

TREE PRESERVATION PLAN

GENERAL

- PRIOR TO THE START OF WORK, CALL 207-1111 TO SCHEDULE A PRE-CONSTRUCTION AND FENCING INSPECTION AND COORDINATE CONTRACTOR'S STAGING AREAS, DESIGNATED PARKING AREAS, AND STOCKPILE AREAS.
- THE CITY ARBORIST RESERVES THE RIGHT TO IMPOSE ADDITIONAL CONDITIONS BASED ON CHANGING FIELD CONDITIONS OR WORK PRACTICES NOT INCLUDED IN THE APPLICATION.
- THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF SAN ANTONIO - CITY ARBORIST, PRIOR TO CONSTRUCTION INITIATION, TO ENSURE COMPLIANCE WITH THE CITY'S TREE PRESERVATION REQUIREMENTS AND DIRECTIVES PRESENTED HEREIN.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING A LICENSED TREE MAINTENANCE PROFESSIONAL THROUGHOUT THE PROJECT PER CITY ORDINANCE ARTICLE VII 21-171, TREE MAINTENANCE LICENSE (a).

NOTES

- 35-477 (j) IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO MAINTAIN A COPY OF THE TREE PERMIT, THE DATA AND DRAWINGS REQUIRED BY THIS SECTION, AND THE CONDITIONS OF APPROVAL IMPOSED BY THE CITY ARBORIST READILY AVAILABLE AT THE SITE AT ALL TIMES DURING WHICH THE AUTHORIZED WORK IS IN PROGRESS.
- 35-523 (k) (4) ALL BROKEN BRANCHES & EXPOSED ROOTS 2" IN DIAMETER OR GREATER OF SIGNIFICANT, HERITAGE OR MITIGATION TREES SHALL BE CUT CLEANLY.
- 21-170 (b) ALL WOUNDS TO THE TRUNK, LIMBS, AND ROOT SYSTEM OF OAK TREES IN THE CITY THAT EXPOSE SAPIWOOD SHALL BE PAINTED WITHIN 30 MIN. OF THE WOUND WITH ASPHALTIC, EXTERIOR OIL OR LATEX BASED PAINT.
- 35-523 (i) (1) ROOT PROTECTION ZONE: A ROOT PROTECTION ZONE MUST BE ESTABLISHED AROUND THE TRUNK OF EACH TREE PRESERVED OR MITIGATION TREE. THE ROOT PROTECTION ZONE SHALL BE AN AREA DEFINED BY AN AVERAGE RADIUS EXTENDING OUTWARD FROM THE TRUNK OF THE TREE A DISTANCE OF ONE (1) LINEAR FOOT FOR EACH INCH (DBH). THE ROOT PROTECTION ZONE AREA SHALL BE PRESERVED AT NATURAL GRADE, WITH NATURAL GROUND COVER. NO CUTTING, FILLING, TRENCHING, ROOT DISTURBANCE, SOIL DISTURBANCE, OR CONSTRUCTION IMPACTS SHALL OCCUR CLOSER TO THE TRUNK THAN ONE-HALF (1/2) THE ROOT PROTECTION ZONE RADIUS EXCEPT IN PARKING AREAS WHERE APPROVED ALTERNATIVE MATERIALS AND METHODS ARE USED, CONSTRUCTION MAY BE AS CLOSE AS FIVE (5) FEET FROM THE ROOT FLARES ON ONE (1) SIDE OF THE TREE. FILLING SHALL BE ALLOWED TO ACCOMPLISH WATER CONSERVATION GOALS ESTABLISHED BY THE CITY OF SAN ANTONIO OR BY A PUBLIC UTILITY. NATIVE UNDERSTORY VEGETATION WITHIN THE ROOT PROTECTION ZONE SHALL BE PRESERVED, HOWEVER THIS REQUIREMENT DOES NOT APPLY TO ROOT PROTECTION ZONE AREAS THAT HAVE BEEN LANDSCAPED USING NATIVE, DROUGHT TOLERANT PLANTS. THE ROOT PROTECTION ZONE MAY BE SHIFTED AND CLUSTERED AS LONG AS THERE IS NO CONSTRUCTION CLOSER TO THE TRUNK THAN ONE-HALF (1/2) THE ROOT PROTECTION ZONE RADIUS. THE CONSTRUCTION OF SIDEWALKS SHALL BE ALLOWED IN THE ROOT PROTECTION ZONE, AS LONG AS EXCAVATION DOES NOT EXCEED THREE (3) INCHES. THE AREA CONTAINED WITHIN A ROOT PROTECTION ZONE REQUIRED UNDER THIS SUBSECTION MUST BE LEFT IN A PREVIOUS CONDITION AFTER CONSTRUCTION AND DEVELOPMENT ARE COMPLETED UNLESS APPROVED ALTERNATIVE CONSTRUCTION METHODS ARE USED. THE ARBORIST SHALL ESTABLISH A WRITTEN SET OF TECHNICAL CRITERIA ON WHICH SUCH APPROVAL SHALL BE BASED. THESE CRITERIA WILL BE UPDATED AT LEAST EVERY FIVE (5) YEARS WITH THE ASSISTANCE OF A COMMITTEE CONSISTING OF, AT A MINIMUM, THE CITY ARBORIST, THE REGIONAL URBAN FORESTER FROM THE TEXAS FOREST SERVICE, A LANDSCAPE ARCHITECT AND AN ENGINEER. DURING CONSTRUCTION ACTIVITY ON THE SITE, AT LEAST A SIX-INCH LAYER OF COARSE MULCH SHALL BE PLACED AND MAINTAINED OVER THE ROOT PROTECTION ZONE. THE IMPERVIOUS COVER MAY ENCRDACH WITHIN THE ROOT PROTECTION ZONE IF SAID ENCRDACHMENT IS APPROVED BY THE CITY ARBORIST.
- NOTE REQUIRED FOR TREE PRESERVATION SHEETS: TREE PLANTING AND MAINTENANCE: ALL PRESERVED AND PLANTED TREES SHALL BE MAINTAINED IN A HEALTHY CONDITION AT ALL TIMES. THIS INCLUDES IRRIGATING, FERTILIZING, PRUNING, AND OTHER MAINTENANCE AS NEEDED. TREES THAT DIE WITHIN TWELVE MONTHS SHALL BE REPLACED WITH A TREE OF COMPARABLE SIZE AND SPECIES. REGARDING REPLACEMENT OF PRESERVED TREES, SIGNIFICANT TREES SHALL BE REPLACED AT A 1:1 RATIO (OR INCH-FOR-INCH) AND HERITAGE TREES SHALL BE REPLACED AT A 3:1 RATIO (OR THREE-TO-ONE INCHES).

