

IRRIGATION SCHEDULE			
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	Hunter PROS-04 short radius nozzles	17	30
	Hunter PROS-04 5' strip spray	8	30
	Hunter PROS-04 8' radius	28	30
	Hunter PROS-04 adjustable arc	4	30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	Hunter ICV-G 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	3	
	Febco 765 1/2" Pressure Vacuum Breaker, brass with ball valve SOV. Install 12" (305MM) above highest downstream outlet and the highest point in the downstream piping.	1	
	Hunter XC-200 2 Station Controller, Residential Use. Plastic Cabinet, Outdoor, with 3 Independent Programs. 120 VAC.	1	
	Hunter MINI-CLIK Rain Sensor, mount as noted	1	
	Irrigation Lateral Line: PVC Class 200	403.2 l.f.	
	Irrigation Mainline: PVC Schedule 40	201.2 l.f.	
	Pipe Sleeve: PVC Class 200 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	86.8 l.f.	
	PIPE SLEEVES SIZES COM.WIRE SLEEVES 2"/2" SLEEVES		

VALVE SCHEDULE								
NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PRECIP		
1	Hunter ICV-G	1"	Turf Spray	13.54	38.05	1.08 in/h		
2	Hunter ICV-G	1"	Turf Spray	6.50	34.38	1.47 in/h		
3	Hunter ICV-G	1"	Turf Spray	3.04	32.32	8.91 in/h		

IRRIGATION NOTES AND DETAILS ON IRR-2

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Certificates of Authorization: EB7318, LB6680, LC0337

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DELRAY BEACH  
CRA  
DEVELOPMENT

95 SW 5TH AVE.,  
DELRAY BEACH, FL  
33483

Key Plan :

Date : 08/07/20  
S+A Project No : 18063  
ML Project No: 19-00014  
Drawn By : R.N.G  
Checked By : B.S

