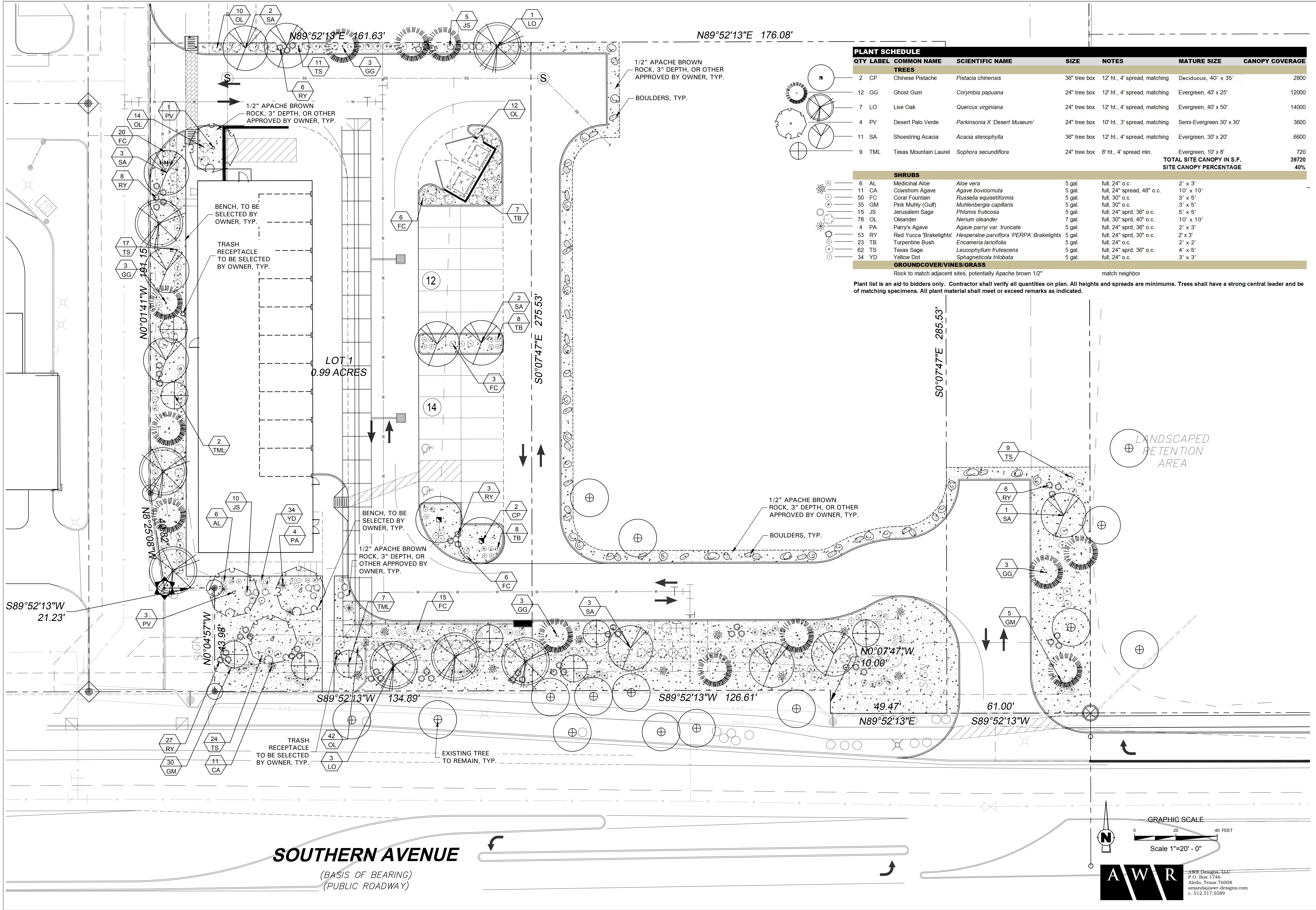




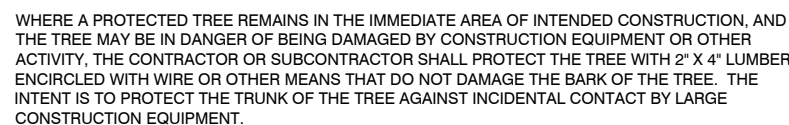
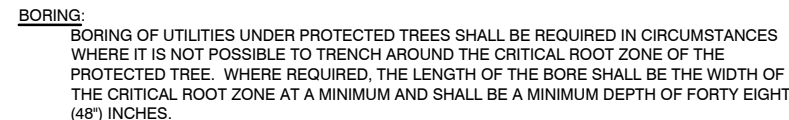
REGISTERED LANDSCAPE ARCHITECT
75119
AMANDA W. RICHARDSON
03/31/25
ARIZONA, U.S.A.

