

TREE RELOCATION PLAN FOR PALM AIRE CLUBHOUSE PROJECT

This tree relocation plan consists of four parts; pre-construction, relocation preparation, relocation and monitoring, as specified below.

PRE-CONSTRUCTION

1. Crown reduction to be performed in two stages and removal of any dead limbs one inch and above shall be performed per ***ANSI A300 (Part 1) - 2017 Pruning*** guidelines and conducted by an **ISA Certified Arborist**. ***All work shall be performed by workers trained in accordance with ANSI Z133.1 safety regulations as required by OSHA.***
2. Installation of tree protection fencing shall be installed to the extent of the trees dripline and/or the Tree Protection Zone, whichever is greater. Signs of rigid durable construction (minimum size of 8.5 inches by 11 inches) shall be placed so as to be clearly visible at 15-foot intervals or closer (in no case fewer than four signs) encircling the perimeter of the Tree Protection Zone fence, to read as follows:
 - Tree Protection Zone
 - No excavation.
 - No storage of materials or construction building or trailers.
 - No parking.
 - No spillage or dumping of fuel or other chemicals or liquids.
 - No grade changes.
 - No equipment operation.
 - No entrance into the enclosure.
 - No temporary removal of enclosure.
 - Contact person responsible for the site for information at _____.

RELOCATION PREPARATION

1. All work shall comply with the ***ANSI A300 part 6-2012 (r2018) Planting and Transplanting*** Standards.
2. A temporary, above ground irrigation system shall be installed within the Tree Protection Zone to provide supplemental water 2 weeks in advance of any root pruning activity.
3. All underground utilities shall be marked and identified before any digging occurs.
4. Before root pruning begins, an **ISA Certified Arborist** will mark the proposed root ball size on the ground and notify the city.
5. The trees should be liquid fertilized with root enhancing products to stimulate root growth.
6. Root pruning should be performed at least 6 to 12 months prior to relocation.
7. Hand digging shall be performed with sharp, clean tools. The depth of the trench should be until no additional roots are found. Once verified, the roots will be cut with a sharp, clean saw. The soil will be backfilled and free of any rock and then thoroughly watered.
8. A berm shall be formed using clean fill around the edge of the formed root ball.
9. A 2-to-3-inch layer of quality organic mulch shall be applied over the entire pruned root ball. No mulch shall be within two inches of the trunk of the tree.

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10. Soil moisture shall be maintained throughout this procedure, by monitoring irrigation and verifying that soil moisture within root ball is adequate with a soil moisture meter.
11. An **ISA Certified Arborist** shall monitor the trees monthly and provide a written report after each site visit including a reassessment of the health condition.

RELOCATION

1. All work shall comply with the **ANSI A300 part 6-2012 (r2018) Planting and Transplanting** standards.
2. Verify that planting location is free of any obstruction or utilities and that adequate drainage exists.
3. Planting hole shall be double the width of the root ball and no deeper than the root ball.
4. Surveyor to provide grade stakes adjacent to planting hole for final grade height.
5. Prior to digging, root ball shall be thoroughly watered for two days to meet field capacity.
6. Hand digging only outside of formed root ball, without damaging any newly formed roots.
7. The tree shall be boxed or balled and burlapped with natural fiber materials. No non-biodegradable products are to be utilized.
8. The lifting of the tree shall be supervised by an **ISA Certified Arborist** and a qualified experienced crane operator or like. The city will be notified one week in advance of the scheduled relocation.
9. Appropriate lifting equipment, including slings, will be used and determined by a qualified experienced crane operator.
10. The tree trunk shall be protected with padding from cable chaffing; the trunk may be used for support but shall not be used to lift the tree.
11. The tree shall be lifted from beneath the root ball.
12. The area surrounding the root ball shall be backfilled with clean fill and watered in thoroughly to remove air pockets.
13. Adequate tree supports shall be installed.
14. Temporary berm shall be placed around the edge of the root ball to retain water over the roots.
15. Temporary automated overhead irrigation system shall be installed in canopy of tree.
16. Temporary automated irrigation system shall be installed over root ball.
17. No pruning of the tree shall occur except for dead, dying, diseased or broken limbs per **ANSI A300 (Part 1) - 2017 Pruning** guidelines and shall only be performed by an **ISA Certified Arborist**.
18. No fertilizers shall be applied.
19. Tree protection fencing shall be installed, signs of rigid durable construction (minimum size of 8.5 inches by 11 inches) shall be placed so as to be clearly visible at 15-foot intervals or closer (in no case fewer than four signs) encircling the perimeter of the Tree Protection Zone fence, to read as follows:
 - Tree Protection Zone
 - No excavation.
 - No storage of materials or construction building or trailers.
 - No parking.
 - No spillage or dumping of fuel or other chemicals or liquids.
 - No grade changes.
 - No equipment operation.