Phase :  
100% CONSTRUCTION DOCUMENTS

Sheet Title :  
IRRIGATION PLAN

Sheet # :  
IRR.1





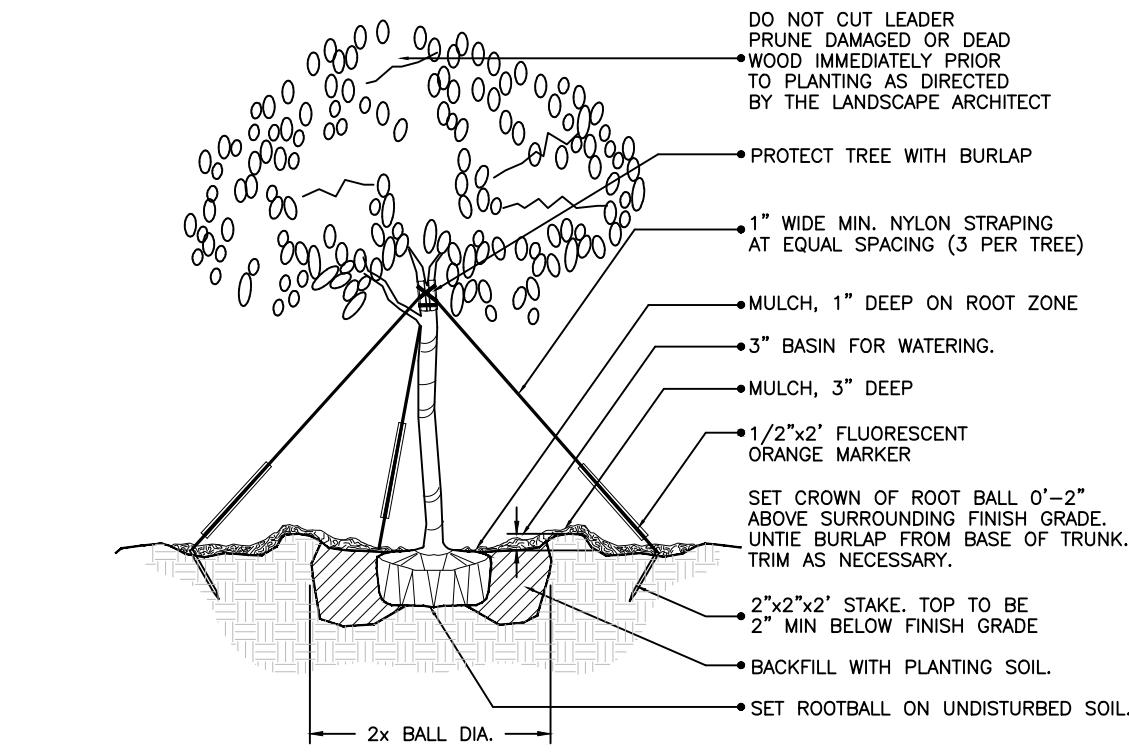




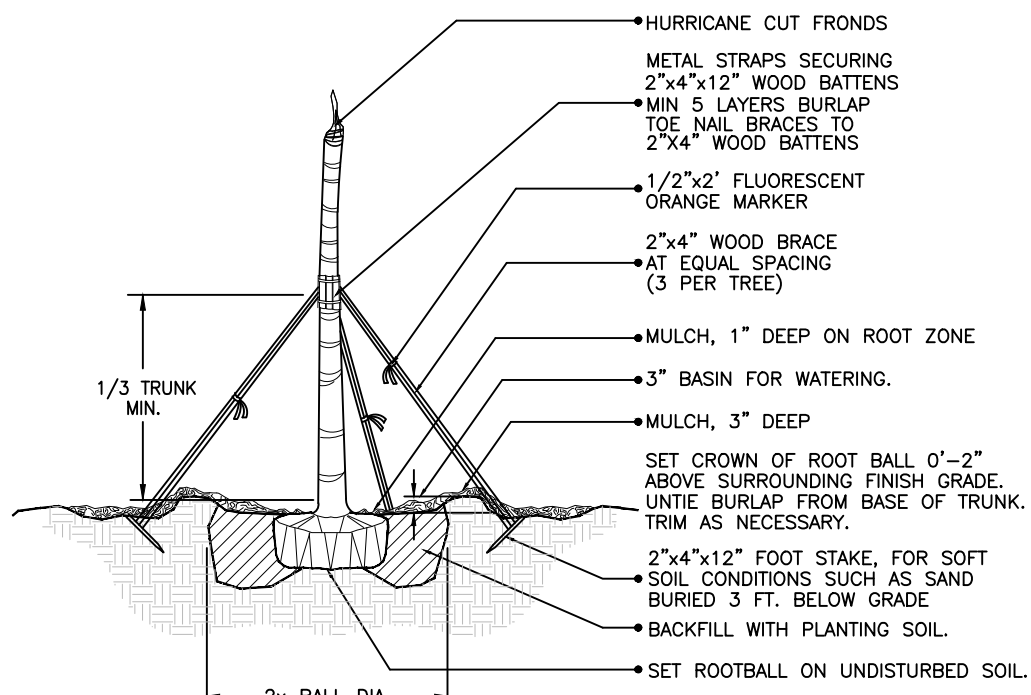


GENERAL NOTES:

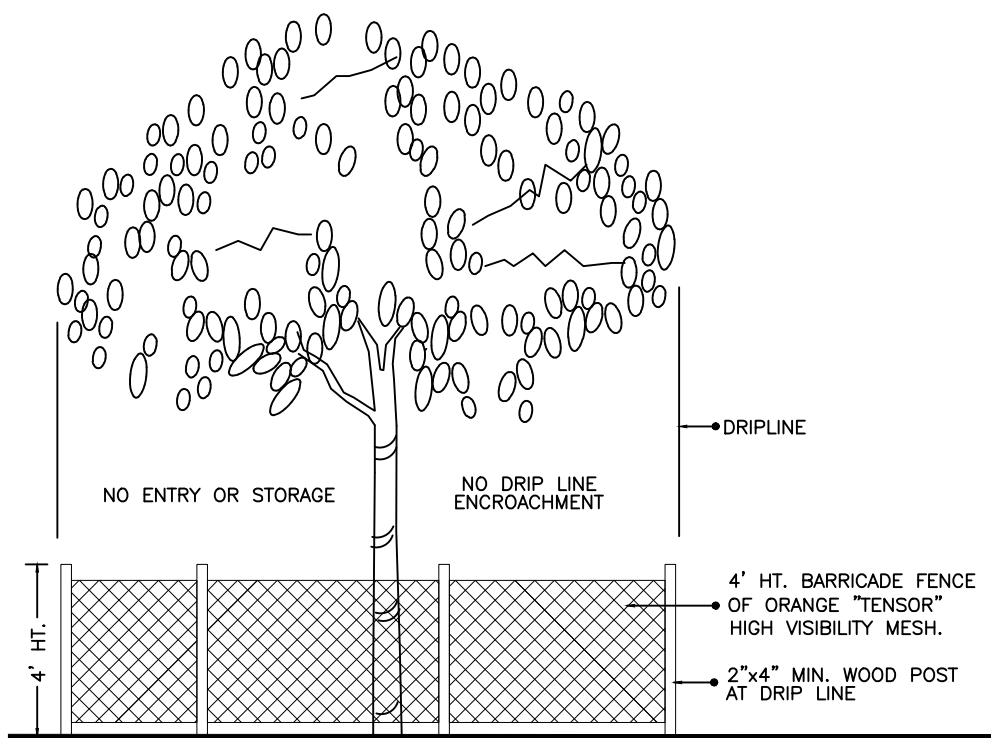
- Any trees or shrubs placed within water, sewer or drainage easements shall conform to the City of Delray Beach Standard Details; LD 1.1 & LD 1.2
  - PLANT MATERIAL: All plant material shall be Florida #1 or better as established by "Grades and Standards for Nursery Plants" of the state of Florida, Department of Agriculture.
  - All trees, shrubs and groundcovers shall be of the sizes as specified in the Plant List.
  - Quantities listed on the the Plant List are for estimating purposes. Contractor shall verify all quantities. Mulch, topsoil, fertilizer, etc. shall be included in the unit cost of the plants.
  - Where there is a discrepancy either in quantities, plant names, sizes or specifications between the plan or plant list, the plan takes precedence.
  - All planting beds and water basins for trees shall be covered with a 3" minimum depth of shredded eucalyptus or flormulch grade 'B' or better.
  - The Planting Plan shall be installed in compliance with all existing codes and applicable deed restrictions.
  - SOD: All areas not used for buildings, vehicular use areas, walks or planting beds shall be grassed. Grassing shall extend to any abutting street pavement edge and to the mean waterline of any abutting canal, lake or waterway.
  - PLANTING SOIL: All trees and shrubs shall be planted with a minimum of 12" topsoil around and beneath the rootball. Minimum topsoil shall be 6" for groundcover areas and 2" for sodded grass areas.
  - Planting soil to be a weed-free mixture of 50% sand, 40% muck, and 10% Canadian peat. All plant material to receive planting soil as per details.
  - Contractor is responsible for determining all utility locations and installing facilities so as to not conflict. All damage to existing utilities or improvements caused by Contractor shall be repaired at no additional cost to the Owner.
  - Contractor to notify "Sunshine State One Call of Florida, Inc." at 1-800-432-4770 Two Full Business Days prior to digging for underground utility locations.
  - Contractor shall be responsible for providing final grading of all associated planting areas.
  - After final grade, area to be raked to 6" depth and all rock and foreign inorganic materials removed and disposed of properly off-site.
  - All planting holes to be hand dug except where machine dug holes will not adversely affect or damage utilities or improvements (see note 8).
  - No plunging of any tree or palm will be accepted. All plants to be planted at the nursery grade or slightly higher.
  - Contractor shall stake & guy all trees and palms at time of planting as per the appropriate detail. Contractor is responsible for the maintenance and/or repair of all staking and guying during warranty period and removal & disposal of staking after establishment period.
  - Fertilizer for grass areas shall be NPK 16-4-8 @ 12.5 lbs/1000 s.f. or 545 lbs/acre. Nitrogen 50% slow release form & fertilizer to include secondary micronutrients.
  - SUBSTITUTIONS AND CHANGES: All substitutions and changes shall be approved in writing prior to installation. Any discrepancies between plans, site and specifications shall be brought to the immediate attention of the Landscape Architect, the owner and governing municipality.
  - WATERING: All plant material shall be watered in at time of planting in accordance with standard nursery practices. In addition, Contractor will continue watering of plant material until substantial completion and as needed thereafter for a period of 2 months.
  - All new plant material shall be guaranteed for 1 year from time of final acceptance of project. Any plant material not in a healthy growing condition will be replaced by the Contractor at no additional cost to the Owner within 10 days of notification. For all replacement plant material, the warranty period shall be extended an additional 45 days beyond the original warranty period. All trees that lean or are blown over, caused by winds less than 75 mph, will be re-set and braced by the Contractor at no additional cost to the Owner.
