



June 7, 2021  
TC

TP2021-0002 ✓

Projects - Final Landscape Plan  
w/ Tree Removal

### Tree Permit Application

Please Clearly Print All Information unless indicated otherwise. Date: 04/21/21

Tree Address 1319 William & 1316 Royal St.  
Cross/Corner Street NA  
List Tree Name(s) and Quantity Please see attached  
Species Type(s) check all that apply ☒ Palm ☒ Flowering ☐ Fruit ☒ Shade ☐ Unsure  
Reason(s) for Application:  
☒ Remove ☐ Tree Health ☐ Safety ☐ Other/Explain below  
☐ Transplant ☐ New Location ☐ Same Property ☐ Other/Explain below  
☒ Heavy Maintenance Trim ☐ Branch Removal ☐ Crown Cleaning/Thinning ☐ Crown Reduction  
Additional Information and Explanation This is a landscape plan approval as part of a major development plan application

Property Owner Name Royal Williams, LLC  
Property Owner email Address Misch1225@gmail.com  
Property Owner Mailing Address 1327 Whitehead St  
Property Owner Phone Number (219) 793-2232  
Property Owner Signature [Signature] Authorized Agent  
Representative Name Trepanier & Associates, Inc.  
Representative email Address Owen@OwenTrepanier.com  
Representative Mailing Address 1421 First Street  
Representative Phone Number 305-293-8983

NOTE: A Tree Representation Authorization form must accompany this application if someone other than the owner will be representing the owner at a Tree Commission meeting or picking up an issued Tree Permit. Tree Representation Authorization form attached ☐

Sketch location of tree in this area including cross/corner Street

Please identify tree(s) with colored tape

Please see attached

Planning board approval ✓  
HARC approval 5-25-21  
KD

## Karen DeMaria

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**From:** Owen Trepanier <owen@owentrepanier.com>  
**Sent:** Tuesday, May 25, 2021 12:17 PM  
**To:** Karen DeMaria  
**Subject:** [EXTERNAL] RE: 1319 william and 1316 Royal  
**Attachments:** HARC 1316 Royal Street-1319 William Street MDP - Design.pdf; C-1.pdf

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Please see attached. The civil plans were revised prior to the PB hearing. I'm attaching Both HARC and the Civil plan ("C-1") hereto.

Owen

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**Trepanier & Associates, Inc.**  
Land Planners & Development Consultants  
305-293-8983

**From:** Karen DeMaria <kdemaria@cityofkeywest-fl.gov>  
**Sent:** Tuesday, May 18, 2021 4:54 PM  
**To:** Owen Trepanier <owen@owentrepanier.com>  
**Subject:** 1319 william and 1316 Royal

I am gathering my papers for the June 7 Tree Commission meeting. Can you please send me the updated plans as submitted to HARC and approved by the Planning Board so I have them to review. If HARC makes any changes I will need them asap. Also, the plan page showing the swales MUST be corrected and updated for the Final Landscape plan review.

Sincerely,

Karen

*Karen DeMaria*

Karen DeMaria  
Urban Forestry Manager  
Certified Arborist FL-6585A  
City of Key West  
305-809-3768





## Karen DeMaria

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**From:** Paul Misch <misch1225@gmail.com>  
**Sent:** Tuesday, May 25, 2021 12:25 PM  
**To:** Karen DeMaria; Owen Trepanier  
**Subject:** [EXTERNAL] Re: 1319 william and 1316 Royal

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Nothing has changed  
Thank you

On Tue, May 25, 2021 at 10:31 AM Karen DeMaria <[kdemaria@cityofkeywest-fl.gov](mailto:kdemaria@cityofkeywest-fl.gov)> wrote:

I am trying to create the agenda for the June 7 Tree Commission meeting. Have there been any changes to the landscaping or tree removal requests? I need to advertise the list of trees being removed and I need to make sure it is accurate. This is what I have:

Requesting Final Landscape Plan approval with tree removal to include the removal of (14) Jamaican Caper, (8) Small Leaf Clusia, (7) Gumbo Limbo, (3) Red Coco Plum, (2) Satinleaf, (2) Silver Buttonwood, (1) Fiddle Wood, (1) Frangipani, (1) Mahogany, (1) Raintree, (1) Sweet Acacia, (1) White Stopper trees, (3) Christmas Palms, (2) Washingtonian Palms, (1) Fiji Fan Palm, and (1) Royal Palm. The major development plan also proposes to transplant (7) Florida Thatch Palms, (3) Keys Thatch Palms, and (2) Christmas Palms.

I still have not seen the any recent plans so I am not sure if any changes have been made. Please note that I will be out of the office Thursday, May 27 to Tuesday June 1. I must review the most recent set of plans and update the file by June 3 so it can be sent to the Tree Commissioners for review (the meeting is MONDAY, June 7).

Sincerely,

Karen

City of Key West  
Planning Department



**Authorization Form**  
(Where Owner is a Business Entity)

Please complete this form if someone other than the owner is representing the property owner in this matter.

I, Paul Misch as  
*Please Print Name of person with authority to execute documents on behalf of entity*

Royal Williams, LLC of MGR  
*Name of office (President, Managing Member)* *Name of owner from deed*

authorize Trepanier & Associates, Inc.  
*Please Print Name of Representative*

to be the representative for this application and act on my/our behalf before the City of Key West.

[Signature]  
*Signature of person with authority to execute documents on behalf on entity owner*

Subscribed and sworn to (or affirmed) before me on this 20th Dec 2018  
*Date*

by Paul Misch  
*Name of person with authority to execute documents on behalf on entity owner*

He/She is personally known to me or has presented \_\_\_\_\_ as identification.

[Signature]  
*Notary's Signature and Seal*

Alvina Covington  
*Name of Acknowledger typed, printed or stamped*



Alvina Covington  
COMMISSION #FF913801  
EXPIRES: August 27, 2019  
WWW.AARONNOTARY.COM

FF913801  
*Commission Number, if any*

**PREPARED BY:**

Janis K. Cheezem, Esq.  
Akerman LLP  
98 SE 7<sup>th</sup> Street, Suite 1100  
Miami, FL 33131

Doc# 2178072 07/16/2018 2:51PM  
Filed & Recorded in Official Records of  
MONROE COUNTY KEVIN MADOK

**RECORD AND RETURN TO:**

David Van Loon, Esquire  
Highsmith & Van Loon, P.A.  
3158 Northside Drive  
Key West, Florida 33040

07/16/2018 2:51PM  
DEED DOC STAMP CL: Krys \$16,100.00

Doc# 2178072  
Bk# 2917 Pg# 79

Property Appraiser's No.: Tax Folio No. 00036920-000000

**WARRANTY DEED**

This WARRANTY DEED, made as of this 16<sup>th</sup> day of July, 2018, between HOSPICE OF THE FLORIDA KEYS, INC., (f/k/a Hospice of Florida Keys, Inc.), a Florida not-for-profit corporation (the "Grantor"), whose address is 4300 NW 89 Blvd., Gainesville, FL 32606 in favor of ROYAL WILLIAMS LLC, a Florida limited liability company (the "Grantee"), whose address is 1207 Von Phister, Key West, Florida 33040.

**WITNESSETH:**

That the Grantor, for and in consideration of the sum of Ten and No/100 (\$10.00) Dollars to it in hand paid by Grantee, the receipt whereof is hereby acknowledged, has granted, bargained, sold, and conveyed to the Grantee, and by these presents does hereby grant, bargain, sell, and convey unto Grantee, its successors and assigns forever, that certain real property lying and being in the County of Monroe, State of Florida, as more particularly described in Exhibit "A," attached hereto and made a part hereof (the "Property").

TOGETHER with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

Subject to real estate taxes and all assessments for the year 2018 and subsequent years, which are not yet due and payable.

Subject to zoning ordinances and other municipal, state and Federal laws as may be applicable, covenants, conditions, restrictions, limitations, reservations and easements of record, if any, none of which shall be deemed reimposed.

To have and to hold the same in fee simple forever.

