

SECTION NO(S): 86065000
S.R. NO.(S): 845
COUNTY: Broward
PERMIT NO.: 2017-L-491-015

**DISTRICT FOUR (4) AMENDMENT NUMBER FOURTEEN (14) TO STATE
OF FLORIDA DEPARTMENT OF TRANSPORTATION LANDSCAPE INCLUSIVE
LANDSCAPE MAINTENANCE MEMORANDUM OF AGREEMENT**

This is Amendment Number Fourteen (14) to the Agreement dated December 5, 2007, made and entered into this _____ day of _____ 20____ by and between the State of Florida Department of Transportation hereinafter called the "DEPARTMENT" and the CITY OF POMPANO BEACH, a municipal corporation of the State of Florida, hereinafter called the "AGENCY".

WHEREAS, the parties entered into the Inclusive Landscape Maintenance Memorandum of Agreement dated December 5, 2007 for the purpose of maintaining the landscape improvements by the AGENCY on various State Road(s) including State Road 845 (Powerline Road); and

WHEREAS, the DEPARTMENT and the AGENCY have agreed to add additional landscape improvements to be installed on State Road 845 (Powerline Road) in accordance with the above referenced Agreement;

NOW THEREFORE, for and in consideration of mutual benefits that flow each to the other, the parties covenant and agree as follows:

1. Pursuant to paragraph 1, page 1 of the Amendment Number Six (6) Landscape Inclusive Maintenance Memorandum of Agreement for State Road 845 (Powerline Road) dated August 9, 2013, the DEPARTMENT will allow an adjacent property owner to construct additional landscape improvements or to modify and improvement located as indicated in **Exhibit "A"**, State road 845 (Powerline Road) from McNab Road (M.P. 5.114) to M.P. 5.171, in accordance with the plans attached as **Exhibit "B"**.
2. The AGENCY shall agree to maintain the additional landscape improvements (which includes plant materials and irrigation) in the Inclusive Landscape Maintenance memorandum of Agreement described above and as provided in accordance with **Exhibit "F"** of the original Maintenance Plan.

Except as modified by this Amendment, all terms and conditions of the AGEEMENT shall remain in full force and effect.

LIST OF EXHIBITS

Exhibit A - Landscape Improvements Limits and Maintenance Boundaries and
Location Map

Exhibit B – Landscape Improvement Plan

In Witness whereof, the parties hereto have executed with this Amendment
effective the _____ day _____ year written and approved.

CITY OF POMPANO BEACH

By: _____
Chairperson/Mayor/Manager

Attest: _____ (SEAL)
Clerk

Legal Review Date

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

By: _____
Transportation Development Director

Attest: _____ (SEAL)
Executive Secretary

Legal Review Date

Office of the General Counsel

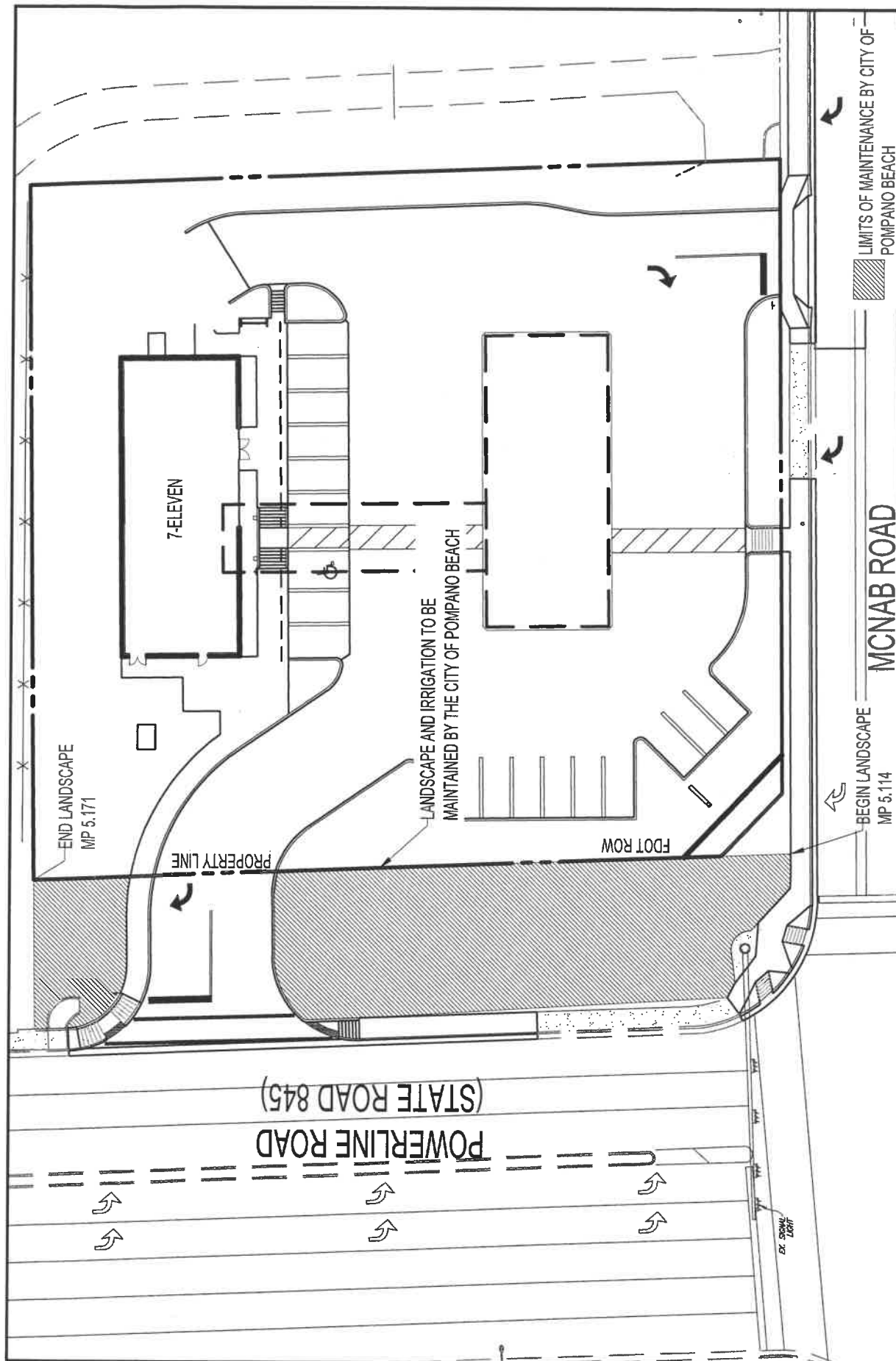
SECTION NO(S): 86065000
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PERMIT NO.: 2017-L-491-015