ANIMAS
CIVIL ENGINEERING

NEC SOUTHERN AVE. &
SIGNAL BUTTE RD.
MESA, ARIZONA

LANDSCAPE PLAN

L1.02



TREE PRESERVATION NOTES

CONSTRUCTION METHODS

BORING: BORING OF UTILITIES UNDER PROTECTED TREES MAY BE REQUIRED. WHEN REQUIRED, THE MINIMUM LENGTH OF THE BORE SHALL BE THE WIDTH OF THE CRITICAL ROOT ZONE AND SHALL BE A MINIMUM DEPTH OF FORTY (40) INCHES.

TRENCHING: ALL TRENCHING SHALL BE DESIGNED TO AVOID TRENCHING ACROSS CRITICAL ROOT ZONES OF ANY PROTECTED TREE. THE PLACEMENT OF UNDERGROUND UTILITY LINES SUCH AS ELECTRIC, PHONE, GAS, ETC., IS ENCOURAGED TO BE LOCATED OUTSIDE THE CRITICAL ROOT ZONE. TRENCHING FOR IRRIGATION SYSTEMS SHALL BE PLACED OUTSIDE THE CRITICAL ROOT ZONE EXCEPT THE MINIMUM REQUIRED SINGLE HEAD SUPPLY LINE. THIS LINE IS ALLOWED TO EXTEND INTO THE CRITICAL ROOT ZONE PERPENDICULAR TO THE TREE TRUNK WITH THE LEAST POSSIBLE DISTURBANCE.

TREES TO BE REMOVED: ALL TREES TO BE REMOVED FROM THE SITE SHALL BE FLAGGED BY THE CONTRACTOR WITH BRIGHT RED VINYL TAPE WRAPPED AROUND THE MAIN TRUNK AT A HEIGHT OF FOUR (4) FEET ABOVE GRADE.

TREES TO REMAIN: ALL TREES TO REMAIN, AS NOTED ON DRAWINGS, SHALL HAVE PROTECTIVE FENCING LOCATED AT THE TREE'S DRIP LINE. THE PROTECTIVE FENCING SHALL BE LOCATED AS INDICATED ON THE TREE PROTECTION DETAIL.

EXISTING TREES NOTED TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION FROM DAMAGE AND COMPACTION OF SOIL UNDER AND AROUND DRIP LINE OF TREE.

UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR PRUNE ANY PORTION OF THE DAMAGED TREE WITHOUT THE PRIOR APPROVAL BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

PROHIBITED ACTIVITIES IN CRITICAL ROOT ZONE:

THE FOLLOWING ACTIVITIES ARE PROHIBITED IN THE AREAS NOTED AS THE CRITICAL ROOT ZONE.

MATERIAL STORAGE: NO MATERIALS INTENDED FOR USE IN CONSTRUCTION, OR WASTE MATERIALS ACCUMULATED DUE TO EXCAVATION OR DEMOLITION, SHALL BE PLACED WITHIN THE LIMITS OF THE CRITICAL ROOT ZONE OF ANY PROTECTED TREE.

EQUIPMENT CLEANING/LIQUID DISPOSAL: NO EQUIPMENT SHALL BE CLEANED, OR OTHER LIQUIDS DEPOSITED OR ALLOWED WITHIN THE LIMITS OF THE CRITICAL ROOT ZONE OF A PROTECTED TREE. THIS INCLUDES, WITHOUT LIMITATION: PAINT, OIL, SOLVENTS, ASPHALT, CONCRETE, MORTAR OR SIMILAR MATERIALS.

TREE ATTACHMENTS: NO SIGNS, WIRES, OR OTHER ATTACHMENTS, OTHER THAN THOSE OF A PROTECTIVE NATURE, SHALL BE ATTACHED TO ANY PROTECTED TREE.