And Grantor does hereby fully warrant the title to the Property, subject as aforesaid, and will defend the same against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF, the Grantor has caused this Warranty Deed to be executed as of the day and year first above written.

WITNESSES:

HOSPICE OF THE FLORIDA KEYS, INC., a  
Florida not-for-profit corporation

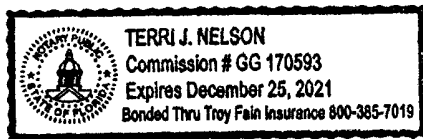
Heather Lawton  
Print Name: Heather Lawton

Sharon A. Jones  
Print Name: SHARON A. JONES

By: Gayle S. Mattson  
Name: Gayle S. Mattson  
Title: President

STATE OF FLORIDA                     )  
  )ss:  
COUNTY OF Suwannee                     )

The foregoing instrument was acknowledged before me this 10<sup>th</sup> day of July, 2018 by Gayle S. Mattson, as President of HOSPICE OF THE FLORIDA KEYS, INC., a Florida not-for-profit corporation, on behalf of the corporation. She is personally known to me or produced a valid driver's license as identification.



Terri J. Nelson  
Notary Public  
Print name: Terri J. Nelson

My commission expires: 12/25/2021

**EXHIBIT "A" TO WARRANTY DEED**

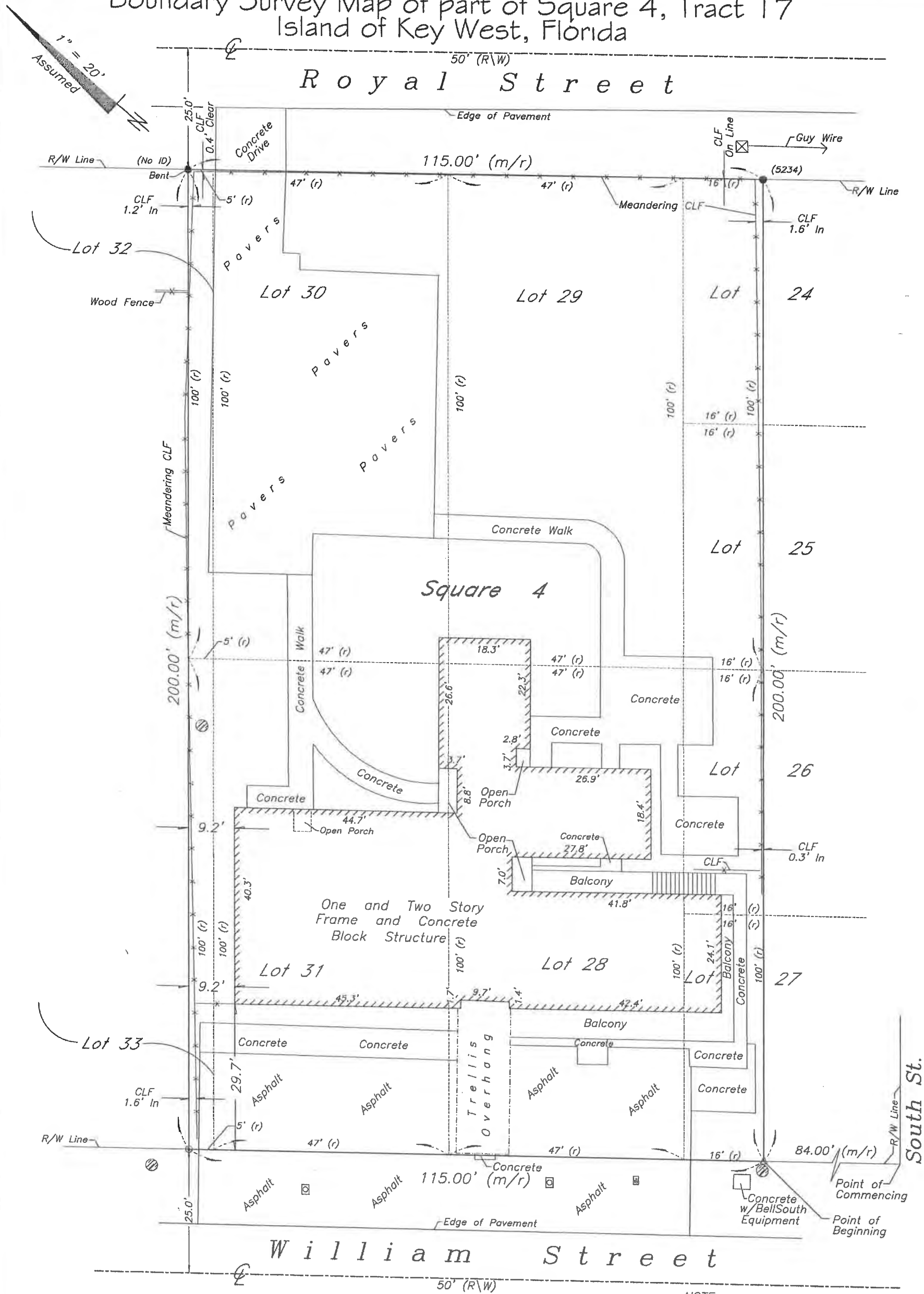
**LEGAL DESCRIPTION**

In the City of Key West and is known as a part of Lots 24, 25, 26, 27, 32, and 33 and all of Lots 28, 29, 30 and 31, in Square 4, Tract 17, according to White's and Pierce's Diagram of said Square 4; Tract 17 as recorded in Deed Book "N", Page 613, Public Records of Monroe County, Florida:

Commencing at a point on the Northeast side of William Street, 84 feet Northwesterly from the corner of South and William Streets, and running thence Northwesterly on the Northeast side of William Street, a distance of 115 feet; thence at right angles in a Northeasterly direction 200 feet to Royal Street; thence at right angles along the Southwest side of Royal Street in a Southeasterly direction 115 feet; thence at right angles in a Southwesterly direction 200 feet, back to the point of beginning.

**MONROE COUNTY**  
**OFFICIAL RECORDS**

Boundary Survey Map of part of Square 4, Tract 17  
Island of Key West, Florida



## LEGEND

- |       |                                    |        |                          |
|-------|------------------------------------|--------|--------------------------|
| ⊙     | Found 2" Iron Pipe (FHH)           | R\W    | Right of Way             |
| ○     | Set 3/4" Iron Pipe w/cap (6298)    | CLF    | Chain Link Fence         |
| ●     | Found 1/2" Iron Rod (5234) (No ID) | ℄      | Centerline               |
| ▲     | Found Nail & Disc (PTS)            | ⊗      | Wood Utility Pole        |
| △     | Set Nail & Disc (6298)             | ⊠      | Concrete Utility Pole    |
| (M)   | Measured                           | -P-    | Overhead Utility Lines   |
| (R)   | Record                             | C.B.S. | Concrete Block Structure |
| (M/R) | Measured & Record                  |        |                          |

NOTE:  
This Survey Map is not  
full and complete without  
the attached Survey Report.

Sheet One of Two Sheets

J. LYNN O'FLYNN, Inc.

Professional Surveyor & Mapper  
PSM #6298

3430 Duck Ave., Key West, FL 33040  
(305) 296-7422 FAX (305) 296-2244



# Boundary Survey Report of part of Square 4, Tract 17 Island of Key West, Florida

## NOTES:

1. The legal description shown hereon was furnished by the client or their agent. This survey does not determine or imply ownership.
2. Underground foundations and utilities were not located.
3. All angles are 90° (Measured & Record) unless otherwise noted.
4. Street address: 1319 William Street, Key West, FL.
5. This survey is not valid without the signature and the original raised seal of a Florida licensed surveyor and mapper.
6. Lands shown hereon were not abstracted for rights-of-way, easements, ownership, or other instruments of record.
7. North Arrow is assumed and based on the legal description.
8. Date of field work: April 17, 2018
9. Ownership of fences is undeterminable, unless otherwise noted.
10. Adjoiners are not furnished.
11. The Survey Report is not full and complete without the attached Survey Map.