  - The successful bidder shall furnish to the Owner a unit price breakdown for all materials. The Owner may, at its discretion, add or delete from the materials utilizing the unit price breakdown submitted.
  - No plant material will be accepted showing evidence of cable, chain marks, equipment scars, or otherwise damaged.
  - Plant material will not be accepted when the ball of earth surrounding its roots has been cracked, broken or otherwise damaged.
  - Root-prune all trees a minimum of (8) weeks prior to planting.
  - All plant material planted within the sight distance triangle areas (see plan) shall provide unobstructed cross-visibility at a horizontal level between 30 inches and 8 feet above adjacent street grade.
  - No canopy trees shall be planted within 12 feet of a light pole. No palm species shall be planted within 6 feet of a light pole.
  - Tree protection barricades shall be provided by Landscape Contractor around existing trees that may be impacted by the proposed construction. Prior to any construction a tree protection barricade inspection shall be conducted by the landscape architect, owner or governing municipality. Refer to landscape detail for tree preservation barricade fencing.
  - In all pedestrian areas, all trees and palms shall be maintained to allow for clear passage at an 8 foot clear trunk.
  - All landscape material shall be setback a minimum of 10' from any Fire Hydrant.
  - Contractor shall preserve all the existing trees near to the site of construction
  - Existing native soil within all landscape islands, interior landscape strips and perimeter landscape strips, adjacent to vehicular use areas, shall be excavated down to a depth of thirty (30) inches below existing grade, except for a 12" buffer from the inside of curb or pavement. A suitable planting mixture of fifty/fifty (50/50), sixty/forty (60/40) (sand/topsoil) or as otherwise indicated by a Registered Landscape Architect, shall either be backfilled in place of native soil or efficiently mixed with the native soil to create optimum environment for successful root development. If native soil is to be mixed, it shall first be screened to remove rocks and debris larger than one-half (1/2) inch in diameter prior to mixing. All properties under this section shall be required to have an open bed inspection prior to backfilling to insure the thirty (30) inch depth has been met."
- Root Prune notes:
- Root pruning shall be done whenever there will be grading, cutting or compaction disturbance underneath the drip line of a tree. Prior to any work within drip line, contractors should contact Landscape Architect to coordinate work. Root pruning shall be done prior to disturbance of the site. No disturbance shall be done within a distance of 3x the diameter of the tree, due to stability concerns.
  - Before disturbance, meet with Landscape Architect on site to confirm location of root pruning. Root pruning shall be conducted at an agreed upon location. This location will be marked on the ground between the disturbance and the tree, typically 6" closer to the tree than edge the disturbance.
  - All roots 3/4"-1.5" diameters must be pruned. If 2.5" or larger roots are encountered, stop pruning in that area and contact Landscape Architect. Root pruning shall only be as deep as necessary to ensure the cutting of all roots which would be impacted by the disturbance.
  - Root pruning shall be done with a sharp tool, in such a way that does not pull on the roots, but leaves smooth cuts. It is preferable to expose the roots prior to root pruning. After pruning, fill the area with quality topsoil and water until thoroughly soaked.
  - Once exposed, roots must be covered within 8 hours. If roots will be left exposed for longer than 8 hours, they must be kept moist. One option is to put moist burlap over the exposed roots. Hydrate root prune trench to maintain moisture as necessary until relocation of plant material.
  - Root pruning shall be done by or under the supervision of an ISA Certified Arborist, and meet or exceed ANSI A300 or approved Tree Care Industry Standards. A certified arborist must be onsite during the entirety of root pruning.
  - All root pruning shall be done per ANSI A300



