

HANDLING, PLANTING, AND CARE **INSTRUCTIONS (HPC)**

THESE INSTRUCTIONS FOR HANDLING, PLANTING, AND POST PLANTING CARE MUST BE IMPLEMENTED FOR THE SELECT TREES WARRANTY TO BE VALID. IF THERE IS ANY DISCREPANCY BETWEEN THESE INSTRUCTIONS AND PROJECT SPECIFICATIONS, PLEASE NOTIFY THE OWNER, LANDSCAPE ARCHITECT AND SELECT TREES IN WRITING BEFORE WORK IS STARTED.

CAUTION

USE EXTREME CAUTION WHEN HANDLING TREES. USE A STRAP CRADLE (ADEQUATE FOR WEIGHT AND SIZE OF TREE) ATTACHED TO ROOT BALL TO UNLOAD & MOVE TREES. STRAPPING AND WIRE BASKET CAN BREAK OR LOOSEN. NEVER MOVE, LIFT, OR HANDLE BY ATTACHING TO OR BY PUTTING PRESSURE ON THE TRUNK.

STAND CLEAR AT ALL TIMES!

BE CERTAIN YOUR EQUIPMENT, INCLUDING STRAPS, CHAINS, AND CRADLES, IS RATED FOR THE WEIGHTS YOU ARE LIFTING.

*If there is any discrepancy between these instructions and project specifications, please notify the owner, landscape architect and Select Trees in writing before work is started.

HANDLING, PLANTING, AND CARE **INSTRUCTIONS**

CLOSELY FOLLOWING THESE INSTRUCTIONS SHOULD PROMOTE HEALTHY TREE GROWTH & SHOULD PREVENT THE FOLLOWING CHALLENGES FROM OCCURRING:

- DEFOLIATION / HOLDING BROWN LEAVES
- FORMATION OF TRUNK-GIRDLING ROOTS
- SECONDARY PESTS (INSECTS / DISEASE)
- TRUNK & CANOPY DAMAGE
- LEANING TREES / LOOSE ROOT BALLS
- POOR HEALTH, LACK OF VIGOR, DECLINE OR DEATH

A. UNLOADING, HANDLING, AND STAGING

1. PREP FOR STAGING:

STAGING SYSTEMS SHOULD BE PREPARED IN ADVANCE TO ADEQUATELY HOLD TREES ABOVE GROUND FOR OPTIMUM TREE HEALTH PRIOR TO PLANTING. MANY TIMES, EVEN WITH THE BEST PLANNING & COORDINATION, TREES CANNOT BE PLANTED WHEN THEY ARE DELIVERED.

2. CAUTION:

USE EXTREME CAUTION WHEN HANDLING TREES. USE A STRAP OR CHAIN CRADLE (ADEQUATE FOR WEIGHT AND SIZE OF TREE AND ROOTBALL) ATTACHED TO THE ROOT BALL TO UNLOAD & MOVE TREES. STRAPPING & WIRE BASKETS CAN BREAK OR LOOSEN. NEVER MOVE, LIFT, OR HANDLE BY ATTACHING TO OR BY PUTTING PRESSURE ON THE TRUNK. BE VERY CAREFUL NOT TO DAMAGE OR SCAR TRUNKS & BRANCHES.

3. UNLOADING:

PRIOR TO UNLOADING, PROPER MOISTURE SHOULD BE MAINTAINED IN ROOT BALLS. TRUCKS SHOULD BE STAGED IN THE SHADE PRIOR TO UNLOADING. UNLOADING TIME SHOULD BE NO MORE THAN TWO HOURS PER TRUCK.

4. STAND-UP:

IMMEDIATELY AFTER UNLOADING (NO MORE THAN ONE HOUR AFTER UNLOADING), STAND THE TREES UP. THIS WILL REDUCE THE RISK OF SUN-SCALD. PROPERLY STAGED TREES ARE STANDING, CANOPIES UNTIED, & SPACED SO THAT CANOPIES ARE NOT TOUCHING. TREES SHOULD NOT BE STAGED ON PAVEMENT. CONCRETE BLOCKS OR WOOD BLOCKS CAN BE USED TO SUPPORT ROOT BALLS. SIDES OF ROOTBALLS SHOULD NOT BE IN CONTACT WITH SOIL OR MULCH.