**BOUNDARY SURVEY OF:** In the City of Key West and is known as a part of Lots 24, 25, 26, 27, 32 and 33 and all of Lots 28, 29, 30, and 31, in Square 4, Tract 17, according to White's and Pierce's Diagram of said Square 4, Tract 17 as recorded in Deed Book "N", Page 613, of the Public Records of Monroe County, Florida:  
Commencing at a point on the Northeast side of William Street, 84 feet Northwesterly from the corner of South and Williams Streets, and running thence Northwesterly on the Northeast side of William Street, a distance of 115 feet; thence at right angles in a Northeasterly direction 200 feet to Royal Street; thence at right angles along the Southwest side of Royal Street in a Southeasterly direction 115 feet; thence at right angles in a Southwesterly direction 200 feet, back to the point of beginning.

**BOUNDARY SURVEY FOR:** Royal Williams LLC;  
Centennial Bank;  
Highsmith & Van Loon, P.A.;  
Old Republic National Title Insurance Co.;

I HEREBY CERTIFY that this survey was made under my responsible charge and meets the Standard of Practice as set forth by the Florida Board of Professional Surveyors & Mappers in Chapter 5J-17, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes.

J. LYNN O'FLYNN, INC.

  
J. Lynn O'Flynn, PSM  
Florida Reg. #6298

THIS SURVEY  
IS NOT  
ASSIGNABLE

April 30, 2018

Sheet Two of Two Sheets

J. LYNN O'FLYNN, Inc.



Professional Surveyor & Mapper  
PSM #6298

3430 Duck Ave., Key West, FL 33040  
(305) 296-7422 FAX (305) 296-2244

[illegible]



