_ELM 6"					6										875
6380	CEDAR_ELM 6"					6										875
6381	CEDAR_ELM 9"					9										875
6382	CEDAR_ELM 7"					7										875
6386	CEDAR_ELM 6"					6										875
6387	CEDAR_ELM 9"					9										875
6388	CEDAR_ELM 8"					8										875
6393	CEDAR_ELM 6"					6										875
6401	CEDAR_ELM 7"				7											
6402	CEDAR_ELM 8"				8											
6403	CEDAR_ELM 12"				12											
6404	CEDAR_ELM 10"				10											
6405	CEDAR_ELM 7"				7											
6406	CEDAR_ELM 7"				7											
6407	CEDAR_ELM 8"				8											
6408	CEDAR_ELM 7"				7											
6409	CEDAR_ELM 6"				6											
6410	CEDAR_ELM 8"				8											
6411	CEDAR_ELM 8"					8										875
6412	CEDAR_ELM 7"				7											
6414	PER 5"		5													
6415	CEDAR_ELM 7"				7											
6416	CEDAR_ELM 8"				8											
6417	CEDAR_ELM 9"				9											
6418	CEDAR_ELM 8"				8											
6419	CEDAR_ELM 7"					7										875
6420	CEDAR_ELM 7"														1.05	875
6421	CEDAR_ELM 7"														1.05	875
6422	CEDAR_ELM 9"														1.35	875
6423	CEDAR_ELM 7"														1.05	875
6424	CEDAR_ELM 7"														1.05	875
6425	CEDAR_ELM 8"					8										875
6426	CEDAR_ELM 8"														1.2	875
6427	CEDAR_ELM 8"														1.2	875
6428	CEDAR_ELM 10"														1.5	875
6429	CEDAR_ELM 9"				9											
6430	CEDAR_ELM 7"				7											
6431	CEDAR_ELM 6"				6											
6441	CEDAR_ELM 6"					6										875
6442	CEDAR_ELM 12"					12										875
6443	CEDAR_ELM 8"					8										875
6447	CEDAR_ELM 7"					7										875
6448	CEDAR_ELM 9"					9										875
6449	CEDAR_ELM 8"					8										875
6450	CEDAR_ELM 13"					13										875
6453	CEDAR_ELM 6"					6										875
6454	CEDAR_ELM 7"					7										875
6455	CEDAR_ELM 11"					11										875
6456	CEDAR_ELM 12"					12										875
6457	CEDAR_ELM 8"					8										875
6458	CEDAR_ELM 12"					12										875
6459	CEDAR_ELM 9"					9										875
6460	CEDAR_ELM 6"					6										875
6461	CEDAR_ELM 8"					8										875
6462	CEDAR_ELM 11"					11										875
6470	LO 26"								26							875
6471	CEDAR_ELM 7"					7										875
6472	CEDAR_ELM 8"					8										875
6475	CEDAR_ELM 7"					7										875
6476	CEDAR_ELM 6"					6										875
6477	CEDAR_ELM 10"					10										875
6478	CEDAR_ELM 8"					8										875
6479	CEDAR_ELM 6"					6										875
6480	CEDAR_ELM 6"														0.9	875
6481	LO 5"														0.75	875
6482	CEDAR_ELM 6"														0.9	875
6483	CEDAR_ELM 6"					6										875
6488	CEDAR_ELM 8"					8										875
6494	CEDAR_ELM 12"														1.8	875
6495	CEDAR_ELM 6"														0.9	875
6496	CEDAR_ELM 6"														0.9	875
6497	CEDAR_ELM 7"														1.05	875
6498	CEDAR_ELM 6"					6										875
6499	CEDAR_ELM 6"					6										875
6500	CEDAR_ELM 8"														1.2	875
6513	PER 6"			6												275
6514	CEDAR_ELM 7"														1.05	875
6515	CEDAR_ELM 7"														1.05	875
6516	CEDAR_ELM 6"														0.9	875
6517	CEDAR_ELM 6"														0.9	875
6518	CEDAR_ELM 6"														0.9	875
6519	CEDAR_ELM 7"														1.05	875
6520	CEDAR_ELM 7"														1.05	875
6521	CEDAR_ELM 6"														0.9	875
6522	CEDAR_ELM 9"														1.35	875
6523	CEDAR_ELM 6"														0.9	875
6524	CEDAR_ELM 7"														1.05	875
6525	CEDAR_ELM 7"														1.05	875
6526	CEDAR_ELM 8"														1.2	875
6527	CEDAR_ELM 6"					6										875
6528	CEDAR_ELM 8"				8											

Floodplain Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

Tag #	Species	Exempt	Understory Species* 5.0" - 11.5" Removed	Understory Species* 5.0" - 11.5" Preserved	Significant Tree 6" - 23.5" Removed	Significant Tree 6" - 23.5" Preserved	Significant Tree** 10.0" - 23.5" Removed	Significant Tree** 10.0" - 23.5" Preserved	Heritage 3:1 24" + HERITAGE TREES Removed	Heritage 3:1 24" + HERITAGE TREES Preserved	Heritage 1:1 24" + HERITAGE TREES Removed	Heritage 1:1 24" + HERITAGE TREES Preserved	Heritage 1:1 11.5" + HERITAGE TREES Removed	Heritage 1:1 11.5" + HERITAGE TREES Preserved	Additional Inches Preserved for Mitigation ***	Tree Canopy Cover Shade Value
6529	CEDAR_ELM 8"					8										875
6530	CEDAR_ELM 6"					6										875
6531	CEDAR_ELM 8"					8										875
6533	CEDAR_ELM 7"					7										875
6534	CEDAR_ELM 9"					9										875
6535	MSO 10"							10								550
6536	CEDAR_ELM 6"					6										875
6537	CEDAR_ELM 6"					6										875
6538	CEDAR_ELM 7"					7										875
6539	CEDAR_ELM 6"					6										875
6540	CEDAR_ELM 6"					6										875
6541	CEDAR_ELM 6"					6										875
6542	CEDAR_ELM 6"					6										875
6543	CEDAR_ELM 8"					8										875
6544	CEDAR_ELM 7"					7										875
6545	LO 8"					8										875
6546	CEDAR_ELM 6"					6										875
6547	CEDAR_ELM 8"					8										875
6548	CEDAR_ELM 8"					8										875
6549	CEDAR_ELM 6"					6										875
6550	CEDAR_ELM 7"					7										875
6551	CEDAR_ELM 8"					8										875
6552	CEDAR_ELM 9"					9										875
6553	CEDAR_ELM 6"					6										875
6554	CEDAR_ELM 6"					6										875
6555	PER 6"				6											275
6556	CEDAR_ELM 6"					6										875
6557	CEDAR_ELM 9"					9										875
6558	CEDAR_ELM 7"					7										875
6559	CEDAR_ELM 7"					7										875
6560	CEDAR_ELM 8"					8										875
6561	CEDAR_ELM 7"														1.05	875
6562	CEDAR_ELM 8"														1.2	875
6563	CEDAR_ELM 6"														0.9	875
6564	CEDAR_ELM 9"														1.35	875
6565	CEDAR_ELM 8"														1.2	875
6566	CEDAR_ELM 10"														1.5	875
6567	CEDAR_ELM 7"						7									
6568	CEDAR_ELM 6"						6									
6569	CEDAR_ELM 7"					9									1.05	875
6570	CEDAR_ELM 6"														0.9	875
6571	CEDAR_ELM 7"														1.05	875
6572	CEDAR_ELM 7"														1.05	875
6573	CEDAR_ELM 7"					7										875
6574	CEDAR_ELM 8"					8										875
6575	CEDAR_ELM 9"					9										875
6576	CEDAR_ELM 8"														1.2	875
6577	CEDAR_ELM 7"						7									
6578	CEDAR_ELM 6"					6										875
6579	CEDAR_ELM 7"					7										875
6580	CEDAR_ELM 7"					7										875
6581	CEDAR_ELM 10"					10										875
6582	CEDAR_ELM 6"					6										875
6583	CEDAR_ELM 7"					7										875
6584	CEDAR_ELM 7"					7										875
6585	CEDAR_ELM 6"					6										875
6586	CEDAR_ELM 7"					7										875
6587	MSO 10"							10								550
6588	CEDAR_ELM 8"					8										875
6589	CEDAR_ELM 10"					10										875
6590	CEDAR_ELM 9"					9										875
6591	CEDAR_ELM 6"														0.9	875
6592	CEDAR_ELM 8"														1.2	875
6593	CEDAR_ELM 6"														0.9	875
6594	CEDAR_ELM 6"														0.9	875
6595	CEDAR_ELM 8"														1.2	875
6596	CEDAR_ELM 6"					6										875
6597	CEDAR_ELM 6"					6										875
6598	CEDAR_ELM 7"														1.05	875
6599	CEDAR_ELM 7"					7										875
6600	CEDAR_ELM 7"					7										875
6601	CEDAR_ELM 7"														1.05	875
6602	CEDAR_ELM 7"														1.05	875
6603	CEDAR_ELM 7"														1.05	875
6604	CEDAR_ELM 8"					8										875
6605	CEDAR_ELM 6"					6										875
6606	CEDAR_ELM 8"					8										875
6607	LO 6"					6										875
6608	CEDAR_ELM 6"					6										875
6609	CEDAR_ELM 6"					6										875
6610	CEDAR_ELM 6"					6										875
6611	CEDAR_ELM 12"					12										875
6612	CEDAR_ELM 7"					7										875
6613	CEDAR_ELM 6"					6										875
6615	CEDAR_ELM 9"						9									
6616	CEDAR_ELM 6"					6										875
6617	CEDAR_ELM 6"					6										875
6618	PER 5"				5											275
6619	CEDAR_ELM 9"					9										875
6620	CEDAR_ELM 7"					7										875
6621	CEDAR_ELM 9"					9										875
6622	CEDAR_ELM 6"					6										875
6623	CEDAR_ELM 12"					12										875
6624	CEDAR_ELM 6"					6										875
6625	CEDAR_ELM 9"					9										875
6626	PER 5"				5											275
6627	CEDAR_ELM 6"					6										875
6628	CEDAR_ELM 9"					9										875
6629	PER 5"				5											275
6630	CEDAR_ELM 7"					7										875
6631	CEDAR_ELM 6"					6										875
6632	CEDAR_ELM 9"														1.35	875
6633	CEDAR_ELM 7"														1.05	875
6634	PER 5"				5											275
6635	CEDAR_ELM 7"					7										875
6636	CEDAR_ELM 10"					10										875
6637	CEDAR_ELM 8"					8										875
6638	CEDAR_ELM 8"					8										875
6639	CEDAR_ELM 8"														1.2	875
6640	CEDAR_ELM 8"														1.2	875
6641	CEDAR_ELM 8"														1.2	875
6642	CEDAR_ELM 12"					12										875
6643	CEDAR_ELM 7"					7										875
6644	CEDAR_ELM 8"														1.2	875
6645	CEDAR_ELM 8"					8										875
6646	CEDAR_ELM 8"					8										875
6647	CEDAR_ELM 6"					6										875
6648	HCK 13"							13								
6649	HCK 11"							11								
6650	CEDAR_ELM 6"					6										875
6651	CEDAR_ELM 6"					6										875
6652	CEDAR_ELM 9"					9										875
6653	CEDAR_ELM 8"					8										875
6654	CEDAR_ELM 6"					6										875

