	<ul> <li>trees and Palms included within this project. Information required to be maintained shall include, but is not limited to:</li> <li>1. Tree or Palm tag number, variety and size</li> <li>2. Task performed and date</li> <li>3. Date and method of harvesting and rootball size</li> <li>4. Location in nursery</li> <li>5. Maintenance performed and date</li> </ul>
	<ol> <li>Proposed method for storing the trees and Palms based on the type of rootball/method of harvesting.</li> <li>C. The Tree Salvage Contractor shall be required to maintain a database on all</li> </ol>
shall be " horizontal	<ol> <li>Program for maintenance and protection of the trees and Palms including pruning, weed control, watering, fertilization, guying (wind protection), insect and disease control, protection fencing etcetera.</li> <li>Amount of area required for the nursery and any other facilities or infrastructure supplied by the contractor or required of the Owner.</li> </ol>
5. the true boots fre in order 3. The true	<ol> <li>Layout of nursery; trees should be grouped by variety and size and allow access to each group. Palms should be grouped by variety and height and allow access to each group.</li> <li>Layout of automatic irrigation system. The Owner will provide a point of connection for water and electric power</li> </ol>
1. The trur and skin	B. The Tree Salvage Contractor shall prepare and submit for review and approval their plan and program for the holding nursery. Program elements shall include but not be limited to:
B. PALM TRUNKS	<ol> <li>Materials and Equipment proposed for use in narvesting trees and Palms.</li> <li>Size of root-ball based on variety and size of tree and Palm.</li> <li>Special requirements for harvesting trees and Palms at various seasons of the year.</li> </ol>
of work. loppers, solution Immerse	<ol> <li>Method(s) of harvesting trees and Palms based on the variety and sizes of the trees and Palms.</li> <li>Preparation of trees and Palms required before harvesting: pruning, root pruning, hydration and chemical treatments.</li> </ol>
Fronds f approve palm fro shall be tight enc	A. The Tree Salvage Contractor shall prepare and submit for review and approval their program for the Tree Salvage Operation. Program elements shall include but not be limited to:
should t ground ( the curre Remova	structural defects, or possible problems with pests or disease). Pre-existing conditions will not relieve the contractor from the warranty. 1.05 SUBMITTALS
2. When hi palms fr With the of palm	3. The Tree Salvage Contractor shall review the condition of each tree and Palm to be relocated prior to preparing the tree or Palm for removal. The contractor shall notify the Owner and Landscape Architect if in their opinion any tree or Palm is not acceptable for relocation due to any reason. (Such as, a recent decline in health,
surraces with wat <b>WILL B</b> I palm.	2. If the contractor finds any site condition at variance with the plans of specifications, he shall notify the Landscape Architect and Owner and obtain clarification.
enougn work. P 50% wa	to familiarize himself with the existing conditions, including but not limited to soil, drainage, topography, existing structures, towers, poles, overhead and underground utilities and services.
should h fronds s be tied h	SITE age Contractor shall be required to visit
from the With the	B. Landscape work shall not begin until all construction adjacent to the planting areas has been completed unless otherwise directed by Owner or General Contractor (General Contractor will provide a detailed schedule to successful bidder)
A. Pruning Procedu 1. When ha	2. Cause minimum interference with workmen, materials, or other equipment of other trades on the project.
3.03 FREFARATION OF F Prior to harvesting utilizing the followi	<ol> <li>Protect the Owner's property from injury or loss. Any damage to existing property (buildings, utilities, etc.) or planting (trees, shrubs, lawn or ground cover) caused by the Tree Salvage Contractor during his operation shall be repaired at the Contractor's expense.</li> </ol>
E. Trees in the s Contractor as	A. Protection:
D. Any trees tha or storage sh AND REPLA	the trees and Palms in the holding nursery. The arborist shall be responsible to maintain the database as specified in 1.05, C, below.
C. Tree branchir storage. Insta	tor shall employ a certified arborist whon of the trees and Palms prior to ha
B. Trees harves For any salva tree shall be i	D. The Owner has provided a list of the existing trees and Palms included within this scope of work. It shall be the Tree Salvage Contractor's responsibility to notify the Owner of any discrepancies between the lists and known conditions in the field.