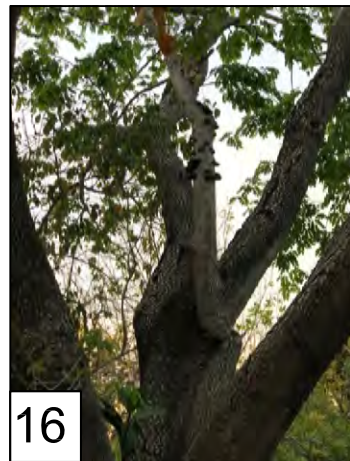
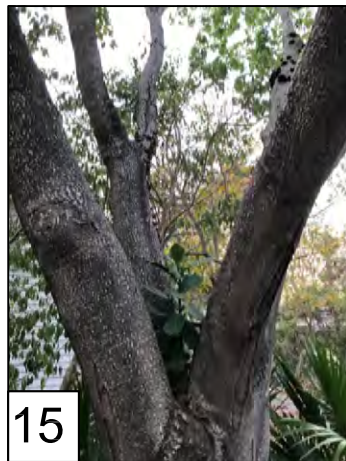
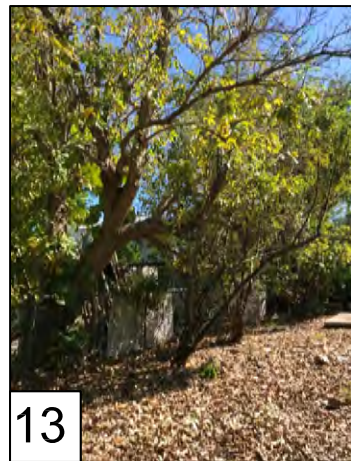
Common Name/Botanical Name	Size	Status	Cond	Remain/Remove/Transplant	Arborist Remarks
1 Ixora/Ixora coccinea	Shrub 6-8' oa	npr	good	Remain	photo 2
2 Ixora/Ixora coccinea	Shrub 6-8' oa	npr	good	Remain	
3 Gumbo Limbo/Bursea simaruba	16.7" dsh 18'hx15'w	regulated	fair	Remain	
4 Ixora/Ixora coccinea	Shrub	npr	good	Remain	
5 Ixora/Ixora coccinea	Shrub	npr	good	Remain	neighbors property, codominant @2', leaning south
6 Ixora/Ixora coccinea	Shrub	npr	good	Remain	
7 Ixora/Ixora coccinea	Shrub	npr	good	Remain	
8 Pink Tabebuia/Tabebuia heterophylla	17.5" dsh 25'hx15'w	npr	poor	Remain	
9 Pink Tabebuia/Tabebuia heterophylla	13.25" dsh 20'hx10'w	npr	poor	Remain	shared tree, ccdominant branches with included bark, leaning south, in utility lines, topped, growing under concrete pad
10 Pink Tabebuia/Tabebuia heterophylla	20" dsh 40'hx20'w	npr	poor	Remain	
11 Jamaican Caper/Capparis cynophallophora	3.3" dsh 10-12'hx8'w	regulated	good	Remain	
12 Strangler Fig/Ficus aurea	6.33" dsh B 40'hx30'w	regulated	good	Remain	
13 Green Island Ficus/Ficus microcarpa	Shrub 3' oa	npr	fair	Remain	large, shared cn property line, growing over fence approximately 75% in neighbors property, retain protect Photo 5
14 Christmas Palm/Adonidia merrillii	Double 13' oa	regulated	good	Transplant	
15 Christmas Palm/Adonidia merrillii	Double 13' oa	regulated	good	Transplant	
16 Plumbago/Ceratostigma plumbaginoides	Shrub	npr	good	Remain	
17 Arboricola/shefflera arboricola	Shrub	npr	good	Remain	remain
18 Christmas Palm/Adonidia merrillii	Triple 8' oa	npr	good	Remain	
19 Arboricola/shefflera arboricola	Shrub	npr	good	Remain	
20 Plumbago/plumbago ariculata	Shrub	npr	good	Remain	
21 Arboricola/shefflera arboricola	Shrub	npr	good	Remove	affected by propposed plans
22 Bougainvillea species	Trellised	npr	poor	Remove	
23 Arboricola/shefflera arboricola	Shrub 3' oa	npr	good	Remove	
24 Arboricola/shefflera arboricola	Shrub 3' oa	npr	good	Remove	
25 Arboricola/shefflera arboricola	Shrub 3' oa	npr	good	Remove	affected by propposed plans
26 Bougainvillea species	Trellised	npr	poor	Remove	
27 Golden Dewdrop/Duranta erecta	Shrub 4'x3'	npr	fair	Remove	
28 Golden Dewdrop/Duranta erecta	Shrub 4'x3'	npr	fair	Remove	
29 Bougainvillea species	Trellised	npr	poor	Remove	affected by propposed plans
30 Arboricola/shefflera arboricola	Shrub 3'x3'	npr	fair	Remove	
31 Arboricola/shefflera arboricola	Shrub 3'x3'	npr	fair	Remove	
32 Arboricola/shefflera arboricola	Shrub 3'x3'	npr	fair	Remove	
33 Bougainvillea species	Trellised	npr	poor	Remove	affected by propposed plans
34 Arboricola/shefflera arboricola	Shrub 3'x3'	npr	fair	Remove	
35 Arboricola/shefflera arboricola	Shrub 3'x3'	npr	fair	Remove	
36 Arboricola/shefflera arboricola	Shrub 3'x3'	npr	fair	Remove	
37 Draceana species/	Shrub	npr	fair	Remain	affected by propposed plans
38 Yucca/	Shrub 8' h	npr	fair	Remain	
39 Fishtail Palm/caryota mitis	18' h	npr	poor	Remove	
40 White Bird of Paradise/Strelitzia nicolai	4'x2' 2' h	npr	good	Remain	
41 Ponytail Palm/Beaucarnea recurvata	5'x10'	npr	fair	Remain	remove, poor condition
42 Fishtail Palm/caryota mitis	6'-7' h	npr	poor	Remove	
43 Fishtail Palm/caryota mitis	18' h	npr	poor	Remove	
44 Draceana species	Shrub 4' h	npr	fair	Remain	
45 Green Island Ficus/Ficus microcarpa	Shrub 3.5'x1'	npr	fair	Remain	leaning west, remain, outside property
46 Pink Tabebuia/Tabebuia heterophylla	5.2" dsh 12'hx5'w	npr	poor	Remain	
47 Pink Tabebuia/Tabebuia heterophylla	15" dsh 25'hx15'w	npr	poor	Remain	
48 Pink Tabebuia/Tabebuia heterophylla	6" dsh	npr	poor	Remain	
49 Pink Tabebuia/Tabebuia heterophylla	6.7" dsh	npr	poor	Remain	leaning into parking area, remain, outside property
50 Pink Tabebuia/Tabebuia heterophylla	5" dsh	npr	poor	Remain	
51 Pink Tabebuia/Tabebuia heterophylla	2" dsh	npr	poor	Remain	
52 Pink Tabebuia/Tabebuia heterophylla	3" dsh	npr	poor	Remain	
53 Pink Tabebuia/Tabebuia heterophylla	8.5" dsh	npr	poor	Remain	north side of fence, topped, remain, outside property
54 Pink Tabebuia/Tabebuia heterophylla	5.5" dsh 25'hx10'w	npr	poor	Remain	
55 Pink Tabebuia/Tabebuia heterophylla	14.75" dsh 35'hx15'w	npr	poor	Remain	
56 Pink Tabebuia/Tabebuia heterophylla	1.75" dsh	npr	poor	Remain	
57 Neem/Azadirachta indica	2.5" dsh 12'hx4'w	npr	poor	Remain	seedling, north side of fence, through fence, remain, outside property
58 Pink Tabebuia/Tabebuia heterophylla	10.5" dsh 23'hx12'w	npr	poor	Remain	
59 Pink Tabebuia/Tabebuia heterophylla	3" dsh 20'hx4'w	npr	poor	Remain	
60 Pink Tabebuia/Tabebuia heterophylla	4.2" dsh 22'hx8'w	npr	poor	Remain	
61 Christmas Palm/Adonidia merrillii	Triple 10'-16' oa	regulated	fair	Remain	seedling, north side of fence, through fence, remain, outside property
62 Pink Tabebuia/Tabebuia heterophylla	14" dsh 30'hx20'w	npr	poor	Remain	
63 Christmas Palm/Adonidia merrillii	20' h	regulated	fair	Remain	
64 Bamboo Palm/Chamaedorea seifrizii	Cluster 7 canes	npr	poor	Remove	
65 Bamboo Palm/Chamaedorea seifrizii	Cluster 4 canes	npr	poor	Remove	remove, poor condition
66 Bamboo Palm/Chamaedorea seifrizii	Cluster 8 canes	npr	poor	Remove	
67 Pink Tabebuia/Tabebuia heterophylla	14" dsh 37'hx15'w	npr	fair	Remain	
68 Sweet Acacia/Acacia farnesiana	14.6" dsh 12'hx15'w	regulated	poor	Remove	
69 Areca Palm/Dyopsis lutescens	Grouping 10'-12' oa	npr	fair	Remain	north side of fence, s-shaped dog leg back into this property, outside property
70 Christmas Palm/Adonidia merrillii	Cluster 11 6-18' oa	regulated	fair	Remove	
71 Christmas Palm/Adonidia merrillii	Cluster of 8 20'-22' oa	regulated	fair	Remain	
72 Christmas Palm/Adonidia merrillii	Cluster of 5 8'-18' oa	regulated	fair	Remove	
73 Washingtonia Palm/Washingtonia robusta	40' oa	regulated	poor	Remove	remove, poor condition
74 Pink Tabebuia/Tabebuia heterophylla	8" dsh 25'x10'w	npr	poor	Remove	
75 Pink Tabebuia/Tabebuia heterophylla	12" dsh 30'hx20'w	npr	poor	Remove	
76 Areca Palm/Dyopsis lutescens	Cluster 10'hx6'w	npr	fair	Remain	
77 Christmas Palm/Adonidia merrillii	18'-20' oa	regulated	good	Remove	north of fence outside property
78 Frangipani/Plumeria	10.5" dsh 20'hx18'w	regulated	fair	Remove	
79 Draceana species	Shrub 10'hx5'w	npr	poor	Remain	
80 Gumbo Limbo/Bursea simaruba	10.6" dsh 20'hx20'w	regulated	fair	Remain	
81 Gumbo Limbo/Bursea simaruba	3.3" dsh 18'hx4'w	regulated	poor	Remove	through fence, remove, affected by proposed design
82 Satin Leaf/Chrysophyllum olidiforme	6" dsh 20'hx8'w	regulated	poor	Remove	
83 Pink Tabebuia/Tabebuia heterophylla	20.2" dsh 22'hx15'w	npr	poor	Remove	
84 Coconut Palm/cocos nucifera	35'-40' oa	regulated	fair	Remain	
85 Satin Leaf/Chrysophyllum olidiforme	5" dsh 10'hx14'w	regulated	fair	Remain	leaning west
86 Gumbo Limbo/Bursea simaruba	9.5" dsh 20'hx10'w	regulated	fair	Remain	
87 Jamaican Caper/Capparis cynophallophora	Multi 12" dsh 15'hx10'w	regulated	fair	Remain	
88 Satin Leaf/Chrysophyllum olidiforme	4.4" dsh 13'h	regulated	poor	Remove	
89 Royal Poiniana/Delonix regia	16.4" dsh 18'h 25'w	regulated	fair	Remain	leaning north over fence to neighbor, insect problems, remain
90 Jamaican Caper/Capparis cynophallophora	Multi 7.5" dsh 18'hx8'w	regulated	fair	Remove	
91 Florida Thatch Palm/Thrinax radiata	8' oa	regulated	good	Transplant	
92 Jamaican Caper/Capparis cynophallophora	Multi 2" dsh 10' oa	regulated	poor	Remove	
93 Florida Thatch Palm/Thrinax radiata	10' h	regulated	good	Transplant	retain and protect Photo 9
94 Jamaican Caper/Capparis cynophallophora	2" dsh	regulated	poor	Remove	
95 Jamaican Caper/Capparis cynophallophora	Multi 10" dsh 16'hx8'w	regulated	fair	Remove	
96 Jamaican Caper/Capparis cynophallophora	Multi 1" dsh	npr	poor	Remove	
97 Jamaican Caper/Capparis cynophallophora	.75" dsh 5' oa	npr	fair	Remove	through fence, remove, poor condition
98 Jamaican Caper/Capparis cynophallophora	Multi 14" dsh 18'hx15'w	regulated	fair	Remove	
99 Jamaican Caper/Capparis cynophallophora	Multi 12" dsh 14'0h	regulated	poor	Remove	
100 Bamboo Palm/Chamaedorea seifrizii	3' h 1 cane	npr	poor	Remove	

\*

Items listed in RED are regulated trees NOT in poor condition.