TREE SURVEY

- A TREE SURVEY OF SIGNIFICANT AND HERITAGE TREES HAS BEEN PERFORMED FOR THE PROJECT ROUTE PRESENTED HEREIN. TREE PRESERVATION SHALL BE APPLICABLE TO THE ENTIRE PROJECT. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS PRIOR TO BID SUBMISSION.

TREE REMOVAL

- ALL DEBRIS FROM TREE REMOVAL (TRUNKS, BRANCHES, ROOTS, ETC.) SHALL BE REMOVED AND DISPOSED OFF-SITE.

TREE PRESERVATION

- TREES, CANOPY, AND UNDERSTORY SPECIFICALLY DESIGNATED TO REMAIN SHALL BE PRESERVED BY THE CONTRACTOR EVEN IF ALTERNATE CONSTRUCTION TECHNIQUES MUST BE UTILIZED FOR SEWER MAIN INSTALLATIONS. NO ADDITIONAL PAY WILL BE PROVIDED FOR THIS INSTALLATION.
- TREES LOCATED MORE THAN FIFTEEN (15) FEET FROM THE CENTERLINE OF THE SEWER MAIN SHALL NOT BE REMOVED UNLESS DEEMED NECESSARY BY A SAWS CONSTRUCTION INSPECTOR.
- AFTER CLEARING OF AUTHORIZED TREES AND UNDERSTORY, CONTRACTOR SHALL ERECT TEMPORARY BARRICADE FENCING ALONG THE PROJECT ROUTE TO PROTECT REMAINING VEGETATION. AFTER WORK IS COMPLETE ALONG A PORTION OF THE PROJECT, THE TEMPORARY FENCING MAY BE MOVED TO THE ACTIVE CONSTRUCTION AREA. THE PROTECTIVE FENCING SHALL MEET THE CSA STANDARD SPECIFICATION ITEM 801 - LEVEL 1 PROTECTIVE FENCING.
- EXCAVATION MATERIAL, CONSTRUCTION MATERIAL, OR DEBRIS SHALL NOT BE STORED OVER THE ROOT PROTECTION ZONE (RPZ) OF PROTECTED TREES FOR LONGER THAN A TWO (2) WEEK PERIOD. THE FINISH GRADE WITHIN THE RPZ OF ANY TREE TO BE PRESERVED SHALL NOT BE PERMANENTLY RAISED OR LOWERED.
- VEHICULAR AND EQUIPMENT PARKING AND MATERIAL STORAGE SHALL NOT BE LOCATED WITHIN THE RPZ OF PROTECTED TREES. CONTRACTOR SHALL MEET WITH CITY ARBORIST TO ADDRESS DURING PRE-CONSTRUCTION AND FENCING INSPECTION.
- EXISTING RIGHT-OF-WAY IS AVAILABLE TO THE CONTRACTOR FOR STAGING, ACCESS, ADDITIONAL OPERATING ROOM, AND SPOILMATERIAL STORAGE. TREE REMOVAL WITHIN THE RIGHT-OF-WAY WILL NOT BE ALLOWED UNLESS ACCESS IS NOT OTHERWISE ACHIEVABLE AS DETERMINED BY THE SAWS CONSTRUCTION INSPECTOR. A MEANDERING ACCESS ROUTE WILL BE PROMOTED TO AVOID TREE REMOVAL.

TREE PRUNING

- ALL PRUNING SHALL ADHERE TO THE STANDARD PRACTICES DESCRIBED BY THE AMERICAN NATIONAL STANDARD INSTITUTE, ANSI A300-1995.