Floodplain Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

Tag #	Species	Exempt	Understory Species* 5.0" - 11.5" Removed	Understory Species* 5.0" - 11.5" Preserved	Significant Tree 6" - 23.5" Removed	Significant Tree 6" - 23.5" Preserved	Significant Tree** 10.0" - 23.5" Removed	Significant Tree** 10.0" - 23.5" Preserved	Heritage 3:1 24" + HERITAGE TREES Removed	Heritage 3:1 24" + HERITAGE TREES Preserved	Heritage 1:1 24" + HERITAGE TREES Removed	Heritage 1:1 24" + HERITAGE TREES Preserved	Heritage 1:1 11.5" + HERITAGE TREES Removed	Heritage 1:1 11.5" + HERITAGE TREES Preserved	Additional Inches Preserved for Mitigation ***	Tree Canopy Cover Shade Value
6655	CEDAR_ELM 8"					8										875
6656	CEDAR_ELM 8"					8										875
6657	CEDAR_ELM 6"					6										875
6658	CEDAR_ELM 7"					7										875
6659	CEDAR_ELM 7"					7										875
6660	CEDAR_ELM 7"					7										875
6661	HCK 12"						12									550
6662	HCK 11"						11									550
6663	HCK 11"						11									550
6672	HCK 10"					10										
6673	CEDAR_ELM 8"				8											875
6674	CEDAR_ELM 6"				6											875
6675	CEDAR_ELM 9"				9											875
6676	CEDAR_ELM 9"				9											875
6677	CEDAR_ELM 8"				8											875
6678	CEDAR_ELM 6"				6											875
6681	CEDAR_ELM 8"				8											875
6682	CEDAR_ELM 7"				7											875
6683	CEDAR_ELM 8"				8											875
6684	CEDAR_ELM 9"				9											875
6685	CEDAR_ELM 7"				7											875
6686	CEDAR_ELM 7"				7											875
6687	CEDAR_ELM 9"				9											875
6688	CEDAR_ELM 7"				7											875
6689	CEDAR_ELM 7"				7											875
6690	CEDAR_ELM 7"				7											875
6691	CEDAR_ELM 8"				8											875
6692	CEDAR_ELM 7"				7											875
6693	CEDAR_ELM 6"				6											875
6694	CEDAR_ELM 8"				8											875
6695	CEDAR_ELM 6"				6											875
6696	CEDAR_ELM 6"				6											875
6697	CEDAR_ELM 6"				6											875
6698	CEDAR_ELM 8"				8											875
6699	CEDAR_ELM 7"				7											875
6700	CEDAR_ELM 6"				6											875
7167	CEDAR_ELM 7"				7											875
7168	CEDAR 13"				13											875
7169	LAUREL 5"			5												0
7170	LAUREL 5"			5												0
7171	CEDAR_ELM 10"				10											875
7172	LAUREL 5"			5												0
7173	LAUREL 6"			6												0
7174	CEDAR_ELM 6"				6											875
7175	LAUREL 5"			5												0
7176	CEDAR_ELM 8"				8											875
7177	HCK 11"						11									550
7178	CEDAR_ELM 7"				7											875
7179	CEDAR 10"				10											875
7180	PER 5"			5												275
7181	PER 5"			5												275
7182	CEDAR 10"				10											875
7183	CEDAR_ELM 9"				9											875
7184	LAUREL 5"			5												0
7185	LO 16"				16											875
7186	CEDAR 10"				10											875
7187	CEDAR_ELM 6"				6											875
7188	LAUREL 5"			5												0
7189	CEDAR 12"				12											875
7190	CEDAR_ELM 9"				9											875
7191	CEDAR_ELM 6"				6											875
7192	LO 13"				13											875
7193	LO 6"				6											875
7194	LO 6"				6											875
7195	LO 6"				6											875
7197	LO 9"				9											875
7198	LO 9"				9											875
7199	LO 6"				6											875
7200	LO 7"				7											875
7407	CEDAR_ELM 6"				6											875
7419	PER 5"			5												275
7420	PER 5"			5												275
7421	CEDAR_ELM 6"				6											875
7422	CEDAR_ELM 6"				6											875
7423	CEDAR_ELM 6"				6											875
7426	CEDAR_ELM 7"				7											875
7427	PER 5"			5												275
7428	PER 5"			5												275
7429	CEDAR_ELM 10"				10											875
7430	CEDAR_ELM 7"				7											875
7431	CEDAR_ELM 8"				8											875
7432	CEDAR_ELM 6"				6											875
7433	CEDAR_ELM 6"				6											875
7434	CEDAR_ELM 6"				6											875
7435	CEDAR_ELM 6"				6											875
7436	PER 5"			5												275
7437	CEDAR_ELM 6"				6											875
7438	CEDAR_ELM 6"				6											875
7439	CEDAR_ELM 6"				6											875
7440	CEDAR_ELM 6"				6											875
7441	CEDAR_ELM 6"				6											875
7442	CEDAR_ELM 9"				9											875
7443	CEDAR_ELM 17"				17											875
7444	CEDAR_ELM 6"				6											875
7445	PER 5"			5												275
7446	CEDAR_ELM 14"				14											875
7447	CEDAR_ELM 6"				6											875
7448	CEDAR_ELM 6"				6											875
7449	CEDAR_ELM 6"				6											875
7450	PER 5"			5												275
7451	CEDAR_ELM 6"				6											875
7452	CEDAR_ELM 7"				7											875
7453	CEDAR 10"				10											875
7456	CEDAR_ELM 6"				6											875
7457	CEDAR_ELM 6"				6											875
7458	CEDAR_ELM 6"				6											875
7459	CEDAR_ELM 7"				7											875
7460	CEDAR_ELM 6"				6											875
7461	CEDAR_ELM 7"				7											875
7462	CEDAR_ELM 6"				6											875
7463	CEDAR_ELM 6"				6											875
7464	CEDAR_ELM 14"				14											875
7465	PER 5"			5												275
7466	CEDAR_ELM 7"				7											875
7467	PER 5"			5												275
7468	CEDAR_ELM 15"				15											875
7469	LAUREL 5"			5												0
7470	CEDAR_ELM 6"				6											875
7471	CEDAR_ELM 6"				6											875
7472	PER 5"			5												275
7473	LAUREL 5"			5												0

Floodplain Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

			Understory Species* 5.0" - 11.5"		Significant Tree 6" - 23.5"		Significant Tree** 10.0" - 23.5"		Heritage 3:1 24" + HERITAGE TREES		Heritage 1:1 24" + HERITAGE TREES		Heritage 1:1 11.5" + HERITAGE TREES				
Tag #	Species	Exempt	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Additional Inches Preserved for Mitigation ***	Tree Canopy Cover Shade Value
7477	PER 5"			5														275
7478	CEDAR_ELM 7"					7												875
7479	PER 5"			5														275
7480	CEDAR_ELM 7"					7												875
7481	PER 5"			5														275
7482	CEDAR_ELM 8"					8												875
7483	PER 5"			5														275
7484	LO 10"					10												875
7485	LO 16"					16												875
7486	PER 5"			5														275
7488	CEDAR_ELM 8"					8												875
7489	PER 5"			5														275
7490	CEDAR_ELM 6"					6												875
7491	CEDAR_ELM 6"					6												875
7492	CEDAR_ELM 9"					9												875
7493	CEDAR_ELM 9"					9												875
7494	CEDAR_ELM 9"					9												875
7495	CEDAR_ELM 6"					6												875
7496	LAUREL 5"			5														0
7497	CEDAR_ELM 6"					6												875
7498	CEDAR_ELM 6"					6												875
7499	CEDAR_ELM 8"					8												875
7500	PER 5"			5														275
123-	CEDAR_ELM 10"					10												875
124-	LO 13"					13												875
125-	CEDAR_ELM 12"					12												875
126-	LO 20"					20												875
128-	CEDAR_ELM 11"					11												875
129-	CEDAR 12"					12												875
130-	LO 26"										26							875
131-	CEDAR_ELM 12"					12												875
132-	LO 20"					20												875
133-	CEDAR 12"																1.8	875
134-	CEDAR 11"																1.65	875
135-	CEDAR 12"																1.8	875
136-	CEDAR_ELM 11"					11												875
137-	LO 8"					8												875
138-	LO 7"					7												875
139-	LO 10"																1.5	875
140-	LO 19"																2.85	875
141-	LO 12"																1.8	875
142-	CEDAR_ELM 15"																2.25	875
143-	LO 7"																1.05	875
144-	LO 9"																1.35	875
145-	LO 9"																1.35	875
146-	LO 11"																1.65	875
147-	CEDAR_ELM 22"					22												875
148-	CEDAR_ELM 11"																1.65	875
149-	LO 12"																1.8	875
150-	LO 10"																1.5	875
151-	LO 29"										29							875
152-	CEDAR_ELM 11"																1.65	875
153-	MSQ 10"							10										550
154-	MSQ 11"							11										550
156-	HCK 12"							12										550
157-	CEDAR_ELM 11"					11												875
159-	CEDAR_ELM 16"					16												875
160-	HCK 10"							10										550
161-	HCK 10"							10										550
164-	LO 11"					11												875
193-	HCK 15"							15										550
194-	LO 7"					7												875
195-	PER 6"			6														275
197-	LO 13"					13												875
198-	LO 9"					9												875
199-	CEDAR_ELM 12"					12												875
200-	CEDAR_ELM 11"					11												875
2125-	LO 27"								27									
2127-	LO 17"				17													
2128-	PER 8"		8															
2129-	PER 7"		7															
2130-	LO 13"					13												875
2131-	LO 11"					11												875
2132-	CEDAR 11"					11												875
2133-	LO 16"					16												875
2134-	CEDAR 11"					11												875
2135-	LO 18"					18												875
2136-	LO 13"																1.95	875
2137-	LO 8"																1.2	875
2138-	LO 17"																2.55	875
2139-	CEDAR 10"																1.5	875
2140-	LO 11"					11												875
2141-	LO 18"					18												875
2142-	LO 9"																1.35	875
2143-	LO 9"																1.35	875
2144-	LO 15"																2.25	875
2145-	LO 19"																2.85	875
2146-	LO 11"																1.65	875
2147-	LO 10"																1.5	875
2148-	LO 16"																2.4	875
2149-	LO 10"																1.5	875
2150-	LO 9"																1.35	875
2151-	LO 10"																1.5	875
2152-	LO 12"					12												875
2153-	LO 20"					20												875
2154-	LO 18"																2.7	875
2155-	LO 6"																0.9	875
2156-	LO 6"																0.9	875
2157-	LO 8"																1.2	875
2158-	LO 8"					8												875
2159-	LO 9"																1.35	875
2160-	LO 13"																1.95	875
2161-	LO 14"																2.1	875
2162-	LO 9"																1.35	875
2166-	LO 8"																1.2	875
2171-	LO 15"					15												875
2172-	LO 12"					12												875
2173-	LO 14"																2.1	875
2174-	LO 14"																2.1	875
2175-	CEDAR 10"				10													
2176-	LO 8"				8													
2177-	LO 8"					8												875
2178-	LO 6"					6												875
2179-	CEDAR 10"																1.5	875
2180-	LO 12"																1.8	875
2187-	LO 18"																2.7	875
2188-	LO 14"																2.1	875
2189-	LO 14"																2.1	875
2192-	LAUREL 8"																1.2	0
2193-	CEDAR_ELM 10"																1.5	875
2194-	LO 15"																2.25	875
2195-	LO 18"																2.7	875
2196-	CEDAR_ELM 10"					10												875
2197-	LO 12"					12												875

Floodplain Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

			Understory Species* 5.0" - 11.5"		Significant Tree 6" - 23.5"		Significant Tree** 10.0" - 23.5"		Heritage 3:1 24" + HERITAGE TREES		Heritage 1:1 24" + HERITAGE TREES		Heritage 1:1 11.5" + HERITAGE TREES				
Tag #	Species	Exempt	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Additional Inches Preserved for Mitigation ***	Tree Canopy Cover Shade Value
2198-	CEDAR_ELM 11"					11												875
2199-	LO 21"					21												875
2206-	LO 8"					8												875
2207-	LO 18"					18												875
2211-	LO 6"					6												875
2222-	LO 33"								33									
2224-	LO 18"				18													
2227-	LAUREL 9"		9															
2228-	PER 6"		6															
2229-	LAUREL 6"		6															
2230-	PER 5"		5															
2231-	PER 9"		9															
2235-	LO 10"					10												875
2236-	LO 8"					8												875
2238-	LO 17"					17												875
2239-	LO 16"					16												875
2240-	LO 19"					19												875
2241-	LO 10"																1.5	875
2242-	LO 21"					21												875
2243-	LO 8"					8												875
2244-	LO 20"					20												875
2311-	CEDAR_ELM 11"				11													
2312-	LO 22"				22													
2313-	CEDAR 13"				13													
2314-	PER 9"		9															
2315-	CEDAR_ELM 11"					11												875
2316-	LO 10"																1.5	875
2317-	CEDAR 10"					10												875
2318-	LO 8"					8												875
2319-	LO 12"				12													
2320-	CEDAR_ELM 11"				11													
2321-	LAUREL 8"		8															
2322-	LO 11"				11													
2323-	LO 12"				12													
2324-	CEDAR_ELM 11"					11												875
2325-	LO 10"					10												875
2326-	LO 15"					15												875
2327-	LO 11"					11												875
2328-	LO 11"					11												875
2329-	LO 11"					11												875
2330-	LO 14"					14												875
2331-	CEDAR_ELM 11"					11												875
2332-	LO 15"																2.25	875
2333-	LO 14"																2.1	875
2334-	LO 16"																2.4	875
2335-	LO 16"																2.4	875
2336-	LO 12"																1.8	875
2337-	LO 12"					12												875
2338-	LO 14"					14												875
2339-	LO 12"																1.8	875
2340-	LO 12"																1.8	875
2341-	LO 7"				7													
2342-	LO 11"				11													
2343-	LO 26"					26												875
2344-	LO 16"					16												875
2345-	LO 10"					10												875
2346-	LO 25"								25									
2368-	CEDAR 16"					16												875
2369-	LO 25"										25							875
2370-	PER 6"			6														275
2371-	LO 6"					6												875
2372-	CEDAR_ELM 11"					11												875
2373-	LO 10"					10												875
2374-	CEDAR_ELM 10"					10												875
2375-	CEDAR 11"					11												875
2376-	LO 9"					9												875
2377-	CEDAR 14"					14												875
2378-	CEDAR_ELM 11"					11												875
2379-	PER 5"			5														275
2380-	CEDAR 11"					11												875
2381-	CEDAR_ELM 10"					10												875
2382-	CEDAR_ELM 11"																1.65	875
2383-	LO 28"										28							875
2384-	CEDAR 10"					10												875
2385-	CEDAR 11"					11												875
2386-	CEDAR_ELM 10"																1.5	875
2387-	CEDAR 12"																1.8	875
2388-	CEDAR_ELM 12"					12												875
2389-	LO 23"					23												875
2390-	LO 18"																2.7	875
2391-	LO 15"																2.25	875
2392-	PER 5"			5														275
2393-	PER 6"																0.9	275
2394-	PER 7"																1.05	275
2396-	LO 18"																2.7	875
2397-	CEDAR_ELM 11"					11												875
2398-	PER 7"																1.05	275
2399-	CEDAR_ELM 12"																1.8	875
2400-	PER 7"			7														275
2401-	CEDAR 10"					10												875
2402-	CEDAR_ELM 15"					15												875
2403-	PER 5"			5														275
2404-	CEDAR_ELM 15"					15												875
2405-	LO 7"					7												875
2406-	LO 6"					6												875
2407-	LAUREL 7"			7														0
2408-	PER 6"			6														275
2409-	PER 7"			7														275
2410-	LO 10"					10												875
2411-	LO 14"					14												875
2412-	CEDAR_ELM 13"					13												875
2413-	LO 5"					5												875
2414-	LO 9"					9												875
2415-	CEDAR_ELM 13"					13												875
2416-	LO 16"				16													
2417-	LO 18"				18													
2418-	HCK 19"						19											550
2419-	HCK 18"						18											550
2420-	HCK 12"						12											550
2421-	PER 5"		5															
2422-	LO 8"																1.2	875
2423-	LO 10"																1.5	875
2424-	LO 8"																1.2	875
2425-	LO 16"																2.4	875
2426-	HCK 11"																1.65	550
2427-	LO 23"																3.45	875
2428-	LO 8"																1.2	875
2429-	LO 9"																1.35	875
2430-	LO 9"																1.35	875
2431-	LO 10"																1.5	875
2432-	LO 6"																0.9	875
2433-	LO 10"					10												875
2435-	LO 8"					8												875
2436-	LO 13"																1.95	875