5. TRUNK PROTECTORS:

REMOVE THE CARDBOARD TRUNK PROTECTOR WITHIN 48 HOURS OF TREES BEING STOOD UPRIGHT TO REDUCE THE RISK OF LATER DAMAGE TO BARK AND TRUNK. SAVE TRUNK PROTECTORS AND ATTACH TO TREES JUST PRIOR TO MOVING.

6. MOISTURE:

MONITOR MOISTURE IN THE ROOT BALL BY PROBING WITH A SOIL PROBE & MANAGE SUPPLEMENTAL IRRIGATION ACCORDINGLY. BE CAREFUL NOT TO OVER OR UNDER IRRIGATE.

7. COLD:

DURING COLD WEATHER PERIODS, ROOT BALLS MUST BE PROTECTED FROM FREEZING TEMPERATURES.

*If there is any discrepancy between these instructions and project specifications, please notify the owner, landscape architect and Select Trees in writing before work is started.

HANDLING, PLANTING, AND CARE

INSTRUCTIONS

B. PLANTING

1. PERCOLATION TEST:

- a. SUBMIT A SOIL PERCOLATION TEST REPORT AT LEAST 4 WEEKS PRIOR TO PLANTING FOR EACH 200 CUBIC YARDS OF PROPOSED NEW PLANTING SOIL, OR EXISTING STOCKPILED PLANTING SOIL, CERTIFYING THAT PROPOSED SOIL HAS A PROPER WATER ABSORPTION RATE.
 - i. DIG A RECTANGULAR PIT 24 INCHES SQUARE BY 18 INCHES DEEP. FILL PLANTING PIT WITH 6 INCHES OF WATER, AND TIME THE INFILTRATION RATE. IF THE RATE IS LESS THAN 0.25 INCHES PER HOUR, NOTIFY ARCHITECT TO DETERMINE NEED FOR SUBSURFACE DRAINAGE.
- b. SUBMIT A SOIL PERCOLATION TEST REPORT AT LEAST 4 WEEKS PRIOR TO PLANTING FOR EACH TYPICAL PLANTING BED SECTION (MINIMUM OF 20 FEET ON CENTER) INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING CONDITIONS: ON STRUCTURE, ON GRADE, GENERAL PLANTING, TREE PIT, RAISED PLANTER, WITH SUBDRAINAGE, WITHOUT SUBDRAINAGE, ETC.
 - i. IMMEDIATELY FOLLOWING PLANTING SOIL INSTALLATION, IDENTIFY LOCATIONS FOR TESTING, AS APPROVED BY THE ARCHITECT.
 - ii. AT EACH, EXCAVATE A PIT PER TYPICAL PLANTING DETAILS. FILL THE PIT WITH WATER TO A DEPTH OF 12 INCHES. REPORT LENGTH OF TIME REQUIRED FOR THE WATER TO PERCOLATE INTO THE SOIL, LEAVING THE PIT EMPTY. WITHIN 6 HOURS OF THE TIME THE WATER HAS DRAINED FROM THE PIT, AND IN THE PRESENCE OF THE ARCHITECT, AGAIN FILL THE PIT WITH WATER TO A DEPTH OF 12 INCHES.
 - iii. OPEN DOWN-STREAM CLEAN-OUTS AND VERIFY THAT WATER IS FLOWING AT AN ACCEPTABLE RATE THROUGH ALL PLANTER SUBDRAINAGE SYSTEMS.
 - iv. IF THE WATER DOES NOT COMPLETELY PERCOLATE INTO THE SOIL WITHIN 9 HOURS, SUBMIT A PROPOSAL FOR DRAINAGE SYSTEM IMPROVEMENTS. DO NOT PROCEED WITH PLANTING UNTIL A DETERMINATION IS MADE BY THE ARCHITECT.

2. PREPARATION:

BEFORE PLANTING, REMOVE ANY PLASTIC WRAP & ANY CIRCLING ROOTS FROM THE ROOT BALL. HANDLE TREE ONLY BY ROOT BALL & BE CERTAIN YOUR EQUIPMENT, INCLUDING STRAP & CHAIN CRADLES, ARE RATED FOR THE WEIGHT YOU ARE LIFTING.