101 Gumbo Limbo/Bursea simaruba	8.5" dsh 25'hx8'w	regulated	good	Remain	remain, work with city arborist
102 Royal Poinciana/Delonix regia	21" dsh 18'hx20'w	regulated	fair	Remain	remain Photo 11
103 Jamaican Caper/Capparis cynophallophora	.5" dsh	npr	poor	Remove	seedling, through fence, remove, poor condition
104 Small Leaf Clusia/Clusia guttifera	14" dsh 20'hx8'w	regulated	poor	Remove	partially uprooted, remove
105 Small Leaf Clusia/Clusia guttifera	14.3" dsh 20'hx20'w	regulated	poor	Remove	remove, poor condition
106 Small Leaf Clusia/Clusia guttifera	16" dsh 20'hx15'w	regulated	poor	Remove	partially uprooted, remove, poor condition
107 Small Leaf Clusia/Clusia guttifera	12.7" dsh 18'hx20'w	regulated	poor	Remove	remove
108 Royal Poinciana/Delonix regia	25" dsh 25'hx25'w	regulated	fair	Remain	retain and protect
109 Small Leaf Clusia/Clusia guttifera	18" dsh 20'hx20w	regulated	poor	Remove	uprooted, remove, poor condition
110 Jamaican Caper/Capparis cynophallophora	.5" dsh 7'hx3'w	npr	fair	Remove	remove, no regulated, close proximity to 108
111 Fiji Fan Palm/Pritchardia pacifica	25' h	regulated	fair	Remove	remove, affected by proposed design
112 Gumbo Limbo/Bursea simaruba	4.7" dsh 14'hx6'w	regulated	poor	Remove	topped, restricted growth due to overhead canopy, leaning south with dog leg, remove
113 Sabal Palm/Sabal palmetto	16' oa	regulated	poor	Remain	may require trimming to not conflict with utilities, city property
114 Pink Tabebuia/Tabebuia heterophylla	10" dsh 20'hx10'w	npr	poor	Remove	remove, conflict with utilities, city property
115 Jamaican Caper/Capparis cynophallophora	.5"	npr	poor	Remove	seedling, remove, poor condition
116 Coconut Palm/cocos nucifera	40'	regulated	fair	Remain	retain and protect
117 Coconut Palm/cocos nucifera	Seedlings (5) 2'-4' oa	npr	good	Remove	remove, affected by proposed design
118 Brazilian Pepper/Schinus terebinthifolius	4" dsh	npr	poor	Remove	over fence, remove invasive
119 Pink Tabebuia/Tabebuia heterophylla	12" dsh 16'hx8'w	npr	poor	Remove	uprooted, remove
120 Aralia/Polyscias	Shrub 3" dsh 12't 4'w	npr	poor	Remove	uprooted, broken, remove
121 Jamaican Caper/Capparis cynophallophora	18" dsh 18'hx10'w	regulated	poor	Remove	partially uprooted, remove
122 Red Coco Plum/Chrysobalanus icaco v. red tip	7" dsh	regulated	poor	Remove	partially uprooted, remove
123 Jamaican Caper/Capparis cynophallophora	6" dsh 18'hx10'w	regulated	poor	Remove	uprooted, remove
124 Gumbo Limbo/Bursea simaruba	1.3" dsh 8'-9'oa	regulated	poor	Remain	seedling, remain, outside property
125 Jamaican Caper/Capparis cynophallophora	15" dsh 18'hx20'w	regulated	poor	Remove	uprooted,, damaged, remove
126 Jamaican Caper/Capparis cynophallophora	14.6" dsh	regulated	poor	Remove	partially uprooted, remove
127 Pink Tabebuia/Tabebuia heterophylla	6" dsh 18'hx8'w	npr	poor	Remain	through fence, remain, outside property
128 Surinam Cherry/Eugenia uniflora	Shrub 1" dsh 4'-5'oa	npr	poor	Remain	remain, outside property, invasive exotic
129 Veitchia/Veitchia spec.	<10 ft CT	npr	good	Remove	remove, affected by proposed design
130 Pink Tabebuia/Tabebuia heterophylla	27" dsh 32'hx15'w	regulated	poor	Remain	retain and protect
131 Bamboo Palm/Chamaedorea seifrizii	2 canes 12' oa	npr	poor	Remove	remove, poor condition
132 Jamaican Caper/Capparis cynophallophora	multi 10" dsh 18'hx6'w	regulated	poor	Remove	partially uprooted, remove
133 Pink Tabebuia/Tabebuia heterophylla	16.5" dsh	npr	poor	Remain	neighbor property south side of fence, on fence, 16.5" dia. branch growing north into property 12', remove limb Photo 13
134 Jamaican Caper/Capparis cynophallophora	12" dsh 12'hx10'w	regulated	poor	Remove	uprooted, remove
135 Jamaican Caper/Capparis cynophallophora	3" dsh 15'hx5'w	regulated	poor	Remain	through fence, remain
136 Small Leaf Clusia/Clusia guttifera	6.7" dsh 10'hx10'w	regulated	poor	Remove	partially uprooted, topped, remove
137 Pink Tabebuia/Tabebuia heterophylla	3.4" dsh 16'hx6'w	npr	poor	Remove	remove, invasive exotic
138 Small Leaf Clusia/Clusia guttifera	7.5" dsh 15'hx20'w	regulated	poor	Remove	uprooted, through fence, remove
139 Royal Poinciana/Delonix regia	7.1" dsh 30'hx15'w	regulated	fair	Remain	retain and protect
140 Christmas Palm/Adonidia merrillii	18' oa	regulated	good	Remain	Remain , outside property
141 Gumbo Limbo/Bursea simaruba	18.1" dsh 30'hx20'w	regulated	fair	Remain	on fence, leaning south at utility pole, remain, heavy maintenance trim Photo 14
142 NOT USED					
143 Small Leaf Clusia/Clusia guttifera	6.2" dsh 10'hx8'w	regulated	poor	Remove	partially uprooted, remove
144 Draceana species	Shrub 7'hx5'w	npr	poor	Remove	remove, not regulated, affected by proposed design
145 Myrsine/Rapanea punctata	<1" dsh Shrub 6'-10' h	npr	poor	Remain	Remain , outside property
146 Myrsine/Rapanea punctata	<1" dsh Shrub 6'-10' h	npr	poor	Remain	Remain , outside property
147 Myrsine/Rapanea punctata	<1" dsh Shrub 6'-10' h	npr	poor	Remain	Remain , outside property
148 Areca Palm/Dyopsis lutescens	3 canes 7'-8'	npr	fair	Remove	remove, not regulated, affected by proposed design
149 Areca Palm/Dyopsis lutescens	4 canes 8'-10'	npr	fair	Remove	remove, not regulated, affected by proposed design
150 Areca Palm/Dyopsis lutescens	10-14'oa 10 canes	npr	fair	Remove	remove, not regulated, affected by proposed design
151 Pink Tabebuia/Tabebuia heterophylla	5" dsh 18'hx4'w	npr	poor	Remove	on roof, roots under structure, remove
152 Bamboo Palm/Chamaedorea seifrizii	5 canes 4' h	npr	poor	Remove	remove, poor condition
153 Christmas Palm/Adonidia merrillii	6' oa	npr	good	Remove	remove, not regulated, affected by proposed design
154 Keys Thatch Palm/Leucothrinax morrisii	double 8',3' h	regulated	good	Transplant	transplant, see L3.00
155 Keys Thatch Palm/Leucothrinax morrisii	triple, 6'-11' h	regulated	good	Transplant	transplant, see L3.00
156 Keys Thatch Palm/Leucothrinax morrisii	triple 5'-6' h	regulated	good	Transplant	transplant, see L3.00
157 Pink Tabebuia/Tabebuia heterophylla	13.6" @base 30'hx10'w	npr	poor	Remove	remove, invasive exotic
158 Pink Tabebuia/Tabebuia heterophylla	11.3" dsh 30'hx20'w	npr	poor	Remove	remove, invasive exotic
159 Washingtonia Palm/Washingtonia robusta	40' oa	regulated	poor	Remove	remove, poor condition
160 Jamaican Caper/Capparis cynophallophora	2" dsh 5.5'hx5'w	regulated	poor	Remove	hedged, remove
161 Gumbo Limbo/Bursea simaruba	6.5" dsh 15'hx12'w	regulated	poor	Remove	leaning south, under canopy, remove
162 Washingtonia Palm/Washingtonia robusta	4'oa	npr	poor	Remove	remove, invasive exotic
163 Raintree Tree/Samanea saman	25' @3'h	regulated	poor	Remove	tree in decline, sunscald, fungus, dead limbs, remove Photo 15, 16, 17, 18
164 Green Thatch Palm/Thrinax radiata	5' oa	regulated	good	Transplant	transplant, see L3.00 Photo 19
165 Green Thatch Palm/Thrinax radiata	6' oa	regulated	good	Transplant	transplant, see L3.00
166 Green Thatch Palm/Thrinax radiata	6' oa	regulated	good	Transplant	transplant, see L3.00
167 Green Thatch Palm/Thrinax radiata	6' oa	regulated	good	Transplant	clump, transplant, see L3.00
168 Fiddle Wood/Citharexylum spinosum	7.3" dsh 13'hx10'w	regulated	poor	Remove	remove, poor condition
169 Pink Tabebuia/Tabebuia heterophylla	5.8" dsh 20'hx8'w	npr	poor	Remove	remove, invasive exotic
170 Pink Tabebuia/Tabebuia heterophylla	2.7" dsh 13'hx6'w	npr	poor	Remove	remove, invasive exotic
171 Pygmy Date Palm/Phoenix roebellenii	Triple 6'-12' oa	npr	poor	Remove	remove, poor condition
172 Mahogany/Swietenia mahogoni	9.7" dsh 20'hx12'w	regulated	poor	Remove	remove, poor condition
173 Pink Tabebuia/Tabebuia heterophylla	9" dsh 20'hx8'w	npr	poor	Remove	remove, invasive exotic
174 Pink Tabebuia/Tabebuia heterophylla	4.7" dsh 25'hx6'w	npr	poor	Remove	remove, invasive exotic
175 Gumbo Limbo/Bursea simaruba	6.4" dsh 18'hx10'w	regulated	poor	Remove	codominant branches, remove Photo 20
176 Pink Tabebuia/Tabebuia heterophylla	8.4" dsh 25'hx12'w	npr	poor	Remove	remove, invasive exotic
177 Gumbo Limbo/Bursea simaruba	8.5" dsh 8'hx20'w	regulated	poor	Remove	remove, poor condition
178 Pink Tabebuia/Tabebuia heterophylla	5.2" dsh 18'hx6'w	npr	poor	Remove	leaning south, remove
179 Pink Tabebuia/Tabebuia heterophylla	8.9" dsh 23'hx12'w	npr	poor	Remove	under concrete walkway, remove
180 Crinum Lilly/Crinum spp.	2 plants 3' oa	npr	fair	Remove	remove
181 Green Thatch Palm/Thrinax radiata	6' oa	regulated	good	Transplant	transplant, see L3.00</