A. Employ meth handled, tran: structurally sc	or shall provide a list of completed pu the current conditions of the trees or
3.02 IRANSPORTING AND The following guide storage operation:	is clients where work similar in size and scope to this pro ned. The Contractor shall provide photographs of various s similar to this.
rootball prior	and scope. B. The Tree Salvage Contractor shall provide references from at least two (2)
F. Rootballs sha Rootballs 10 t	A. The Tree Salvage Contractor shall have a minimum of five- (5) years experience in transplanting trees successfully. Experience shall include salvaging trees similar in size to those on this project and experience with projects of similar size
E. Chemical Tre they have be be treated pri	
structural dar shall be reme correcting any	<ul> <li>A. Landscape Planting, Refer to Section 02905.</li> <li>B. Drawings and general provisions of Contract, including General and Supplementary Conditions and requirements of Division 1 specifications</li> </ul>
to a minimum D. Inspection of arborist prior	1.02 RELATED WORK IN OTHER SECTIONS Examine all sections for work related to work of this Section.
a minimum du C. Pre-Watering	e work according to the General Control
B. Root Pruning according to , Rootballs sha with a trenche	<ol> <li>The Tree Salvage Contractor shall coordinate with the General Contractor, and other sub-contractors as required to properly complete their work.</li> <li>J. Preparation and submittal of schedules for all phases of work in order to</li> </ol>
of tree to con required to all	amendments thereto, and all other satisfactory completion of the work as determined by the Owner including clean up of the site.
utilizing the followi A. Pruning - Rer	<ul> <li>G. Protection, maintenance and guarantee as specified.</li> <li>H. All work of every description mentioned in the specifications and/or</li> </ul>
3.01 PREPARATION OF TH	<ul> <li>Preparation of program for all phases of salvage operation.</li> <li>F. Temporary staking or guying of trees and Palms.</li> </ul>
PART 3 - EXECUTION	D. Set-up and maintenance of holding nursery.
B. Tree fertilizer <u>www.drbensc</u> approved equ	<ul> <li>C. Removal and disposal of existing trees and Palms called out to be demolished.</li> </ul>
equivalent).	A. Protection of existing trees and Palms called out to remain in place.
2.02 MISC. MATERIALS A. Palm Fertilize	required to complete all the tree and Palm salvage and preservation work as indicated on the drawings and as specified herein. Work includes, but is not limited to, the following:
It is the intent of th the drawings shall requirements spec	1.01 WORK COVERED The work under this Section shall include all labor. materials. and equipment
2.01 GENERAL	PART 1 - GENERAL

NERAL the intent of this specification that all materials herein specified and shown on drawings shall be of the highest quality available and meeting the Jirements specified.	lirements for Texas Palme balls: num Rootball size 15' Brown Trunk	
	16' - 20' Brown Trunk 3' cubed	
MATERIALS Palm Fertilizer shall be "Mycor Palm Saver" available from <u>www.Planthealthcare.com <http: www.planthealthcare.com=""></http:></u> (or approved equivalent).	irements for Date Palm Rc num Rootball size Brown Trunk 4' x 4	
Tree fertilizer shall be Dr. Benson's natural mix available from <a href="http://www.drbensonsnaturalmix.com">www.drbensonsnaturalmix.com</a> (or approved equivalent).	runk 4 ½ × 4 ½ runk 5 × 5 × 5 °c runk 6 × 6 × 5 % runk 6 × 6 × 5 °c	
XECUTION RATION OF TREES	<ol> <li>Requirements for Canary Island Date Palm Rootballs: Minimum Rootball size</li> <li>15' - 20' B.T.H.</li> <li>21' - 25' B.T.H.</li> <li>30' B.T.H.</li> <li>5' X 5' X 5' Deep</li> <li>30' B.T.H.</li> <li>5' X 5' X 5' Deep</li> </ol>	
in to harvesting trees from their existing location they shall be prepared zing the following treatments and or procedures.	H. H. A X X X X X H. B' X 8' X 5' Ments for Coconut Palm Roc	
emove any dead or da ompensate for reductio allow access to rootba	Minimum Rotball size 15' - 20' Brown Trunk 3-1/2' cubed 21' - 25' Brown Trunk 4' cubed 26' - 30' Brown Trunk 4-1/2' cubed	3.10
Root Pruning - Determine size of rootball required based on DBH of tree according to ANSI American Standard for nursery stock Z.60.1-1996. Rootballs shall be dug by hand excavation using a sharp spade. Trenching with a trencher or backhoe is not acceptable. Root pruning shall be done to	35 Brown Trunk + Brown Trunk Jirements for all othe age contractor. Prop	
Pre-Watering - Prior to any excavation, all trees shall be thoroughly watered to a minimum depth of 30" and beyond the area of the rootball.	Architect. Jitions permit, the rootball shall be dug to a depth w	
of Trees - All tre ior to excavating damage shall be medied prior to e any structural pr	arp spade or by	
Chemical Treatment - All trees shall be inoculated with mycorrhizae after they have been harvested. Any trees found to have pests or disease shall be treated prior to excavating rootball. Pine trees shall be treated with a preventative borer insecticide.	is not acceptable. Whenever possible and especially in hardpan areas, trees shall be dug to where their roots end. Dead and or roots hanging from the root ball shall be "shaved off" by use of a sharpened shovel. Any tools used in the harvesting process, including trenchers, shall be sterilized between each palm tree via immersion in a solution of 50% water and 50% bleach.	