EXHIBIT A

LANDSCAPE IMPROVEMENTS LIMITS AND MAINTENANCE BOUNDARIES

- I. PERMIT PROJECT LANDSCAPE IMPROVEMENTS MAINTENANCE LIMITS:
State Road 845 (Powerline Road) from McNab Road (M.P. 5.114) to M.P. 5.171
- II. INCLUSIVE LANDSCAPE MAINTENANCE AGREEMENT LIMITS FOR STATE ROAD 845 (Powerline Road):
State Road 845 (Powerline Road from McNab Road (M.P. 5.113) to Atlantic Boulevard (M.P. 9.612)
- III. LANDSCAPE IMPROVEMENTS MAINTENANCE BOUNDARY LIMITS MAP:
 - All other limits within the other State Roads shall remain the same.(All other maintenance boundaries of original agreement apply)

Please See Attached



PROJECT: 7-ELEVEN

NEC OF POWERLINE RD (SR 845) AND MCNAB RD

PROJECT NO: F160069 DATE: 4/10/18

PREPARED BY: DA SCALE: 1" = 40'

FDOT LANDSCAPE PERMIT NO.: 2017-L-491-015

LANDSCAPE IMPROVEMENT MAINTENANCE BOUNDARY MAP



1000 CORPORATE DRIVE, SUITE 250, FT LAUDERDALE, FL 33334 - TEL: (954)202-7000

\\THOMAS-FDC\PROJECTS\2016\INTERPLAN\F160069 - 7-ELEVEN, POMPANO BEACH\DWG\CONSTRUCTION SET - 2018-01-19\LANDSCAPE EXHIBIT-----LAYOUT: STORM
Printed on Monday, May 14, 2018, 10:15 AM by Daniela Alvarez

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EXHIBIT B
LANDSCAPE IMPROVEMENT PLANS

The AGENCY agrees to install the landscape improvements in accordance with the plans and specifications attached hereto and incorporated herein.

Please see attached plans prepared by: Thomas Engineering Group
Michael D. Grosswirth, RLA

Date: June 8, 2018

[illegible]

NOTE: ALL TREES ON SITE, WITH THE EXCEPTION OF TREE #S 2 & 3, ARE TO BE PROTECTED DURING DEMOLITION PER THE DETAIL ON THIS SHEET. TREE REMOVAL PERMIT SHALL BE OBTAINED BY QUALIFIED LANDSCAPE CONTRACTOR SUBSEQUENT TO BUILDING PERMIT. TREE #S 2 & 3 MAY BE REMOVED DURING DEMOLITION PHASE.