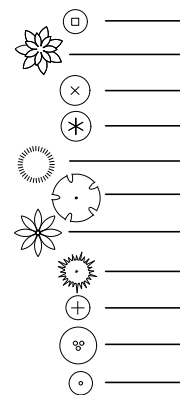
VEHICULAR TRAFFIC: NO VEHICULAR AND/OR CONSTRUCTION, EQUIPMENT, TRAFFIC, OR PARKING SHALL TAKE PLACE WITHIN THE LIMITS OF THE CRITICAL ROOT ZONE OF ANY PROTECTED TREE OTHER THAN ON EXISTING STREET PAVEMENT.

GRADE CHANGES: A MINIMUM OF 75% OF THE DRIP LINE AND ROOT ZONE SHALL BE PRESERVED AT NATURAL GRADE. ANY FINE GRADING DONE WITHIN THE CRITICAL ROOT ZONES OF THE PROTECTED TREES MUST BE DONE WITH LIGHT MACHINERY SUCH AS A BOBCAT OR LIGHT TRACTOR. NO EARTH MOVING EQUIPMENT WITH TRACKS IS ALLOWED WITHIN THE CRITICAL ROOT ZONE OF THE TREES.

PROCEDURES REQUIRED PRIOR TO CONSTRUCTION:

PROTECTIVE FENCING: PRIOR TO CONSTRUCTION, THE CONTRACTOR OR SUBCONTRACTOR SHALL CONSTRUCT AND MAINTAIN, FOR EACH PROTECTED TREE ON A CONSTRUCTION SITE, A PROTECTIVE FENCING WHICH ENCIRCLES THE OUTER LIMITS OF THE CRITICAL ROOT ZONE OF THE TREE TO PROTECT IT FROM CONSTRUCTION ACTIVITY. ALL PROTECTIVE FENCING SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF ANY SITE WORK, AND REMAIN IN PLACE UNTIL ALL EXTERIOR WORK HAS BEEN COMPLETED.

BARK PROTECTION IN SITUATIONS WHERE A PROTECTED TREE REMAINS IN THE IMMEDIATE AREA OF INTENDED CONSTRUCTION, AND THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE DETERMINES THE TREE BARK TO BE IN DANGER OF DAMAGE BY CONSTRUCTION EQUIPMENT OR OTHER ACTIVITY, THE CONTRACTOR OR SUBCONTRACTOR SHALL PROTECT THE TREE BY ENCLOSING THE ENTIRE CIRCUMFERENCE OF THE TREE WITH 2"x4" LUMBER ENCIRCLED WITH WIRE OR OTHER MEANS THAT DO NOT DAMAGE THE TREE. THE INTENT IS TO PROTECT THE BARK OF THE TREE AGAINST INCIDENTAL CONTACT BY LARGE CONSTRUCTION EQUIPMENT.



Plant list is an aid to bidders only. Contractor shall verify all quantities on plan. All heights and spreads are minimums. Trees shall have a strong central leader and be of matching specimens. All plant material shall meet or exceed remarks as indicated.