3. HOLE WIDTH:

EXCAVATE PLANTING HOLE AT LEAST TWO TIMES THE DIAMETER OF ROOTBALL. ROOTBALL MUST BE SET ON COMPACTED FOUNDATION THAT CANNOT SETTLE WHEN SATURATED.

4. HOLE DEPTH:

EXCAVATE HOLE NO DEEPER THAN 2" SHALLOWER THAN THE ROOTBALL DEPTH. IF A HOLE IS OVER-EXCAVATED, USE SIZE 57 STONE GRAVEL PLACED IN THE BOTTOM OF THE HOLE, BEGINNING AT UNDISTURBED SOIL, AND FILL UP TO THE LEVEL WHERE BOTTOM OF ROOTBALL SHOULD REST. DO NOT PLACE SOIL BACK IN AN OVER-EXCAVATED HOLE.

*If there is any discrepancy between these instructions and project specifications, please notify the owner, landscape architect and Select Trees in writing before work is started.

HANDLING, PLANTING, AND CARE

INSTRUCTIONS

B. PLANTING CONTINUED

5. EQUIPMENT:

USE A TELEHANDLER MACHINE WITH SIDE-TILT CARRIAGE FORKS (BRANDS SUCH AS LULL OR JLG) MACHINE UNLESS WRITTEN APPROVAL TO DO OTHERWISE IS GIVEN BY THE LANDSCAPE ARCHITECT AND SELECT TREES. A TELEHANDLER RATED TO HANDLE WEIGHTS OF ROOTBALLS AND TREES SHOULD BE USED TO SET ROOT BALLS IN PLANTING PITS. FORKS SHOULD ALWAYS BE CAREFULLY POSITIONED ABOVE ROOTBALL TO LIFT ROOTBALL BY STRAPPING ON TOP OF THE ROOT BALL WITH FOUR PICK-UP POINTS FOR EVEN WEIGHT DISTRIBUTION. PRIOR TO SETTING ROOTBALL IN PLANTING PIT, FORKS SHOULD BE ADJUSTED SO THAT TREE IS PLUMB. PLACE ROOTBALL AT A LEVEL WHERE THE TRUNK FLARE WILL BE 2" ABOVE SURROUNDING FINISHED GRADE AFTER SETTLING.

6. STRAIGHT AND PLUMB:

MAINTAIN THE TREE WITH FORKS IN A STRAIGHT & PLUMB POSITION WHILE BACKFILLING AND WATERING.

7. BACKFILL/WATER:

AFTER 1/2 BACKFILL, WATERING, & THE TREE IS PLUMB, THEN ADD BACKFILL TO JUST BELOW THE TOP HORIZONTAL RING OF THE WIRE BASKET, COMPLETELY SATURATE PLANTING HOLE. ADJUST ROOT BALL (IF NECESSARY) BY ADJUSTING FORKS TO MAKE TREE STRAIGHT & PLUMB AND AT PROPER DEPTH. DO NOT REMOVE FORKS UNTIL TREE IS STRAIGHT AND PLUMB, BACKFILL IS SETTLED, AND ROOTBALL IS STABLE.

8. REMOVE FORKS:

AFTER ABOVE ITEMS HAVE BEEN COMPLETED AND TREE IS STRAIGHT AND PLUMB WITH ROOTBALL STABLE AND AT PROPER DEPTH, GENTLY REMOVE FORKS AND ALSO REMOVE:

- a. THE SYNTHETIC STRAP,
- b. ANY CARDBOARD PACKAGING,
- c. THE TOP PORTION OF THE WIRE BASKET DOWN TO & INCLUDING THE FIRST HORIZONTAL RING
- d. THE BURLAP FROM THE TOP PORTION OF THE ROOT BALL.

9. BACKFILL/WATER:

COMPLETE THE BACKFILL & THOROUGHLY SATURATE WITH WATER. REPEAT THIS STEP IF NECESSARY TO MAKE ABSOLUTELY CERTAIN THAT AIR POCKETS DO NOT EXIST IN THE BACKFILL.