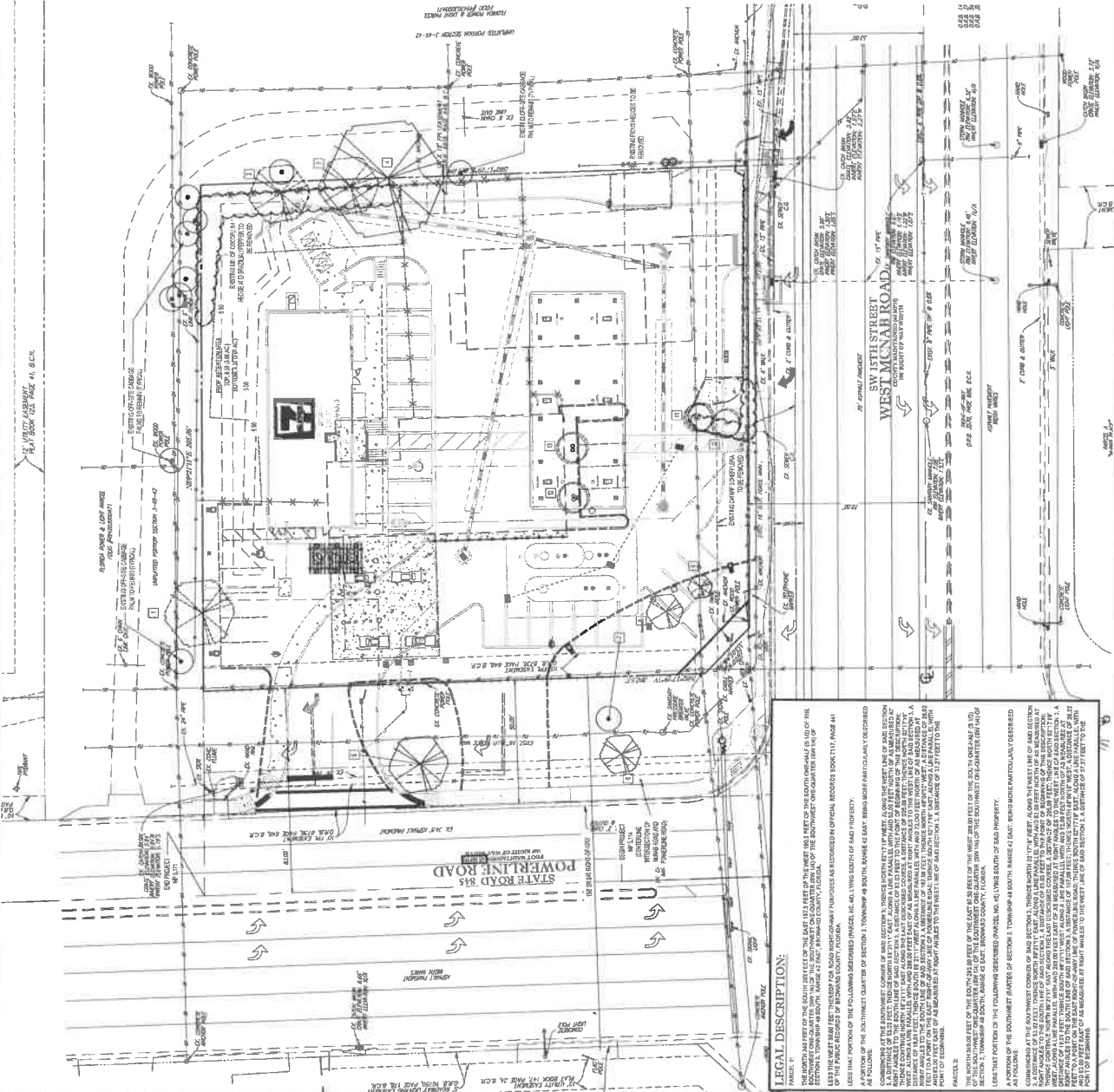


Michael D
Grosswirth

Digitally signed by Michael D Grosswirth
DN: c=US, o=Thomas Engineering Group
LLC, ou=Thomas Engineering Group LLC,
cn=Michael D Grosswirth,
0.9.2342.19200300.100.1.1=A01097C060
001547665DE80001D9FC
Date: 2018.08.08 16:36:15 -0400

GENERAL NOTES:

- Contractor is responsible for determining all utility locations and installing facilities so as to not interfere with existing utilities or improvements installed by Contractor will be applied at no additional cost to the Owner.
- Contractor to notify Shirley Sue Oell of Call Center, Inc. at 1-800-433-4730 Two Full Business Days prior to digging for underground utility locations.
- Contractor shall be responsible for providing that grading of all associated planting areas. Contractor shall be responsible for the removal of a depth and all rock, foreign, inorganic material removed and replaced with good quality topsoil.
- Tree preservation techniques will be provided by Landscaping Contractor during existing trees shall be preserved by the proposed construction. Prior to any construction a tree conservation biologist inspection shall be conducted. The biologist will provide recommendations on tree preservation and tree preservation techniques.
- All invasive exotic plant species (e.g. Brazilian Peppercorn, Bittersweet, Garlic, etc.) shall be removed.



LEGAL DESCRIPTION:

[illegible]

PARCEL 4:
THE NORTH 240 FEET OF THE SOUTH 203 FEET OF THE EAST 157.5 FEET OF THE WEST 190.3 FEET OF THE SOUTH ONE-HALF (S 1/2) OF THE

SOUTHWEST ONE-QUARTER (SW 1/4) OF THE SOUTHWEST ONE-QUARTER (SW 1/4) OF SECTION 3, TOWNSHIP 49 SOUTH, RANGE 42 EAST, HIGHLAND COUNTY, FLORIDA.

LESS THE FIRST 50.00 FEET THEREOF FOR ROAD RIGHT-OF-WAY PURPOSES AS RECORDED IN OFFICIAL RECORDS BOOK 7117, PAGE 441 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

LESS THAT PORTION OF THE FOLLOWING DESCRIBED (PARCEL NO. 40), LYING SOUTH OF SAID PROPERTY, A PORTION OF THE SOUTHWEST QUARTER OF SECTION 2, TOWNSHIP 48 SOUTH, RANGE 42 EAST, BEING MORE PARTICULARLY DESCRIBED

ALL FOLLOWS:
COMMENCING AT THE SOUTHWEST CORNER OF SAID SECTION 3; THENCE NORTH 02°17'18" WEST, ALONG THE WEST LINE OF SAID SECTION

[illegible][illegible]

FEET TO EAST ON THE EAST RIGHT-OF-WAY LINE OF POWERLINE ROAD; THENCE SOUTH 02°17'18" EAST, ALONG A LINE PARALLEL WITH AND 10.00 FEET EAST OF THE EAST RIGHT-OF-WAY LINE OF POWERLINE ROAD, A DISTANCE OF 37.27 FEET TO THE POINT OF BEGINNING.