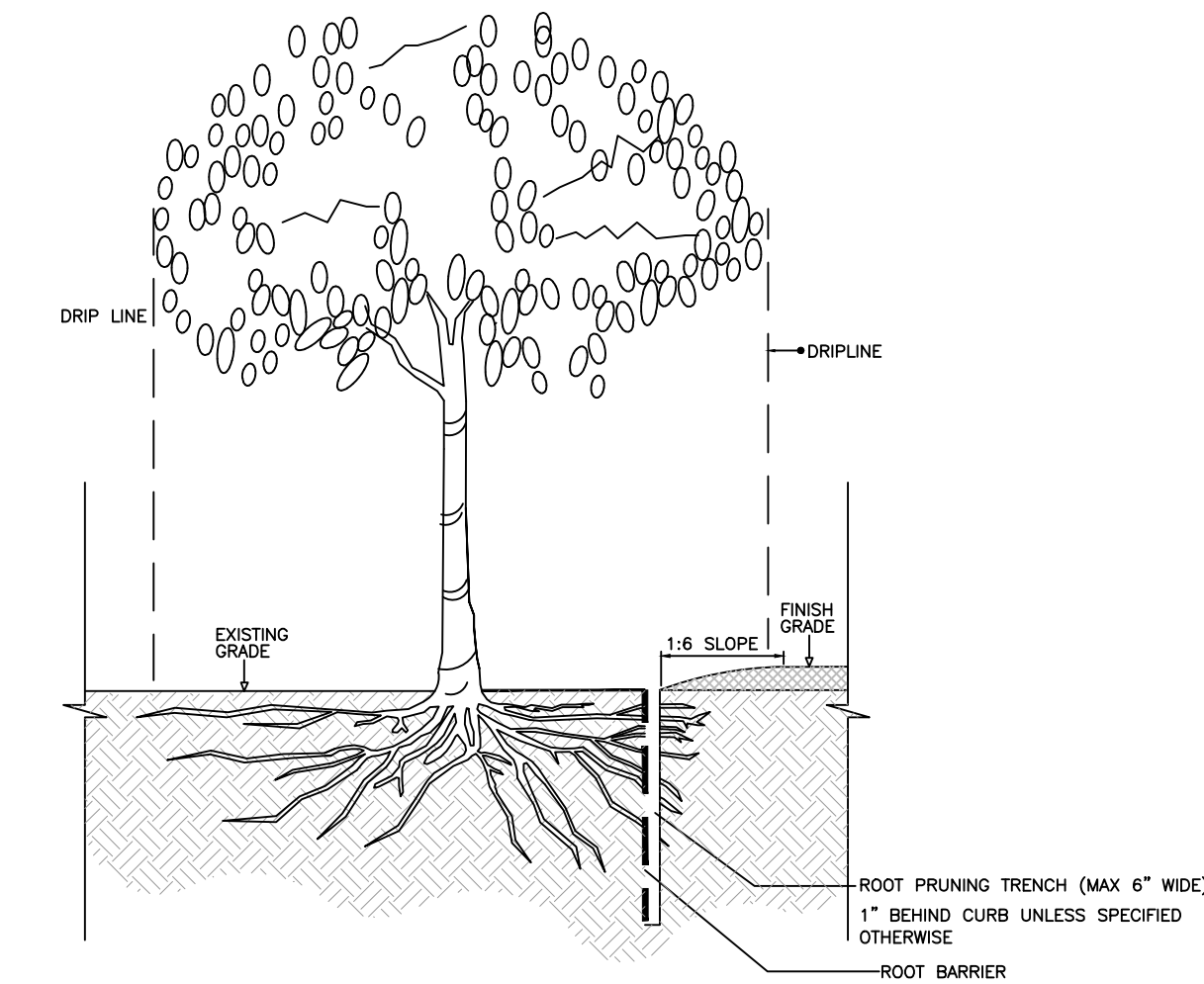
1 LARGE TREE PLANTING DETAIL



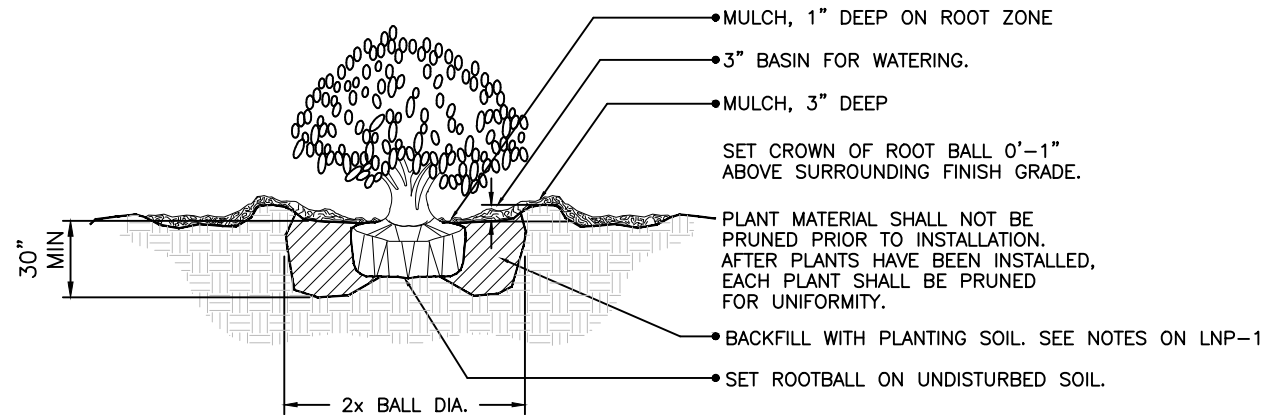
2 SABAL PALM PLANTING DETAIL



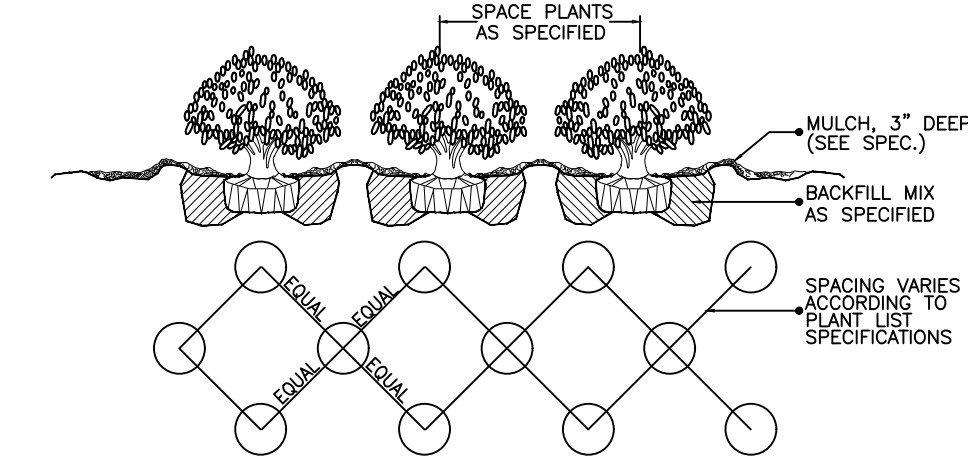