10. WHEN SOIL ON TOP OF ROOTBALL IS DISTORTED OR NOT PERPENDICULAR TO TREE TRUNK:

EVEN ROOTBALLS WITH EXCELLENT ROOT SYSTEMS GROWN AND HARVESTED AT PROPER DEPTH CAN SOMETIMES BECOME DISTORTED DURING SHIPPING AND HANDLING.

ACTIONS TO TAKE IF SOIL ON TOP OF ROOTBALL HAS BECOME DISTORTED:

- a. IF SOIL IS BULGING OR DISTORTED ON THE TOP SURFACE OF THE ROOTBALL:
 - i. VERY GENTLY TAMP THE AREA OF BULGING OR DISTORTED SOIL AS MUCH AS POSSIBLE SO THAT SOIL IS PERPENDICULAR TO TRUNK.
 - ii. IF SOIL IS STILL BULGING OR DISTORTED, VERY GENTLY (WITH A SHARP SHOVEL OR SPADE) CUT AND REMOVE REMAINING BULGE.

*If there is any discrepancy between these instructions and project specifications, please notify the owner, landscape architect and Select Trees in writing before work is started.

HANDLING, PLANTING, AND CARE

INSTRUCTIONS

B. PLANTING CONTINUED

b. ROOTBALL DISTORTION CAN BE MINIMIZED BY:

- i. PROVIDING AS MUCH ADVANCE NOTICE AS POSSIBLE SO THAT SELECT TREES WILL BE ABLE TO BEST MANAGE SOIL MOISTURE DURING HARVEST, LOADING, AND SHIPPING.**
- ii. COORDINATING SCHEDULING SO THAT TREES WILL NOT BE SHIPPED DURING SIGNIFICANT RAIN.**
- iii. FOLLOWING THE PREVIOUS HANDLING PLANTING AND CARE INSTRUCTIONS. WHEN A TREE IS HANDLED, MOVED, ADJUSTED, STRAIGHTENED, ETC. MORE THAN THE MINIMUM STEPS COVERED IN THESE INSTRUCTIONS, THE POSSIBILITY OF ROOTBALL DISTORTION AND OTHER DAMAGE INCREASES. ROOTBALLS THAT ARE MOVED WHEN EXTREMELY WET ARE THE MOST LIKELY TO BECOME DISTORTED OR DAMAGED.**

11. STAKING:

IMMEDIATELY AFTER BACKFILL HAS SETTLED & THE TREE IS STRAIGHT & PLUMB, STAKE TREE TO PROVIDE STABILITY UNTIL ROOT SYSTEM IS THOROUGHLY ESTABLISHED IN THE BACKFILL. CHECK STAKING AS NEEDED TO MAKE SURE TRUNK DAMAGE DOES NOT OCCUR. CHECK TO CONFIRM THAT TREE AND ROOT BALL ARE STABLE BEFORE REMOVING STAKING.

12. MULCH:

MULCH THE AREA OVER THE ROOT BALL TO A DEPTH NO DEEPER THAN 1 1/2" TO 2". KEEP ALL MULCH AWAY FROM THE TRUNK FLARE. BARK TISSUE THAT IS IN CONTACT WITH MULCH IS LIKELY TO SOFTEN AND TO ATTRACT INSECTS AND DISEASE. REMOVE ANY OLD MULCH BEFORE APPLYING NEW MULCH.

13. STRAIGHTENING:

IF FOR ANY REASON TREES NEED STRAIGHTENING, TREES CAN BE STRAIGHTENED BY CAREFULLY DIGGING OUT ALL BACKFILL AROUND THE ROOT BALL, ATTACHING SEAT BELT STRAP TO THE WIRE BASKET AND LIFTING. NEVER PULL, PUSH, OR PUT PRESSURE ON THE TRUNK (REFER TO ACTIONS B.3 - B.13 FOR INFORMATION TO COMPLETE THIS PROCESS). IF TREE ROOTS ARE SIGNIFICANTLY ESTABLISHED IN THE BACKFILL, IT IS BEST FOR THE HEALTH OF THE TREES TO WAIT UNTIL DORMANCY TO STRAIGHTEN TREES, SINCE ROOTS OUTSIDE THE ORIGINAL ROOTBALL WILL BE CUT.

*If there is any discrepancy between these instructions and project specifications, please notify the owner, landscape architect and Select Trees in writing before work is started.