PART 2

THE NORTH 24.00 FEET OF THE SOUTH 24.00 FEET OF THE EAST 47.50 FEET OF THE WEST 288.00 FEET OF THE SOUTH ONE-HALF (S 1/2) OF THE SOUTHWEST ONE-QUARTER (SW 1/4) OF THE SOUTHWEST ONE-QUARTER (SW 1/4) OF SECTION 3, TOWNSHIP 48 SOUTH, RANGE 43 EAST, BROWARD COUNTY, FLORIDA.

LESS THAT PORTION OF THE FOLLOWING DESCRIBED (PARCEL NO. 48) LYING SOUTH OF SAID PROPERTY.

A PORTION OF THE SOUTHWEST QUARTER OF SECTION 3, TOWNSHIP 48 SOUTH, RANGE 42 EAST, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

3. A DISTANCE OF \$2.07 FEET; THENCE NORTH 89°21'15" EAST, ALONG A LINE PARALLEL WITH AND \$3.65 FEET NORTH OF AS MEASURED AT THE SOUTHWEST CORNER OF SAID SECTION 3; THENCE NORTH 02°17'41" WEST, ALONG THE WEST LINE OF SAID SECTION 3 TO THE POINT OF BEGINNING; A DISTANCE OF \$3.65 FEET TO THIS POINT OF BEGINNING OF THIS DESCRIPTION;

NORTH ANGLES TO THE SOUTH LINE OF SAID SECTION 3.

THESE CONTINUE NORTH 89°21'11" EAST ALONG THE LAST DESCRIBED COURSE, A DISTANCE OF 304.00 FEET; THENCE NORTH 92°17'10" WEST, ALONG A LINE PARALLEL WITH AND 205.00 FEET EAST OF AS MEASURED AT RIGHT ANGLES TO THE WEST LINE OF SAID SECTION 3, A DISTANCE OF 150.01 FEET; THENCE SOUTH 89°21'11" WEST ALONG A LINE PARALLEL WITH AND 72.00 FEET TO THE WEST AS MEASURED AT

RIGHT ANGLE TO THE SOUTH LINE OF SAID SECTION 3, A DISTANCE OF 187.06 FEET; THENCE NORTH 46°04'18" WEST, A DISTANCE OF 261.93 FEET TO THE EAST RIGHT-OF-WAY LINE OF POWERLINE ROAD; THENCE SOUTH 62°17'18" EAST, ALONG A LINE PARALLEL WITH AND 61.00 FEET EAST OF AS MEASURED A RIGHT ANGLES TO THE WEST LINE OF SAID SECTION 2, A DISTANCE OF 17.32 FEET TO THE

POINT OF BEGINNING.

[illegible][illegible]

ARCEL 2:
THE NORTH 32.00 FEET OF THE SOUTH 32.00 FEET OF THE EAST 1/4 OF THE WEST 3/4 OF THE SOUTH ONE-QUARTER (S 1/4 OF THE NORTHWEST ONE-QUARTER (SW 1/4) OF THE SOUTHWEST ONE-QUARTER (SW 1/4) OF THE SOUTHWEST ONE-QUARTER (SW 1/4) OF TOWNSHIP 48 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA.
LESS THAT PORTION OF THE FOLLOWING DESCRIBED (PARCEL NO. 48) LYING SOUTH OF SAID PROPERTY.
PORTION OF THE SOUTHWEST QUARTER OF SECTION 3, TOWNSHIP 48 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA.

STRUCTURALLY PRUNED BY AN ISA CERTIFIED ARBORIST.

ALL EXISTING CANOPY TREES TO REMAIN SHALL BE
STRUCTURALLY REINFORCED BY AN ISA CERTIFIED ARBORIST

Journal of Management Inquiry

TABLE NO.	BOTANICAL NAME	HT (m)	SPR (m)	DEH (mm)	DISE POSITION
4	<i>Sedum album</i>	60	60	20	REMAIN
5	<i>Verbena officinalis</i>	40	40	15	REMAIN
6	<i>Verbena officinalis</i>	45	45	15	REMAIN
7	<i>Salvia rosmarinifolia</i>	22-24	22	25	REMAIN

2000

IT IS RECOMMENDED TO HAVE A
PRE-CONSTRUCTION MEETING WITH THE
URBAN FORESTER PRIOR TO
COMMENCEMENT OF ANY LANDSCAPE
WORK OR SITE WORK AFFECTING EXISTING
TREES. CONTACT WADE COLLUM AT
954-545-7766 or wade.collum@coofpb.com

NOTE: ALL ABOVE GROUND MECHANICAL EQUIPMENT SUCH AS, BUT NOT LIMITED TO, EXTERIOR UTILITY BOXES, METERS, AND TRANSFORMERS NOT CURRENTLY KNOWN OR DEPICTED SHALL BE VISUALLY SCREENED A MINIMUM OF 6" ABOVE TOP OF EQUIPMENT. BACK FLOW PREVENTERS SHALL BE PAINTED TO MATCH THE PRINCIPAL STRUCTURE.