10 ft. and larger shall hav rior to being lifted from the	<ol> <li>No trees shall be removed from any given field location without following the prescribed root ball size or by any other means of excavation not outlined in this section and must be certified by the plant pathologist before removing/pruning any fronds.</li> </ol>	
Following guidelines apply to transporting trees during the salvage and age operation: Employ methods that assure that the rootballs are protected while being	<ol> <li>While excavating root balls, all consideration shall be given in keeping the root mass intact and in a relatively moist condition. All trees shall be thoroughly watered prior to harvest. Burlapping of the root mass is required during transport or on any palm procured from a sandy soil condition.</li> </ol>	
Structurally sound. Trees harvested utilizing wood boxes shall be rigged primarily by the box. For any salvaged tree, any support rigging that comes in contact with the tree shall be pylon strap, no cable or chains shall be used	s shall I nt loade	
, 거 <i>당 때</i>	or braided steel chokers shall be considered in the loading or in the unloading of palm trees. All rigging shall consist of the highest quality nylon or fabric rigging material minimum 5" wide. The use of softeners, shackles, clevaces, etc. to prevent damage to stern, ball or rigging is recommended. Palms shall be picked horizontally, rigged at two points, and handled in such a manner as to avoid dynamic (shock)	3.11
Trees in the storage area shall be guyed and or braced by the Tree Salvage Contractor as required to maintain trees upright.	to facilitate loading, unloading, and setting. This consideration shall vary based on any given site situation and is solely the liability and responsibility of the Supplier and his subcontractors.	
RATION OF PALM TREES r to harvesting Palms from their existing location they shall be prepared zing the following treatments and or procedures.	<ol> <li>Before off-loading and planting palms, affix flagging tape to the newest emerging leaf (spear leaf) in order to better track the growth of the palm after it is planted.</li> <li>F. "Healed in" palms</li> </ol>	* E
runing Procedure: 1. When harvesting Mexican Fan, Texas Palmetto and other fan palms from their existing location, prune the fronds as follows:	<ol> <li>Harvested palms shall be "healed-in" at the holding nursery within 24 hours of being harvested. Backfill around Palm Rootball with 100% washed concrete sand. Install Palms in a perpendicular position and</li> </ol>	
With the use of hand loppers and hand pruning saws, 30% (maximum) of palm fronds shall be removed during the excavation period. No tree should have any frond cut higher than parallel to the ground. All palm fronds shall be tied in an upright position with 2-ply twine. Twine shall	a minimum or 15 on center. n Palms shall be guyed and or br or as required to maintain Palms	
be tied norizontally across paim fronds. Twine is to be applied tight enough to remain tied during all transporting and planting phases of work. Pruning tools (including, but not limited to, chainsaws, loppers, pruning saws, shovels, gloves) shall be sterilized with a solution of 50% water and 50% bleach between each palm. Immerse cutting surfaces in the Clorox solution and agitate after immersion, rinse tool	<ul> <li>3.04 POST TRANSPLANT MAINTENANCE</li> <li>A. Trees and Palms shall be pruned to remove any dead or damaged branches and foliage. Prune trees, as directed by the Landscape Architect, to enhance aesthetic character of the tree.</li> </ul>	
with water thoroughly. <b>NO PALMS WITH CLIPPED FROND TIPS WILL BE ACCEPTED</b> . Remove any fruit/flower stems existing on the palm.	ect trees and Palms (Rootballs r trades.	