Floodplain Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

			Understory Species* 5.0" - 11.5"		Significant Tree 6" - 23.5"		Significant Tree** 10.0" - 23.5"		Heritage 3:1 24" + HERITAGE TREES		Heritage 1:1 24" + HERITAGE TREES		Heritage 1:1 11.5" + HERITAGE TREES				
Tag #	Species	Exempt	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Additional Inches Preserved for Mitigation ***	Tree Canopy Cover Shade Value
2437-	CEDAR_ELM 10"					10												875
2438-	LO 6"																0.9	875
2439-	LO 9"																1.35	875
2440-	LO 10"																1.5	875
2441-	LO 8"																1.2	875
2442-	CEDAR_ELM 10"					10												875
2443-	CEDAR_ELM 11"					11												875
2448-	CEDAR_ELM 11"					11												875
2450-	CEDAR_ELM 14"					14												875
2451-	CEDAR_ELM 10"					10												875
2452-	CEDAR_ELM 13"				13													
2453-	LO 26"										26							875
2454-	CEDAR_ELM 10"					10												875
2455-	LO 26"										26							875
2456-	LO 17"					17												875
2457-	CEDAR_ELM 11"					11												875
2458-	CEDAR_ELM 13"					13												875
2459-	PER 6"			6														
2460-	CEDAR_ELM 14"																2.1	875
2461-	PER 6"																0.9	275
2462-	LO 11"					11												875
2463-	CEDAR_ELM 18"					18												875
2464-	CEDAR_ELM 15"																2.25	875
2465-	CEDAR_ELM 11"																1.65	875
2466-	LAUREL 6"																0.9	0
2467-	CEDAR_ELM 11"					11												875
2468-	CEDAR_ELM 11"					11												875
2469-	CEDAR_ELM 12"																1.8	875
2470-	CEDAR_ELM 14"																2.1	875
2471-	CEDAR_ELM 12"																1.8	875
2472-	CEDAR_ELM 11"																1.65	875
2473-	CEDAR_ELM 11"																1.65	875
2474-	CEDAR_ELM 14"																2.1	875
2475-	LO 14"																2.1	875
2476-	CEDAR_ELM 12"																1.8	875
2477-	LO 30"										30							875
2478-	CEDAR_ELM 11"																1.65	875
2479-	CEDAR_ELM 11"					11												875
2480-	LO 34"										34							875
2481-	LO 9"					9												875
2482-	CEDAR_ELM 14"					14												875
2483-	CEDAR_ELM 13"					13												875
2484-	CEDAR_ELM 17"					17												875
2490-	LO 9"					9												875
2496-	CEDAR 15"				15													
2497-	CEDAR_ELM 14"				14													
2498-	CEDAR_ELM 11"																1.65	875
2499-	CEDAR_ELM 11"																1.65	875
2500-	CEDAR_ELM 10"																1.5	875
2525-	HCK 22"							22										550
2526-	HCK 15"							15										550
2527-	HCK 13"							13										550
2528-	HCK 18"						18											
2529-	HCK 26"											26						
2530-	CEDAR_ELM 11"					11												875
2531-	HCK 12"							12										550
2532-	HCK 20"							20										550
2533-	HCK 18"							18										550
2534-	CEDAR_ELM 18"					18												875
2535-	CEDAR_ELM 13"					13												875
2536-	LO 26"										26							875
2537-	PER 6"																0.9	275
2538-	LO 11"																1.65	875
2539-	CEDAR_ELM 11"																1.65	875
2540-	HCK 11"																1.65	550
2541-	CEDAR_ELM 10"																1.5	875
2542-	LO 16"																2.4	875
2543-	LO 13"																1.95	875
2544-	CEDAR_ELM 20"																3	875
2545-	CEDAR_ELM 16"																2.4	875
2548-	HCK 15"							15										550
2549-	HCK 11"							11										550
2560-	HCK 20"																3	550
2561-	HCK 14"																2.1	550
2562-	HCK 12"																1.8	550
2563-	HCK 21"							21										550
2566-	CEDAR 12"					12												875
2565-	CEDAR_ELM 11"					11												875
2566-	LO 14"					14												875
2567-	LO 19"																2.85	875
2568-	LO 20"																3	875
2569-	LO 10"																1.5	875
2570-	LO 12"																1.8	875
2571-	LO 17"																2.55	875
2572-	LO 12"																1.8	875
2575-	LO 27"								27									
2580-	CEDAR_ELM 12"					12												875
2581-	HCK 14"							14										550
2583-	CEDAR_ELM 12"					12												875
2584-	CEDAR_ELM 11"				11													
2585-	LO 15"				15													
2586-	LO 24"								24									
2587-	LO 9"				9													
2588-	LO 19"					19												875
2589-	LO 24"										24							875
2590-	LO 23"					23												875
2591-	LO 32"										32							875
2592-	LO 9"					9												875
2593-	LO 32"										32							875
2594-	CEDAR_ELM 14"					14												875
2595-	CEDAR_ELM 11"					11												875
2596-	LO 35"										35							875
2597-	CEDAR_ELM 10"					10												875
2598-	CEDAR_ELM 12"					12												875
2599-	CEDAR_ELM 11"																1.65	875
2600-	LO 16"																2.4	875
2617-	CEDAR_ELM 10"																1.5	875
2618-	LO 44"										44							875
2619-	CEDAR_ELM 11"				11													
2620-	CEDAR_ELM 12"				12													
2621-	LO 12"				12													
2622-	CEDAR 12"				12													
2623-	CEDAR 12"				12													
2624-	LO 13"				13													
2627-	HCK 12"							12										550
2628-	HCK 10"							10										550
2629-	CEDAR_ELM 18"																2.7	875
2630-	CEDAR_ELM 11"																2.1	875
2631-	LO 10"																1.5	875
2632-	CEDAR_ELM 20"																3	875
2633-	PER 6"																0.9	275
2634-	CEDAR_ELM 14"					14												875
2635-	LO 18"					18												875
2636-	PER 5"				5													275

THE WOODLANDS AT MEDINA HILLS

TREE PRESERVATON PLAN CALCULATIONS (SHEET 3 OF 4) FLOODPLAIN

NO.	REVISIONS DESCRIPTION	BY	DATE

DATE: 3/6/2023
DESIGNED BY: JD
DRAWN BY: JD
CHECKED BY: JG
DRAWING NAME: sh_Tree Preservation (Floodplain).dwg

LJA Engineering, Inc.
1100 NE Loop 410
Suite 850
San Antonio, Texas 78209
Phone 210.503.2700
Fax 210.503.2749
TBPE No. F-1386

JOB NUMBER: SA190-0401A-426

SHEET NO. 11 OF 16 SHEETS

K:\SA190 Lucia Terra, LLC\04014 Woodlands at Medina Hills Sub_PN\426 Site Development Plans\DWG-Sheet\sh_Tree Preservation (Floodplain).dwg
User: rdreesen
Last Modified: Mar 06, 23 - 10:00
Plot Date/Time: Mar 06, 23 - 10:00:01

Floodplain Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

Tag #	Species	Exempt	Understory Species* 5.0" - 11.5" Removed	Understory Species* 5.0" - 11.5" Preserved	Significant Tree 6" - 23.5" Removed	Significant Tree 6" - 23.5" Preserved	Significant Tree** 10.0" - 23.5" Removed	Significant Tree** 10.0" - 23.5" Preserved	Heritage 3:1 24" + HERITAGE TREES Removed	Heritage 3:1 24" + HERITAGE TREES Preserved	Heritage 1:1 24" + HERITAGE TREES Removed	Heritage 1:1 24" + HERITAGE TREES Preserved	Heritage 1:1 11.5" + HERITAGE TREES Removed	Heritage 1:1 11.5" + HERITAGE TREES Preserved	Additional Inches Preserved for Mitigation *** Preserved	Tree Canopy Cover Shade Value
2637-	CEDAR_ELM 13"					13										875
2638-	LO 27"									27						875
2639-	LO 21"														3.15	875
2640-	LO 18"				18											
2641-	LO 12"				12											
2642-	LO 11"				11											
2643-	LO 10"				10											
2644-	LO 14"				14											
2645-	LO 20"				20											
2646-	PER 5"		5													
2647-	CEDAR_ELM 19"					19										875
2648-	LO 11"														1.65	875
2649-	LO 13"														1.95	875
2650-	LO 11"														1.65	875
2651-	LO 12"														1.8	875
2701-	LO 18"					18										875
2702-	CEDAR_ELM 14"					14										875
2703-	CEDAR_ELM 12"					12										875
2704-	LO 10"														1.5	875
2705-	CEDAR_ELM 11"														1.65	875
2706-	LO 8"														1.2	875
2707-	LO 12"														1.8	875
2708-	LO 15"														2.25	875
2709-	CEDAR_ELM 12"														1.8	875
2710-	LO 11"														1.65	875
2711-	LO 14"					14										875
2712-	CEDAR_ELM 11"					11										875
2713-	LO 27"									27						875
2714-	PER 7"				7											275
2715-	LO 20"					20										875
2716-	CEDAR_ELM 14"														2.1	875
2717-	LO 23"					23										875
2718-	LO 27"									27						875
2719-	LO 18"					18										875
2721-	CEDAR 10"					10										875
2722-	PER 6"				6											275
2723-	MSQ 14"								14							550
2724-	PER 5"														0.75	275
2725-	CEDAR_ELM 11"														1.65	875
2726-	LO 13"														1.95	875
2727-	LO 26"									26						875
2728-	LO 24"									24						875
2729-	LO 10"					10										875
2730-	LO 22"					22										875
2731-	LO 21"					21										875
2732-	LO 13"					13										875
2733-	LO 21"					21										875
2734-	LO 24"									24						875
2735-	LO 29"									29						875
2736-	LO 8"					8										875
2739-	LO 11"					11										875
2741-	HCK 10"								10							550
2742-	LO 14"					14										875
2745-	CEDAR_ELM 11"					11										875
2746-	CEDAR_ELM 16"					16										875
2750-	MSQ 14"								14							550
2751-	MSQ 14"								14							550
2752-	MSQ 11"								11							550
2755-	HCK 12"								12							550
2760-	HCK 12"								12							550
2761-	HCK 12"								12							550
2763-	CEDAR_ELM 12"					12										875
2764-	CEDAR 10"					10										875
2765-	CEDAR_ELM 13"					13										875
2766-	LO 24"									24						875
2767-	PER 6"				6											275
2768-	CEDAR_ELM 11"					11										875
2769-	CEDAR_ELM 16"					16										875
2770-	CEDAR_ELM 14"					14										875
2771-	CEDAR_ELM 12"														1.8	875
2772-	CEDAR_ELM 11"														1.65	875
2773-	CEDAR_ELM 12"														1.8	875
2774-	CEDAR 10"														1.5	875
2775-	CEDAR_ELM 13"														1.95	875
2776-	CEDAR_ELM 11"														1.65	875
2777-	LO 11"														1.65	875
2778-	LO 10"														1.5	875
2779-	LO 17"					17										875
2780-	CEDAR_ELM 12"					12										875
2781-	CEDAR_ELM 15"					15										875
2782-	LO 22"					22										875
2783-	LO 19"														2.85	875
2784-	LO 25"									25						875
2785-	CEDAR 11"					11										875
2786-	LO 13"														1.95	875
2787-	LO 12"														1.8	875
2788-	LO 15"														2.25	875
2789-	LO 14"														2.1	875
2790-	LO 12"														1.8	875
2791-	CEDAR_ELM 12"														1.8	875
2792-	LO 20"														3	875
2794-	LO 6"														0.9	875
2795-	LO 6"														0.9	875
2796-	LO 6"														0.9	875
2798-	LO 7"														1.05	875
2808-	PER 8"				8											275
2809-	CEDAR_ELM 11"					11										875
2810-	CEDAR_ELM 22"					22										875
2819-	LO 18"														2.7	875
2820-	LO 18"														2.7	875
2821-	LO 20"														3	875
2822-	LO 14"														2.1	875
2823-	LO 11"														1.65	875
2824-	CEDAR_ELM 14"														2.1	875
2825-	CEDAR_ELM 16"					16										
2826-	CEDAR_ELM 17"					17										
2827-	CEDAR_ELM 17"					17										
2828-	LO 16"														2.4	875
2829-	LO 12"														1.8	875
2830-	CEDAR_ELM 23"														3.45	875
2837-	CEDAR 11"					11										
2838-	CEDAR 11"						11									875
2839-	CEDAR 15"					15										
2842-	CEDAR 12"						12									875
2845-	MSQ 12"														1.8	550
2847-	PER 7"		7													
2848-	LO 11"					11										
285-	LO 11"					11										
286-	LO 6"					6										
2861-	LO 7"					7										
2862-	LAUREL 5"		5													
2863-	LAUREL 6"		6													
2864-	LO 6"					6										
2865-	LO 12"					12										