HANDLING, PLANTING, AND CARE

INSTRUCTIONS

C. POST-PLANTING CARE

- 1. WATER MANAGEMENT – BOTH EXCESS SOIL MOISTURE AND LACK OF SOIL MOISTURE WILL CAUSE ROOT DEATH THAT WILL LEAD TO CANOPY DECLINE AND TREE DEATH. THE SOIL PROBE IS THE BEST TOOL WE HAVE FOUND IN OVER 30 YEARS OF EVALUATION AND MUST BE USED TO MONITOR SOIL MOISTURE.**

A. MONITORING SOIL MOISTURE:

- 1. “TREE MAINTENANCE SPREADSHEET” (TMS) AVAILABLE FROM SELECT TREES OR LANDSCAPE ARCHITECT SHOULD BE COMPLETELY UPDATED AT LEAST ONCE WEEKLY (DAILY WHEN PROBING SHOWS WET OR DRY SOIL) WITH ACTIONS PERFORMED TO ACHIEVE PROPER SOIL MOISTURE DURING THE FIRST TWO FULL GROWING SEASONS, FROM APRIL 1 THROUGH OCTOBER 31, AND AT LEAST ONCE EVERY TWO WEEKS DURING SUBSEQUENT GROWING SEASONS, AS WELL AS EVERY TWO WEEKS FROM NOVEMBER 1 THROUGH MARCH 30. THESE SPREADSHEETS MUST BE EMAILED TO AND RECEIVED BY THE LANDSCAPE ARCHITECT, OWNER’S REPRESENTATIVE, AND BY SELECT TREES WITHIN 24 HOURS OF EACH UPDATE.**
 - 2. MONITOR MOISTURE IN THE ROOT BALL AND IN THE BACKFILL BY TAKING A CORE SOIL SAMPLE WITH A SOIL PROBE & ADJUST SOIL MOISTURE ACCORDINGLY. PROBE TO A MINIMUM 6” DEPTH IN THE ROOTBALL AND MINIMUM 30” DEPTH IN THE BACKFILL. BE CAREFUL NOT TO OVER OR UNDER IRRIGATE.**
 - 3. IF SOIL IS DRY OR WET IN ROOTBALL OR IN BACKFILL, TAKE STEPS DAILY TO REMEDY AND CONTINUE TO PROBE DAILY AND UPDATE AND EMAIL TMS UNTIL PROPER SOIL MOISTURE IS ACHIEVED.**
 - 4. FLAGS: MARKING TREES WITH FLAGS DURING PROBING WILL SERVE AS A VISUAL INDICATOR OF YOUR PROBING RESULTS. THIS SHOULD HELP TO PRIORITIZE IMMEDIATE ACTIONS FOR DRY OR WET SOIL CONDITIONS.**
 - 5. “SUMMARY TREE MAINTENANCE SPREADSHEET” (SUMMARY TMS) AVAILABLE FROM LANDSCAPE ARCHITECT SHOULD BE COMPLETED AT LEAST ONCE EVERY TWO WEEKS FOR THE FIRST TWO YEARS AND EMAILED PER INSTRUCTIONS IN A-1 ABOVE. YOUR CONTINUED ANALYSIS OF THE SUMMARY TMS SHOULD ILLUSTRATE TRENDS FOR THE MOST EFFECTIVE MANAGEMENT OF SOIL MOISTURE.**
- B. IF SOIL MOISTURE IS WET IN ROOTBALL OR IN BACKFILL, STOP ALL IRRIGATION AND ALL SOURCES OF WATER THAT COULD AFFECT AREAS OF WET SOIL MOISTURE AND SEE BELOW:**

*If there is any discrepancy between these instructions and project specifications, please notify the owner, landscape architect and Select Trees in writing before work is started.