- No entrance into the enclosure.
 - No temporary removal of enclosure.
 - Contact person responsible for the site for information at _____.
20. Written approval is required from the city to remove, relocate or make any changes to the tree protection barriers once initially installed onsite.
21. No trenching for landscape lighting, irrigation or other utilities shall be permitted within the Tree Protection Zone.

MONITORING

Monitoring shall include weekly site visits for the first 30 days, then monthly thereafter or as needed to review and document for a minimum of 18 months:

1. The tree's health condition.
2. The temporary irrigation system is functioning adequately.
3. The tree protection fencing is in place and no encroachments within the Tree Protection Zone have occurred.
4. Dialogue with the site superintendent and operators at the project site, to ensure that everyone working at the property understands the importance of the tree and need for their cooperation in the success of the preservation.

Please see specific recommendations below;

Tree Number 42



View looking north at a Pigeon Plum, *Coccoloba diversifolia*. Our inspection found that this tree has good health and structure being suitable for a relocation effort. The tree is 25 feet tall with an average canopy spread of 20 feet. The diameter of the trunk was measured at three feet above ground level immediately beneath the branching. The diameter was 10 inches. The trees health condition rating was 70% at the time of our inspection. The root ball radius should be 50 inches. No crown pruning is necessary during the preparation period of this tree.

Tree Number 84



View looking west at a Live Oak, *Quercus virginiana*. Our inspection found that this tree has good health and vitality being suitable for a relocation effort. The tree is 35 feet tall with an average canopy spread of 40 feet. The diameter of the trunk was measured at 54 inches above ground level (dbh). The diameter was 20 inches. The tree's health condition rating was 65% at the time of our inspection. The tree has three codominant trunks that formed 66 inches above the ground level and minor stem girdling roots were observed. The tree has been growing within an above ground planter confining the root system. The root ball radius should be 80 inches. No crown pruning is necessary during the preparation period of this tree. It is recommended that the planter walls be removed, and the root ball be shaved or reduced in size with either a pneumatic air tool or by washing the root ball with water to achieve the final radius. This would preserve the maximum number of roots. Inspections by the Consulting Arborist shall occur during this process to provide timely feedback.

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Tree Number 158



View looking southeast at Live Oak, *Quercus virginiana*. Our inspection found that this tree has good health and structure being suitable for a relocation effort. The tree is 45 feet tall with an average canopy spread of 30 feet. The trees' canopy on the south side is suppressed by the adjacent tree. The diameter of the trunk was measured at dbh. The diameter was 20 inches. The trees health condition rating was 65% at the time of our inspection. The tree has bark inclusions, dieback and minor surface root damage. The west side of the root system has been impeded by an existing curb and asphalt cart path and the south side of the tree has an existing sidewalk. The root ball radius should be 80 inches. This will require the removal of the curbing, asphalt cart path and sidewalk by hand. The materials may be broken with pneumatic jackhammers or the like, however no mechanized equipment shall be utilized within nine feet of the tree's trunk. No crown pruning is necessary during the preparation period of this tree.