Floodplain Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

Tag #	Species	Exempt	Understory Species* 5.0" - 11.5" Removed	Understory Species* 5.0" - 11.5" Preserved	Significant Tree 6" - 23.5" Removed	Significant Tree 6" - 23.5" Preserved	Significant Tree** 10.0" - 23.5" Removed	Significant Tree** 10.0" - 23.5" Preserved	Heritage 3:1 24" + HERITAGE TREES Removed	Heritage 3:1 24" + HERITAGE TREES Preserved	Heritage 1:1 24" + HERITAGE TREES Removed	Heritage 1:1 24" + HERITAGE TREES Preserved	Heritage 1:1 11.5" + HERITAGE TREES Removed	Heritage 1:1 11.5" + HERITAGE TREES Preserved	Additional Inches Preserved for Mitigation *** Preserved	Tree Canopy Cover Shade Value
2866-	LO 11"					11										
2867-	CEDAR 13"					13										
2868-	LO 15"					15										
2869-	LO 18"					18										
2870-	CEDAR_ELM 11"					11										
2871-	LO 23"					23										
2872-	PER 5"				5											275
2873-	LO 15"														2.25	875
2874-	LO 15"														2.25	875
2875-	LO 10"					10										
2876-	LO 14"					14										
2877-	LO 12"					12										
2878-	LO 11"						11									875
2879-	LO 14"						14									875
2880-	LO 18"					18										
2881-	LO 27"									27						875
2882-	LO 16"						16									875
2883-	LO 24"								24							
2884-	LO 17"					17										
2885-	CEDAR_ELM 17"					17										
2886-	CEDAR_ELM 12"					12										
2887-	LO 30"								30							
2888-	CEDAR_ELM 12"					12										
2889-	CEDAR_ELM 14"					14										
2890-	LO 21"					21										
2891-	PER 5"			5												
2892-	LAUREL 6"			6												
2894-	LO 19"					19										
2895-	LO 30"								30							
2897-	LO 35"									35						875
2901-	CEDAR 10"														1.5	875
2902-	CEDAR_ELM 11"														1.65	875
2903-	CEDAR_ELM 14"														2.1	875
2904-	CEDAR_ELM 12"														1.8	875
2905-	CEDAR 10"						10									875
2906-	CEDAR_ELM 11"						11									875
2907-	CEDAR_ELM 13"						13									875
2911-	CEDAR_ELM 11"						11									875
2912-	LO 11"														1.65	875
2913-	LO 13"														1.95	875
2914-	CEDAR_ELM 10"														1.5	875
2915-	CEDAR 13"														1.95	875
2916-	LO 9"														1.35	875
2917-	LO 5"														0.75	875
2918-	CEDAR_ELM 11"						11									875
2919-	CEDAR_ELM 10"														1.5	875
2920-	CEDAR_ELM 10"														1.5	875
2921-	CEDAR_ELM 11"														1.65	875
2922-	CEDAR 10"						10									875
2923-	LO 10"						10									875
2924-	CEDAR_ELM 10"														1.5	875
2925-	CEDAR_ELM 11"														1.65	875
2926-	CEDAR_ELM 12"														1.8	875
2927-	CEDAR_ELM 12"					12										
2928-	LO 16"					16										
2929-	LO 23"					23										
2933-	LO 27"														4.05	875
2934-	LO 8"														1.2	875
2935-	LO 18"														2.7	875
2936-	LO 11"														1.65	875
2937-	LO 17"														2.55	875
2938-	LO 19"														2.85	875
2939-	LO 11"														1.65	875
2940-	LO 26"									26						875
2941-	LO 14"														2.1	875
2942-	CEDAR_ELM 12"					12										
2943-	LO 13"					13										
2944-	CEDAR_ELM 11"														1.65	875
2946-	LAUREL 6"				6											
2947-	CEDAR_ELM 12"						12									
2948-	LO 28"									28						
2949-	PER 6"				6											
2950-	LAUREL 7"				7											
2951-	PER 5"				5											
2952-	LO 28"									28						
2953-	LO 22"						22									
2954-	LO 8"						8									
2955-	LO 31"									31						
2956-	LO 16"						16									
2957-	LO 14"														2.1	875
2958-	LO 9"														1.35	875
2959-	LO 17"														2.55	875
2960-	LO 8"														1.2	875
2961-	CEDAR 12"						12									
2962-	CEDAR_ELM 11"						11									
2963-	LO 7"						7									
2964-	CEDAR_ELM 14"						14									
2965-	LO 23"						23									
2966-	CEDAR_ELM 17"														2.55	875
2967-	CEDAR_ELM 14"						14									
2968-	CEDAR_ELM 12"														1.8	875
2969-	CEDAR_ELM 10"														1.5	875
2970-	CEDAR_ELM 14"						14									
2971-	PER 6"				6											
2972-	CEDAR_ELM 14"														2.1	875
2973-	CEDAR_ELM 11"														1.65	875
2974-	CEDAR_ELM 13"						13									
2975-	CEDAR_ELM 10"						10									
2976-	CEDAR_ELM 14"						14									
2977-	CEDAR 11"														1.65	875
2978-	LAUREL 5"														0.75	0
2979-	PER 6"				6											275
2980-	CEDAR_ELM 15"														2.25	875
2981-	LO 16"						16									
2982-	LO 21"						21									
2983-	LO 24"									24						
2984-	CEDAR_ELM 11"						11									
2985-	CEDAR_ELM 10"						10									
2986-	CEDAR_ELM 13"						13									
2987-	CEDAR_ELM 13"						13									
2988-	PER 5"				5											
2989-	CEDAR_ELM 12"														1.8	875
2990-	PER 5"				5											
2991-	CEDAR_ELM 12"						12									
2992-	CEDAR_ELM 11"														1.65	875
2993-	LO 8"														1.2	875
2994-	LO 9"														1.35	875
2995-	CEDAR_ELM 10"														1.5	875
2996-	CEDAR_ELM 10"														1.5	875
2997-	CEDAR_ELM 12"						12									
2998-	CEDAR_ELM 14"						14									
302-	CEDAR 18"						18									
303-	LO 12"						12									
304-	CEDAR_ELM 11"						11									

Floodplain Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

Tag #	Species	Exempt	Understory Species* 5.0" - 11.5" Removed	Understory Species* 5.0" - 11.5" Preserved	Significant Tree 6" - 23.5" Removed	Significant Tree 6" - 23.5" Preserved	Significant Tree** 10.0" - 23.5" Removed	Significant Tree** 10.0" - 23.5" Preserved	Heritage 3:1 24" + HERITAGE TREES Removed	Heritage 3:1 24" + HERITAGE TREES Preserved	Heritage 1:1 24" + HERITAGE TREES Removed	Heritage 1:1 24" + HERITAGE TREES Preserved	Heritage 1:1 11.5" + HERITAGE TREES Removed	Heritage 1:1 11.5" + HERITAGE TREES Preserved	Additional Inches Preserved for Mitigation *** Preserved	Tree Canopy Cover Shade Value
308-	LO 9"					9										875
309-	CEDAR_ELM 12"					12										875
310-	CEDAR_ELM 7"					7										875
311-	LO 19"					19										875
312-	PER 5"				5											275
312*	CEDAR 10"					5										875
313-	CEDAR_ELM 6"					6										875
313*	CEDAR 14"					6										875
316-	CEDAR_ELM 6"					6										875
314*	CEDAR_ELM 11"					6										875
315*	CEDAR_ELM 10"					10										875
328-	CEDAR_ELM 6"					6										875
329-	CEDAR_ELM 6"					6										875
330-	CEDAR_ELM 6"					6										875
330*	CEDAR 13"					6										875
331-	CEDAR 10"					10										875
331*	LO 11"														1.65	875
332-	CEDAR 10"					10										875
332*	CEDAR_ELM 10"														1.5	875
333-	CEDAR 10"					10										875
334-	LAUREL 5"				5											0
334*	LO 7"														1.05	875
335-	CEDAR 12"					12										875
346-	LO 10"					10										875
354-	LO 8"					8										875
371-	CEDAR_ELM 15"				15											875
388-	LO 9"					9										875
389-	CEDAR 18"					18										875
390-	LO 6"					6										875
391-	CEDAR 15"					15										875
392-	HCK 12"														1.8	550
393-	LO 11"														1.65	875
396-	HCK 10"								10							550
501*	MSQ 10"								10							550
503-	HCK 10"								10							550
509-	LO 24"									24						875
517-	LO 30"									30						875
518-	LAUREL 6"				6											0
519-	PER 6"														0.9	275
520-	LO 25"									25						875
521-	LO 6"														0.9	875
522-	LO 8"														1.2	875
523-	LO 5"														0.75	875
524-	LO 7"														1.05	875
525-	LO 5"														0.75	875
526-	LO 7"														1.05	875
527-	PER 7"														1.05	275
528-	LO 16"														2.4	875
529-	LO 16"														2.4	875
530-	LO 15"														2.25	875
531-	LO 22"														3.3	875
532-	LO 11"					11										875
537-	LO 12"														1.8	875
538-	PER 5"														0.75	275
539-	LO 13"														1.95	875
540-	CEDAR_ELM 11"														1.65	875
546-	LO 13"					13										875
549-	CEDAR 10"					10										875
550-	CEDAR_ELM 13"					13										875
551-	CEDAR_ELM 14"					14										875
552-	CEDAR_ELM 11"					11										875
553-	CEDAR_ELM 10"					10										875
554-	CEDAR_ELM 10"														1.5	875
555-	LO 18"														2.7	875
556-	LO 12"														1.8	875
557-	CEDAR 12"														1.8	875
559-	CEDAR_ELM 10"														1.5	875
560-	CEDAR_ELM 11"														1.65	875
561-	CEDAR_ELM 10"														1.5	875
562-	CEDAR_ELM 13"					13										875
563-	CEDAR_ELM 10"					10										875
564-	CEDAR_ELM 15"														2.25	875
565-	CEDAR_ELM 10"														1.5	875
566-	LO 19"														2.85	875
567-	LO 12"														1.8	875
568-	LO 11"														1.65	875
569-	CEDAR_ELM 10"					10										875
570-	CEDAR_ELM 15"					15										875
571-	PER 5"				5											275
572-	CEDAR_ELM 17"					17										875
573-	CEDAR_ELM 13"					13										875
574-	LO 8"														1.2	875
575-	CEDAR_ELM 14"														2.1	875
576-	CEDAR_ELM 13"														1.95	875
577-	CEDAR_ELM 11"					11										875
578-	LO 25"									25						875
579-	CEDAR_ELM 13"					13										875
580-	LO 19"														2.85	875
581-	LO 10"														1.5	875
582-	CEDAR_ELM 13"														1.95	875
583-	CEDAR_ELM 10"														1.5	875
584-	LO 23"														3.45	875
585-	CEDAR_ELM 10"														1.5	875
586-	LO 11"														1.65	875
587-	LO 31"									31						875
588-	CEDAR_ELM 11"														1.65	875
589-	LO 13"														1.95	875
590-	LO 19"					19										875
591-	LO 31"									31						875
592-	CEDAR_ELM 11"					11										875
593-	CEDAR_ELM 11"														1.65	875
594-	LO 13"					13										875
6501-	CEDAR_ELM 6"														0.9	875
6502-	CEDAR_ELM 6"														0.9	875
6503-	CEDAR_ELM 9"														1.35	875
6504-	CEDAR_ELM 9"														1.35	875
6505-	CEDAR_ELM 10"					10										875
6506-	PER 7"				7											275
6507-	CEDAR_ELM 8"					8										875
6508-	PER 5"				5											275
6509-	LO 7"					7										875
6510-	CEDAR_ELM 8"					8										875
6511-	CEDAR_ELM 9"					9										875
6512-	PER 5"														0.75	275
6701-	CEDAR_ELM 8"					8										875
6702-	CEDAR_ELM 8"					8										875
6703-	CEDAR_ELM 10"					10										875
6704-	CEDAR_ELM 6"					6										875
6705-	CEDAR_ELM 6"					6										875
6706-	CEDAR_ELM 6"					6										875
6707-	CEDAR_ELM 7"					7										875
6713-	CEDAR_ELM 9"					9										875
6714-	CEDAR_ELM 12"					12										875
6715-	CEDAR_ELM 6"					6										875