- PRUNING WILL BE ALLOWED WITHIN THE RIGHT-OF-WAY AS REQUIRED FOR CLEARANCE WITHIN THE CONSTRUCTION WORK ZONE, CLEARANCE FOR ACCESS, OR JOBSITE SAFETY. NO OTHER PRUNING WILL BE ALLOWED WITHOUT AUTHORIZATION FROM THE SAWS CONSTRUCTION INSPECTOR.
- PRUNING SHALL CONSIST OF MINOR BRANCH OR ROOT REMOVAL.
- BRANCHES OR ROOTS 6" IN DIAMETER OR GREATER SHALL NOT BE PRUNED WITHOUT PRIOR APPROVAL OF THE SAWS CONSTRUCTION INSPECTOR.
- OAK WOUNDS MUST BE PAINTED WITH WOUND PAINT WITHIN THIRTY (30) MINUTES TO PREVENT INFECTION OF THE OAK WILT FUNGAL ORGANISM.
- CONTRACTOR SHALL PRUNE BRANCHES AND/OR ROOTS DAMAGED BY CONSTRUCTION OPERATIONS TO THE SATISFACTION OF THE SAWS CONSTRUCTION INSPECTOR.

MEASUREMENT AND PAYMENT

- THERE WILL BE NO MEASUREMENT OR PAYMENT FOR TREE PRESERVATION PROTECTION WORK. THERE WILL BE NO SEPARATE PAYMENT FOR CLEARING AND GRUBBING OR TREE PRUNING.

Tree Inventory Worksheet to Determine Preservation and Canopy Shade Coverage

(see tree detail sheet TP-1) TYPE OF TREE PROTECTION	CLASSIFICATION	REMOVE	REMAIN	Tag #	Species	Understory Species* 5.0" - 11.5" Shade Value - 275 Sq. Ft.		Significant Tree 6" - 23.5" Shade Value - 875 sq. ft.		Significant Tree** 10.0" - 23.5" Shade Value 875 sq. ft.		Heritage 3:1 Shade Value 1200 HERITAGE TREES PRESERVED AT 100%		Heritage 1:1 Shade Value - 1200 HERITAGE TREES PRESERVED AT 100%		Additional Inches Preserved for Mitigation ***	
						Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved		
N/A	SIGNIFICANT	21		8+27	21 ASH					21							
N/A	SIGNIFICANT	22		8+38	22 ASH					22							
N/A	SIGNIFICANT	14		8+77	14 ASH					14							
N/A	SIGNIFICANT	10.5		9+33	10.5 HACKBERRY					10.5							
1.1.1	SIGNIFICANT		13.5	11+38	13.5 CEDAR ELM			13.5									
1.1.1	SIGNIFICANT		14	12+68	14 HACKBERRY					14							
1.1.1	SIGNIFICANT		13	12+72	13 HACKBERRY					13							
1.1.1	SIGNIFICANT		6	12+78	6 ANACUA			6									
1.1.1	HERITAGE		24	12+90	24 ANACUA							24					
N/A	SIGNIFICANT	16.5		13+06	16.5 PECAN			16.5									
1.1.1	SIGNIFICANT		14	13+54	14 ANACUA					14							
1.1.1	SIGNIFICANT		23	13+85	23 ANACUA					23							

