CITY OF ALPHARETTA, GEORGIA
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TREE GRADING CUE CARD
   (PROVIDED BY ROOTS PLUS FIELD GROWERS ASSOCIATION OF FLORIDA)
CROWN
Set and maintain in a plumb vertical position. Prune all dead, damaged or crossing branches and all waterspouts and suckers. Do not cut central leader or other branch tips.

ORGANIC MULCH
2" to 4" deep to limits of cultivated area. Keep 2" away from trunk.

ROOT BALL
Remove all strapping. Cut and remove at least top 2 rings of wire basket. Cut and remove at least top 12" of burlap. Cut encircling roots (container-grown trees).

PLANTING HOLE
Dig only deep enough to have top of root ball at grade or 2" higher in heavy or poorly drained soils. Slope sides 45° and scarify if necessary. Set root ball on solid ground.

WATER RING
Use only if trees are to be hand watered with a hose. Build no higher than 3" and place just beyond root ball. Destroy after one growing season.

TILLED SOIL
Compacted subgrade

PLANTING HOLE
3x the diameter of the root ball
TREE ANCHORING - TYPE A
(FOR TREES LARGER THAN 2 INCHES CALIPER)

STAKES
2"x2" WOODEN STAKES OR METAL ANCHORS. CUT STAKES LONG ENOUGH FOR SECURE GRIP IN SUBGRADE. ANGLE STAKES 20-30° OFF VERTICAL. USE 3 STAKES PLACED EQUAL DISTANCE APART (120°). 4 STAKES MAY BE NECESSARY FOR TREES GREATER THAN 4" CALIPER.

ATTACHMENT HEIGHT
ATTACH IN A BRANCH CROTCH APPROXIMATELY 1/3 THE HEIGHT OF THE MAIN STEM, OR AT FIRST AVAILABLE BRANCH CROTCH ABOVE THAT POINT.

STRAPS
WIDE, SOFT, FLEXIBLE MATERIAL MANUFACTURED FOR THE PURPOSE OF TREE ANCHORING SUCH AS WOVEN POLYPROPYLENE WEBBING OR RUBBER STRIPS WITH GROMMETS FOR WIRE ATTACHMENT. DO NOT USE HOSE AND WIRE.

USE ANCHORING SYSTEMS ONLY WHERE WIND OR SOIL CONDITIONS MAKE IT NECESSARY OR AS REQUIRED BY CITY ARBORIST. REMOVE AFTER ONE YEAR.
TREE ANCHORING - TYPE B
(FOR TREES UP TO 2 INCHES CALIPER OR FOR TREES IN BEAUTY STRIPS, SIDEWALK CUTOUTS, PLANTING PITS, ETC.)

USE ANCHORING SYSTEMS ONLY WHERE WIND OR SOIL CONDITIONS MAKE IT NECESSARY. REMOVE AFTER ONE YEAR.

STAKES
2"x2"x5' WOODEN STAKES OR 5' LONG METAL FENCE POSTS. PLACE PERPENDICULAR TO PREVAILING SUMMER WINDS.

WEST WIND

STRAPS
WIDE, SOFT, FLEXIBLE MATERIAL MANUFACTURED FOR THE PURPOSE OF TREE ANCHORING. TWO EXAMPLES SHOWN HERE ARE A WOVEN POLYPROPYLENE WEBBING AND A RUBBER STRIP WITH GROMMETS FOR WIRE ATTACHMENT.

ATTACHMENT HEIGHT
ATTACH AT APPROXIMATELY 1/3 THE HEIGHT OF THE MAIN STEM.
USE ANCHORING SYSTEMS ONLY WHERE WIND OR SOIL CONDITIONS MAKE IT NECESSARY. REMOVE AFTER ONE YEAR.
TREE PLANTING IN PARKING LOTS
(TYPICAL SECTION)

DRAINAGE SYSTEM
AS NEEDED. PERFORATED DRAIN PIPE IN GRAVEL BED CONNECTED TO STORM DRAIN OR FRENCH DRAIN.