THE WOODLANDS AT MEDINA HILLS

TREE PRESERVATON PLAN CALCULATIONS (SHEET 3 OF 4) FLOODPLAIN

NO.	DESCRIPTION	BY	DATE

REVISIONS

DATE: 3/6/2023
DESIGNED BY: JD
DRAWN BY: JD
CHECKED BY: JG
DRAWING NAME: 9b. Tree Preservation (Floodplain).dwg

LJA Engineering, Inc.
1100 NE Loop 410
Suite 850
San Antonio, Texas 78209
Phone 210.503.2700
Fax 210.503.2749
TBPE No. F-1386

JOB NUMBER: SA190-0401A-426

SHEET NO. 12 OF 16 SHEETS

K:\SA190 Lucia Tierra, LLC\0401A Woodlands at Medina Hills Subd_PA\430 Site Development Plans\DWG-Sheets\9b_Tree Preservation (Floodplain).dwg
User: ntorresser
Last Modified: Mar 06, 23 - 10:00
Plot Date/Time: Mar 06, 23 - 10:00:06

Floodplain Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

Tag #	Species	Exempt	Understory Species* 5.0" - 11.5" Removed	Understory Species* 5.0" - 11.5" Preserved	Significant Tree 6" - 23.5" Removed	Significant Tree 6" - 23.5" Preserved	Significant Tree** 10.0" - 23.5" Removed	Significant Tree** 10.0" - 23.5" Preserved	Heritage 3:1 24" + HERITAGE TREES Removed	Heritage 3:1 24" + HERITAGE TREES Preserved	Heritage 1:1 24" + HERITAGE TREES Removed	Heritage 1:1 24" + HERITAGE TREES Preserved	Heritage 1:1 11.5" + HERITAGE TREES Removed	Heritage 1:1 11.5" + HERITAGE TREES Preserved	Additional Inches Preserved for Mitigation *** Preserved	Tree Canopy Cover Shade Value
6716-	CEDAR_ELM 6"					6										875
6717-	CEDAR_ELM 7"					7										875
6724-	CEDAR_ELM 9"					9										875
6725-	CEDAR_ELM 8"					8										875
6726-	CEDAR_ELM 7"					7										875
6727-	CEDAR_ELM 6"					6										875
6728-	CEDAR_ELM 8"					8										875
6729-	CEDAR_ELM 6"					6										875
6730-	CEDAR_ELM 6"					6										875
6731-	CEDAR_ELM 6"					6										875
6732-	CEDAR_ELM 7"					7										875
6734-	CEDAR_ELM 7"					7										875
6737-	CEDAR_ELM 12"					12										875
705*	PER 5"		5													
708*	CEDAR_ELM 10"				10											
709*	CEDAR 10"				10											
710*	PER 5"		5													
720*	PER 5"		5													
721*	LO 6"				6											
Subtotal Inches		**0**	**502**	**772**	**2,592**	**9,350**	**143**	**740**	**316**	**1,181**	**26**	**24**			**868**	**1,496,300**

Total Shade Value Calculation of Trees to Remain	**1496300**
Total Shade Value of all Existing Trees	1496300

**** Small species: Condalia, Redbud, Tx. Mountain Laurel, Tx. Persimmon, Hawthorn, 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***

****** Mitigation Trees: Unprotected-sized trees to be used for mitigation calculations; subtract inches from mitigation owed***

Floodplain Buffer Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

Tag #	Species	Exempt	Understory Species* 5.0" - 11.5" Removed	Understory Species* 5.0" - 11.5" Preserved	Significant Tree 6" - 23.5" Removed	Significant Tree 6" - 23.5" Preserved	Significant Tree** 10.0" - 23.5" Removed	Significant Tree** 10.0" - 23.5" Preserved	Heritage 3:1 24" + HERITAGE TREES Removed	Heritage 3:1 24" + HERITAGE TREES Preserved	Heritage 1:1 24" + HERITAGE TREES Removed	Heritage 1:1 24" + HERITAGE TREES Preserved	Heritage 1:1 11.5" + HERITAGE TREES Removed	Heritage 1:1 11.5" + HERITAGE TREES Preserved	Additional Inches Preserved for Mitigation *** Preserved	Tree Canopy Cover Shade Value	UNDERSTORY CANOPY CREDIT
177	HCK 11"							11								550	
240	CEDAR 16"					16										875	
244	LO 8"					8										875	
245	LO 9"					9										875	
246	LO 8"					8										875	
247	LO 10"					10										875	
253	LO 15"					15									2.25	875	437.5
254	CEDAR_ELM 11"					11									1.65	875	437.5
255	LO 9"					9										875	
259	LO 8"					8									1.2	875	437.5
260	LO 14"					14									2.1	875	437.5
261	LO 8"					8									1.2	875	437.5
266	LO 10"					10										875	
289	LO 15"					15									2.25	875	437.5
290	LO 8"					8									1.2	875	437.5
291	LO 12"					12									1.8	875	437.5
292	LO 11"					11									1.65	875	437.5
296	LO 15"					15									2.25	875	437.5
297	LO 7"					7									1.05	875	437.5
298	LO 8"					8									1.2	875	437.5
299	LO 9"					9									1.35	875	437.5
300	LO 10"					10									1.5	875	437.5
488	HCK 14"						14										
499	CEDAR_ELM 12"				12												
816	CEDAR_ELM 11"				11												
2016	MSQ 12"						12										
2017	LO 14"				14												
2018	LO 13"				13												
2022	LO 15"				15												
2054	CEDAR_ELM 11"				11												
2056	PER 6"		6														
2057	PER 8"		8														
2058	PER 5"		5														
2059	PER 8"		8														
2118	LO 10"				10												
2120	LO 9"				9												
2126	LO 11"				11												
2127	LO 13"				13												
2128	LO 15"				15												
2129	LO 21"				21												
2130	LAUREL 5"		5														
2141	LO 15"				15												
2150	CEDAR_ELM 10"				10												
2153	LAUREL 5"			5												0	
2169	LO 6"				6												
2170	CEDAR_ELM 6"				6												
2171	CEDAR_ELM 8"				8												
2187	CEDAR 10"				10												
2199	PER 5"		5														
2248	LO 17"				17												
2249	LO 16"				16												
2253	LO 20"				20												
2254	LO 20"				20												
2255	LO 23"				23												
2260	LO 17"				17												
2265	CEDAR_ELM 11"				11												
2266	CEDAR 12"				12												
2267	LO 14"				14												
2268	LO 10"				10												
2269	LO 11"				11												
2270	LO 8"				8												
2272	LO 13"				13												
2273	LO 13"				13												
2275	LO 16"				16												
2276	CEDAR_ELM 10"				10												
2277	LO 9"				9												
2278	LO 20"				20												
2279	LO 13"				13												
2280	LO 15"				15												
2283	LO 14"				14												
2284	LO 12"				12												
2285	CEDAR 11"				11												
2287	CEDAR 11"				11												
2288	LO 11"				11												
2289	LO 13"				13												
2291	LO 13"				13												
2292	LO 6"				6												
2293	LO 12"				12												
2294	LO 11"				11												
2295	CEDAR 12"				12												
2296	LO 9"				9												
2297	LO 5"				5												
2298	LO 9"				9												
2299	LO 8"				8												
2300	LO 10"				10												
2506	CEDAR_ELM 6"				6												
2510	LAUREL 5"		5														
2511	CEDAR_ELM 6"				6												
2512	LAUREL 5"		5														
2513	CEDAR_ELM 8"				8												
2516	CEDAR_ELM 6"				6												
2517	CEDAR_ELM 6"				6												
2518	PER 5"		5														
2519	CEDAR_ELM 6"				6												
2523	LO 11"				11												
2540	CEDAR 10"				10												
2566	PER 6"		6														
2588	LAUREL 6"		6														
2590	PER 5"		5														
2591	LAUREL 5"		5														
2592	LAUREL 6"		6														
2604	LAUREL 5"		5														
2607	PER 5"		5														
2617	PER 5"		5														
2618	PER 5"		5														
2619	PER 5"		5														
2620	PER 5"		5														
2621	CEDAR_ELM 6"				6												
2622	PER 5"		5														
2679	PER 5"			5												275	
2680	CEDAR_ELM 8"					8										875	
2711	CEDAR 10"					10										875	
2733	LO 5"					5									0.75	875	437.5
2734	LO 6"					6									0.9	875	437.5
2735	LO 5"					5									0.75	875	437.5
2736	LO 5"					5									0.75	875	437.5
2743	LO 5"					5									0.75	875	437.5
2744	LO 5"					5									0.75	875	437.5
2745	LO 5"					5									0.75	875	437.5
2746	LO 5"					5									0.75	875	437.5
2747	LO 5"					5									0.75	875	437.5
2763	CEDAR_ELM 8"				8												

