SECTION No.(s):	**861200000**
S.R. No.(s):	**810**
Permit No:	**2019-L-491-00007**
COUNTY:	**BROWARD**

DISTRICT FOUR (4) AMENDMENT NUMBER SEVEN (7) TO STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION LANDSCAPE INCLUSIVE MEMORANDUM OF AGREEMENT

THIS AMENDMENT Number Seven (7) to the Agreement dated May 27, 2009, made and entered into this 7th day of January 2020 by and between the State of Florida Department of Transportation hereinafter called the DEPARTMENT and the **CITY OF COCONUT CREEK**, a municipal subdivision of the State of Florida, hereinafter called the AGENCY.

WITHNESSETH

WHEREAS, the parties entered into the Landscape Inclusive Maintenance Memorandum of Agreement dated, May 27, 2009 for the purpose of maintaining the landscape improvements by the AGENCY on various roads including State Road 810 (Hillsboro Boulevard); and,

WHEREAS, the DEPARTMENT and the AGENCY have agreed to add additional landscape to be installed on State Road 810 (Hillsboro Boulevard) in accordance with the above referenced Agreement; and,

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 Page 7, Paragraph 8 of the Landscape Inclusive Maintenance Memorandum of Agreement for State Road 810 (Hillsboro Boulevard) dated May 27, 2009, the DEPARTMENT will allow the AGENCY to construct additional landscape improvements or to modify an improvement located as indicated in **Exhibit "A"**, State Road 810 (Hillsboro Boulevard) from M. P 1.254 to M.P. 1.338. In accordance with the plans attached as **Exhibit "B"**.

2. The AGENCY shall agree to maintain the additional landscape improvements in the Agreement described above in accordance with the Maintenance Plan, **Exhibit "C"** of the original agreement and,

II. SPECIFIC PROJECT SITE MAINTENANCE REQUIREMENTS AND RECOMMENDATIONS

Basic maintenance for this area outside of the guidelines provided above, is to prune the groundcover to maintain a natural habit with full foliage, while trimming lateral branching as required to prevent foliage from growing beyond the limits of planting area onto the hardscape / pedestrian zones.

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

LIST OF EXHIBITS

Exhibit A - Landscape Improvements Maintenance Boundaries Limits
Exhibit B - Landscape Improvement Plans

In Witness whereof, the parties hereto have executed with this Amendment effective the 20th day January year written and approved.

CITY OF COCONUT CREEK

By: _____
Karen M. Brooks, City Manager

Attest: _____ (SEAL)
Leslie Wallace May, City Clerk

Legal Review _____ Date _____
Terrill C. Pyburn, City Attorney 11/14/19

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

By: _____
Transportation Development Director

Attest: _____ (SEAL)
Executive Secretary

Legal Review _____ Date 4/3/2020
Office of the General Counsel

SECTION No.(s):	**861200000**
S.R. No.(s):	**810**
Permit No:	**2019-L-491-00007**
COUNTY:	**BROWARD**

EXHIBIT A

LANDSCAPE IMPROVEMENTS

MAINTENANCE BOUNDARIES LIMITS

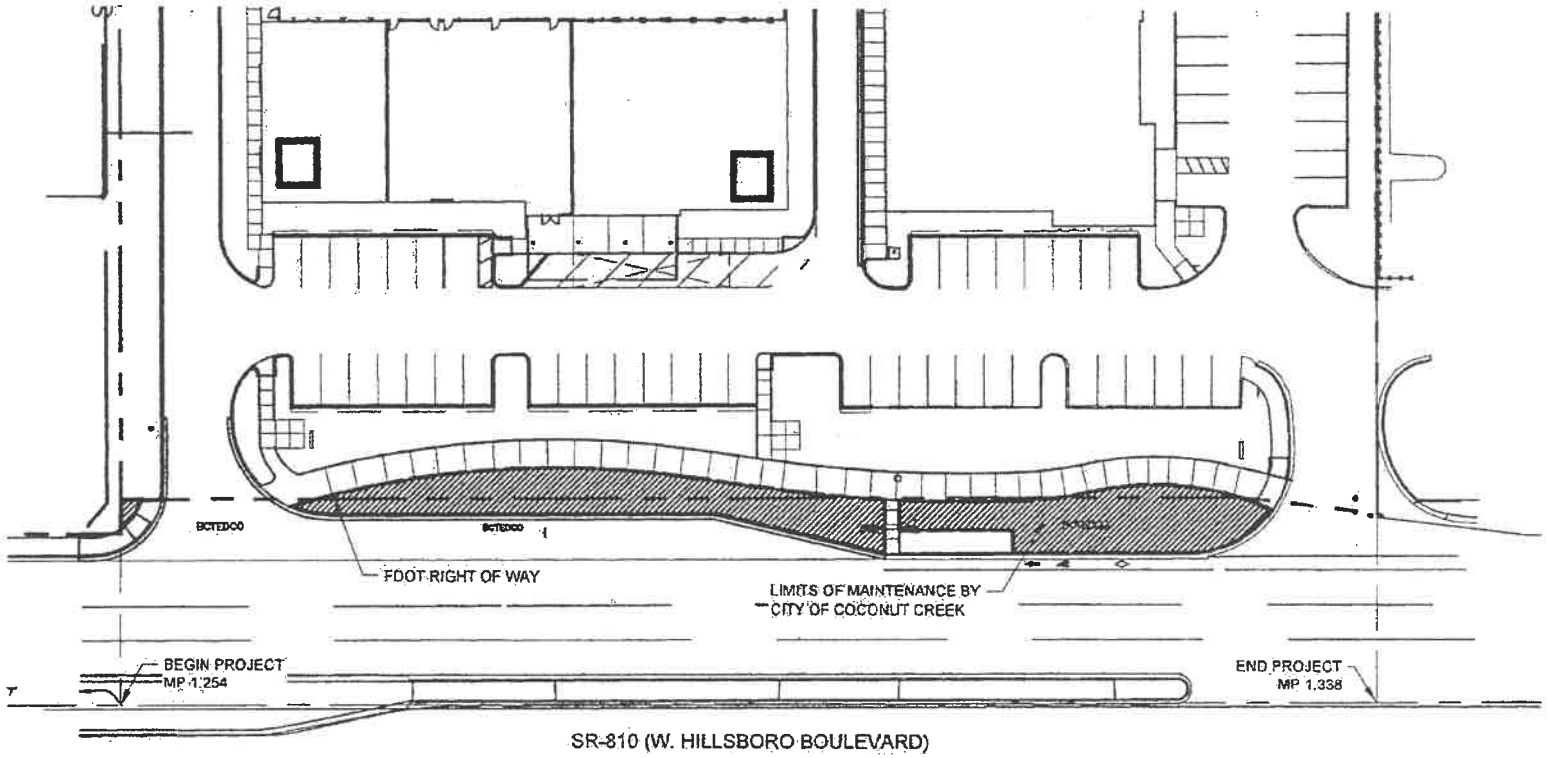
I. LANDSCAPE PROJECT LIMITS FOR THIS PROJECT:
State Road 810 (Hillsboro Boulevard) from M. P 1.254 to M.P. 1.338