CURB & GUTTER

PLANTING HOLE
TAMP SOIL BENEATH TREE FIRMLY TO PREVENT SETTLING.

GROUND COVER
COVER ENTIRE PLANTER AREA WITH 2-4" DEEP ORGANIC MULCH. USE GROUND COVER OR SHRUBS ONLY AS SHOWN ON THE CITY OF ALPHARETTA APPROVED LANDSCAPE PLAN (FOR LAND DISTURBANCE PERMIT).

BACKFILL
EXCAVATE AND BACKFILL ENTIRE PARKING LOT ISLAND WITH A MINIMUM OF 3' DEEP FRIABLE TOPSOIL OR CLEAN CULTIVATED SUBSOIL.

ROOT BARRIER
OPTIONAL. PREVENTS ROOTS FROM GROWING BETWEEN PAVEMENT AND BASE MATERIAL.

SUBGRADE
8'-0" MINIMUM BACK OF CURB TO BACK OF CURB (TOTAL AREA SHALL BE A MINIMUM OF 200 SQ. FT.)

PAVEMENT BASE
STD. L-5

08/01/2015

THE CITY OF ALPHARETTA
GEORGIA

STD. L-5

BY
REVISION
DATE
FENCE LOCATION
AT LIMITS OF CRITICAL ROOT ZONE
(CRZ RADIUS = 1.3' PER 1" DBH)
OR AS SHOWN ON THE TREE PROTECTION PLAN

FENCE POSTS
2"x2" WOOD OR METAL STAKE

FENCE MATERIAL
ORANGE LAMINATED SAFETY NETTING

FENCE POSTS
METAL STAKE OR "U" POST

FENCE MATERIAL
ORANGE LAMINATED SAFETY NETTING WITH WIRE BACKING ("HOG WIRE" - 14 GAUGE, 2"x4" MESH)

FENCE POSTS
METAL STAKE OR "U" POST

FENCE MATERIAL
ORANGE LAMINATED SAFETY NETTING

NOTES:
1. ALL TREE PROTECTION DEVICES ARE TO BE INSTALLED PRIOR TO THE START OF LAND DISTURBANCE AND MAINTAINED UNTIL FINAL LANDSCAPING IS INSTALLED. NO PARKING, STORAGE OR OTHER CONSTRUCTION SITE ACTIVITIES ARE TO OCCUR WITHIN THE TREE PROTECTION AREA.
2. PROVIDE 4" DEEP WOOD CHIP MULCH OVER ANY UNPROTECTED ROOT ZONE.
3. MAKE CLEAN CUTS ON_ROOTS EXPOSED BY GRADING AND BACKFILL IMMEDIATELY.
4. INSTALLATION SHALL INVOLVE NO TRENCHING.
5. SIGNS TO BE PLACED AT 50' INTERVALS ALONG FENCING. SIGNS TO BE A MINIMUM OF 8½" X 11". SIGNS TO READ:

ACCESS POINT
ALL TREE PROTECTION/LOD FENCING MUST HAVE A MINIMUM OF ONE ACCESS POINT EVERY 200' OF FENCING. ACCESS POINT SHALL BE CONSTRUCTED AS BELOW.

SIGN
TYPE "A"

SIGN
TYPE "B"

SIGN
TYPE "C"