Floodplain Buffer Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

Tag #	Species	Exempt	Understory Species* 5.0" - 11.5" Removed	Understory Species* 5.0" - 11.5" Preserved	Significant Tree 6" - 23.5" Removed	Significant Tree 6" - 23.5" Preserved	Significant Tree** 10.0" - 23.5" Removed	Significant Tree** 10.0" - 23.5" Preserved	Heritage 3:1 24" + HERITAGE TREES Removed	Heritage 3:1 24" + HERITAGE TREES Preserved	Heritage 1:1 24" + HERITAGE TREES Removed	Heritage 1:1 24" + HERITAGE TREES Preserved	Heritage 1:1 11.5" + HERITAGE TREES Removed	Heritage 1:1 11.5" + HERITAGE TREES Preserved	Additional Inches Preserved for Mitigation *** Preserved	Tree Canopy Cover Shade Value	UNDERSTORY CANOPY CREDIT
2767	CEDAR_ELM 6"					6										875	
2768	CEDAR_ELM 6"					6										875	
2769	CEDAR_ELM 9"					9										875	
2770	CEDAR_ELM 6"					6										875	
2868	CEDAR_ELM 8"				8												
2895	CEDAR_ELM 9"				9												
2906	CEDAR_ELM 7"				7												
2907	CEDAR_ELM 9"				9												
2908	CEDAR_ELM 8"				8												
2909	CEDAR_ELM 7"				7												
2910	CEDAR_ELM 7"				7												
2932	LO 5"					5									0.75	875	437.5
2933	LO 5"					5									0.75	875	437.5
2934	CEDAR_ELM 6"					6										875	
2935	CEDAR_ELM 10"					10										875	
2942	CEDAR_ELM 6"					6										875	
2943	CEDAR_ELM 7"					7										875	
2952	CEDAR_ELM 7"					7										875	
2953	LAUREL 5"		5														
2954	CEDAR_ELM 6"				6												
2958	LO 6"				6												
2959	PER 5"		5														
2960	LO 8"				8												
2965	PER 7"			7												275	
2977	CEDAR_ELM 8"				8												
2978	CEDAR_ELM 10"				10												
2986	CEDAR_ELM 6"					6									0.9	875	437.5
2987	PER 5"			5											0.75	275	137.5
2988	CEDAR_ELM 9"					9									1.35	875	437.5
2989	CEDAR_ELM 15"					15										875	
2997	CEDAR_ELM 7"					7										875	
6020	CEDAR_ELM 6"					6										875	
6021	CEDAR_ELM 6"					6										875	
6022	CEDAR_ELM 9"					9										875	
6041	CEDAR_ELM 7"					7										875	
6064	CEDAR_ELM 7"					7										875	
6096	CEDAR_ELM 6"					6									0.9	875	437.5
6160	CEDAR_ELM 7"					7										875	
6166	CEDAR_ELM 7"					7										875	
6167	CEDAR_ELM 9"					9										875	
6295	HCK 12"						12										
6303	CEDAR_ELM 7"				7												
6317	CEDAR_ELM 7"					7										875	
6318	CEDAR_ELM 7"				7												
6322	CEDAR_ELM 9"				9												
6323	CEDAR 12"					12										875	
6324	CEDAR_ELM 7"					7										875	
6328	CEDAR_ELM 7"					7										875	
6363	CEDAR_ELM 8"				8												
6370	CEDAR_ELM 10"				10												
6371	CEDAR_ELM 6"					6										875	
6373	CEDAR_ELM 9"					9										875	
6373	CEDAR_ELM 6"					6										875	
6374	CEDAR_ELM 9"					9									1.35	875	437.5
6375	CEDAR_ELM 8"					8									1.2	875	437.5
6376	CEDAR_ELM 6"					6									0.9	875	437.5
6377	CEDAR_ELM 8"					8									1.2	875	437.5
6378	CEDAR_ELM 7"					7										875	
6383	CEDAR_ELM 6"					6									0.9	875	437.5
6384	CEDAR_ELM 8"					8									1.2	875	437.5
6385	CEDAR_ELM 6"					6										875	
6389	CEDAR_ELM 8"					8										875	
6390	CEDAR_ELM 6"					6										875	
6391	CEDAR_ELM 9"					9										875	
6392	CEDAR_ELM 11"					11										875	
6394	CEDAR_ELM 10"					10										875	
6395	LO 17"					17										875	
6396	CEDAR_ELM 6"					6										875	
6397	CEDAR_ELM 7"					7										875	
6398	CEDAR_ELM 7"					7										875	
6399	CEDAR_ELM 9"					9										875	
6400	CEDAR_ELM 16"					16										875	
6444	CEDAR_ELM 7"					7										875	
6445	CEDAR_ELM 8"					8										875	
6446	CEDAR_ELM 7"					7										875	
6451	CEDAR_ELM 6"					6										875	
6452	CEDAR_ELM 7"					7										875	
6463	CEDAR_ELM 11"					11									1.65	875	437.5
6464	CEDAR_ELM 7"					7									1.05	875	437.5
6465	CEDAR_ELM 10"					10									1.5	875	437.5
6466	CEDAR_ELM 6"					6									0.9	875	437.5
6467	CEDAR_ELM 10"					10										875	
6468	CEDAR_ELM 6"					6										875	
6469	CEDAR_ELM 6"					6										875	
6473	LO 16"					16										875	
6474	LO 7"					7										875	
6484	CEDAR_ELM 6"					6										875	
6485	CEDAR_ELM 6"					6										875	
6486	CEDAR_ELM 6"					6										875	
6487	MSQ 11"						11									550	
6489	CEDAR_ELM 8"					8										875	
6490	CEDAR_ELM 7"					7										875	
6491	CEDAR_ELM 7"					7										875	
6492	CEDAR_ELM 7"					7										875	
6493	CEDAR_ELM 6"					6										875	
6670	CEDAR_ELM 6"				6												
6671	CEDAR_ELM 8"				8												
6679	HCK 10"						10									550	
6680	CEDAR_ELM 8"					8										875	
7455	PER 5"			5												275	
2126-	CEDAR_ELM 15"				15												
2165-	LO 12"					12										875	
2167-	LO 15"					15										875	
2168-	LAUREL 6"			6												0	
2181-	LAUREL 7"			7											1.05	0	0
2182-	LAUREL 8"			8											1.2	0	0
2183-	LAUREL 6"			6											0.9	0	0
2184-	PER 8"			8												275	
2185-	LO 14"					14										875	
2191-	LO 8"					8										875	
2200-	LO 21"					21										875	
2208-	LO 14"					14									2.1	875	437.5
2209-	LO 17"					17									2.55	875	437.5
2210-	LO 17"					17									2.55	875	437.5
2212-	LO 10"					10										875	
2213-	CEDAR_ELM 7"					7										875	
2214-	LO 14"					14										875	
2215-	LAUREL 10"			10												0	
2216-	CEDAR_ELM 12"					12										875	
2217-	LO 10"					10										875	
2218-	LO 14"					14										875	
2219-	LO 11"					11										875	
2220-	CEDAR 10"				10												
2221-	CEDAR 14"				14												
2223-	CEDAR 10"				10												
2225-	CEDAR 10"				10												
2232-	LO 9"				9												
2233-	LO 8"				8												
2234-	LO 8"				8												
2237-	LO 9"				9												
2245-	LO 14"				14												
2246-	LO 17"				17												
2247-	LO 16"				16												
2301-	LO 9"				9												
2302-	PER 5"		5														
2303-	LO 11"				11												
2304-	CEDAR_ELM 10"				10												
2305-	PER 8"		8														
2306-	CEDAR 12"				12												
2308-	PER 7"		7														
2309-	CEDAR 12"				12												
2310-	LO 11"				11												
2449-	CEDAR 15"					15										875	
2485-	LO 9"					9									1.35	875	437.5
2486-	LO 10"					10									1.5	875	437.5
2487-	LO 7"					7									1.05	875	437.5
2488-	LO 10"					10									1.5	875	437.5
2489-	LO 9"					9									1.35	875	437.5
2492-	LO 10"					10									1.5	875	437.5
2494-	LO 10"					10										875	
2495-	LO 9"					9										875	
2547-	HCK 22"						22										
2576-	CEDAR 10"				10												
2579-	HCK 12"						12										
2582-	CEDAR 10"					10										875	
2720-	CEDAR 16"					16										875	
2737-	LO 8"					8										875	
2738-	LO 7"					7										875	
2740-	LO 7"					7										875	
2743-	CEDAR 10"					10									1.5	875	437.5
2744-	CEDAR 16"					16									2.4	875	437.5
2753-	HCK 12"						12									550	
2762-	HCK 11"						11									550	
2793-	LO 7"					7									1.05	875	437.5
2797-	LO 7"					7										875	
2836-	LO 10"					10										875	
384-	LO 6"					6										875	
2840-	CEDAR 11"					11										875	
2841-	LO 10"					10										875	
2843-	PER 5"			5												275	
2844-	PER 6"			6												275	
2846-	LO 18"					18										875	
2893-	CEDAR 14"				14												
2896-	PER 5"		5														
2898-	LO 15"					15										875	
2945-	LO 10"					10										875	
301-	CEDAR 16"					16										875	
305-	LO 6"					6										875	

Floodplain Buffer Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

Tag #	Species	Exempt	Understory Species* 5.0" - 11.5" Removed	Understory Species* 5.0" - 11.5" Preserved	Significant Tree 6" - 23.5" Removed	Significant Tree 6" - 23.5" Preserved	Significant Tree** 10.0" - 23.5" Removed	Significant Tree** 10.0" - 23.5" Preserved	Heritage 3:1 24" + HERITAGE TREES Removed	Heritage 3:1 24" + HERITAGE TREES Preserved	Heritage 1:1 24" + HERITAGE TREES Removed	Heritage 1:1 24" + HERITAGE TREES Preserved	Heritage 1:1 11.5" + HERITAGE TREES Removed	Heritage 1:1 11.5" + HERITAGE TREES Preserved	Additional Inches Preserved for Mitigation *** Preserved	Tree Canopy Cover Shade Value	UNDERSTORY CANOPY CREDIT
306-	LO 5"					5											
307-	LO 6"					6									0.9	875	437.5
308*	LO 8"					8									1.2	875	437.5
309*	LO 8"					8									1.2	875	437.5
330*	LO 17"					17										875	
316*	LO 10"					10										875	
324*	LO 12"					12										875	
325*	CEDAR 12"					12										875	
326*	CEDAR 10"					10										875	
327*	LO 12"					12										875	
328*	LO 7"					7										875	
372-	CEDAR 15"					15										875	
383-	LO 6"					6										875	
384-	LO 10"					10										875	
385-	LO 11"					11										875	
386-	LO 7"					7									1.05	875	437.5
395-	LO 11"					11										875	
501*	CEDAR_ELM 11"					11										875	
504-	MSQ 12"						12										
535+	LO 10"					10										875	
536+	LO 23"					23									3.45	875	437.5
542+	LO 11"					11									1.65	875	437.5
543+	LO 10"					10									1.5	875	437.5
544+	LO 9"					9									1.35	875	437.5
545+	LO 12"					12									1.8	875	437.5
547+	LO 13"					13									1.95	875	437.5
548+	LO 18"					18									2.7	875	437.5
558+	CEDAR 18"					18										875	
598+	MSQ 10"						10										
670I-	CEDAR_ELM 7"				7												
671I-	CEDAR_ELM 6"				6												
671I-	CEDAR_ELM 7"				7												
671I-	CEDAR_ELM 7"				7												
671R-	CEDAR_ELM 7"					7										875	
671S-	CEDAR_ELM 6"					6										875	
672I-	CEDAR_ELM 6"					10									1.5	875	437.5
672I-	CEDAR_ELM 6"					6									0.9	875	437.5
672I-	CEDAR_ELM 6"														0.9	875	437.5
672I-	CEDAR_ELM 6"														0.9	875	437.5
673I-	CEDAR_ELM 7"															875	
673S-	CEDAR_ELM 8"															875	
673R-	CEDAR_ELM 6"																
673B-	MSQ 11"																
679I-	CEDAR_ELM 8"																

Upland Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

Tag #	Species	Exempt	Understory Species* 5.0" - 11.5" Removed	Understory Species* 5.0" - 11.5" Preserved	Significant Tree 6" - 23.5" Removed	Significant Tree 6" - 23.5" Preserved	Significant Tree** 10.0" - 23.5" Removed	Significant Tree** 10.0" - 23.5" Preserved	Heritage 3:1 24" + HERITAGE TREES Removed	Heritage 3:1 24" + HERITAGE TREES Preserved	Heritage 1:1 24" + HERITAGE TREES Removed	Heritage 1:1 24" + HERITAGE TREES Preserved	Heritage 1:1 11.5" + HERITAGE TREES Removed	Heritage 1:1 11.5" + HERITAGE TREES Preserved	Additional Inches Preserved for Mitigation *** Preserved	Tree Canopy Cover Shade Value
326	LO 5"	5														
2119	LO 10"				10											
2144	LO 6"				6											
2145	LO 19"				19											
2146	CEDAR_ELM 9"				9											
2147	LO 10"				10											
2148	PER 5"			5												
2149	LAUREL 5"			5												
2168	CEDAR 12"				12											
2172	CEDAR_ELM 11"				11											
2173	CEDAR_ELM 7"				7											
2174	CEDAR_ELM 7"				7											
2175	CEDAR_ELM 7"				7											
2176	LO 13"				13											
2177	LO 8"				8											
2178	CEDAR_ELM 8"				8											
2179	CEDAR_ELM 10"				10											
2180	CEDAR_ELM 6"				6											
2181	CEDAR_ELM 8"				8											
2182	CEDAR_ELM 7"				7											
2183	LO 11"				11											
2185	CEDAR_ELM 9"				9											
2186	CEDAR_ELM 8"				8											
2507	CEDAR_ELM 10"				10											
2508	CEDAR_ELM 11"				11											
2509	CEDAR 10"				10											
2539	CEDAR 10"				10											
2542	LO 16"				16											
2543	PER 5"			5												
2553	PER 9"			9												
2554	MSQ 15"						15									
2555	PER 6"			6												
2556	LAUREL 8"			8												
2557	PER 5"			5												
2558	PER 5"			5												
2559	PER 5"			5												
2560	PER 5"			5												
2561	PER 5"			5												
2562	LAUREL 7"			7												
2563	PER 5"			5												
2564	PER 5"			5												
2565	PER 6"			6												
2567	PER 5"			5												
2568	PER 5"			5												
2569	PER 6"			6												
2570	PER 5"			5												
2571	LO 10"				10											
2572	PER 5"			5												
2573	PER 5"			5												
2589	CEDAR 11"				11											
2605	LAUREL 6"			6												
2606	LAUREL 5"			5												
2732	LO 5"	5														
2733	LO 5"	5														
2735	LO 5"	5														
2736	LO 5"	5														
2737	LO 6"	6														
2738	LO 5"	5														
2739	LO 5"	5														
2740	LO 5"	5														
2742	LO 5"	5														
2743	LO 5"	5														
2744	LO 5"	5														
2745	LO 5"	5														
2746	LO 5"	5														
2747	LO 5"	5														
2764	CEDAR_ELM 6"					6										875
2765	CEDAR_ELM 7"					7										875
2766	CEDAR_ELM 9"					9										875
2865	CEDAR_ELM 10"				10											
2866	HCK 11"						11									
2867	HCK 12"						12									
2869	LO 5"	5														
2896	CEDAR_ELM 7"				7											
2897	CEDAR_ELM 7"				7											
2898	CEDAR_ELM 9"				9											
2899	HCK 10"						10									
2900	CEDAR_ELM 10"				10											
2901	CEDAR_ELM 6"				6											
2902	CEDAR_ELM 7"				7											
2903	CEDAR_ELM 10"				10											
2904	CEDAR_ELM 10"				10											
2905	CEDAR_ELM 6"				6											
2947	CEDAR_ELM 6"					6										875
2948	LO 5"					5										875
2949	CEDAR_ELM 6"					6										875
2950	CEDAR_ELM 14"					14										875
2951	CEDAR_ELM 7"					7										875
6078	LO 5"	5														
6080	LO 5"	5														
6082	LO 5"	5														
6084	LO 5"	5														
6157	LO 5"	5														
6198	LO 5"	5														
6216	LO 5"	5														
6296	CEDAR_ELM 6"				6											
6297	CEDAR_ELM 7"				7											
6298	CEDAR_ELM 7"				7											
6299	LO 5"	5														
6300	CEDAR_ELM 6"				6											
6301	CEDAR_ELM 8"				8											
6302	LO 5"	5														
6304	CEDAR_ELM 6"				6											
6319	CEDAR_ELM 8"				8											
6320	CEDAR_ELM 13"				13											
6321	CEDAR_ELM 8"				8											
6357	CEDAR_ELM 8"				8											
6358	CEDAR_ELM 9"				9											
6359	CEDAR_ELM 6"				6											
6360	CEDAR_ELM 7"				7											
6413	LO 5"	5														
6432	CEDAR_ELM 12"				12											
6433	CEDAR_ELM 6"				6											
6434	CEDAR_ELM 7"				7											
6435	MSQ 10"						10									
6436	CEDAR_ELM 8"				8											
6437	CEDAR_ELM 9"				9											
6438	CEDAR_ELM 10"				10											
6439	CEDAR_ELM 7"				7											
6440	MSQ 10"						10									
6481	LO 5"	5														
6614	LO 5"	5														
6664	MSQ 10"						10									
6665	CEDAR_ELM 6"				6											