II. ORIGINAL INCLUSIVE LANDSCAPE MAINTENANCE AGREEMENT LIMITS FOR State Road 810 (Hillsboro Boulevard):
M.P. 0.000 (East of State Road 7) to M.P. 1.997 (East of State Road 91)

III. LANDSCAPE IMPROVEMENTS MAINTENANCE RESPONSIBILITIES MAP FOR THIS PROJECT:

*All other limits of the original agreement and amendments shall apply

Please See Attached



SR-810 (W. HILLSBORO BOULEVARD)

LIMITS OF MAINTENANCE BY
CITY OF COCONUT CREEK

KEITH
301 East Atlantic Boulevard
Pompano Beach, FL 33060
Florida Certificate of
Authorization # - 7928

DATE: 08/08/2019
SCALE: AS NOTED
DRAWN BY: MP
DESIGN BY: MP
CHECKED BY: MP

GRAPHIC SCALE
0 10 30 60 120
SCALE: 1"=60'
NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

N

LANDSCAPE IMPROVEMENT MAINTENANCE BOUNDARY MAP
CITY OF COCONUT CREEK

LM-001

FDOT LANDSCAPE PERMIT NO. 2019-L-491-00007

SECTION No.(s): 861200000
S.R. No.(s): 810
Permit No: 2019-L-491-00007
COUNTY: BROWARD

EXHIBIT B

LANDSCAPE IMPROVEMENT PLANS

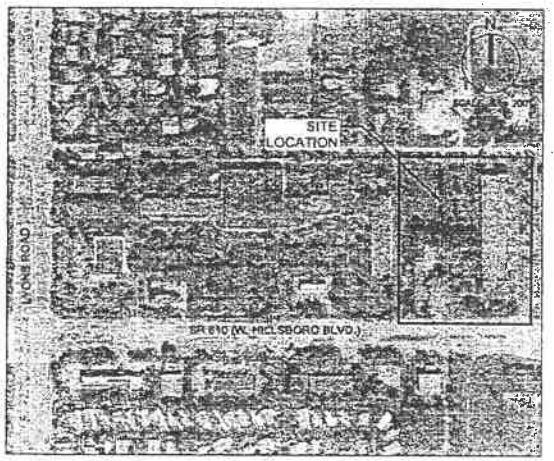
The AGENCY agrees to install the landscape improvements in accordance with the plans and specifications attached hereto and incorporated herein.

Please see attached plans prepared by:

Michael J. Phillips, RLA
KEITH
June 25, 2019

BCHCED REF. # 180514051

PERMIT PLANS
FOR
LEDER HILLSBORO
4191 W. HILLSBORO BOULEVARD
COCONUT CREEK, FL 33073



LOCATION MAP
SECTION 05, TOWNSHIP 48 S, RANGE 42 E
FOLIO NUMBER 4842 05 24 0010

INDEX OF SHEETS	
Sheet Identification	Sheet Title
GI-000	COVER
TD-101	TREE DISPOSITION PLAN
TD-103	TREE DISPOSITION LIST
LP-101	LANDSCAPE PLAN
LP-101A	FDOT CLEAR SIGHT LINE EXHIBIT
IR-101	IRRIGATION PLAN
IR-102	IRRIGATION PLAN
IR-103	IRRIGATION DETAILS AND LEGEND

FDOT SPECIFICATIONS AND DESIGN STANDARD INDEXES:
- "GOVERNING STANDARD PLANS: FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2018-19 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRs)."
- GOVERNING STANDARD SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, JULY 2018 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

PERMITTING AGENCIES	PERMIT NO.
CITY OF COCONUT CREEK ENGINEERING & UTILITIES	
FLORIDA DEPARTMENT OF HEALTH IN BROWARD COUNTY	0126396-174-DSGP
BROWARD COUNTY ENVIRONMENTAL PROTECTION (WASTE WATER)	WW-62579
BROWARD COUNTY ENVIRONMENTAL PROTECTION (STORM WATER)	E2017-203
SOUTH FLORIDA WATER MANAGEMENT DISTRICT	0000058879
BROWARD COUNTY HIGHWAY CONSTRUCTION & ENGINEERING	180514051
FDOT ACCESS	2017-A-491-073
FDOT DRAINAGE	2017-D-491-071
FDOT UTILITY	2018-H-491-429

THE PUBLIC ROADWAY(S) INDICATED IN THESE PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS & HIGHWAYS - STATE OF FLORICA.

FEMA FLOOD ZONE:

THE PROPERTY IS LOCATED WITHIN FLOOD ZONES AE (16), X AND "0.2 PERCENT ANNUAL CHANCE FLOOD HAZARD" AS SHOWN ON F.I.R.M. No. 12011C0158H, BEARING A MAP EFFECTIVE DATE OF 08/18/2014.

RELATIONSHIP BETWEEN NGVD 1929 AND NAVD 1988

ELEV.	DIFFERENCE	DATUM
1.55'	+1.55 FEET	NGVD 1929
0.00'		NAVD 1988

ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 1988 DATUM

LAND DESCRIPTION:

ALL OF PARCEL "A", "LEDER HILLSBORO COMPANY LIMITED - PART 2", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 166, PAGE 43, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

TOGETHER WITH:

ALL OF TRACT "A", "LEDER HILLSBORO COMPANY LIMITED - PART 1", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 125, PAGE 31, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

SAID LANDS LYING IN THE CITY OF COCONUT CREEK, BROWARD COUNTY, FLORIDA.

THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

811 KNOW WHAT'S BELOW. ALWAYS CALL 811 BEFORE YOU DIG
www.callsunshine.com

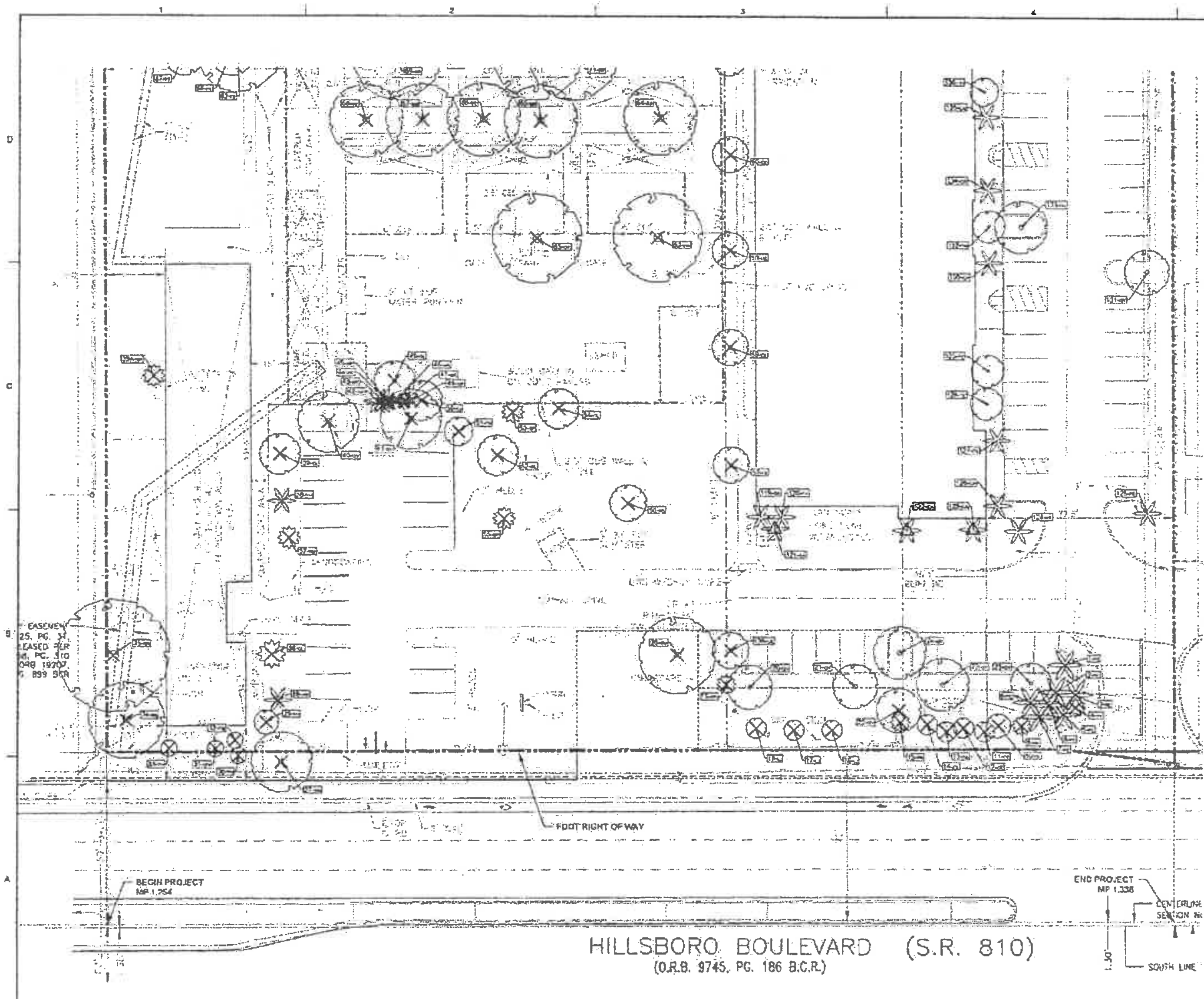
PREPARED FOR:
THE LEDER GROUP
4755 TECHNOLOGY WAY, SUITE 203
BOCA RATON, FL 33431

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400
State of Florida Certificate of Authorization Number - 7928

Michael J Phillips
2019.05.15
12:20:15-04'00'
MICHAEL J. PHILLIPS, PLA
FLORIDA REG. NO. LA0001040
FOR THE FIRM:

PROJECT No. 09675.00 DATE: 05/21/2019

FDOT LANDSCAPE PERMIT NO. 2019-L-491-00007



TREE DISPOSITION LEGEND

Symbol	Description
	Existing Tree/Palm to Remain [illegible]
△	Existing Tree/Palm to Relocate. Refer to landscape plan for new location
X	Existing Tree/Palm to Remove
(301)	Existing Tree/Palm number. Refer to Tree disposition and Tree survey table

NOTES

1. [illegible]
2. Symbols may be shown offset from actual tree locations for clarity.
3. Contact Landscape Architect / ISA Certified Arborist for clarification on any discrepancies.
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]

NORTH

GRAPHIC SCALE

0 20 40

SCALE: 1"=20'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL, VERIFY SCALE USING BAR SCALE ABOVE.

KEITH

Corporate Office
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400

Miami-Dade County
2160 NW 82 Avenue
Doral, Florida 33122

Palm Beach County
120 N Federal Highway, Suite 208
Lake Worth, Florida 33460

Orange County
2948 E Livingston Street
Orlando, Florida 32803

State of Florida Certificate of Authorization Number - 7928

FDOT CONTRACT NO.