3 TREE PRESERVATION BARRICADE FENCING DETAIL



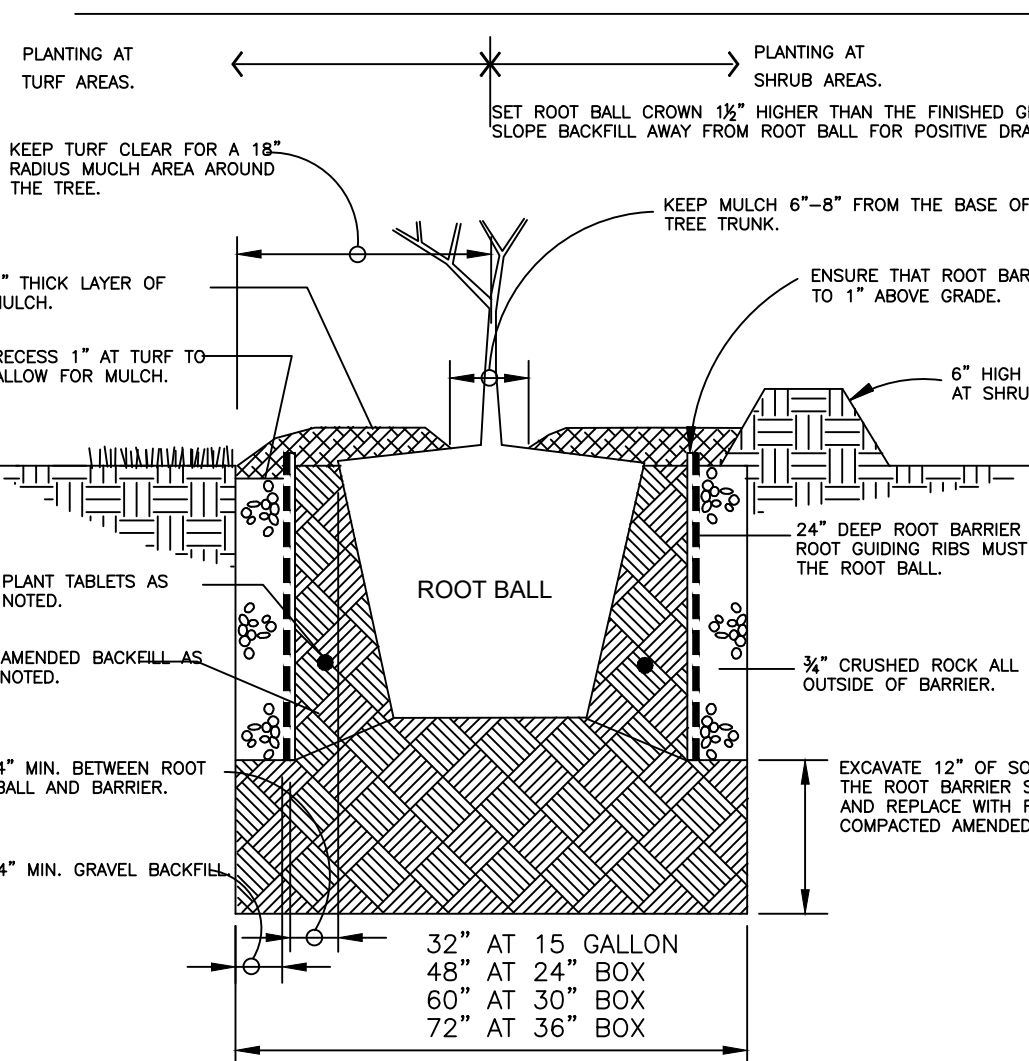
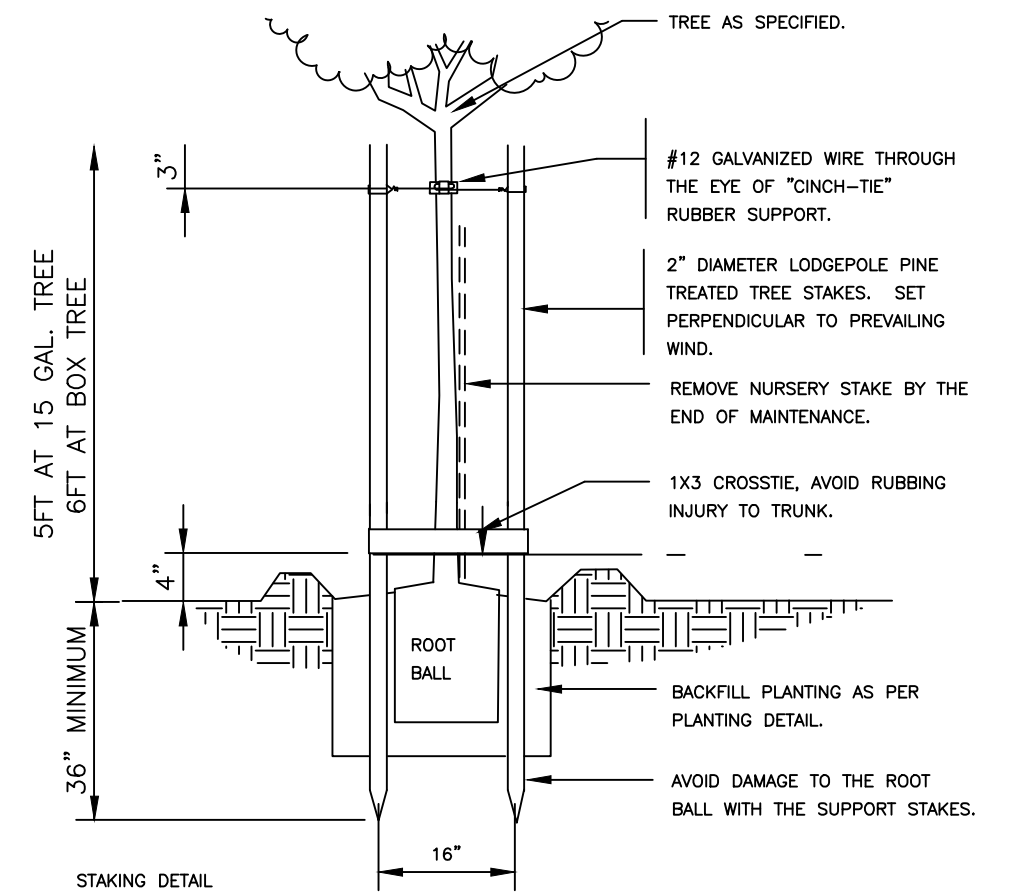
4 TREES TO REMAIN ROOT PRUNING DETAIL