Insert additional rows as needed												
Subtotal Inches	0	0	16.5	56.5	67.5	27	0	24	0	0	0	0
Subtotal Shade value	0	0	875	3500	3500	1750	0	1200	0	0	0	0
Total Shade Value Calculation of Trees to Re	6450											
Total Shade Value of all Existing Trees	10825											

* 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

Tree Preservation Calculation		
Preservation by Category:	Percent Preserved	Did You Met the Requirements of the City Tree Ordinance?
Understory Species	100%	Yes
Significant Trees	50%	Yes
Heritage Trees (3:1)	100%	Yes
Heritage Trees (1:1)	100%	Yes

SAWS Job No. 15-4802

ENGINEERS SURVEYORS
 DESIGN BY: CWR DATE: FEBRUARY 2018
 DRAWN BY: CDS APPROVED BY:
 CHECKED BY: MR CDS JOB NO.: 115143
 REVIEWED BY: KR DWG NAME: 15143-TREE NOTES

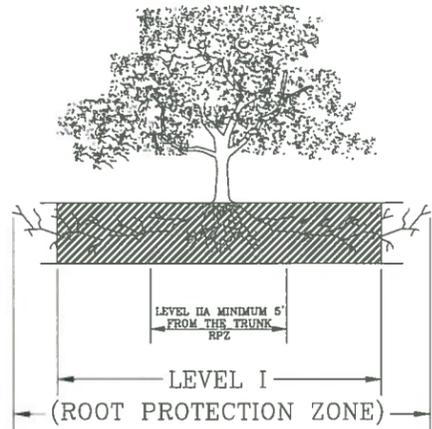
NO. DATE REVISIONS BY

MARTINEZ CREEK- PEREZ ST. TO W. HUISACHE AVE. PROJECT

TREE PRESERVATION PLAN- TREE GENERAL NOTES AND TABLE

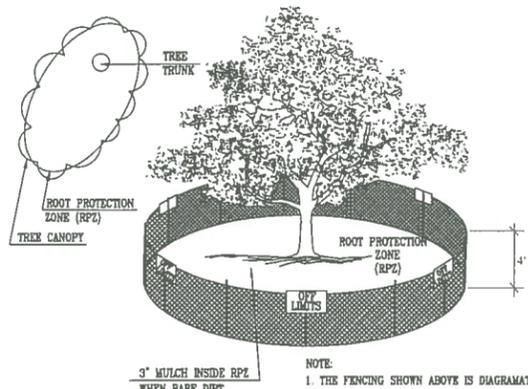
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F:\2015\15143 SAWS MARTINEZ CREEK\Civil 3D\DWG\Engineering\DWG\95% Design\15143-Tree Notes.dwg



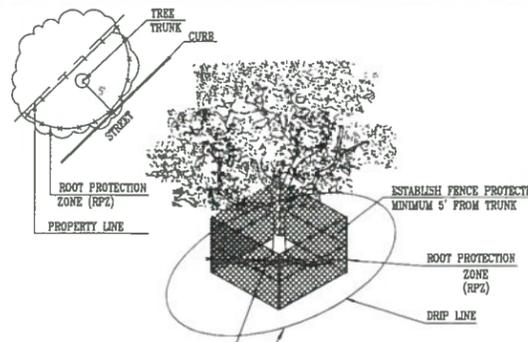
1.1.1 ELEVATION
N. T. S.

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.



1.1.2 LEVEL I & FENCE PROTECTION
N. T. S.

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.