REVISIONS

NO.	DESCRIPTION	DATE

LEDER HILLSBORO STORAGE

SCALE:	AS NOTED
DATE ISSUED:	MAY 21, 2019
DRAWN BY:	SR
DESIGNED BY:	MP
CHECKED BY:	MP

SHEET TITLE

TREE DISPOSITION PLAN

SHEET NUMBER

TD-101

PROJECT NO. 09675.00

FDOT LANDSCAPE PERMIT NO. 2019-L-491-00007

TREE DISPOSITION TABLE

TREE #	COMMON NAME	SCIENTIFIC NAME	DBH (IN)	HT. (FT)	CANOPY SPREAD (FT)	TREE CONDITION %	CANOPY REMOVED Sq. Ft.	COMMENTS
1	Live Oak	Quercus virginiana	20	40	40	80%	1256.64	Multi-trunk
2	Live Oak	Quercus virginiana	24	45	45	80%	1590.43	
3	Live Oak	Quercus virginiana	22	45	45	80%	1520.53	
4	Live Oak	Quercus virginiana	20	40	40	80%	1256.64	Multi-trunk
5	Live Oak	Quercus virginiana	18	35	35	80%	962.11	
6	Live Oak	Quercus virginiana	24	45	45	80%	1590.43	Multi-trunk
7	Live Oak	Quercus virginiana	22	45	45	80%	1520.53	
8	Live Oak	Quercus virginiana	20	40	40	80%	1256.64	Multi-trunk
9	Live Oak	Quercus virginiana	24	45	45	80%	1590.43	Multi-trunk
10	Live Oak	Quercus virginiana	22	45	45	80%	1520.53	
11	Live Oak	Quercus virginiana	18	35	35	80%	962.11	
12	Live Oak	Quercus virginiana	20	40	40	80%	1256.64	Multi-trunk
13	Live Oak	Quercus virginiana	24	45	45	80%	1590.43	
14	Live Oak	Quercus virginiana	22	45	45	80%	1520.53	
15	Live Oak	Quercus virginiana	20	40	40	80%	1256.64	Multi-trunk
16	Live Oak	Quercus virginiana	24	45	45	80%	1590.43	
17	Live Oak	Quercus virginiana	22	45	45	80%	1520.53	
18	Live Oak	Quercus virginiana	20	40	40	80%	1256.64	Multi-trunk
19	Live Oak	Quercus virginiana	24	45	45	80%	1590.43	
20	Live Oak	Quercus virginiana	22	45	45	80%	1520.53	
21	Live Oak	Quercus virginiana	18	35	35	80%	962.11	
22	Live Oak	Quercus virginiana	20	40	40	80%	1256.64	Multi-trunk
23	Live Oak	Quercus virginiana	24	45	45	80%	1590.43	
24	Live Oak	Quercus virginiana	22	45	45	80%	1520.53	
25	Live Oak	Quercus virginiana	20	40	40	80%	1256.64	Multi-trunk
26	Live Oak	Quercus virginiana	24	45	45	80%	1590.43	
27	Live Oak	Quercus virginiana	22	45	45	80%	1520.53	
28	Live Oak	Quercus virginiana	18	35	35	80%	962.11	
29	Live Oak	Quercus virginiana	20	40	40	80%	1256.64	Multi-trunk
30	Live Oak	Quercus virginiana	24	45	45	80%	1590.43	
31	Live Oak	Quercus virginiana	22	45	45	80%	1520.53	
32	Live Oak	Quercus virginiana	20	40	40	80%	1256.64	Multi-trunk
33	Live Oak	Quercus virginiana	24	45	45	80%	1590.43	
34	Live Oak	Quercus virginiana	22	45	45	80%	1520.53	
35	Live Oak	Quercus virginiana	18	35	35	80%	962.11	
36	Live Oak	Quercus virginiana	20	40	40	80%	1256.64	Multi-trunk
37	Live Oak	Quercus virginiana	24	45	45	80%	1590.43	
38	Live Oak	Quercus virginiana	22	45	45	80%	1520.53	
39	Live Oak	Quercus virginiana	20	40	40	80%	1256.64	Multi-trunk
40	Live Oak	Quercus virginiana	24	45	45	80%	1590.43	
41	Live Oak	Quercus virginiana	22	45	45	80%	1520.53	
42	Live Oak	Quercus virginiana	18	35	35	80%	962.11	
43	Live Oak	Quercus virginiana	20	40	40	80%	1256.64	Multi-trunk
44	Live Oak	Quercus virginiana	24	45	45	80%	1590.43	
45	Live Oak	Quercus virginiana	22	45	45	80%	1520.53	
46	Live Oak	Quercus virginiana	20	40	40	80%	1256.64	Multi-trunk
47	Live Oak	Quercus virginiana	24	45	45	80%	1590.43	
48	Live Oak	Quercus virginiana	22	45	45	80%	1520.53	
49	Live Oak	Quercus virginiana	18	35	35	80%	962.11	
50	Live Oak	Quercus virginiana	20	40	40	80%	1256.64	Multi-trunk
51	Live Oak	Quercus virginiana	24	45	45	80%	1590.43	
52	Live Oak	Quercus virginiana	22	45	45	80%	1520.53	
53	Live Oak	Quercus virginiana	20	40	40	80%	1256.64	Multi-trunk
54	Live Oak	Quercus virginiana	24	45	45	80%	1590.43	
55	Live Oak	Quercus virginiana	22	45	45	80%	1520.53	
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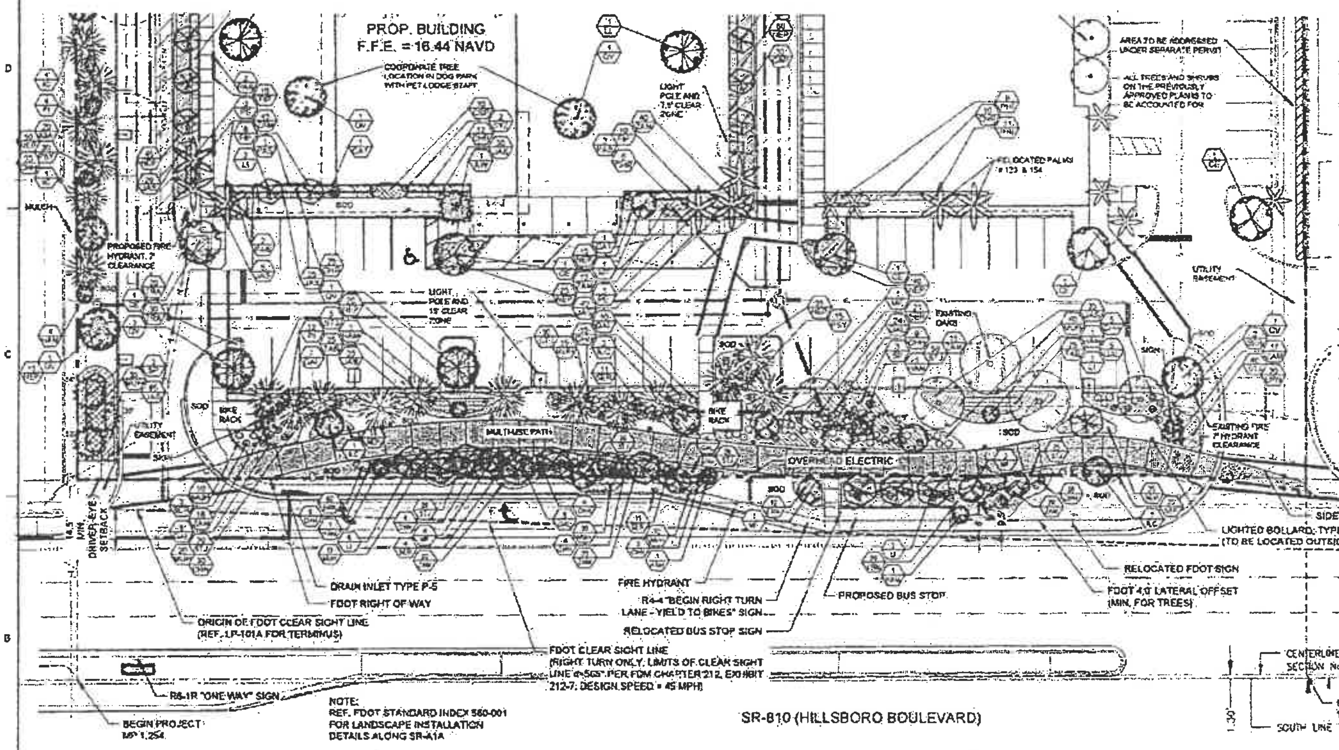