HANDLING, PLANTING, AND CARE INSTRUCTIONS

C. POST-PLANTING CARE CONTINUED

STEPS TO REMEDY WET SOIL CONDITIONS

1. PROBE DAILY PER INSTRUCTIONS ON TREE MAINTENANCE SPREADSHEET UNTIL PROPER SOIL MOISTURE IS ACHIEVED.
2. EVALUATE & REMEDY ANY SOURCES OF WATER THAT AFFECT TREES IN QUESTION INCLUDING RAIN, IRRIGATION, AND SUB-SURFACE WATER.
3. INSTALL TWO SUMP PIPES PER TREE IF SOIL MOISTURE IN BACKFILL CONTINUES TO REMAIN WET FOR A PERIOD OF THREE OR MORE CONSECUTIVE DAYS.
4. INSPECT & PUMP OUT SUMP PIPES DAILY UNTIL WATER IS NOT PRESENT IN SUMP PIPES.
5. CONDUCT IRRIGATION AUDIT TO DETERMINE IF EXCESS WATER IS COMING FROM IRRIGATION AND ADJUST TREE & TURF IRRIGATION ACCORDINGLY.
6. IF ABOVE STEPS ARE NOT EFFECTIVE TO REMEDY WET SOIL CONDITIONS, SUBSURFACE DRAINAGE MAY BE REQUIRED TO CREATE PROPER SOIL MOISTURE.



C. IF SOIL MOISTURE IS DRY, APPLY WATER IMMEDIATELY.

1. **TREEGATOR® BAGS**– WHEN SOIL PROBING INDICATES THAT ROOT BALLS ARE IN NEED OF WATER, TREEGATOR® BAGS CAN BE ADDED IMMEDIATELY TO ALLOW FOR SLOW APPLICATION OF WATER.

<u>TREE CALIPER</u>	<u>NUMBER GATOR BAGS ZIPPED TOGETHER PER TREE</u>
• LESS THAN 3"	1
• 3" - 5"	2
• 5" - 7"	3
• 7" - 10"	4

*If there is any discrepancy between these instructions and project specifications, please notify the owner, landscape architect and Select Trees in writing before work is started.

HANDLING, PLANTING, AND CARE **INSTRUCTIONS**

C. POST-PLANTING CARE CONTINUED

TREEGATOR® BAGS SHOULD NOT STAY ON THE TRUNK LONG ENOUGH TO SOFTEN TRUNK TISSUE OR TO PROVIDE A HAVEN FOR PESTS. TREEGATOR® BAGS SHOULD BE REMOVED APPROXIMATELY EVERY 8-10 DAYS FOR A PERIOD OF 2-3 DAYS. IF PRACTICAL, THE BEST TIMES TO REMOVE TREEGATOR® BAGS ARE DURING CLOUDY OR RAINY WEATHER. THIS WILL MINIMIZE RISK OF SUNSCALD DAMAGE. WHILE THE TREEGATOR® BAGS ARE OFF THE TREE, ALTERNATE METHODS OF APPLYING WATER SHOULD BE USED IF NEEDED.

PLEASE REFERENCE RECOMMENDATIONS FROM THE TREEGATOR® WEBSITE FOR INFORMATION ON PROPER USE OF TREEGATOR® BAGS.

2. PREVENTION OF COLD DAMAGE

IN GENERAL, COLD DAMAGE IS MOST LIKELY TO AFFECT TREES THAT ARE EITHER IN A POOR STATE OF HEALTH OR IN A VERY ACTIVE STATE OF GROWTH WHEN COLD WEATHER OCCURS AFTER WARM WEATHER AND CAN HAPPEN BOTH IN THE FALL AND THE SPRING. VERY LOW COLD TEMPERATURE DURING WINTER CAN ALSO CAUSE COLD DAMAGE. COLD DAMAGE CAN BE MINIMIZED BY AVOIDING ALL ACTIVITY THAT MIGHT CAUSE PROLONGED OR EXCESSIVE GROWTH AT THE END OF THE GROWING SEASON. THE FOLLOWING ARE EXAMPLES OF SUCH ACTIVITIES THAT SHOULD BE AVOIDED BETWEEN JULY 1 AND DORMANCY:

- PRUNING
- VERTICAL MULCHING
- FERTILIZATION
- SLOW RELEASE FERTILIZER AT ANY TIME THAT WILL HAVE THE RESIDUAL EFFECT OF PROMOTING TOO MUCH VIGOR AT END OF GROWING SEASON

3. STRAIGHTENING TREES

REFER TO SECTION B.13 IN HANDLING, PLANTING, AND CARE INSTRUCTIONS.