5 SHRUB PLANTING DETAIL



6 SHRUB / GROUND COVER SPACING / PLANTING DETAIL



7 ROOT BARRIER TREE PLANTING

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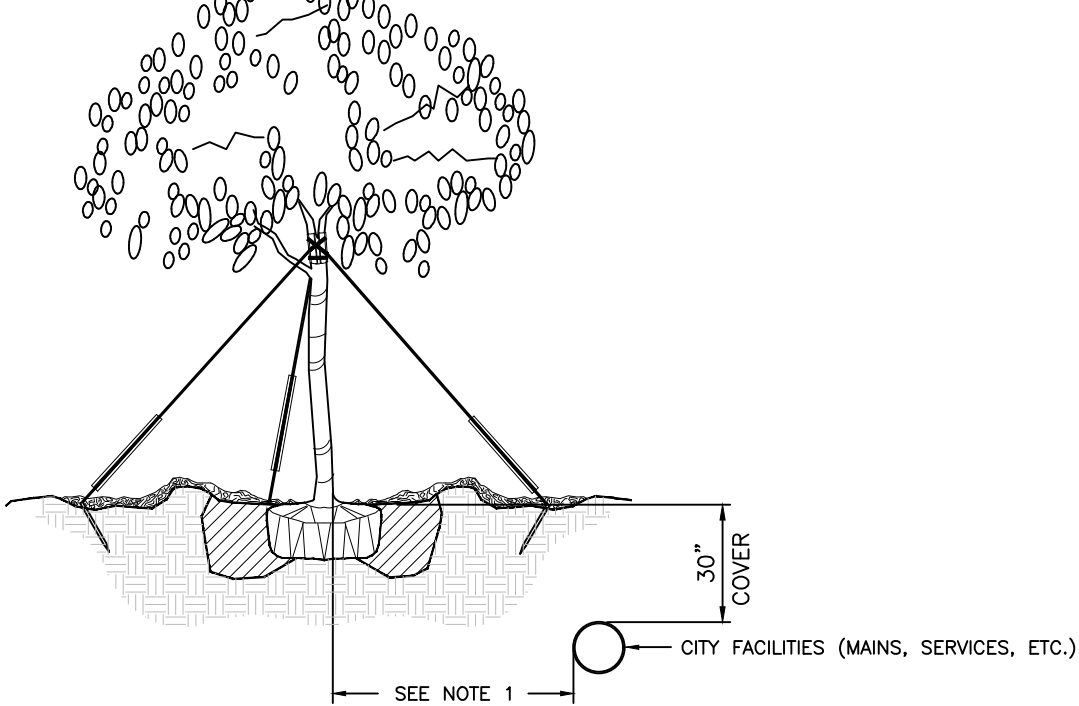
7 ROOT BARRIER TREE PLANTING