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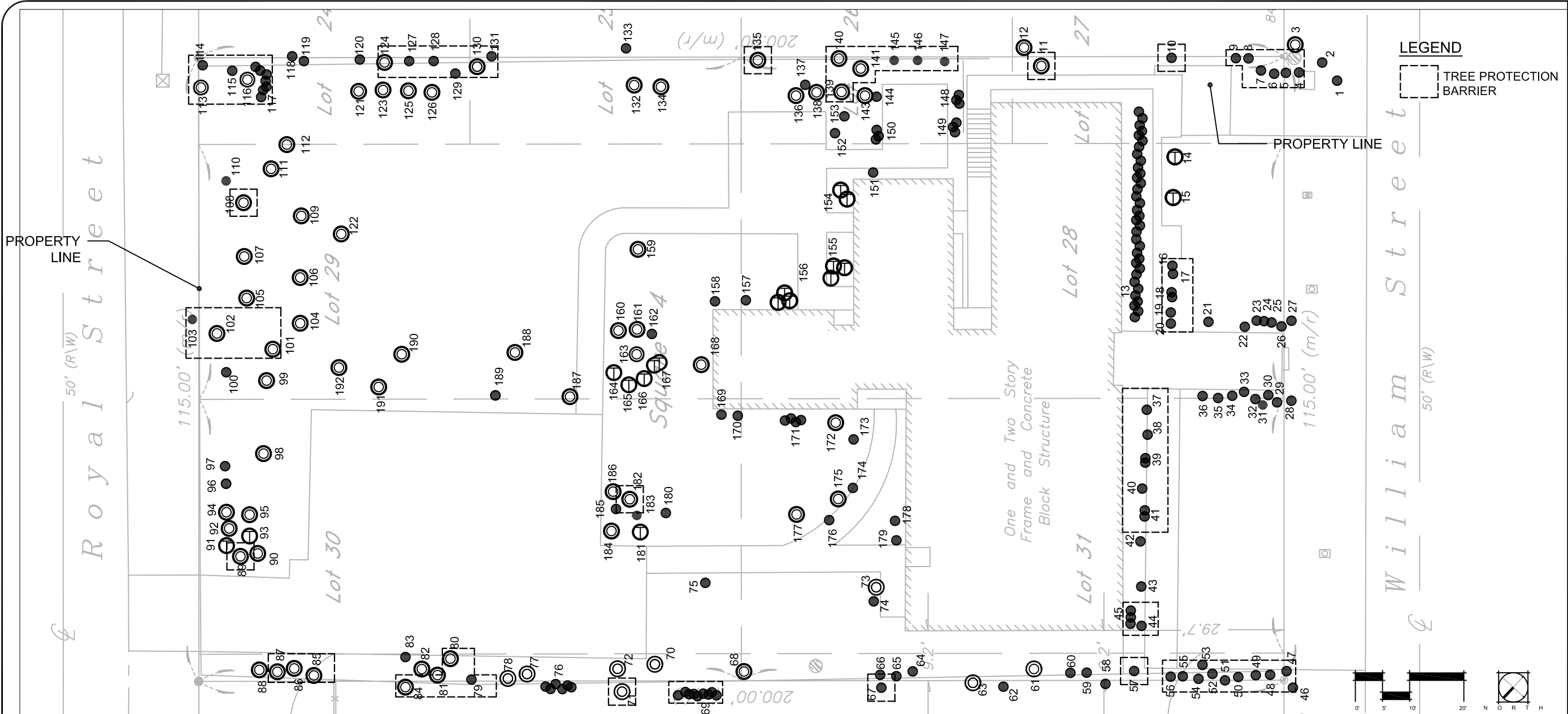
DRAWING NUMBER

**L.003**

DRAWING NAME  
TREE PHOTOS

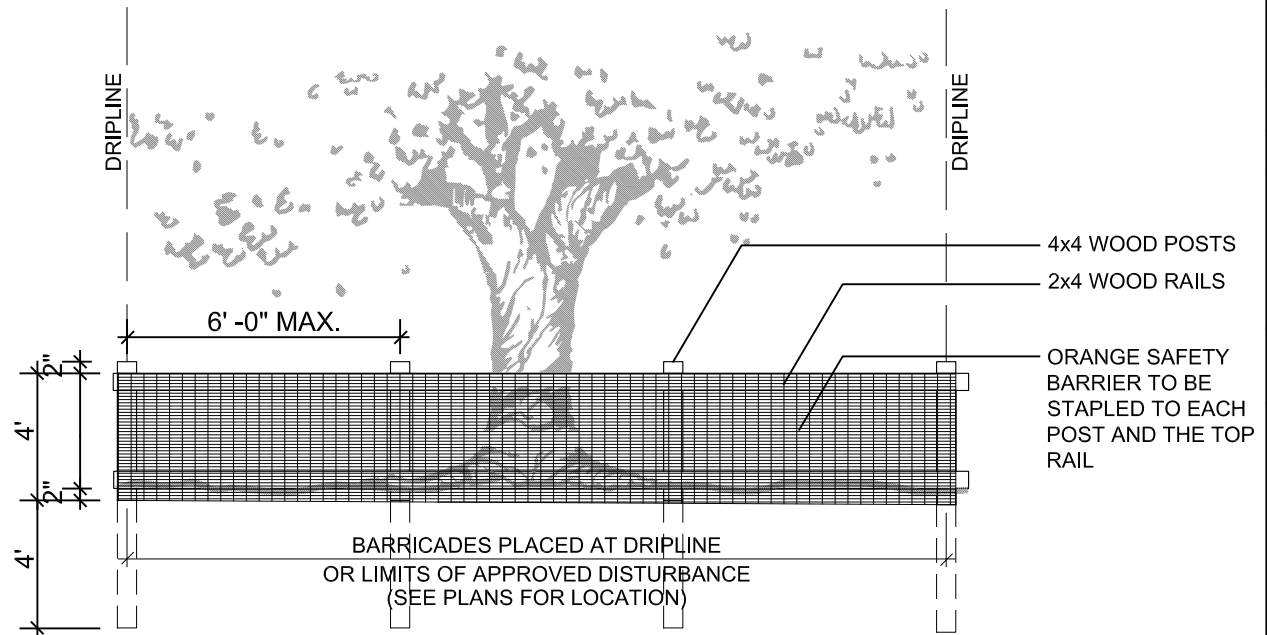


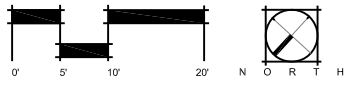
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### TREE PROTECTION AND PRESERVATION NOTES