NOTE:
REF. FDOT STANDARD INDEX 580-001
FOR LANDSCAPE INSTALLATION
DETAILS ALONG SR-A1A

PLANT LIST

SHRUBS & GROUNDCOVERS

	KEY	QUANTITY	PLANT NAME AND SPECIFICATION
**	N ACR	105	[illegible] (Leather Fern)
	ALY	125	[illegible]
**	N CAP	51	[illegible]
	CAT	6	[illegible] (Cat Palm)
**	N CHM	173	[illegible]
**	N CHR	142	[illegible]
	CRP	19	[illegible]
**	N DPV	213	[illegible]
	EP	41	[illegible]
	GAL	21	[illegible]
**	N HAM	17	[illegible]
	N ILA	60	[illegible]
	N ILC	4	[illegible]
	JAS	644	[illegible]
**	JUN	118	[illegible]
	N MUH	194	[illegible]
**	N NEP	411	[illegible]
**	N PAN	16	[illegible]
**	PHI	87	[illegible]
	N PSY	128	[illegible]
**	N SER	51	[illegible]
**	N STJ	396	[illegible]
	SPP	7	[illegible]
**	TRA	199	[illegible]
	TRA	54	[illegible]
**	N VIB	39	[illegible]
**	N ZAM	357	[illegible]

N - DENOTES NATIVE SPECIES
** - DENOTES HIGH DROUGHT TOLERANT SPECIES

PLANT LIST

TREES AND PALMS

KEY	QUANTITY	PLANT NAME AND SPECIFICATION
AM	2	[illegible]
[illegible]	1	[illegible]
[illegible]	1	[illegible]
[illegible]	7	[illegible]
LI	36	[illegible]
[illegible]	4	[illegible]
[illegible]	6	[illegible]
[illegible]	30	[illegible]
[illegible]	6	[illegible]
[illegible]	20	[illegible]
[illegible]	10	[illegible]
[illegible]	6	[illegible]
[illegible]	6	[illegible]

FDOT GENERAL NOTES:

1. REFERENCE THE CURRENT VERSION OF THE FDOT SPECIFICATIONS AND DESIGN STANDARD INDEXES AS FOLLOWS:
   GOVERNING STANDARD PLANS: FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2018-19 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRS).
   GOVERNING STANDARD SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, JULY 2018 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. CONTRACTOR SHALL REPAIR ALL DAMAGE DONE TO FDOT PROPERTY DURING DEMOLITION, RELOCATION AND/OR INSTALLATION ACTIVITIES AT HIS SOLE EXPENSE.
3. ANY PLANT MATERIAL SUBSTITUTION WITHIN OR IMPACTING THE FDOT RIGHT OF WAY WHETHER REQUESTED BY THE CONTRACTOR, OWNER, LANDSCAPE ARCHITECT OR OTHER WILL NEED TO GET APPROVAL FROM THE FDOT DISTRICT OPERATIONS MANAGER.
4. OWNERSHIP OF ALL SUITABLE EXCAVATED MATERIALS, AS DETERMINED BY THE DEPARTMENT, SHALL REMAIN IN THE DEPARTMENT UNTIL A FINAL ACCEPTANCE OF THE PERMITTED PROJECT IS FULFILLED. EXCAVATED MATERIALS SHALL BE HAULED BY THE PERMITTEE, AT THEIR COST & EXPENSE FROM THE SITE TO THE BROWARD OPERATIONS CENTER OR STOCKPILED IN THOSE AREAS AS DIRECTED BY THE DEPARTMENT, INCLUDING ASPHALT MILLINGS.

FDOT PLANTING NOTES:

1. FOR THE PORTION OF LANDSCAPE PLANT MATERIAL THAT WILL BE INSTALLED WITHIN THE FDOT RIGHT OF WAY LANDSCAPE INSTALLATION SHALL COMPLY WITH CURRENT FDOT MAINTENANCE SPECIFICATIONS [illegible] REFERENCE: [illegible]
2. FOR THE PORTION OF LANDSCAPE PLANT MATERIAL THAT WILL BE INSTALLED WITHIN THE FDOT RIGHT OF WAY REFER TO FDOT STANDARD PLANS INDEX 580-001 LANDSCAPE INSTALLATION, ONLINE REFERENCE: [illegible]
3. CYPRESS MULCH IS NOT PERMITTED ON FDOT RIGHT OF WAY. MULCH PERMITTED TO BE USED ARE HARDWOOD MULCH (CONTAINING NO CYPRESS PRODUCTS), RECYCLED MULCH OR APPROVED EQUAL, CERTIFIED BY THE MULCH AND SOIL COUNCIL (MSC). SUBMIT PROOF OF CERTIFICATION TO THE FDOT DISTRICT OPERATIONS PERMIT LANDSCAPE INSPECTOR UPON INSPECTION.
4. SODDED AREAS WILL BE IN ACCORDANCE WITH STANDARD PLANS INDEX 570-010 AND STANDARD SPECIFICATIONS SECTIONS [illegible] OF THE DEPARTMENT'S LATEST EDITION OF GOVERNING DESIGN STANDARDS AND STANDARD SPECIFICATIONS. ALL DISTURBED AREAS WILL BE SODDED WITHIN ONE (1) WEEK OF INSTALLATION OF SAID PERMITTED WORK.