ACCESS POINT

CRZ
24" DBH TREE

1.3' PER 1" DBH
NOTES:
1. OMIT COLLAR AROUND EACH SHRUB WHEN IRRIGATION SYSTEM IS PRESENT.
2. INSTALL TOP OF PLANT BALL 2"-3" ABOVE ADJACENT GRADE.
3. TAMp PLANTING MIX FIRMLY AS PIT IS FILLED AROUND EACH PLANT BALL.
4. SOAK EACH PLANT BALL AND PIT IMMEDIATELY AFTER INSTALLATION.
NOTES:
1. ROOT BARRIERS SHALL BE REQUIRED WHEN TREES ARE PLANTED OR ARE EXISTING WITHIN 10' OF ALL CITY OWNED AND MAINTAINED HARDSCAPES.
2. ROOT BARRIERS SHALL BE INSTALLED ALONG THE LENGTH OF THE HARDSCAPES FOR THE EXPECTED CRZ OF THE TREE AT MATURITY OR ALONG THE ENTIRE LENGTH OF THE HARDSCAPE.
3. ROOT BARRIER SHALL BE HIGH DENSITY AND HIGH IMPACT PLASTIC, A MINIMUM 18" DEEP, AS AVAILABLE FROM "DEEP ROOT", VESPRO, INC, OR EQUIVALENT AS APPROVED BY CITY OF ALPHARETTA. BIO BARRIER OR SIMILAR MAY BE SUBSTITUTED, AS APPROVED BY THE CITY.
4. TOP OF ROOT BARRIER SHALL BE SET A MINIMUM OF \( \frac{1}{2} \) ABOVE FINISHED GRADE OF SOIL. HOWEVER, UNDER NO CIRCUMSTANCES SHALL THE TOP OF ROOT BARRIER EXTEND ABOVE ADJACENT CURB, SIDEWALK OR OTHER HARD SURFACING, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PLEASE PROVIDE MANUFACTURER'S INSTRUCTIONS.
NOTES:
1. WHERE ANY EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN TEN FEET (10'-0") TO A TREE TRUNK; PROTECT THE TRUNK WITH STRAPPED-ON-PLANKING TO A HEIGHT OF EIGHT FEET (8'-0"), OR TO THE LIMITS OF LOWER BRANCHING, IN ADDITION TO THE REQUIRED ORANGE LAMINATE FENCING.
2. 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 TWO (2) DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE, AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
3. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE CRZ, MAKE A CLEAN CUT BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A PRUNING SAW, DITCH WITCH OR SIMILAR EQUIPMENT, TO MINIMIZE DAMAGE TO REMAINING ROOTS.
4. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER.
5. SAND BAGS OR HAY BALES SHALL BE PLACED ON THE ROOT FLARES AND ANY EXPOSED STRUCTURAL ROOTS.
6. ALL EXPOSED, RIPPLED, AND TORN ROOTS GREATER THAN ONE-HALF INCH (1/2") SHALL BE CLEAN CUT.
7. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN FOUR INCHES (4") SHALL BE PERMITTED WITHIN THE CRZ OF A TREE. NO SOIL IS PERMITTED ON THE ROOT FLARE OF ANY TREE.
8. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC AND EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS.
NOTES:
1. INSTALLATION OF "CU STRUCTURAL SOIL" (OR APPROVED EQUAL) AND BRICK PAVING MUST BE UNDERTAKEN BY AN EXPERIENCED CONTRACTOR. THE CONTRACTOR MUST HAVE EXPERIENCE WORKING WITH THE SPECIFIED MATERIALS AND BE ABLE TO SHOW PROOF OF THIS EXPERIENCE. SAMPLES OF ALL MATERIALS MUST BE SUBMITTED AND BE APPROVED BY THE CITY. THIS WORK WILL BE SUPERVISED BY THE CITY OF ALPHARETTA.
2. IN AREAS NOT ADJACENT TO A TREE PLANTING AREA, THE "CU STRUCTURAL SOIL" (OR APPROVED EQUAL) EXTENDS TO THE BACK OF CURB.
3. LOCATE ALL UTILITIES PRIOR TO DIGGING TREE PITS. DO NOT SPRAY PAINT NEW PAVERS AND CONCRETE INDICATED TO REMAIN. IF AT ALL POSSIBLE WHEN LOCATING UTILITIES, NOTIFY ENGINEER OF ANY CONFLICTS WITH UTILITY LINES.
4. REFERENCE CITY OF ALPHARETTA LANDSCAPE DETAILS L1, L2, L3, L4 AND L8 FOR ADDITIONAL INFORMATION ON TREE PLANTING, ANCHORING AND ROOT BARRIER.