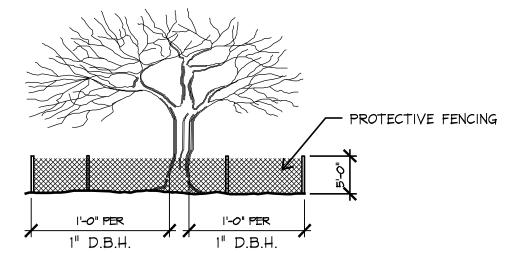
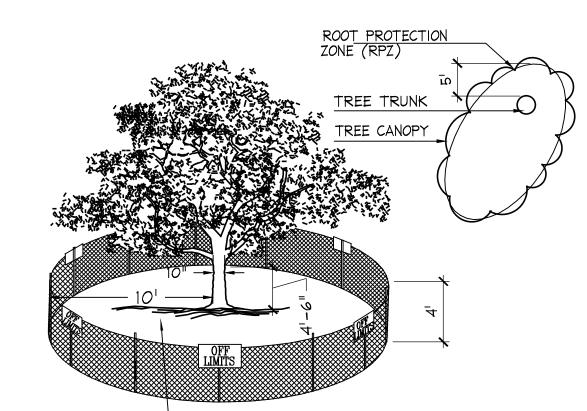
TREE SUR	VEY DATA	St		s Ran arch	ch Recre	ation Ce	nte	r - T		CALC	ULAT	IONS	
TAG	SPEC	DBH	LOC CODE	PLAN CODE	Understory *	Canopy *	ES	Under	story *	Can REM		*** ADD PRES	NOTES
3001 3002	OAK OAK	7 6		p p	***************************************	6	.5 6					NDD THEO	100120
3003	OAK	7		р	***************************************	6	.5						
3004 3005	OAK OAK	6 7		p p	***************************************	6	6 .5						
3006 3007	ELM OAK	6 7		p p	***************************************		6 .5						
3008 3009	OAK OAK	7 7		p p	***************************************	+	.5 7						
3010 3011	OAK OAK	7 7		p p	***************************************		7						
3012	OAK	7		p	***************************************	6	.5						
3013 3014	OAK OAK	8 7		p p	***************************************		.5 7						
3015 3016	OAK OAK	8 7		p p	***************************************	1	8 7						
3017 3018	OAK OAK	8 7		p p		1 1	.5 .5						
3019 3020	OAK	6		р	***************************************		6						
3023	OAK OAK	8		p p	***************************************	7	6 .5						
3024 3025	OAK OAK	7 6		p p	***************************************	1	.5 6						
3026 3027	OAK OAK	7 9		p p	***************************************		7 .5						
3028 3029	OAK OAK	9		p	***************************************		9						
3030	OAK	7		p p	***************************************		7						
3031 3032	OAK OAK	7 6		p p	***************************************		7 6						
3033 3035	OAK OAK	6 6		p p		-	6 6	_ 			_ 		
3036 3037	OAK OAK	8		p p		7	.5 7						
3038	OAK	9		р		8	.5						
3039 3040	OAK OAK	7		p p		6	.5 .5						
3041 3042	OAK OAK	6 7		p p	***************************************	1	6 7						
3043 3044	OAK OAK	6 7		p p			6						
3045 3046	OAK OAK	7 8		p			7 .5						
3047	OAK	8		p p	***************************************	7	.5						
3048 3049	OAK OAK	6 7		p p	***************************************	-	6 .5						
3050 3051	OAK OAK	8 7		p p	***************************************		.5 .5						
3052 3053	OAK	7		p	***************************************	6	.5						
3054	OAK OAK	10		p p		9	.5 .5						
3055 3056	OAK OAK	7 6		p p	***************************************		7 6						
3057 3058	OAK OAK	10 7		p p	***************************************	+ + + + + + + + + + + + + + + + + + + +	.5 7						
3059 3060	OAK OAK	9 10		p p	***************************************		9 10						
3061	OAK	6		р	***************************************	- 1	6						
3062 3063	OAK ELM	6 15		p p	***************************************	14	6 1.5						
3066 3067	OAK OAK	7 7		p p	***************************************		.5 .5						
3068 3069	OAK OAK	8 7		p p	***************************************	+ + + + + + + + + + + + + + + + + + + +	.5 7						
3070 3071	OAK OAK	9 8		p p	***************************************	o	9 .5						
3072 3073	OAK OAK	8 7		p p	***************************************	7	.5 .5						
3074 3075	OAK OAK	7		р	www		7						
3076	OAK	7		р р	***************************************	6	.5						
3077 3078	OAK OAK	7 6		p p	***************************************	+	7 6						
3079 3080	ELM OAK	6 7		p p	***************************************	+ +	6 .5						
3081 3082	OAK OAK	7 6		p p	***************************************	 	.5 6						
3083	ELM	7		р	***************************************	6	.5						
3084 3085	OAK OAK	6		p p		l l	6 6						
3086 3087	OAK OAK	6 7		p p		6	6 .5	_					
3088 3089	OAK OAK	6 6		p p	***************************************	+ + + + + + + + + + + + + + + + + + + +	6 6						
3090 3091	OAK OAK	7 7		р		6	.5 7						
3092 3093	OAK OAK	8 8		р		7	, .5 8						
3094	OAK	7		p p		6	.5						
3095 3096	OAK OAK	7 6		p p			. <mark>5</mark> 6						
3097 3098	OAK OAK	6 10		p p			6 1 <mark>0</mark>				_ _		
3099 3100	OAK OAK	8 7		r	***************************************	8	.5						
3101 3102	OAK OAK	8 8		p		7	.5 .5						
3103	OAK	10		p p		9	.5						
3104 3105	OAK OAK	16 10		p p			5.5 10						
3106 3107	OAK OAK	8 7		p p		-	.5 .5						
3108 3109	OAK OAK	6 8		r	***************************************	6	8						
3110 3111	OAK	7 10		р		6	.5						
3112	OAK OAK	11		p p			10						
3113 3114	OAK OAK	7 7		p p			7 .5						
3115 3116	OAK OAK	8 10		p p		-	8 10						
3117 3118	OAK OAK	8 7		p	-		8						
3119 3120	OAK	8 33		p			.5				20		
3120 3121	OAK OAK	33 8		p p			8				33		