1955

555

SPECIES NAME	SPECIES CODE	SPECIES TYPE	SPECIES ORG.	SPECIES SUBSTR.	SPECIES HABITAT	SPECIES NATIVE	SPECIES XEROIC	REMARKS
11	11	Quercus	Quercus agrifolia	11	11	11	11	11
12	12	Quercus	Quercus agrifolia	12	12	12	12	12
13	13	Quercus	Quercus agrifolia	13	13	13	13	13
14	14	Quercus	Quercus agrifolia	14	14	14	14	14
15	15	Quercus	Quercus agrifolia	15	15	15	15	15
16	16	Quercus	Quercus agrifolia	16	16	16	16	16
17	17	Quercus	Quercus agrifolia	17	17	17	17	17
18	18	Quercus	Quercus agrifolia	18	18	18	18	18
19	19	Quercus	Quercus agrifolia	19	19	19	19	19
20	20	Quercus	Quercus agrifolia	20	20	20	20	20
21	21	Quercus	Quercus agrifolia	21	21	21	21	21
22	22	Quercus	Quercus agrifolia	22	22	22	22	22
23	23	Quercus	Quercus agrifolia	23	23	23	23	23
24	24	Quercus	Quercus agrifolia	24	24	24	24	24
25	25	Quercus	Quercus agrifolia	25	25	25	25	25
26	26	Quercus	Quercus agrifolia	26	26	26	26	26
27	27	Quercus	Quercus agrifolia	27	27	27	27	27
28	28	Quercus	Quercus agrifolia	28	28	28	28	28
29	29	Quercus	Quercus agrifolia	29	29	29	29	29
30	30	Quercus	Quercus agrifolia	30	30	30	30	30
31	31	Quercus	Quercus agrifolia	31	31	31	31	31
32	32	Quercus	Quercus agrifolia	32	32	32	32	32
33	33	Quercus	Quercus agrifolia	33	33	33	33	33
34	34	Quercus	Quercus agrifolia	34	34	34	34	34
35	35	Quercus	Quercus agrifolia	35	35	35	35	35
36	36	Quercus	Quercus agrifolia	36	36	36	36	36
37	37	Quercus	Quercus agrifolia	37	37	37	37	37
38	38	Quercus	Quercus agrifolia	38	38	38	38	38
39	39	Quercus	Quercus agrifolia	39	39	39	39	39
40	40	Quercus	Quercus agrifolia	40	40	40	40	40
41	41	Quercus	Quercus agrifolia	41	41	41	41	41
42	42	Quercus	Quercus agrifolia	42	42	42	42	42
43	43	Quercus	Quercus agrifolia	43	43	43	43	43
44	44	Quercus	Quercus agrifolia	44	44	44	44	44
45	45	Quercus	Quercus agrifolia	45	45	45	45	45
46	46	Quercus	Quercus agrifolia	46	46	46	46	46
47	47	Quercus	Quercus agrifolia	47	47	47	47	47
48	48	Quercus	Quercus agrifolia	48	48	48	48	48
49	49	Quercus	Quercus agrifolia	49	49	49	49	49
50	50	Quercus	Quercus agrifolia	50	50	50	50	50
51	51	Quercus	Quercus agrifolia	51	51	51	51	51
52	52	Quercus	Quercus agrifolia	52	52	52	52	52
53	53	Quercus	Quercus agrifolia	53	53	53	53	53
54	54	Quercus	Quercus agrifolia	54	54	54	54	54
55	55	Quercus	Quercus agrifolia	55	55	55	55	55
56	56	Quercus	Quercus agrifolia	56	56	56	56	56
57	57	Quercus	Quercus agrifolia	57	57	57	57	57
58	58	Quercus	Quercus agrifolia	58	58	58	58	58
59	59	Quercus	Quercus agrifolia	59	59	59	59	59
60	60	Quercus	Quercus agrifolia	60	60	60	60	60
61	61	Quercus	Quercus agrifolia	61	61	61	61	61
62	62	Quercus	Quercus agrifolia	62	62	62	62	62
63	63	Quercus	Quercus agrifolia	63	63	63	63	63
64	64	Quercus	Quercus					

ITEM	COMMON NAME	SIZE	WHEEL UNIT COST	TOTAL COST
11	Casahuate trees and palms	10"	\$126.00	\$4,374.00
12	Green Buttonwood	10"	\$144.00	\$288.00
13	Green Buttonwood	14"	\$144.00	\$2,160.00
14	Silver Buttonwood	14"	\$126.00	\$2,160.00
15	Orange Coughler	10"	\$126.00	\$87.50
16	Orange Coughler	14"	\$126.00	\$1,008.00
17	Alamo	10"	\$220.00	\$1,584.00
18	Alamo	18-22"	\$220.00	\$1,584.00
19	Psychotria elegans	14"	\$210.00	\$1,470.00
20	Quercus virginiana	14"	\$210.00	\$840.00
21	Live Oak	18-22"	\$115.00	\$840.00
22	Sabal palm	18-22"	\$115.00	\$840.00
23	Palmetto	14"	\$210.00	\$840.00
24	Palmetto	14"	\$210.00	\$840.00
25	Pink Yucca	14"	\$210.00	\$840.00
26	Taleaha longispina	14"	\$210.00	\$840.00
27	Double Monstera Palm	14-16"	\$116.00	\$336.00
28	Double Monstera Palm	14-16"	\$116.00	\$336.00
TOTAL				\$12,240.00