Upland Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

Tag #	Species	Exempt	Understory Species* 5.0" - 11.5" Removed	Understory Species* 5.0" - 11.5" Preserved	Significant Tree 6" - 23.5" Removed	Significant Tree 6" - 23.5" Preserved	Significant Tree** 10.0" - 23.5" Removed	Significant Tree** 10.0" - 23.5" Preserved	Heritage 3:1 24" + HERITAGE TREES Removed	Heritage 3:1 24" + HERITAGE TREES Preserved	Heritage 1:1 24" + HERITAGE TREES Removed	Heritage 1:1 24" + HERITAGE TREES Preserved	Heritage 1:1 11.5" + HERITAGE TREES Removed	Heritage 1:1 11.5" + HERITAGE TREES Preserved	Additional Inches Preserved for Mitigation *** Preserved	Tree Canopy Cover Shade Value
6666	CEDAR_ELM 8"				8											
6667	CEDAR_ELM 6"				6											
6668	CEDAR_ELM 6"				6											
6669	CEDAR_ELM 6"				6											
6708-	CEDAR_ELM 8"				8											
7196	LO 5"	5														
7454	PER 5"	5														
7687	PER 5"	5														
2574-	LO 12"				12											
2577-	HCK 11"						11									
2578-	PER 7"			7												
2747-	MSQ 11"						11									
2748-	MSQ 12"						12									
2749-	MSQ 10"						10									
2756-	CEDAR 10"				10											
2757-	CEDAR 13"				13											
2758-	MSQ 12"						12									
2759-	MSQ 10"						10									
2626-	CEDAR_ELM 12"				12											
2055	CEDAR 10"				10											
2250	LO 5"	5														
2307-	LO 14"				14											
2446-	CEDAR_ELM 11"				11											
2447-	CEDAR_ELM 10"				10											
2491-	LO 5"	5														
2493-	LO 5"	5														
2908-	CEDAR_ELM 11"				11											
2909-	MSQ 12"						12									
2910-	MSQ 11"						11									
2917-	LO 5"	5														
2930-	CEDAR_ELM 10"				10											
2931-	CEDAR_ELM 10"				10											
2999-	CEDAR_ELM 11"					11										875
3000-	CEDAR 10"					10										875
595=	MSQ 10"							10								550
523=	LO 5"	5														
295	LO 5"	5														
306-	LO 5"	5														
381-	LO 5"				5											
382-	LO 6"				6											
387-	LO 5"	5														
398-	LO 13"					13										875
399-	CEDAR_ELM 10"					10										875
400-	LO 7"					7										875
401	LO 6"					6										875
402	LO 7"					7										875
403	LO 6"				6											
406	MSQ 11"						11									
430	LO 5"	5														
433	LO 5"	5														
476	LO 24"								24							
478	LAUREL 5"			5												
481	LO 20"				20											
485	LO 22"				22											
489	LO 21"				21											
493	LO 18"				18											
100374	10 HACKBERRY							10								875
100375	17 MESQUITE							17								550
100377	16 MESQUITE							16								550
100378	14 MESQUITE							14								550
100404	14 MESQUITE						14									
100405	16 MESQUITE						16									
100502	12 HACKBERRY						12									
100505	11 ELM				11											
100506	11 ELM				11											
100507	10 ELM				10											
100508	10 MESQUITE							10								550
100596	37 PLATEAU OAK										37					1200
100597	10 HACKBERRY							10								875
102060	9 PLATEAU OAK	9														
102061	9 PLATEAU OAK	9														
102062	18 PLATEAU OAK	18														
102063	10 MESQUITE	10														
102064	14 MESQUITE	14														
102065	7 SYCAMORE	7														
102066	5 TEXAS PERSIMMON	5														
102067	6 TEXAS PERSIMMON	6														
102068	9 PLATEAU OAK	9														
102069	16 PLATEAU OAK	16														
102070	6 LAUREL	6														
102071	10 LAUREL	10														
102072	7 TEXAS PERSIMMON	7														
102073	5 TEXAS PERSIMMON	5														
102074	5 TEXAS PERSIMMON	5														
102075	5 TEXAS PERSIMMON	5														
102076	17 CEDAR	17														
102078	11 PLATEAU OAK	11														
102079	7 PLATEAU OAK	7														
102080	12 PLATEAU OAK	12														
102081	10 PLATEAU OAK	10														
102082	8 PLATEAU OAK	8														
102083	9 PLATEAU OAK	9														
102084	9 PLATEAU OAK	9														
102085	7 LAUREL	7														
102086	12 CEDAR	12														
102087	11 PLATEAU OAK	11														
102088	10 PLATEAU OAK	10														
102089	12 CEDAR	12														
102090	14 CEDAR	14														
102091	8 PLATEAU OAK	8														
102092	8 PLATEAU OAK	8														
102093	20 CEDAR	20														
102094	12 CEDAR	12														
102095	12 CEDAR	12														
102096	6 PLATEAU OAK	6														
102097	6 PLATEAU OAK	6														
102098	11 CEDAR	11														
102099	7 PLATEAU OAK	7														
102100	12 CEDAR	12														
102123	22 CEDAR (Out of Bounds)															
102124	13 CEDAR	13														
102444	14 MESQUITE						14									
102445	5 PERSIMMON		5													
102546	11 MESQUITE						11									
102601	25 LIVE OAK								25							
102602	6 LIVE OAK				6											
102603	7 LIVE OAK	7														
102604	21 CEDAR						21									
102605	21 CEDAR						21									
102606	11 CEDAR							11								875
102607	5 MOUNTAIN LAUREL			5												275
102608	14 MOUNTAIN LAUREL											14				275
102609	9 MOUNTAIN LAUREL			9												275
102610	14 MOUNTAIN LAUREL											14				275
102611	13 MESQUITE							13								550
102612	28 LIVE OAK										28					1200
102613	14 ELM CEDAR							14								875
102614	15 MESQUITE							15								550
102615	10 ELM CEDAR						10									
102616	10 ELM CEDAR						10									
102899	15 MOUNTAIN LAUREL											15				
102900	27 LIVE OAK								27							
Subtotal Inches		**618.0**	**145.0**	**14.0**	**803.0**	**124.0**	**307.0**	**140.0**	**76.0**	**65.0**	**15.0**	**28.0**	**0.0**	**0.0**	**0.0**	**23,975.0**

Total Shade Value Calculation of Trees to Remain	**23,975.0**
Total Shade Value of all Existing Trees	**23,975.0**

* Small species: Condalia, Redbud, Tx. Mountain Laurel, Tx. Persimmon, Hawthorn, 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

*** Mitigation Trees: Unprotected-sized trees to be used for mitigation calculations; subtract inches from mitigation owed

THE WOODLANDS AT MEDINA HILLS

TREE PRESERVATON PLAN CALCULATIONS (SHEET 3 OF 4) FLOODPLAIN

NO.	DESCRIPTION	BY	DATE

REVISIONS

DATE: 3/6/2023
DESIGNED BY: JD
DRAWN BY: JD
CHECKED BY: JG
DRAWING NAME: 9_Tree Preservation (Floodplain).dwg

LJA Engineering, Inc.
1100 NE Loop 410
Suite 850
San Antonio, Texas 78209
Phone 210.503.2700
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TBPE No. F-1386

JOB NUMBER: SA190-0401A-426

SHEET NO. **14** OF 16 SHEETS

K:\SA190 Lucre Tenn, LLC\0401A Woodlands at Medina Hills Subd\PLAN\26 Site Development Plans\DWG-Sheets\ph_Tree Preservation (Floodplain).dwg
User: nbremser
Last Modified: Mar. 06, 23 - 10:00
Plot Date/Time: Mar. 06, 23 - 10:00:18

DEVELOPMENT SERVICES DEPARTMENT
WORKSHEET TO DETERMINE IF YOU MEET FINAL TREE CANOPY REQUIREMENT. COMPLETE INFORMATION HIGHLIGHTED IN YELLOW

Woodlands Floodplain Buffer
AP Number:

Step 1 - Calculate Final Tree Canopy Cover Requirement

What is the Size of Lot	454390 sq ft	10.4 ac
Final Canopy Required (38% of lot area)	**172668 sq ft**	

Step 2 - Determine Minimum Tree Preservation Requirements

What is the percentage of current canopy coverage to be preserved on the Lot (minimum preservation needs to be 20% without requiring an administrative exception)	20% or	
Total Square Footage of Existing Canopy	193,375 sq ft	
Existing Tree Canopy Preservation Requirement (35% Requirement)		**67681 sq ft**

Step 3 - Calculation of Canopy Shade Area of New Tree Plantings (2 Trees Required)

TREES PLANTED ON NORTH OR EAST SIDE OF HOUSE - NO ENERGY CONSERVATION CREDIT

Shade Value of Tree(s) Selected from San Antonio Recommended Plant List	Number of Trees		Shade Value
Trees with Shade Value of 550 sq ft	0	90%	0 sq ft
Trees with Shade Value of 875 sq ft		90%	0 sq ft
Trees with shade value of 1200 sq ft	0	90%	0 sq ft
Total Square Footage of Existing Canopy			0 sq ft

TREES PLANTED ON SOUTH OR WEST SIDE OF HOUSE - ENERGY CONSERVATION CREDIT

Shade Value of Tree(s) Selected from San Antonio Recommended Plant List	Number of Trees		Shade Value
Trees with Shade Value of 550 sq ft	0	90%	0 sq ft
Trees with Shade Value of 875 sq ft	0	90%	0 sq ft
Trees with shade value of 1200 sq ft	0	90%	0 sq ft
Total Square Footage of Existing Canopy			0 sq ft
Grand Total Canopy/Shade Area of Trees Planted			**0** sq ft

Step 4 - Determine If you Met Final Tree Canopy Requirement

Canopy/Shade Area of Preservation & Planted	**193,375 sq ft**
Final Canopy Required (38% of lot area)	**172,668 sq ft**
Net Canopy	**20,707 sq ft**
Did you meet Tree Canopy Goal?	**YES, PLEASE SUBMIT THIS WORKSHEET WITH BUILDING PERMIT APPLICATION, TREE AFFIDAVIT AND AERIAL PHOTOGRAPH**

TREE PLANTING:
*ALL MITIGATION WILL BE DONE WITH THE WOODLANDS AT MEDINA HILLS - TRE-PMT-21-38800750
1. TOTAL MITIGATION REQUIRED = 656.6" + 501.6 = 1158.2"

		Undersized Diameter			Small Diameter (5-12)			Significant (6-24)			Large Significant (10-24)			Heritage 3:1			Heritage 1:1		
		Total	Preserved	Removed	Total	Preserved	Removed	Total	Preserved	Removed	Total	Preserved	Removed	Total	Preserved	Removed	Total	Preserved	Removed
UPLAND	Totanl (In)	0	0	0	159	14	145	927	124	803	447	140	307	141	65	76	43	28	15
	Required Preservation %				35%									100%					
	Preservation %				8.8%			19.2%						50.5%					
	Preserved Inches		0		159.0			264.0						93.0					
	Required Inches				55.7			480.9						243.0					
	Mitigaiton Required/(excess)				41.7			216.9						243.0					
	Combined Mitigation/(Excess)				501.6														
	AEVR Required (TRUE/FALSE)				True			True						False					
NONFLOOD-PLAIN (COMBINED)	Totanl (In)	0	0	0	392	97	295	3727	1782	1945	596	195	401	141	65	76	43	28	15
	Required Preservation %				35%									100%					
	Preservation %				24.7%			45.7%						50.5%					
	Preserved Inches		0		392.0			1977.0						93.0					
	Required Inches				137.2			1513.1						466.0					
	Mitigaiton Required/(excess)				40.2			(464.0)						243.0					
	Combined Mitigation/(Excess)				(180.8)														
	AEVR Required (TRUE/FALSE)				False			False						False					

		Undersized Diameter			Small Diameter (5-12)			Significant (6-24)			Significant (10-24)			Heritage 3:1			Heritage 1:1		
		Total	Preserved	Removed	Total	Preserved	Removed	Total	Preserved	Removed	Total	Preserved	Removed	Total	Preserved	Removed	Total	Preserved	Removed
ESA	Totanl (In)	0	0	0	233	83	150	2800	1658	1142	149	55	94	0	0	0	0	0	0
	Required Preseration %				80%									100%					
	Preservation %				59.4%									#DIV/0!					
	Preserved Inches		93.3		1889.3									0.0					
	Required Inches				2545.6									0.0					
	Mitigation Inches				656.3									0.0					
	Combined Mitigation/(Excess)				563.0														
	Variance Required (TRUE/FALSE)				True									False					

		Undersized Diameter			Small Diameter (5-12)			Significant (6-24)			Significant (10-24)			Heritage 3:1			Heritage 1:1		
		Total	Preserved	Removed	Total	Preserved	Removed	Total	Preserved	Removed	Total	Preserved	Removed	Total	Preserved	Removed	Total	Preserved	Removed
FLOODPLAIN	Totanl (In)	0	0	0	1488	986	502	18613	16021	2592	987	844	143	1497	1181	316	50	24	26
	Required Preseration %				80%									100%					
	Preservation %				84.7%									78%					
	Preserved Inches		868		18719.0									1205.0					
	Required Inches				16870.4									974.0					
	Mitigation Inches				(1848.6)									974.0					
	Combined Mitigation/(Excess)				(1742.6)														
	Variance Required (TRUE/FALSE)				False									True					

Mitigation	UPLAND	501.6
Mitigation	NONFLOODPLAIN - COMBINED	0.0
Mitigation	ESA	563.0
Mitigation	FLOODPLAIN	0.0
Total		

Note: : §35-123 No Mitigaton Required for municipality treee removal associated with floodplain drainage projects.