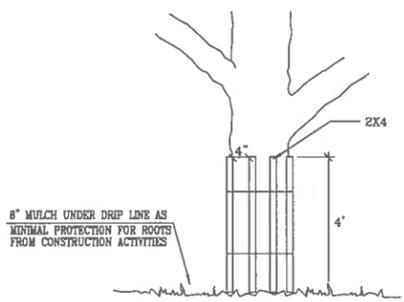


1.1.3 LEVEL II A FENCE PROTECTION
N. T. S.

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

GENERAL NOTES

- 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 2 PROTECTION AS PER ITEM No. 802. TREES TO RECEIVE LEVEL 1 PROTECTION AS PER ITEM No. 802 ARE SHOWN ON TREE PROTECTION TABLE ON THIS SHEET.
- ALL TREES SHALL REMAIN UNLESS NOTED ON THE PLANS.
- NO SITE PREPARATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.
- TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION.
- 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.
- 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. LIVE OAK WOUNDS SHALL BE PAINTED OVER, WITHIN 20 MINUTES TO PREVENT OAK WILT.
- ACCESS TO FENCED AREAS WILL BE PERMITTED ONLY WITH THE APPROVAL OF THE ENGINEER OR CITY INSPECTOR.
- GRADING, IF REQUIRED, SHALL BE LIMITED TO A 3 INCH CUT OR FILL WITHIN THE FENCED ROOT ZONE AREAS.
- 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.
- TREES DAMAGED OR LOST DUE TO CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE ENGINEER'S SATISFACTION.
- EXPOSED ROOTS SHALL BE COVERED AT THE END OF EACH DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH OR WET BURLAP.
- ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST PRIOR TO ITS REMOVAL.

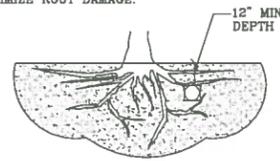


1.1.4 LEVEL II B FENCE PROTECTION
N. T. S.

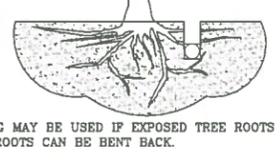
NOTE:
WRAP TREE TRUNK WITH 2"x4" STUDS AND ROPE OR BAND IN PLACE AS NEEDED TO PROTECT TREES IN WORK AREAS.

TREES THAT ARE MARKED TO BE PRESERVED ON A SITE PLAN AND FOR WHICH UTILITIES MUST PASS THROUGH 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.

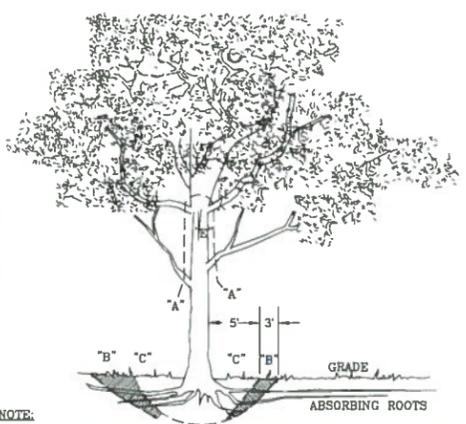


TUNNEL TO MINIMIZE ROOT DAMAGE (TOP) AS OPPOSED TO SURFACE-DUG TRENCHES IN ROOT PROTECTION ZONE WHEN THE 5' MINIMUM DISTANCE FROM TRUNK CAN NOT BE ACHIEVED.



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.