ROOT PROTECTION ZONE (RPZ)

ELEVATION

NOT TO SCALE



6" MULCH INSIDE RPZ WHEN THERE IS NO EXISTING UNDERSTORY OR TURF NOTE:

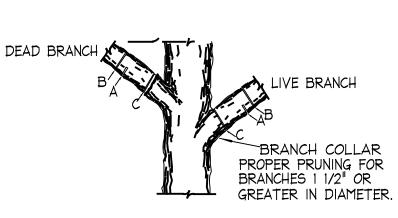
1. THE FENCING SHOWN ABOVE IS DIAGRAMATIC ONLY, WILL CONFORM TO THE DRIP LINE AND IS LIMITED TO PROJECT BOUNDARY.

2. FOR ACCEPTABLE FENCING MATERIALS SEE SPECS.

7 TREE PROTECTION ZONE

ELEVATION

NOT TO SCALE

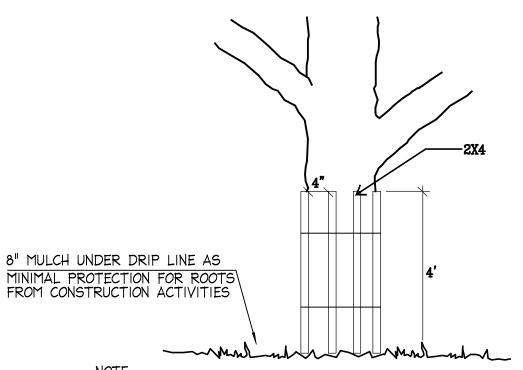


A. FIRST CUT - TO PREVENT THE BARK FROM BEING PEELED WHEN THE BRANCH FALLS.
B. SECOND CUT - TO REDUCE THE WEIGHT OF BRANCH.
C. FINAL CUT - ALLOW FOR HEALING COLLAR BUT NO STUBS

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

3 BRANCH PRUNING

NOT TO SCALE



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

TREE ARMOR DETAIL

NOT TO SCALE

TREE PROTECTION NOTES:

- 1.) ALL TREES SHOWN ON THIS PLAN TO BE RETAINED OR REPLANTED SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY FENCING.
- 2.) TREE PROTECTION FENCES SHALL BE ERECTED ACCORDING TO CITY OF SAN ANTONIO STANDARDS FOR TREE PROTECTION.
- 3.) TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING), AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT.
- 4.) FENCES SHALL COMPLETELY SURROUND THE TREE OR CLUSTERS OF TREES; SHALL BE LOCATED AT THE OUTERMOST LIMITS OF THE TREE BRANCHES (DRIPLINE); AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT THE FOLLOWING:
 - A.) SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIALS.
 - **B.)** ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 6 INCHES CUT OR FILL) OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE CITY ARBORIST.
 - C.) WOUNDS TO EXPOSED ROOTS, TRUNK OR LIMBS BY MECHANICAL EQUIPMENT.
 - D.) OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CONCRETE TRUCK CLEANING, AND FIRES.
- **5.)** EXCEPTIONS TO INSTALLING FENCES AT TREE DRIPLINES MAY BE PERMITTED IN THE FOLLOWING CASES: PROVIDED NO WORK IS CLOSER THAN $\frac{1}{2}$ ROOT PROTECTION ZONE (RPZ) AND THE CONTRACTOR COORDINATES WITH THE CITY OF SAN ANTONIO INSPECTOR.
 - A.) WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA.
 - B.) WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN 6 FEET TO THE BUILDING.
 - C.) WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE CITY OF SAN ANTONIO ARBORIST AT 210-207-8053 TO DISCUSS ALTERNATIVES.
- 6.) WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE THAT IS CLOSER THAN 4 FEET TO A TREE TRUNK, PROTECT THE TRUCK WITH STRAPPED-ON PLANKING TO A HEIGHT OF 8 FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.
- 7.) WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN AREAS OF UNPROTECTED ROOT ZONES (UNDER DRIPLINES) THOSE AREAS SHOULD BE COVERED WITH 6 INCHES OF ORGANIC MULCH OR GRAVEL TO MINIMIZE SOIL COMPACTION.
- 8.) ALL GRADING WITHIN PROTECTED ROOT ZONE AREAS SHALL BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE. PRIOR TO GRADING, RELOCATE PROTECTIVE FENCING TO 2 FEET BEHIND THE GRADE CHANGE AREA.
- **9.)** ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
- 10.) PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIPLINES, A CLEAN CUT SHALL BE MADE BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT TO MINIMIZE DAMAGE TO REMAINING ROOTS.
- 11.) TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES WILL BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS ARE TO BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.
- 12.) WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE USE A PLASTIC VAPOR BARRIER BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE ROOT ZONE.
- 13.) ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
- 14.) PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC AND CONSTRUCTION EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS (BEFORE DAMAGE OCCURS). ALL FINISHED PRUNING MUST BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY; REFERENCE THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES, CLASS IV OF PRUNING (AVAILABLE ON REQUEST FROM THE CITY ARBORIST).
- 15.) ALL WOUNDS ON OAK TREES MUST BE REPAIRED WITHIN 30 MIN. OF OCCURRENCE BY BARK TRACING TO REMOVE DAMAGED WOOD AND BARK THOROUGHLY SEAL WITH AN ACCEPTABLE TREE WOUND DRESSING.
- 16.) ALL WOUNDS WHICH OCCUR TO TREE TRUNKS AND LIMBS MUST BE REPAIRED WITHIN 24 HOURS OF OCCURRENCE BY BARK TRACING TO REMOVE DAMAGED WOOD AND BARK. THIS SPECIFICALLY APPLIES TO WOUNDS CREATED BY CONSTRUCTION VEHICLES AND EQUIPMENT, INSTALLATION OF TOWERS AND PIERS, AND STRINGING OF ELECTRICAL LINES.
- 17.) TREES APPROVED FOR REMOVAL OR REPLANTING SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
- 18.) IF THERE IS ENCROACHMENT OF MORE THAN ONE HALF OF THE ROOT PROTECTION ZONE (RPZ) ON ONE SIDE OF THE TREE, COORDINATE WITH CITY OF SAN ANTONIO INSPECTOR PRIOR TO CUTTING ANY OF THE ROOT STRUCTURE.





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STEVENS RANCH RECREATION CENTER

CUMBERLAND STEVENS RESIDENTIAL, LTD.

SAN ANTONIO, TEXAS

Project Number:

Designed: TR

Drawn: KN, NP

Reviewed: TR, JD

Date Issued: NOVEMBER 27, 2012

Revisions:

noot Titlo:

TREE PRESERVATION NOTES & DETAILS

Sheet Number:

LTP 1.2