1. Protect designated existing trees scheduled to remain against:
  - Unnecessary cutting, breaking, or skinning of roots
  - Skinning and bruising of bark
  - Smothering of trees by stockpiling construction or excavation materials within protection barrier
2. Protection barriers (tree barricades) shall be plainly visible and shall create a continuous boundary around trees or vegetation clusters in order to prevent encroachment within the barricade.
3. For all trees to be preserved, see Tree Protection and Barricade Elevation detail.
4. No grade changes shall be made within the protective barrier zones without prior approval.
5. The method of protection is to make certain that 50% of the area under the canopy dripline remains undisturbed (no grade change or root cut) and there shall be no disturbance to the root plate.
6. General contractor shall be responsible for the replacement and mitigation costs of trees damaged beyond repair that have been identified as protected and preserved. If trees are harmed through lack of protection or through negligence on the part of the contractor, the contractor shall bear the burden of the cost of repair or replacement.
7. Root pruning shall be done by or under 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.
8. No root pruning shall be done within a distance of 3x the diameter the tree unless authorized by the arborist.
9. No more than 30% of the trees roots may be pruned.
10. A pruning trench shall be cleared in a way that exposes the roots while leaving them intact. Use hand tools or an air knife. Limits of trench to be determined by the arborist.
11. All roots outside of the protective barricade to be removed during the development shall be severed clean using a sharp tool to provide a clean cut. Roots shall be left with clean smooth ends and no ragged edges and a two-inch layer of mulch shall be applied over the surface of exposed roots during development within one hour of damage or exposure.
12. After pruning, tree roots shall be covered and kept moist. Fill pruning trench with topsoil and water daily for a period determined by the arborist.

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**NOTES:**

1. TOTAL LANDSCAPE AREA SHALL BE A MINIMUM OF 20% THE TOTAL SITE AREA.
2. \*ALL SIMPSONS STOPPER (MYRICANTHES FRAGANS) SHALL NOT BE HEDGED AND MUST BE MAINTAINED AT 5' HT MIN.
3. ALL 100% LANDSCAPE MATERIALS USE TO BE NATIVE
4. PALM TREES USED IS 25% OF ALL TREES PROPOSED.
5. TEMPORARY IRRIGATION TO BE PROVIDED DURING PLANT ESTABLISHMENT.
6. NO ROOTS ARE TO BE CUT DURING THE INSTALLATION OF IRRIGATION.

[illegible]







## ZONE CHART

ZONE	PLANT (TYPE)	IRRIGATION (TYPE)	WATER (DEMAND)	PRECIP. (RATE)	APPLIC. (IN. PER WEEK REQ.)	GPM (GPM)	MINUTES (PER CYCLE)	TOTAL (GALLONS)
1	PLANT	DRIP	LOW	1.5	0.5	15	10	150
2	PLANT	DRIP	LOW	1.5	0.5	12	10	120
3	PLANT	DRIP	LOW	1.5	0.5	13	10	130
						40	30	400

TOTAL GPM PER RUN CYCLE

**TOTAL GPM PER WEEK**  
(PEAK WEEKLY DEMAND)

THE RUN TIMES SHOWN FOR THE ZONE IS FOR ONE RUN CYCLE AND WILL PROVIDE HALF THE REQUIRED AMOUNT OF WATER NEEDED PER WEEK. TWO RUN CYCLES PER WEEK ARE REQUIRED TO PROVIDE THE TOTAL WEEKLY REQUIREMENT. ALL RUN TIMES SHALL BE SET TO FOLLOW THE CURRENT WATER MANAGEMENT DISTRICT REGULATIONS AND REDUCED TO ONLY ONE RUN TIME PER WEEK WHEN RESTRICTED BY DAYLIGHT SAVINGS TIME OR WATER RESTRICTIONS. THE ZONE CHART IS PROVIDED AS A GENERAL OUTLINE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE TO SET THE RUN TIMES BASED ON THE SPECIFIC SITE CONDITIONS AND PLANT REQUIREMENTS. THIS SHALL INCLUDE, BUT NOT LIMITED TO, SOIL TYPE, DRAINAGE, SLOPES, SUN EXPOSURE AND THE ESTABLISHMENT PERIOD. THE TOTAL GPM REQUIRED PER YEAR WILL BE LESS THAN THE PEAK DEMAND PER WEEK TIMES 52 WEEKS, BASED ON THE RUN TIMES BEING REDUCED BY SENSORS AND A REDUCED WATER DEMAND IN THE WINTER MONTHS.

## GENERAL NOTES

- 1) INSTALL ALL DRIP TUBING AT GROUND LEVEL AFTER PLANT INSTALLATION. INSTALL NETA-FIM TLS6 U SHAPED WIRE STABILIZERS A MIN. OF 4' O.C. TO HOLD THE LINES IN PLACE.
- 2) KEEP ALL DRIP LINE CLEAN AT ALL TIMES BEFORE THE FINAL CONNECTION. ALL TUBE ENDS SHALL BE INTERCONNECTED TO ALL OTHER DRIP TUBES. DO NOT DEAD END TUBING. SINGLE ROWS SHALL HAVE A END CAP AND NOT BENT OVER OR TAPED.
- 3) AVOID SHARP BENDS IN THE TUBING. DO NOT BEND THE TUBING WITH LESS THEN A 12" RADIUS. THERE SHALL NOT BE ANY KINKS IN THE TUBING.
- 4) ALL DRIP TUBING SHALL HAVE UNIFORM SPACING AND BURIAL DEPTH. THE PLAN DOES NOT ALWAYS REFLECT THE EXACT SPACING OR LAYOUT OF THE TUBING. LAYOUT THE TUBING DOWN THE LONGEST WIDTH WHEN POSSIBLE. ADAPT THE TUBING TO CURVED BEDS OR PLANTERS AS REQUIRED. ADJUST AND ADAPT THE TUBING FOR ALL TREES. REFER TO THE TREE DRIP RING DETAIL.
- 5) INSTALL DRIP TUBING TO ALL AREAS THAT SHALL RECEIVE PLANT MATERIAL.  
SEE THE LANDSCAPE PLAN FOR THE EXACT LOCATIONS. THERE SHALL BE A MINIMUM OF TWO ROWS OF TUBING ON A SINGLE ROW OF PLANTS.
- 6) SPACE TUBING AS NOTED ON THE PLAN. DO NOT SNAKE TUBING BACK AND FORTH EXCEPT WHERE SHOWN ON THE PLAN. ALWAYS INSTALL A HEADER PIPE UNLESS THE TOTAL GALLONAGE OF AN AREA IS 3 GPM OR LESS.
- 7) REFER TO THE MANUFACTURERS DRIP INSTALLATION MANUAL FOR INSTALLATION INSTRUCTIONS. ALL FITTINGS SHALL BE THE SAME TYPE AND MANUFACTURER AS THE DRIP TUBING.
- 8) ALWAYS FLUSH ALL LINES BEFORE FINAL CONNECTION.
- 9) INSTALL A "SYSTEM ON" INDICATOR FLAG ON EVERY ZONE WHERE IT IS SEEN FROM THE CONTROL VALVE.
- 10) ALL MAINLINE PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 18" OF COVER. ALL LATERAL PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 12" OF COVER.
- 11) ALL CONTROL WIRES SPLICES SHALL BE MADE IN VALVE BOXES USING 3M DBR-Y CONNECTORS AND SEALANT AND ALL WIRE SHALL BE 14 GAUGE, EXCEPT AS DETAILED FOR TWO-WIRE SYSTEMS.
- 12) ANY PIPING SHOWN OUTSIDE THE PROPERTY LINE OR RUNNING OUTSIDE A LANDSCAPE AREA IS SHOWN THERE FOR CLARITY ONLY. ALL LINES SHALL BE INSTALLED ON THE PROPERTY AND INSIDE THE LANDSCAPE AREAS OR INSIDE A SCH. 40 SLEEVE.
- 13) THE CONTRACTOR SHALL EXERCISE CARE SO AS NOT TO DAMAGE ANY EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REPAIRS AND COST OF ANY DAMAGE CAUSED BY THEIR WORK.
- 14) INSTALL FLUSH VALVES WHERE SHOWN AT THE ENDS OF EACH RUN OF DRIP TUBING AND ONE FOR EVERY 15 GPM OF TUBING.
- 15) CLEARLY AND NEATLY MARK THE TOP OF EACH VALVE BOX WITH THE TYPE OF EQUIPMENT THAT IT CONTAINS. (I.E. VALVE, FLUSH VALVE, ETC.)
- 16) THE DRIP ZONE VALVE ASSEMBLY SHALL BE PLACED INSIDE AN ARMOR JUMBO VALVE BOX. THE VALVE SHALL BE INSTALLED AS PER THE DETAIL ON THE PLANS.
- 17) THE DRIP TUBING SHALL HAVE EMITTERS EVERY 12" AND SHALL BE SPACED 12" APART IN GROUND COVER BEDS AND A MINIMUM OF TWO RUNS FOR EACH ROW OF SHRUBS WHEN THE SHRUBS ARE SPACED FARTHER THAN 2' ON CENTER.
- 18) REFER TO THE ZONE CONTROL KIT DETAIL FOR FILTER SIZES.
- 19) THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THEIR WORK WITH THE LANDSCAPE CONTRACTOR.
- 20) REFER TO THE LANDSCAPE PLANS WHEN TRENCHING TO AVOID TREES AND SHRUBS. HAND DIG AROUND ANY EXISTING TREES. DO NOT CUT ANY ROOTS OVER 2" IN DIAMETER.
- 21) THE CONTRACTOR SHALL PREPARE AN AS-BUILT DRAWING SHOWING ALL IRRIGATION INSTALLATION. THE CONTRACTOR SHALL NEATLY MARK IN RED INK ON WHITE BOND PAPER ANY INSTALLATION THAT DEVIATES FROM THE PLAN. THE AS-BUILT DRAWING SHALL ALSO LOCATE ALL MAINLINE AND VALVES BY SHOWING EXACT MEASUREMENTS FROM HARD SURFACES. MEASUREMENTS SHALL BE MARKED ON THE PLAN EVEN WHEN THE EQUIPMENT IS INSTALLED IN THE EXACT LOCATION AS THE PLAN.
- 22) ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE AGAINST ALL DEFECTS IN EQUIPMENT AND WORKMANSHIP. (OR AS OUTLINED IN THE WRITTEN SPECIFICATIONS)
- 24) 48 HOURS BEFORE DIGGING, CALL 1-800-432-4770 (SUNSHINE STATE ONE CALL CENTER)