1.3 GENERAL NOTES

TREE PRESERVATION TABLE

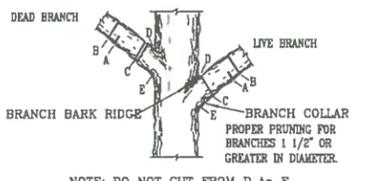
TREE SHEET #	TREE/CALIPER SHEET #	STATION OR NUMBER	LOCATION	PROTECTION MEASURE		REMOVAL SEE GENERAL NOTE #
				ITEM 801	ITEM 802 MAINTENANCE/TREATMENTS/PROTECTION	
ASH SHT. P-2	21"	8+27	±4' W. OF BASELINE			REMOVE
ASH SHT. P-2	22"	8+38	±5' W. OF BASELINE			REMOVE
ASH SHT. P-2	14"	8+77	±7' W. OF BASELINE			REMOVE
HACKBERRY SHT. P-2	10.5"	9+33	±5' E. OF BASELINE			REMOVE
CEDAR ELM SHT. P-3	13.5"	11+38	±22' E. OF BASELINE	PROTECT		
HACKBERRY SHT. P-3	14"	12+68	±10' W. OF BASELINE	PROTECT		
HACKBERRY SHT. P-3	13"	12+72	±11' E. OF BASELINE	PROTECT		
ANACUA SHT. P-3	6"	12+78	±11' W. OF BASELINE	PROTECT		
ANACUA SHT. P-3	24"	12+90	±13' E. OF BASELINE	PROTECT		
PECAN SHT. P-3	18.5"	13+06	±2' E. OF BASELINE			REMOVE
ANACUA SHT. P-3	14"	13+54	±12' E. OF BASELINE	PROTECT		
ANACUA SHT. P-3	23"	13+85	±15' W. OF BASELINE	PROTECT		

1.3 TREE PROTECTION TABLE

TREE INVENTORY SUMMARY (8" DIAMETER AND LARGER)

TOTAL DIAMETER INCHES, R.O.W	_____
TOTAL DIAMETER INCHES REMOVED	_____
TOTAL DIAMETER INCHES PRESERVED	_____
TOTAL PERCENTAGE INCHES PRESERVED	_____
TOTAL INCHES TO BE MITIGATED	_____

1.3 TREE INVENTORY SUMMARY



NOTE: DO NOT CUT FROM D TO E.

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

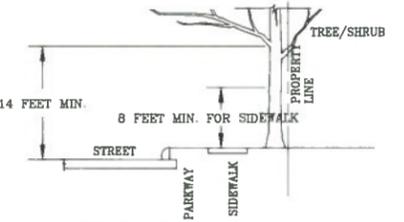
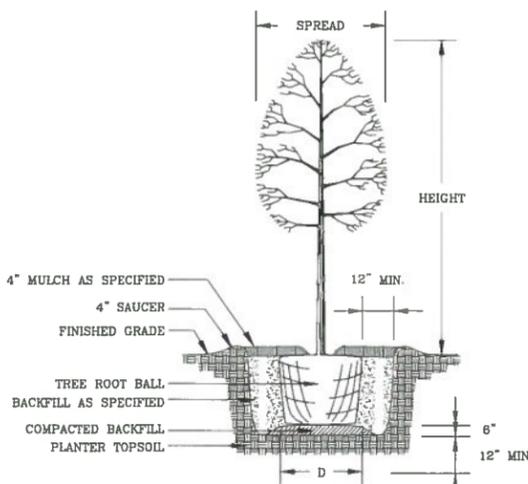


FIGURE No. 2:
A MINIMUM BRANCH CLEARANCE OF 14 FEET ABOVE STREET ELEVATION MUST BE MAINTAINED FROM THE PROPERTY LINE TO THE CURB LINE AS PRESCRIBED BY PROJECT MANAGER.

1.5 BRANCH CLEARANCE DETAIL
N. T. S.



1.6 NEW TREE PLANTING DETAIL
N. T. S.

PREPARED BY FERNANDEZ FRAZER WHITE & ASSOC. INC. & C. F. ZAVALA GROUP



CITY OF SAN ANTONIO
TREE PROTECTION DETAILS
TREE PRESERVATION

DESIGNED:	FED. RD. DIV. NO.	STATE	SHT. NO.
CHECKED:	TEXAS		1 OF 4
DRAWN:	STATE DIST. NO.	COUNTY	CONTROL NO.
CHECKED:	BEAR		JOB NO. HIGHWAY NO.

18 MAR 27 AM 10:19
 CDS muary ENGINEERS, A SURVEYORS
 DESIGN BY: CWR DATE: FEBRUARY 2018
 DRAWN BY: CDS APPROVED BY:
 CHECKED BY: MR CDS JOB NO.: 115143
 REVIEWED BY: KR DWG NAME: 15H-TP-01.DWG
 NO. DATE REVISIONS BY

SAWS Job No. 15-4802
 TREE PRESERVATION PLAN- TREE DETAILS
 MARTINEZ CREEK PROJECT
 PEREZ ST. TO W. HUISACHE AVE. PROJECT

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Sheet TP-3
 XX of XX