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, RECLAIM 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.

FDOT SR-810 REQUIREMENTS:

- DESIGN SPEED: SR-810 (HILLSBORO BLVD) DESIGN SPEED = 45 MPH.
- VERTICAL CLEARANCE: MIN. PLANTING VERTICAL CLEARANCE PER FDOT MAINTENANCE RATING PROGRAM
  SIDEWALK = 8.5' VERTICAL CLEARANCE
  ROADWAY = 14.5' VERTICAL CLEARANCE

NOTE:
CALL SUNSHINE ONE CALL
PRIOR TO ANY TYPE OF
EXCAVATION WORK.

Sunshine811.com

NORTH
GRAPHIC SCALE
0 20 40
SCALE: 1"=20'
NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

KEITH

Corporate Office
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400
Miami-Dade County
2780 NW 82 Avenue
Doral, Florida 33122
Palm Beach County
120 N Federal Highway, Suite 208
Lake Worth, Florida 33460
Orange County
2948 E Livingston Street
Orlando, Florida 32803
State of Florida Certificate of Authorization Number - 7928

SEC / CONTRACT NO.:

REVISIONS

NO.	DESCRIPTION	DATE

LEDER HILLSBORO STORAGE

SCALE:	AS NOTED
DATE ISSUED:	MAY 21, 2019
DRAWN BY:	SR
DESIGNED BY:	MP
CHECKED BY:	MP

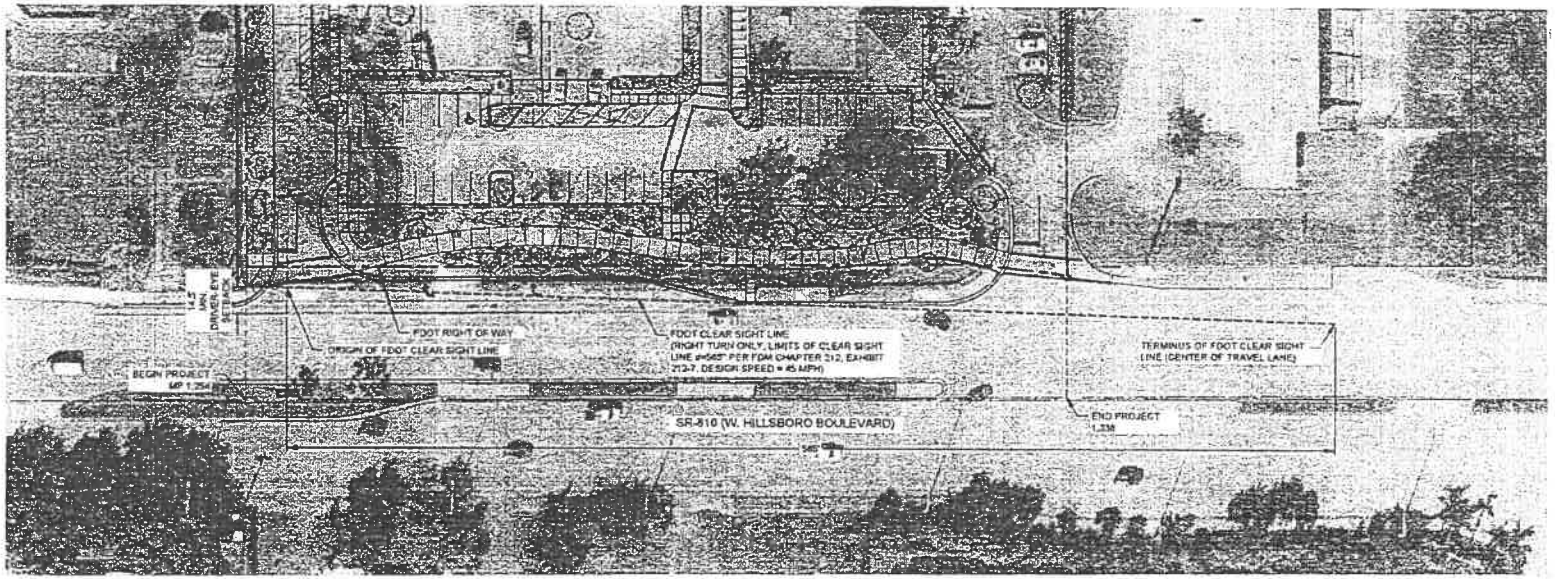
MICHAEL J. PHILLIPS, RLA
FLORIDA REG. NO. LA6667080
(FOR THE FIRM)

SHEET TITLE:
LANDSCAPE PLAN

SHEET NUMBER:
LP-101

PROJECT NO. 09675.00

FDOT LANDSCAPE PERMIT NO. 2019-L-491-00007



NORTH

GRAPHIC SCALE

0 30 60

SCALE: 1"=30'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

KEITH

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120 N Federal Highway, Suite 209
Lake Worth, Florida 33460

Orange County
2948 E Livingston Street
Orlando, Florida 32803

State of Florida Certificate of Authorization Number - 7028

BID CONTRACT NO.:

REVISIONS

NO.	DESCRIPTION	DATE

LEDER HILLSBORO STORAGE

SCALE:	AS NOTED
DATE ISSUED:	MAY 21, 2019
DRAWN BY:	SR
DESIGNED BY:	MP
CHECKED BY:	MP

MICHAEL J. PHILLIPS, III, A
FLORIDA REG. NO. LA0001340
(FOR THE FIRM)