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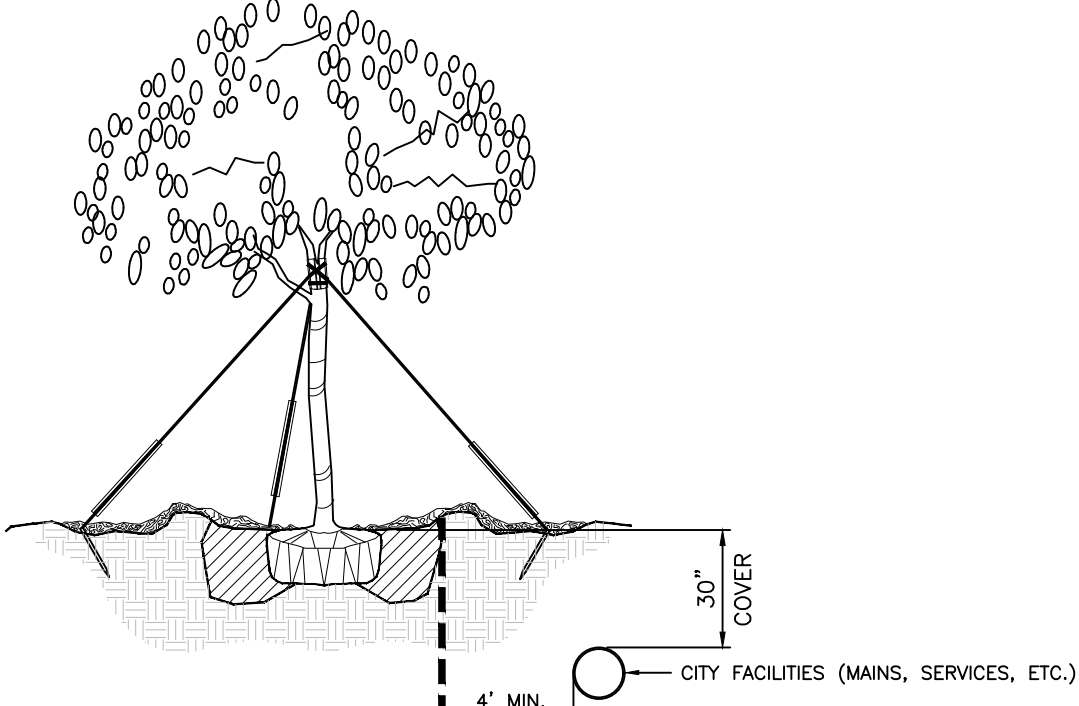
7 ROOT BARRIER TREE PLANTING

7 ROOT BARRIER TREE PLANTING



NOTES:  
THIS DISTANCE SHALL BE 10' MINIMUM FROM ALL CITY FACILITIES  
IF NO ROOT BARRIER IS USED.

8 TYP. TREE WITHOUT ROOT BARRIER



NOTES:  
1. THIS DISTANCE SHALL BE 10' MINIMUM FROM ALL CITY FACILITIES  
IF NO ROOT BARRIER IS USED.  
2. THE INSTALLATION OF ROOT BARRIERS SHALL BE COORDINATED WITH  
CITY AND INSPECTED BY CITY PRIOR TO BACKFILLING. ALL ROOT  
BARRIERS SHALL EXTEND UP TO FINISH GRADE.  
3. ROOT BARRIERS SHALL BE MINIMUM 36" DEEP. APPROVED PRODUCTS INCLUDE  
"DEEP ROOT" AND "ROOT SOLUTIONS". FLEXIBLE BARRIERS SHALL BE  
36" PANELS MANUFACTURED BY BIOBARRIER.  
4. ALL ROOT BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS  
WRITTEN INSTRUCTIONS.

8 TYP. TREE WITH ROOT BARRIER

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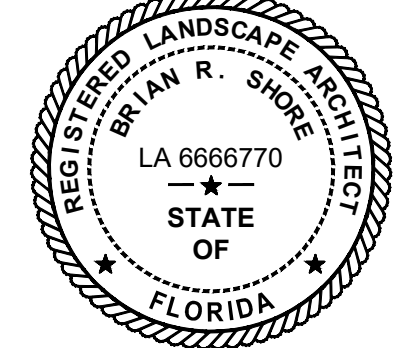
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CRA  
DEVELOPMENT

95 SW 5TH AVE.,  
DELRAY BEACH, FL  
33483

Key Plan :

C

Date : 08/07/20  
S+A Project No : 18063  
ML Project No: 19-00014  
Drawn By :  
Checked By :  
Phase :  
100% CONSTRUCTION DOCUMENTS

Sheet Title :

LANDSCAPE NOTES  
AND DETAILS

Sheet # :

LNP.2