LANDSCAPE TABULATIONS for Mesa, AZ	
General Requirements	
1. 50% of all required open space shall contain live plant material	
Total Site: 98645 s.f. (2.26 AC) less 32,707 s.f. for lot area to be developed at a later date	
REQUIRED	PROVIDED
	evergreen tree @100 s.f. X 30 = 2900
	deciduous tree @ 50 s.f. X 6 = 300
	ornamental tree @ 25 s.f. X 9 = 175
	large shrub 8"> @ 50 s.f. X 89 = 4450
	medium shrub 4-8" @ 25 s.f. X 127 = 3175
	small shrub <4" @ 10 s.f. X 63 = 630
	evergreen g.c. @ 25 s.f. X 23 = 575
	perennial plant/g.c. @ 5 s.f. X 34 = 170
	large ornamental grass @ 10 s.f. X 35 = 350
	TOTAL = 12,875 s.f.
	TOTAL CANOPY COVERAGE - 40%
Perimeter Requirements	
Southern Ave: 372 I.f.	
REQUIRED	PROVIDED
15 trees	15 trees
89 shrubs	123 shrubs (doesn't include screening shrubs)
	screening for garage doors/car bays, 6' ht
West Adjacency: 275 I.f.	
REQUIRED	PROVIDED
9 trees	9 trees
56 shrubs	57 shrubs
North Adjacency: 162 I.f.	
REQUIRED	PROVIDED
6 trees	6 trees
32 shrubs	33 shrubs
East Adjacency: 100 I.f.	
REQUIRED	PROVIDED
4 trees	3 proposed trees; 1 existing tree
20 shrubs	20 shrubs
Tree Canopy	
1. Million Trees Initiative: 15% of the tree canopy shall be provided for the city on project total.	
Site: 43,124 s.f., 0.99 AC	
REQUIRED	PROVIDED
6468 s.f.	33,800 s.f.
Interior Parking Lot	
1. Each landscape island shall contain 1 tree and 3 shrubs.	
REQUIRED	PROVIDED
7 trees, 10% in 36" box.	4 trees, 36" box; 1 tree, 24" box, additional shrubs provided due to proximity of dumpster
21 shrubs, 5 gal.	39 shrubs, 5 gallon and 7 gallon
Screening	
1. Landscape shall screen bay doors from adjacent streets and be a minimum of 6' in height. Large canopy trees and shrubs may be used for landscape.	
REQUIRED	PROVIDED
screening	screening
Building Requirements	
1. Building shall provide landscape at the base/foundation with plant materials such as trees, shrubs and perennials. Planting area shall be no less than 5' in depth.	
2. One tree shall be provided for every 50' of wall.	
REQUIRED	PROVIDED
foundation planting	foundation planting
5 trees	5 trees

LANDSCAPE NOTES

3. CONTRACTOR TO VERIFY AND LOCATE ALL PROPOSED AND EXISTING ELEMENTS. NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE FOR ANY LAYOUT CHANGES OR ANY DISCREPANCIES OR OMISSIONS. PROVIDE A SUMMARY OF FINDINGS AS SHOWN. SURVEY DATA OF EXISTING CONDITIONS WAS SUPPLIED BY OTHERS.
4. CONTRACTOR SHALL CALL 911 TO VERIFY AND LOCATE ANY AND ALL UTILITIES ON SITE PRIOR TO COMMENCING WORK. LANDSCAPE ARCHITECT SHOULD BE NOTIFIED OF ALL DISCREPANCIES. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING NEAR UNDERGROUND UTILITIES.
5. A MINIMUM OF 2% SLOPE SHALL BE PROVIDED AROUND FROM ALL STRUCTURES AND CURBS. SLOPE SHALL BE PROVIDED TO THE TOP OF THE CURB. SLOPE SHALL BE INSTALLED LEAVE AREAS TO RECEIVE TOPSOIL, 3" BELOW FINAL FINISHED GRADE IN PLANTING AREAS AND 1" BELOW FINAL FINISHED GRADE IN LAWN AREAS.
6. PLANTING AREAS SHALL BE SEPARATED FROM DRIVEWAYS AND SIDEWALKS BY THE SITE. PLANTING AREAS AND SOIL TO BE SEPARATED BY STEEL EDGING. NO STEEL EDGING SHALL BE INSTALLED ADJACENT TO BUILDINGS, WALKS OR CURBS. EDGING NOT TO BE MORE THAN 1/2" ABOVE FINISHED GRADE.
7. CURBS SHALL BE CUT AT 45 DEGREE ANGLE WHERE IT INTERSECTS WALKS AND/OR CURBS.
8. MULCH SHALL BE INSTALLED AT 2" BELOW THE TOPS OF SIDEWALKS AND CURBS.
9. TREES AND SHRUBS TO BE PLANTED SHALL BE REFERENCED ONLY. THE SPACING OF PLANTS SHOULD BE AS INDICATED ON PLANS OR OTHERWISE NOTED. ALL TREES AND SHRUBS SHALL BE PLANTED PER DETAILS.
10. MULCH TO BE PLANTED SHALL BE REFERENCED HOWEVER BALL AND BURLAP PLANT MATERIAL CAN BE SUBSTITUTED IF NEEDED AND IS APPROPRIATE TO THE SIZE AND QUALITY INDICATED ON THE PLANT MATERIAL LIST.
11. TREES SHALL BE PLANTED WITH 18" MINIMUM TRUNK DIAMETER. SIDEWALK AND CURB TREES SHALL ALSO BE 1" CLEAR FROM FIRE HYDRANTS.
12. 4" OF SHREDDED HARDWOOD MULCH (2" SETTLED THICKNESS) SHALL BE PLACED OVER WEED BARRIER FABRIC. MULCH SHALL BE SHREDDED HARDWOOD MULCH OR EQUIVALENT. FINE GRASS, FINE GRASS SEED, FINE GRASS SEED MIXTURE, FINE WEED BARRIER FABRIC SHALL BE USED IN PLANT BEDS AND AROUND ALL TREES AND CURB. MULCH SHALL BE MIRAFI 1400 WEED BARRIER OR APPROVED EQUAL.
13. CONTRACTOR TO PROVIDE ALL MATERIALS AND TO BE RESPONSIBLE FOR OBTAINING ALL LANDSCAPE AND IRRIGATION PERMITS.