<ol> <li>When harvesting Coconut, Canary Island, Date and other feather palms from their existing location, prune the fronds as follows: With the use of hand loppers and hand pruning saws, 30% (maximum) of palm fronds shall be removed during the excavation period. No tree should have any frond cut higher than 30 degrees above parallel to the</li> </ol>	C. Maintain the trees and Palms throughout the course of the work until final acceptance by The Owner. Maintenance shall include but not limited to watering, weed control, fertilizing / feeding, insect and disease control, mulching, protection and guying.	
ground ("10:00\2:00"). A minimum of three (3) rows of fronds below the current inflorescence (fruit/flower) position shall remain on the tree. Removal of random fronds to facilitate crown tying is unacceptable. Fronds from Phoenix genus palms shall be removed after palms are	D. Contractor shall water trees in such a way as to insure that tree rootball is moist and monitor water in planting pit; care being taken that tree is not getting over watered.	
approved and certified to be free of disease by the pathologist. All palm fronds shall be tied in an upright position with 2-ply twine. Twine shall be tied horizontally across palm fronds. Twine is to be applied tight enough to remain tied during all transporting and planting phases	E. Install automatic drip irrigation to each tree and Palm. 3.05 TREES TO BE PRESERVED AND PROTECTED IN PLACE	
of work. Pruning tools (including, but not limited to, chainsaws, loppers, pruning saws, shovels, gloves) shall be sterilized with a solution of 50% water and 50% Clorox bleach between each palm. Immerse cutting surfaces in the Clorox solution and agitate after immersion, rinse tool with water thoroughly. <b>No PALMS WITH clipped</b>	designated to remain in place shall have the follow Install and maintain protective fencing (4' high O safety fence) around the tree at approximately a	
ALM TRUNKS:	and maintain trees during the course of demo	
nove re	D. Irrigate trees during the course of demolition and construction. The	
e bases that are remaining at the top 4' of trunk shall er that they are uniform in length and appearance. runks of Canary Island Date Palms shall be cleaned-	E. Remove protective fencing at the end of construction.	
remnant petiole boots, from the trunk up to the "pineapple". The heads shall be "pineappled" and no fronds shall be removed above a horizontal line.	3.06 DEMOLISH EXISTING TREES AND PALMS A. Trees and Palms designated to be demolished shall be removed including the rootball system.	
	<ul> <li>B. All debris generated from tree removal shall be removed from the property and disposed of legally.</li> <li>D. The contractor shall back-fill the tree pit with site soil and lightly compact it in</li> </ul>	

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MI reviews here in specified shell be made by the Owner or the Landsage Acceleration Section Section

## Drawing name: I:\10046\CADD\DESIGN DEVELOPMENT\L2.00.dwg | Layout Name: Layout1 Plotted by: marianne Plotted on: Sep 01, 2010 - 12:52pm

<b>L</b> <b>L</b> <b>NO</b> : SHEET NO.:	DATE: 9/03/2010 SCALE: N.T.S. DRAWN BY: MM CHECKED BY: DA JOB NO.: 10046	A LIC	SHEET TITLE: LANDSCAPE PLANT SPECIFICATIONS	Image: Structure       No.       DATE         Image: Structure       Image: Structure       Image: Structure         Image: Structure       Image: Structure       Image: Structure       Image: Structure         Image: Structure       Image: Structure       Image: Structure       Image: Structure       Image: Structure         Image: Structure       Image: Structure       Image: Structure       Image: Structure       Image: Structure       Image: Structure         Image: S	ISSUED FOR: TAC REVIEW DATE: 9/03/2010	300 JOHNSON STREET HOLLYWOOD BEACH, FLORIDA	OWNER: MARGARITAVILLE HOLLYWO BEACH RESORT, LLC. 3501 N. OCEAN DRIVE HOLLYWOOD, FLORIDA 3301	<ul> <li>PROJECT DESIGN TEAM: ARCHITECTS</li> <li>ADACHE GROUP ARCHTECTS 50 SOUTH FEDERAL HIGHWAY FT. LAUDERDALE, FLORIDA 33301 PH.(954) 528-8133 FAX. (964) 728-8159 E-MAIL: info@adache.com</li> <li><b>CREATIVE DESIGNER</b> PAT MCBRIDE CO. 11 BAKER FARM RD. MARCHESTER CIENTER, VT. 05255 PH.(305) 670-2370 FAX. (305) 362-0700 E-MAIL: pat@macbridedesign.com.com</li> <li><b>M.E.P. ENGINEERS</b> 9200 S. DADELAND BLVD MIAMI, FLORIDA 33156 PH.(305) 670-0820 FAX. (305) 670-0830 E-MAIL: bui@bwrengineers.com</li> <li><b>STRUCTURAL ENGINEERING</b> 3590 NW 56 STREET FORT LAUDERDALE, FLORIDA 33309 (954) 484-7777 FAX. (954) 484-7834</li> <li><b>CIVIL ENGINEER</b> CONSULTING ENGINEERING &amp; SCIENCE, INC. 10700 KENDALL DRIVE, SUITE 400 MIAMI, FLORIDA 33176 (305) 378-5555 FAX. (305) 279-4553</li> </ul>	in the second se
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