Wholesale Prices Taken From Behrck's Plantfinder, May 2017 Edition

[illegible]

TABLE NO.	BOTANICAL NAME	HT (m)	SPR (m)	DEH (mm)	DISE POSITION
4	<i>Sedum album</i>	60	60	20	REMAIN
5	<i>Verbena officinalis</i>	40	40	15	REMAIN
6	<i>Verbena officinalis</i>	45	45	15	REMAIN
7	<i>Salvia rosmarinifolia</i>	22-24	22	25	REMAIN

2000

KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG

811

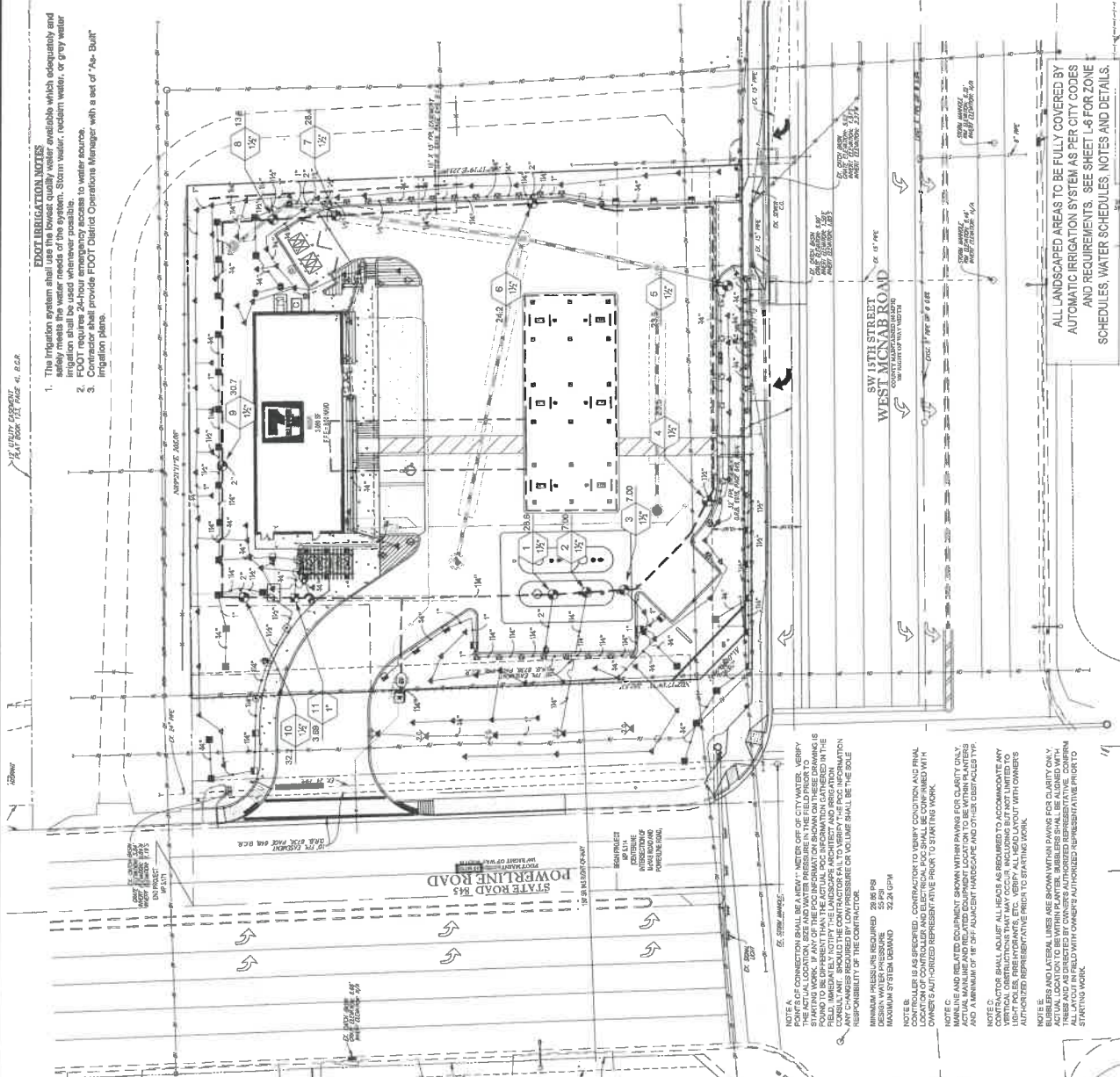
800-4-A-DIG
www.call811.org

THOMAS
TRANSCATIONS

RADICE III
1000 COMPAGNIE DRIVE, SUITE 250
FORT LAUDERDALE, FL 33354
PH: (954) 252-7000
FX: (954) 252-7070
www.ThomasEngineeringGroup.com