4. PRE-EMERGE HERBICIDE

DO NOT APPLY PRE-EMERGE HERBICIDES TO ANY AREAS THAT COULD AFFECT TREE ROOTS FOR AT LEAST THE FIRST 5 YEARS.

5. NUTRITION

MONITOR NUTRITION AND IMPLEMENT NUTRITION ACTIONS AS NEEDED BASED ON SOIL AND/OR TISSUE SAMPLES/ANALYSIS. CONSULT TESTING FACILITY FOR INSTRUCTIONS FOR TAKING SAMPLES.

6. PESTS

TREES SHOULD BE MONITORED FOR BORING INSECTS FOR AT LEAST THE FIRST TWO YEARS AFTER INSTALLATION. PREVENTIVE PESTICIDE APPLICATIONS FOR BORING INSECTS ARE RECOMMENDED DURING THE FIRST TWO YEARS.

7. REMOVAL OF STAKING

- 1. LOOSEN ALL STAKING SYSTEMS AS NEEDED TO PREVENT DAMAGE TO TRUNK, STEMS, AND BARK. COMPLETELY REMOVE ALL STAKING SYSTEMS WHEN ROOTS ARE ESTABLISHED TO THE POINT THAT STAKING IS NOT NEEDED.**

*If there is any discrepancy between these instructions and project specifications, please notify the owner, landscape architect and Select Trees in writing before work is started.

HANDLING, PLANTING, AND CARE

INSTRUCTIONS

C. POST-PLANTING CARE CONTINUED

8. PRUNING

PROACTIVE STRUCTURAL PRUNING IS RECOMMENDED. WE RECOMMEND ED GILMAN'S *ILLUSTRATED GUIDE TO PRUNING* AS A VALUABLE RESOURCE FOR PROPER PRUNING PRACTICES. BOOK LINK: <http://www.amazon.com/illustrated-guide-pruning-ed-gilman/dp/0766822710>

9. VERTICAL MULCH

VERTICAL MULCHING IS ALMOST ALWAYS BENEFICIAL TO TREES OF ALL AGES. VERTICAL MULCHING INCREASES WATER AND AIR INFILTRATION TO THE TREE ROOT ZONE.

VERTICAL MULCHING CAN BE ACCOMPLISHED BY USING AN AUGER WITH A 1 ½ - 2" BIT AND DRILLING HOLES ROUGHLY 16-18" APART IN A GRID PATTERN APPROXIMATELY 18" DEEP. ALWAYS LOCATE AND AVOID UNDERGROUND UTILITIES AND OTHER OBSTACLES BEFORE DIGGING. USE CAUTION TO AVOID REMAINING PORTIONS OF THE WIRE BASKET AND OTHER UNDERGROUND OBSTACLES.

DRILL THE HOLES OUT TO (OR BEYOND IF POSSIBLE) THE DRIP LINE OF THE TREE. START THE PROCESS A SAFE DISTANCE FROM THE TRUNK AND UNDERGROUND UTILITIES. KEEP THE BIT AWAY FROM ANY LARGE DIAMETER ROOTS. FILL THE HOLES WITH THE FOLLOWING MIXTURE:

- PEA GRAVEL (GRAVEL WILL NOT BREAK DOWN AND THUS WILL PROVIDE LONGER AERATION BENEFIT)
- FERTILIZER & LIME (IF NEEDED) BASED ON SOIL TISSUE ANALYSIS

TREES SHOULD BE WATERED THOROUGHLY IMMEDIATELY BEFORE AND AFTER VERTICAL MULCHING IS COMPLETED.

10. TREATING TRUNK DAMAGE

USE AN X-ACTO KNIFE TO REMOVE DEAD BARK FROM AROUND THE DAMAGED AREAS TO HELP WOUNDS CALLOUS MORE QUICKLY. WOUNDS ADD ADDITIONAL STRESS TO THE TREE AND CREATE POTENTIAL ENTRY SITES FOR SECONDARY PESTS SUCH AS BORERS. WE RECOMMEND SPRAYING DAMAGED TREES WITH PREVENTATIVE TREATMENTS COMBINED WITH A SYSTEMIC APPLICATION LABELED FOR BORER CONTROL.

*If there is any discrepancy between these instructions and project specifications, please notify the owner, landscape architect and Select Trees in writing before work is started.