SHEET TITLE

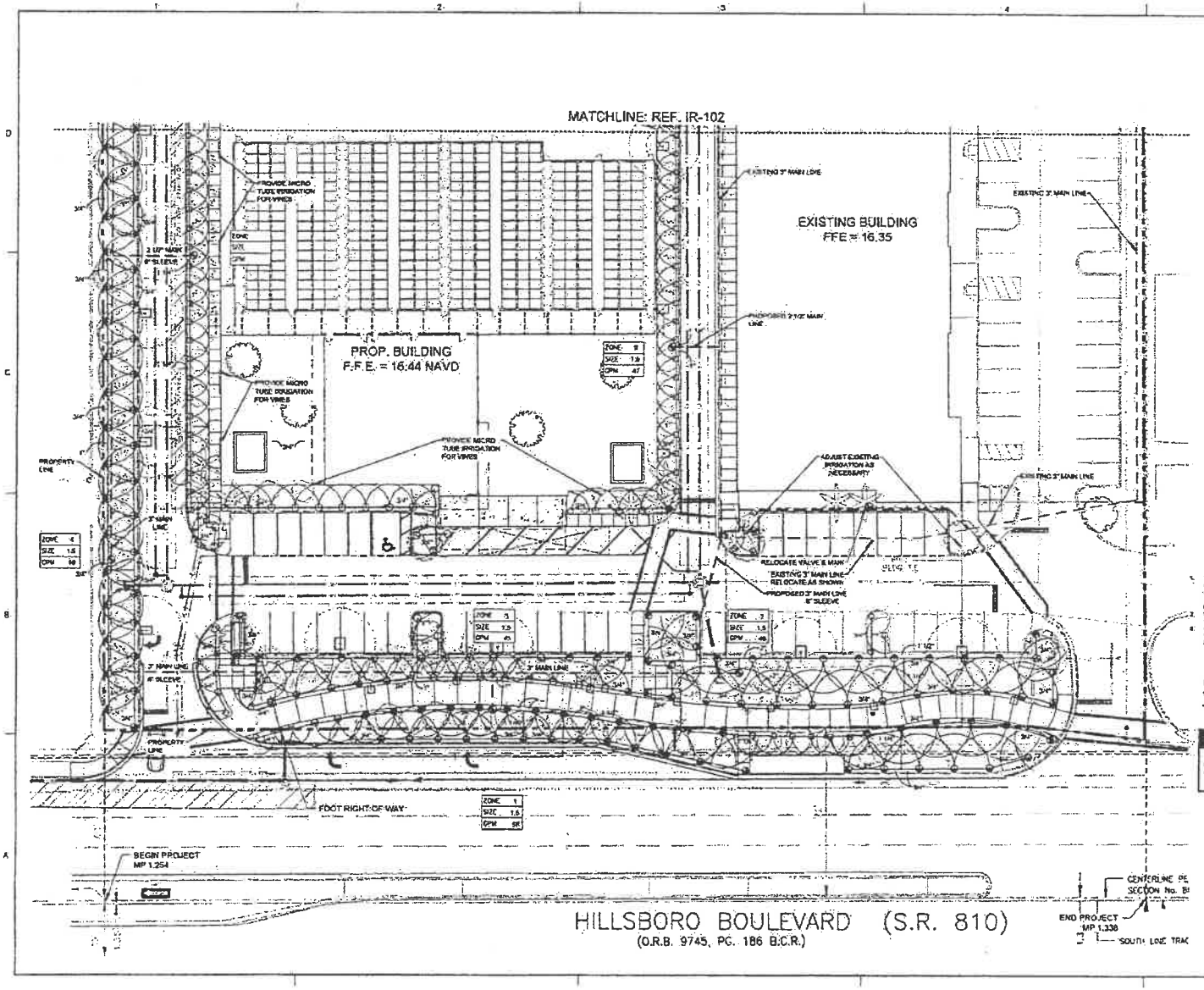
FDOT CLEAR SIGHT LINE EXHIBIT

SHEET NUMBER

LP-101

PROJECT NO. 09675.00

FDOT LANDSCAPE PERMIT NO. 2019-L-401-00007



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NORTH

GRAPHIC SCALE
0 20 40
SCALE: 1"=20'

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Orlando, Florida 32803

State of Florida Certificate of Authorization Number - 7928

WO / CONTRACT NO.

REVISIONS

NO.	DESCRIPTION	DATE

LEDER
HILLSBORO
STORAGE

SCALE:	AS NOTED
DATE ISSUED:	MAY 21, 2019
DRAWN BY:	SR
DESIGNED BY:	MP
CHECKED BY:	MP

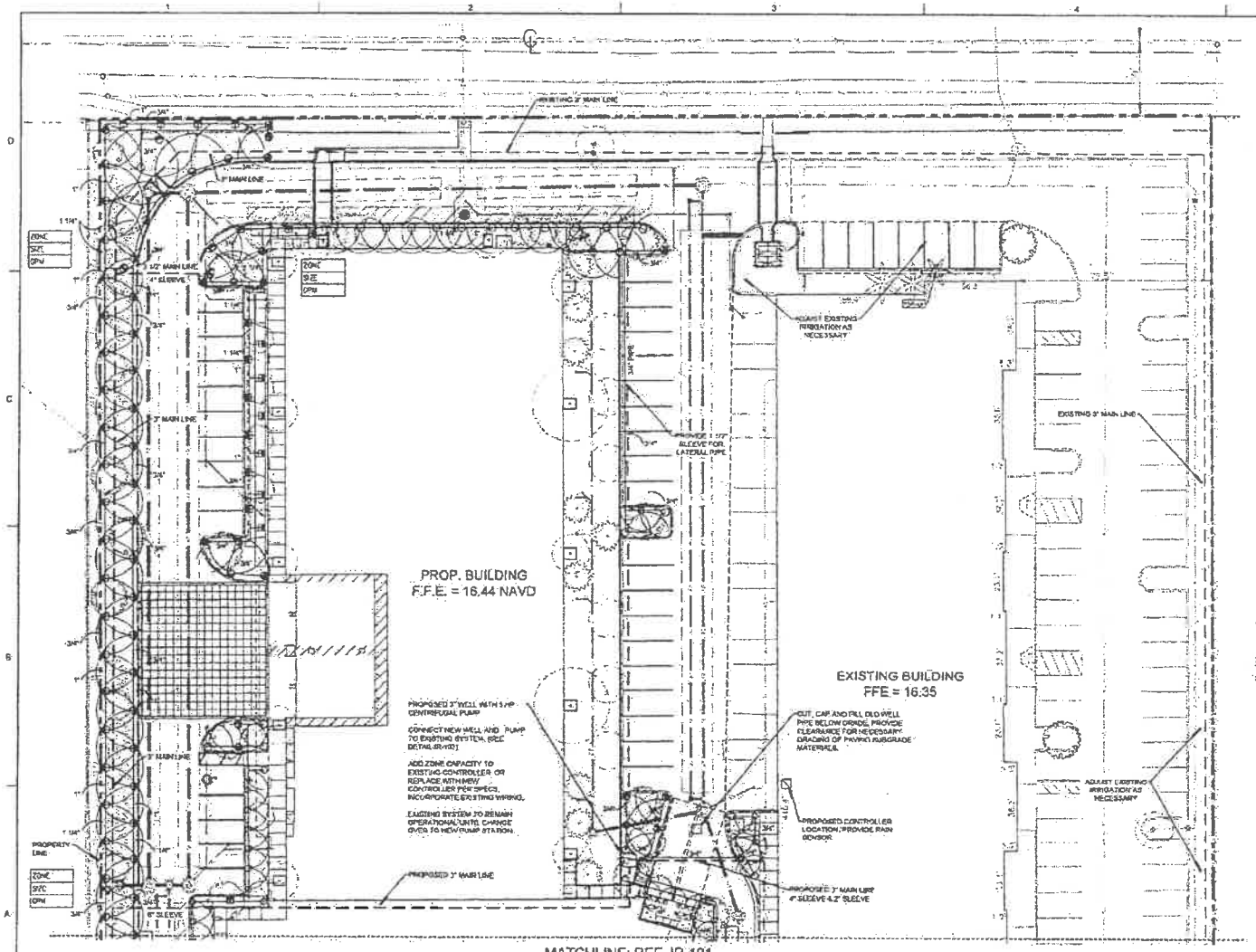
MICHAEL J. PHILLIPS, RLA
FLORIDA REG. NO. LA0001540
(FOR THE PRINT)