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Tree Number 158



View looking north at curbing, cart path and sidewalk. Inspection by the Consulting Arborist after removal of this infrastructure is recommended to review root system and assess continued viability of a relocation effort.

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Tree Number 159



View looking southeast at Live Oak, *Quercus virginiana*. Our inspection found that this tree has good health and structure being suitable for a relocation effort. The tree is 45 feet tall with an average canopy spread of 40 feet. The diameter of the trunk was measured at dbh. The diameter was 24 inches. The trees health condition rating was 70% at the time of our inspection. The tree has minor dieback of twigs and small limbs. The north side of the root system has been impeded by an existing sidewalk, see photo below. The root ball radius should be 96 inches. No crown pruning is necessary during the preparation period of this tree.

Tree Number 159



Looking north at Live Oak, the curbing on the west side of the tree should be far enough away to perform root pruning immediately inside of the back of the curbing. It is recommended to utilize a pneumatic air tool to excavate the soil and then utilize clean, sharp hand tools that can include a hand saw and loppers for pruning the exposed roots.

Tree Number 159



Looking west at the existing sidewalk. The removal of the sidewalk shall be by hand. The materials may be broken with pneumatic jackhammers or the like, however no mechanized equipment shall be utilized to remove the debris from beneath the tree.

Tree Number 170 (Tagged 171)

Looking north at Live Oak. Our inspection found that this tree has good health and structure being suitable for a relocation effort. The tree is 30 feet tall with an average canopy spread of 25 feet. The diameter of the trunk was measured at dbh. The diameter was 18 inches. The trees health condition rating was 65% at the time of our inspection. The tree has surface root damage and is confined on all sides by cart path. The root ball radius should be 72 inches or immediately within the confines of the cart path. The use of a pneumatic air tool is recommended to remove the soil along the edge of the cart path to expose the roots for pruning. Inspection by the Consulting Arborist is recommended at this time to verify the roots before pruning. No crown pruning is necessary during the preparation period of this tree.

Tree Number 265



View looking west at Live Oak, *Quercus virginiana*. Our inspection found that this tree has good health and structure being suitable for a relocation effort. The tree is 30 feet tall with an average canopy spread of 30 feet. The diameter of the trunk was measured at dbh. The diameter was 20 inches. The trees health condition rating was 65% at the time of our inspection. The tree has minor dieback of twigs and small limbs. A small portion of the east side of the root system has been impeded by an existing asphalt cart path. The root ball radius should be 80 inches. Crown reduction on the east side of the tree reducing two to three-inch diameter limbs six to eight feet in length from the ends of the branches This will improve canopy balance. Maximum eight pruning cuts are needed.

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Tree Number 267



View looking northwest at Live Oak, *Quercus virginiana*. Our inspection found that this tree has good health and structure being suitable for a relocation effort. The tree is 40 feet tall with an average canopy spread of 35 feet. The diameter of the trunk was measured three feet above ground level, immediately beneath the branching. The diameter was 23 inches. The tree's health condition rating was 60% at the time of our inspection. The tree has dieback of twigs and small limbs with minor trunk damage. The canopy is suppressed on the east and south sides. A small portion of the east and west sides of the root system has been impeded by existing asphalt. The root ball radius should be 92 inches. The use of a pneumatic air tool is recommended to remove the soil along the edge of the asphalt to expose the roots for pruning. Inspection by the Consulting Arborist is recommended at this time to verify the roots before pruning. No crown pruning is necessary during the preparation period of this tree.

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Tree Number 3011



Looking northeast at Gumbo Limbo, *Bursera simaruba*. Our inspection found that this tree has good health and structure being suitable for a relocation effort. The tree is 30 feet tall with an average canopy spread of 25 feet. The diameter of the trunk was measured at dbh. The diameter was 12 inches. The tree's health condition rating was 60% at the time of our inspection. The root ball radius should be 60 inches. No crown pruning is necessary during the preparation period of this tree.

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ASCA Registered Consulting Arborist #646
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ISA Tree Risk Assessment Qualified
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