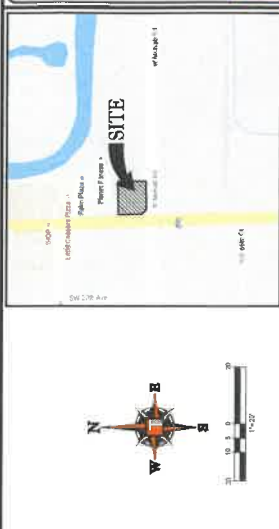
SHEET TITLE
LANDSCAPE PLAN

SHEET NUMBER
L-2



FDOT IRRIGATION NOTES

1. The Irrigation system shall use the lowest quality water available which adequately and safely meets the water needs of the system. Storm water, reclaimed water, or grey water irrigation shall be used whenever possible.
2. FDOT requires 24-hour emergency access to water source.
3. Contractor shall provide FDOT District Operations Manager with a set of "As-Built" irrigation plans.



LOCATION MAP

17-007

IRRIGATION SCHEDULE

SYMBOL

MANUFACTURER/MODEL/DESCRIPTION

New Bird 1000RIS 12 Strip Series

Turf Spray 6" pop-up with pressure regulator

Rain Bird 1000RIS 15 Strip Series

Turf Spray 6" pop-up with pressure regulator

Rain Bird 1000RIS 20 Strip Series

Turf Spray 6" pop-up with pressure regulator

Rain Bird 1000RIS 25 Series MPR

Turf Spray 6" pop-up with pressure regulator

Rain Bird 1000RIS 30 Series MPR

Turf Spray 6" pop-up with pressure regulator

Rain Bird 1000RIS 36 Series MPR

Turf Spray 6" pop-up with pressure regulator

Rain Bird 1000RIS 42 Series MPR

Turf Spray 6" pop-up with pressure regulator

Rain Bird 1000RIS 48 Series MPR

Turf Spray 6" pop-up with pressure regulator

Rain Bird 1000RIS 54 Series MPR

Turf Spray 6" pop-up with pressure regulator

Rain Bird 1000RIS 60 Series MPR

Turf Spray 6" pop-up with pressure regulator

Rain Bird 1000RIS 66 Series MPR

Turf Spray 6" pop-up with pressure regulator

Rain Bird 1000RIS 72 Series MPR

Turf Spray 6" pop-up with pressure regulator

Rain Bird 1000RIS 78 Series MPR

Turf Spray 6" pop-up with pressure regulator

QTY

225

5

30

33

30

4

30

1

30

42

30

4

30

83

40

QTY

225

5

30

33

30

4

30

42

30

4

796.5 x 1

[illegible]

Michael D
Grosswirth

Digitally signed by Michael D Grosswirth
DN: c=US, o=Grosswirth Engineering Group
LLC, email=M.D.Grosswirth@GEG-LLC.com,
0.2.5.29-2.1.2.0.0.0.10.1.1.1401097C000
04015476B98000109FC
Date: 2010.05.08 13:04:48 -0700



Width: 100mm Slot: 100mm
 Height: 100mm Slot: 100mm
 Depth: 100mm Slot: 100mm

Originally signed by Michael D Grosswirth
 DNE, CUS, or Thomas Engineering Group
 LLC, our Thomas Engineering Group
 LLC, c/michael D Grosswirth,
 2323421.120201301.103.1=0197C000
 00154709/DEU00001097C
 Date: 2010.08.08 8:49 -0400

Michael D Grosswirth

ENDOT PERMIT #2017-1 J04-015

0123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100

[illegible]

1

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	WIDE	DESIRED P&B	FRICTION LOSS	VALVE LOSS	DESIGN P&B	DESIGN LOSS	DESIGN P&B	DESIGN LOSS
1	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
2	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
3	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
4	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
5	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
6	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
7	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
8	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
9	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
10	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
11	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00

WATERING SCHEDULE

NUMBER	MODEL	SIZE	TYPE	WIDE	DESIRED P&B	FRICTION LOSS	VALVE LOSS	DESIGN P&B	DESIGN LOSS	DESIGN P&B	DESIGN LOSS
1	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
2	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
3	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
4	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
5	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
6	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
7	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
8	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
9	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
10	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
11	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00

CRITICAL ANALYSIS

NUMBER	MODEL	SIZE	TYPE	WIDE	DESIRED P&B	FRICTION LOSS	VALVE LOSS	DESIGN P&B	DESIGN LOSS	DESIGN P&B	DESIGN LOSS
1	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
2	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
3	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
4	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
5	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
6	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
7	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
8	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
9	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
10	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00
11	Ball Valve	1/2"	Ball Valve	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00

IRRIGATION NOTES

1. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.

2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE BEGINNING WORK. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.

3. THIS DESIGN IS DIAGNOSTIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.

4. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.

5. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.

6. ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

7. CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL SPARE WIRES AT BOTH ENDS.

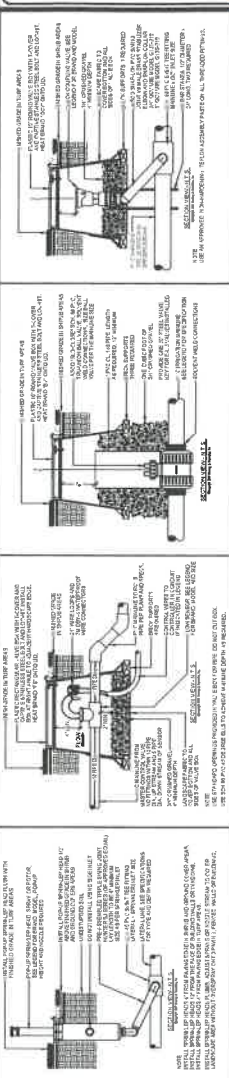
8. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR SLEEVING DETAILS. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.

9. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN 18" OF HARDSCAPE.

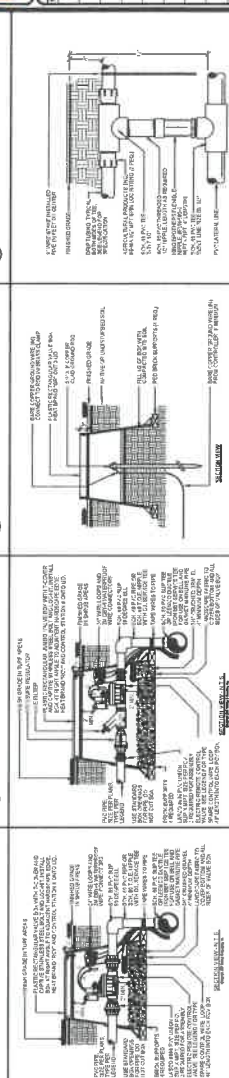
10. ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE P.LANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.

11. THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS. THOMAS ENGINEERING GROUP RECOMMENDS MEASURING FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.

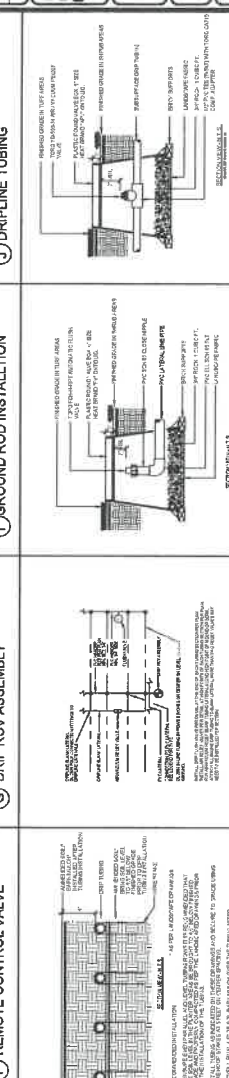
12. CONTRACTOR TO RE-CERTIFY EXISTING PUMP AND P&B IF APPLICABLE.



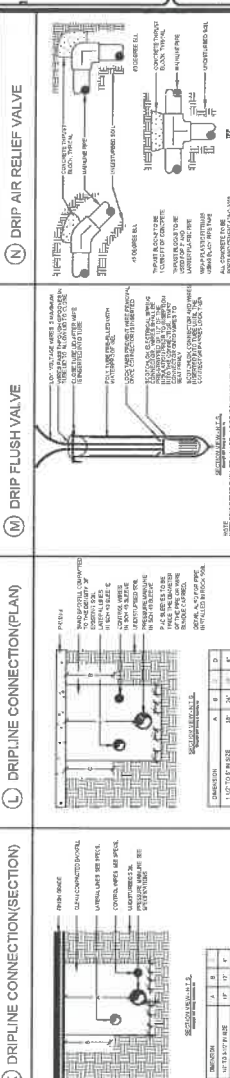
A) POP-UP SPRINKLER



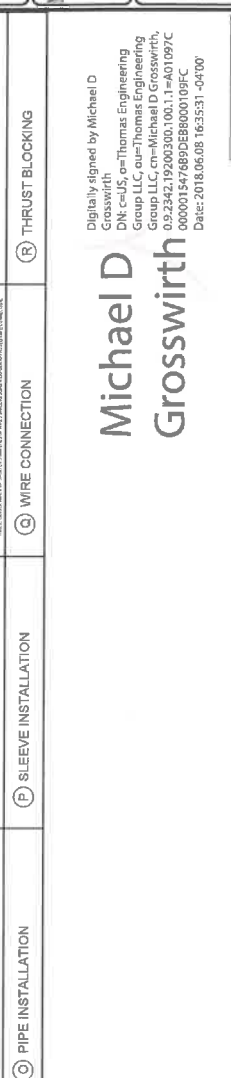
C) FLOW SENSOR



1) GROUND ROD INSTALLATION



G) DRIPLINE ASSEMBLY



F) REMOTE CONTROL VALVE



K) DRIPLINE CONNECTION (SECTION)

L) DRIPLINE CONNECTION (PLAN)

M) DRIPLINE FLUSH VALVE

N) DRIPLINE AIR RELIEF VALVE

Q) WIRE CONNECTION

P) SLEEVE INSTALLATION

C) PIPE INSTALLATION

R) THRUST BLOCKING

E) QUICK COUPLER VALVE

D) BALL VALVE

1) DRIPLINE TUBING

1) DRIPLINE TUBING

1) DRIPLINE TUBING

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