1316 ROYAL STREET  
KEY WEST, FLORIDA

[illegible]

PROJECT NUMBER

DRAWING NUMBER

# L.401

DRAWING NAME

## IRRIGATION DETAILS

Diagram illustrating the installation of Rainbird Xeri-Bubblers and Netafim Dripline Loop on a tree root ball.

The diagram shows a cross-section of a tree root ball with a diameter of 12". A Netafim Dripline Loop is installed around the perimeter of the root ball. Three Rainbird Xeri-Bubblers are installed along the dripline loop, spaced evenly around the tree.

Labels in the diagram include:

- DRIP TUBING/PVC LATERAL
- RAINBIRD XERI-BUBBLER
- INSTALL THREE RAINBIRD XERI-BUBBLERS (UXB-360) 0-35 GPH ON ALL CANOPY TREES AND ANY TREE 65 GALLON OR LARGER (1 TO 2 GPM) OR AS REQUIRED TO PROVIDE PROPER COVERAGE.
- TREE ROOT BALL
- NETAFIM DRIPLINE LOOP

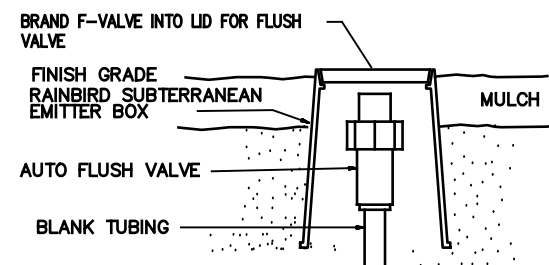
Dimensions shown:

- 6" (height of the dripline loop above the root ball)
- 12" (diameter of the tree root ball)

A schematic diagram of a drip irrigation system. A horizontal line at the top is labeled "DRIp TUBING". Below it is a thick black horizontal band labeled "MULCH". A vertical pipe, labeled "3/4\" SCH. 40 PVC NIPPLE", passes through the mulch. At the point where it enters the mulch, there is a "BARB TEE ADAPTER". Below the mulch, the vertical pipe is connected to a horizontal pipe via a "3/4\" ELBOW". This horizontal pipe is labeled "PVC PIPE TO VALVE".

The diagram illustrates a water pump assembly. The top part is a **PLAN VIEW** showing the pump's footprint, including a circular impeller housing and two horizontal discharge pipes. The bottom part is a **CROSS-SECTION VIEW** showing the pump installed in a concrete foundation. The pump is mounted on a base (1) and driven by an electric motor (2). The impeller (3) is connected to the motor shaft. The pump housing (4) is surrounded by a concrete foundation (6). The foundation is reinforced with rebar (7) and has a drainage system (8) at the bottom. The pump is connected to a water supply line (9) and a discharge pipe (10). The diagram is labeled with numbers 1 through 10.

REFER TO THE DECODER DETAILS FOR TWO-WIRE SYSTEMS  
FOR DECODERS, WIRE SPECIFICATIONS AND WIRE NUTS.



INDICATOR FLAG

SUPER FLEX UV WHITE TUBING

STAKE

FINISH GRADE

BARB x BARB CONNECTOR

TUBING

EXISTING SOIL

COMPACT THE BACKFILL TO AVOID SETTLING

LATERAL OR MAINLINE

12" FOR LATERAL PIPE AND 18" FOR THE MAIN.

CONTROL WIRES

The diagram illustrates a cross-section of a trench. At the top, a horizontal line represents the ground surface, labeled 'EXISTING SOIL'. Below this, the trench is filled with backfill, indicated by a cross-hatched pattern. A label 'COMPACT THE BACKFILL TO AVOID SETTLING' points to this area. In the center of the trench is a circular pipe. A label 'LATERAL OR MAINLINE' points to the pipe. Below the pipe, there are small circles representing 'CONTROL WIRES'. To the right of the pipe, a vertical dimension line indicates the required depth of the trench: '12" FOR LATERAL PIPE AND 18" FOR THE MAIN.'

RAIN SENSOR

ATTACH TO BUILDING

SEE INSERT FOR CONTINUATION TO HUNTER MINI-CLIK

CONTROLLER

WALL OF BUILDING

GROUND ROD

CADWELD PLUS ONE SHOT.

EXTEND PAST EAVE OF BLDG.

ELECTRICAL CONDUIT 120 V.

PVC CONDUIT TO THE START OF THE MAINLINE. PLACE WIRES UNDER MAINLINE OR INSIDE CONDUIT.

GROUND WITH 5/8" X 8' COPPER COATED RODS TO 10 OHM'S OR LESS. MAKE CONNECTION WITH CADWELD PLUS ONE SHOT.

VALVE BOX/GROUND RODS. INSTALL A MIN. OF 8' FROM CONTROLLER AND 8' APART.

\* WIRE AS PER LOCAL CODE  
\* PLACE THE RAIN SENSOR TO RECEIVE RAIN FROM ALL DIRECTIONS.

CONTROLLER DETAIL

[illegible]

L.402

DRAWING NAME
IRRIGATION DETAILS

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