IRRIGATION:

1. ALL REQUIRED LANDSCAPE AREAS SHALL HAVE AN AUTOMATIC IRRIGATION SYSTEM WITH A FREEZE/RAIN SENSOR. SYSTEM SHALL ALSO HAVE AN ET WEATHER BASED CONTROLLER AND BE DESIGNED AND INSTALLED BY A LICENSED IRRIGATOR.

MAINTENANCE REQUIREMENTS:

1. MATERIAL IS ESTABLISHING PROPERLY AND REMAINS IN A HEALTHY GROWING CONDITION APPROPRIATE FOR THE SEASON. IF DAMAGED OR REMOVED, PLANTS MUST BE REPLACED BY A SIMILAR VARIETY AND SIZE.
2. MOWING, TRIMMING, EDGING AND SUPERVISION OF WATER APPLICATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE OWNER OR OWNER'S REPRESENTATIVE ACCEPTS AND ASSUMES REGULAR MAINTENANCE.
3. ALL LANDSCAPE AREAS SHOULD BE CLEANED AND KEPT FREE OF TRASH, DEBRIS, WEEDS AND OTHER MATERIAL.

MISCELLANEOUS MATERIALS:

7. ROUGH SHREVE LOCKEY AVENUE 3/4" DIAMETER: ROUGH SHREVE BE COMPACTED TO A MINIMUM OF 3" DEPTH OVER FILTER FABRIC.

PRUNING AND TRIMMING NOTES

2. GUIDELINES IN THE INDUSTRY.
3. ALL TREES SHALL BE TRIMMED SO THAT NATURAL SHAPES OF THE PLANTS ARE RETAINED.
4. DO NOT TOP OR 'HEAD' TREES.
5. IF BOLLING OR SHEARING OF TREES HAS OCCURRED IN THE PAST, DISCONTINUE THIS PRACTICE AND ALLOW PLANTS TO GROW INTO NATURAL SHAPE.
6. REMOVE DEAD, DROPPING, BROKEN AND / OR WEAK BRANCHES FROM ALL TREES ALONG THE MAIN TRUNK STRUCTURE AND WITHIN THE BRANCHING AREA.
7. CONTRACTOR SHALL PRUNE EXISTING DECIDUOUS HARDWOOD BY REMOVING LOWER LIMBS TO RAISE THE CANOPY. THE BOTTOM OF THE CANOPY SHALL BE RAISED TO 12'-0" ABOVE GRADE FOR DECIDUOUS HARDWOOD TREES, WHEN POSSIBLE. THE INTEGRITY OF THE CANOPY AND STRUCTURE OF THE TREE SHALL BE MAINTAINED TO THE MAXIMUM EXTENT POSSIBLE.
8. CONTRACTOR SHALL THIN THE CANOPY BY ONE-FOURTH. PRUNE TREE TO EVENLY SPACE BRANCHES WITHIN THE CANOPY WHENEVER POSSIBLE. REMOVE THOSE BRANCHES THAT GROW CLOSE TO DOUBLE TRUNKS AND THOSE THAT EXCESSIVELY EXTEND BEYOND THE NATURAL GROWN OF THE TREE.
9. CONTRACTOR SHALL PROVIDE DEEP ROOT FEEDING AND INVIGORATION OF EXISTING TREES. THIS SHALL BE ORGANIC BASED NUTRIENTS BASED FOR ROOT GROWTH AND LEAF DEVELOPMENT.
10. CONTRACTOR SHALL BE REQUIRED TO CHIP ALL REMOVED BRANCHES, LEAFS, ETC.