THE WOODLANDS AT MEDINA HILLS
TREE PRESERVATON PLAN CALCULATIONS
(SHEET 1 OF 1)
ESA

REVISIONS

NO.	DESCRIPTION	BY	DATE

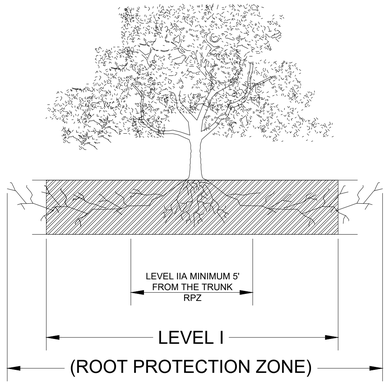
DATE: 3/6/2023
DESIGNED BY: JD
DRAWN BY: JD
CHECKED BY: JG
DRAWING NAME: 9b_Tree Preservation (Floodplain).dwg

LJA Engineering, Inc.
1100 NE Loop 410
Suite 650
San Antonio, Texas 78209
Phone 210.503.2700
Fax 210.503.2749
TBPE No. F-1386

JOB NUMBER:
SA190-0401A-426

SHEET NO.
15
OF 16 SHEETS

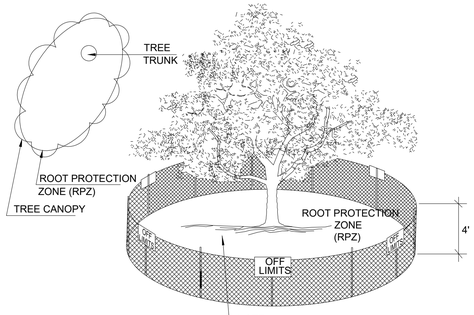
K:\SA190 Lucro Tenn LLC\0401A Woodlands at Medina Hills Subd.P\426 Site Development Plans\DWG-Sheets\zh_Tree Preservation (Floodplain).dwg
User: nbremser
Last Modified: Mar. 06, 23 - 10:00
Plot Date/Time: Mar. 06, 23 - 10:00:21



1.1.1 ELEVATION

N. T. S.

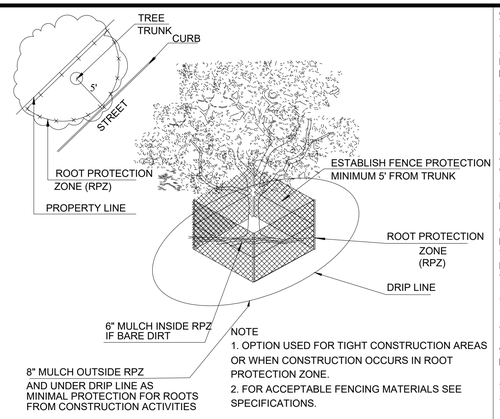
ROOT PROTECTION ZONE-THE ROOT PROTECTION ZONE IS A CIRCULAR AREA AROUND A TREE THAT IS BASED ON THE DIAMETER OF THE TREE. EACH 1 INCH DIAMETER OF THE TREE EQUALS 1 FOOT RADIUS FOR ROOT PROTECTION ZONE.



NOTE:
1. THE FENCING SHOWN ABOVE IS DIAGRAMATIC ONLY AND WILL CONFORM TO THE DRIP LINE AND LIMITED TO PROJECT BOUNDARY.
2. FOR ACCEPTABLE FENCING MATERIALS SEE SPECIFICATIONS.

1.1.2 LEVEL I & FENCE PROTECTION

N. T. S.



NOTE
1. OPTION USED FOR TIGHT CONSTRUCTION AREAS OR WHEN CONSTRUCTION OCCURS IN ROOT PROTECTION ZONE.
2. FOR ACCEPTABLE FENCING MATERIALS SEE SPECIFICATIONS.

1.1.3 LEVEL II A FENCE PROTECTION

N. T. S.

GENERAL NOTES

1. ALL THE TREES WITH A DIAMETER GREATER THAN 3 INCHES AFFECTED BY CONSTRUCTION SHALL HAVE THE LIMBS AND ROOTS TRIMMED AND PRUNED ACCORDING TO ITEM No. 802. TREE PRUNING, SOIL AMENDING AND FERTILIZATION, UNLESS SPECIFIED, TREES SHALL RECEIVE LEVEL 1 PROTECTION AS PER ITEM No. 802. TREES TO RECEIVE LEVEL 2 A PROTECTION AS PER ITEM No. 802 ARE IDENTIFIED ON THE TREE PROTECTION PLAN.

2. ALL TREES SHALL REMAIN UNLESS NOTED ON THE PLANS.

3. NO SITE PREPARATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.

4. TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION.

5. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN THREE INCHES IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR.

6. THE ROOT PROTECTION ZONE IS THAT AREA SURROUNDING A TREE, AS MEASURED BY A RADIUS FROM THE TREE TRUNK, IN WHICH NO EQUIPMENT, VEHICLES OR MATERIALS MAY OPERATE OR BE STORED. THE REQUIRED RADIUS LENGTH IS 1 FOOT PER DIAMETER INCH OF THE TREE. FOR EXAMPLE, A 10-INCH DIAMETER TREE WOULD HAVE A 5-FOOT RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES THAT ARE IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. ALL OAK WOUNDS SHALL BE PAINTED OVER, WITHIN 20 MINUTES TO PREVENT OAK WILT.

7. ACCESS TO FENCED AREAS WILL BE PERMITTED ONLY WITH THE APPROVAL OF THE ENGINEER OR CITY INSPECTOR.

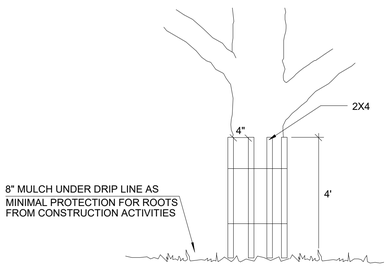
8. GRADING, IF REQUIRED, SHALL BE LIMITED TO A 3 INCH CUT OR FILL WITHIN THE FENCED ROOT ZONE AREAS.

9. TREES, SHRUBS OR BUSHES TO BE CLEARED FROM PROTECTED ROOT ZONE AREAS SHALL BE REMOVED BY HAND AS DIRECTED BY THE PROJECT MANAGER OR CITY INSPECTOR.

10. TREES DAMAGED OR LOST DUE TO CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE ENGINEER'S SATISFACTION.

11. EXPOSED ROOTS SHALL BE COVERED AT THE END OF EACH DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH OR WET BURLAP.

12. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST PRIOR TO ITS REMOVAL.



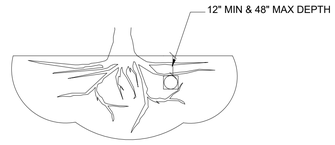
NOTE
WRAP TREE TRUNK WITH 2"X4" STUDS AND ROPE OR BAND IN PLACE AS NEEDED TO PROTECT TREES IN WORK AREAS.

1.1.4 LEVEL II B FENCE PROTECTION

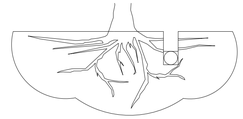
N. T. S.

TREES THAT ARE MARKED TO BE PRESERVED ON A SITE PLAN AND FOR WHICH UTILITIES MUST PASS TROUGH THEIR ROOT PROTECTION ZONES MAY REQUIRE TUNNELING AS OPPOSED TO OPEN TRENCHES. THE DECISION TO TUNNEL WILL BE DETERMINED ON A CASE BY CASE BASIS BY THE ENGINEER.

TUNNELS SHALL BE DUG THROUGH THE ROOT PROTECTION ZONE IN ORDER TO MINIMIZE ROOT DAMAGE.



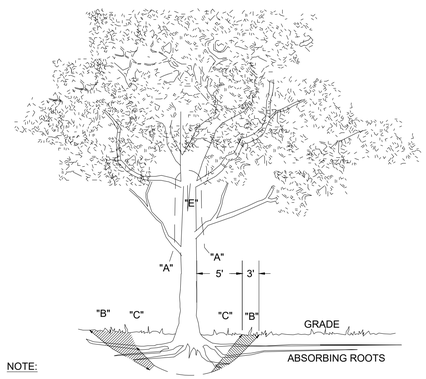
TUNNEL TO MINIMIZE ROOT DAMAGE (TOP) AS OPPOSED TO SURFACE-DUG TRENCHES IN ROOT PROTECTION ZONE WHEN THE 5' MINIMUM DISTANCE FROM TRUNK CAN NOT BE ACHIEVED.



OPEN TRENCHING MAY BE USED IF EXPOSED TREE ROOTS DO NOT EXCEED 3" OR ROOTS CAN BE BENT BACK.

1.2 BORING THRU TREE ROOT ZONE

N. T. S.



NOTE:

A" REMOVE BULKY TREE PARTS "SHRED" AND/OR HAUL SEPARATELY.

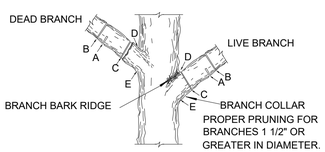
"B" BEGIN EXCAVATION APPROX. 8' FROM THE TRUNK - CUT THRU ANCHOR ROOTS AT AN ANGLE - 3' TO 4' DEEP

"C" USING TREE TRUNK AS A LEVER PUSH AT POINT "E" TO REMOVE TREE BOLE AND LARGE FEEDER ROOTS (4" TO 10" IN DIAM.)

"D" BACKFILL HOLE AND CLEAN UP.

1.3 TREE REMOVAL DIAGRAM

N. T. S.



NOTE: DO NOT CUT FROM D to E.

A. FIRST CUT - TO PREVENT THE BARK FROM BEING PEELED WHEN THE BRANCH FALLS.
B. SECOND CUT - TO REDUCE THE WEIGHT OF BRANCH.
C. FINAL CUT - ALLOW FOR HEALING COLLAR BUT NO STUBS
D. BRANCH RIDGES - INDENT PROPERLY BRANCH RIDGES WHICH ARE SITE FOR DECAY.

FOR OAKS ONLY: PAINT ALL WOUNDS OR CUTS WITH PRUNING PAINT WITHIN 20 MIN TO PREVENT THE SPREAD OF OAK WILT.

1.4 BRANCH PRUNING DETAIL

N. T. S.

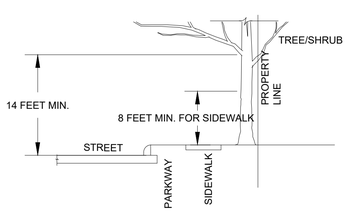
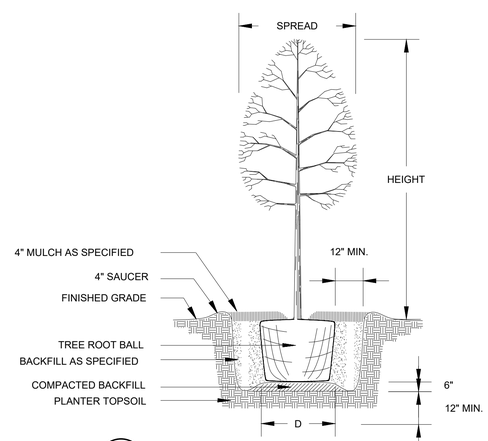


FIGURE No.2:

A MINIMUM BRANCH CLEARANCE OF 14 FEET ABOVE STREET ELEVATION MUST BE MAINTAINED FROM THE PROPERTY LINE TO THE CURB LINE AS PRESCRIBED BY PROJECT MANAGER.

1.5 BRANCH CLEARANCE DETAIL

N. T. S.



1.6 NEW TREE PLANTING DETAIL

N. T. S.

THE WOODLANDS AT MEDINA HILLS

TREE PRESERVATON NOTES & DETAILS

REVISIONS

NO.	DESCRIPTION	BY	DATE

DATE: 3/6/2023
DESIGNED BY: JD
DRAWN BY: JD
CHECKED BY: JG
DRAWING NAME: 9b_Tree Preservation (Floodplain).dwg

LJA Engineering, Inc.
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TBPE No. F-1386

JOB NUMBER: SA190-0401A-426

SHEET NO. 16 OF 16 SHEETS

K:\SA190 Lucra Terra, LLC\0401A Woodlands at Medina Hills Subd_P\426 Site Development Plans\DWG-Sheets\9b_Tree Preservation (Floodplain).dwg
User: nbressan
Last Modified: Mar. 06, 23 - 10:00
Plot Date/Time: Mar. 06, 23 - 10:00:25