SHEET TITLE
IRRIGATION PLAN

SHEET NUMBER
IR-101

PROJECT NO 09675.00

FDOT LANDSCAPE PERMIT NO. 2019-L-481-00007



FDOT IRRIGATION NOTES:

1. THE IRRIGATION SYSTEM SHALL USE THE LOWEST QUALITY WATER AVAILABLE WHICH ADEQUATELY AND SAFELY MEET THE WATER NEEDS OF THE SYSTEM. STORM WATER, RECLAIM 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.

NOTE:
CALL SUNSHINE ONE CALL PRIOR TO ANY TYPE OF EXCAVATION WORK.

Sunshine811.com

NORTH

GRAPHIC SCALE

0 20 40

SCALE: 1"=20'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

KEITH

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Lake Worth, Florida 33460

Orange County
2848 E Livingston Street
Orlando, Florida 32803

State of Florida Certificate of Authorization Number - 1923

BID CONTRACT NO.

REVISIONS

NO.	DESCRIPTION	DATE

LEDER HILLSBORO STORAGE

SCALE:	AS NOTED
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MICHAEL A. PHILLIPS, P.E.
FLORIDA REG. NO. LA0001540
(FOR THE FIRM)

SHEET TITLE

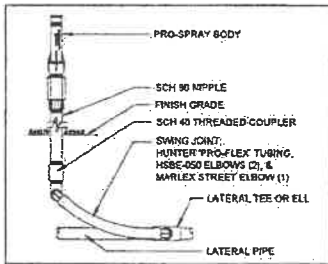
IRRIGATION PLAN

SHEET NUMBER

IR-102

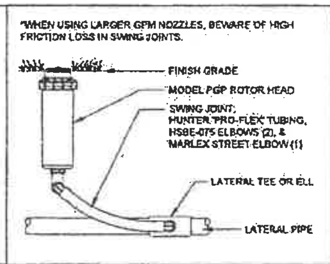
PROJECT NO. 09675.00

FDOT LANDSCAPE PERMIT NO. 2019-L-491-00007



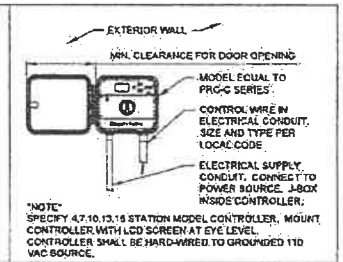
SPRAY HEAD ON RISER

Hunter IRRIGATION DETAIL — NOT TO SCALE



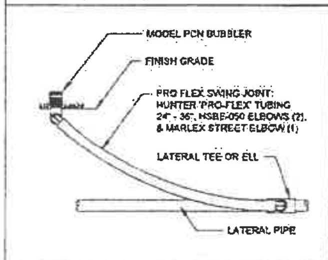
PGP ROTOR HEAD

Hunter IRRIGATION DETAIL — NOT TO SCALE



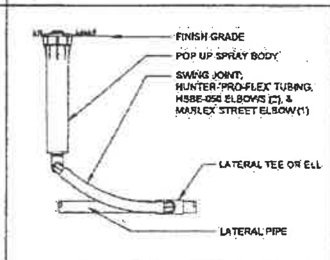
PRO-C CONTROLLER

Hunter IRRIGATION DETAIL — NOT TO SCALE



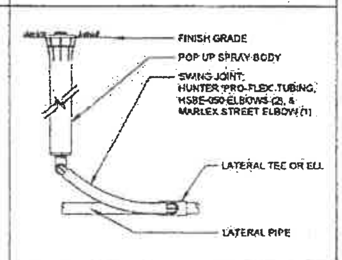
PCN BUBBLER

IRRIGATION DETAIL — NOT TO SCALE



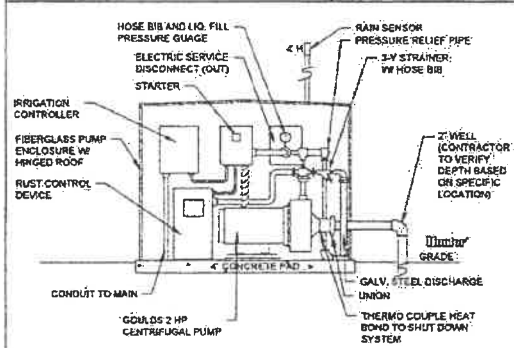
12" POP-UP SPRAY HEAD

Hunter IRRIGATION DETAIL — NOT TO SCALE



6" POP-UP SPRAY HEAD

Hunter IRRIGATION DETAIL — NOT TO SCALE



NOTE: VERIFY ELECTRIC SUPPLY/PHASE/VOLTAGE & PROVIDE SURGE PROTECTION.

PUMP STATION-WELL

IRRIGATION DETAIL — NOT TO SCALE

1. CUT, CAP AND FILL OLD WELL PIPE BELOW GRADE. PROVIDE CLEARANCE FOR NECESSARY GRADING OF PAVING/DRAINAGE MATERIALS.
2. CONNECT NEW WELL AND PUMP TO EXISTING SYSTEM (SEE DETAIL).
3. ADD ZONE CAPACITY TO EXISTING CONTROLLER, OR REPLACE WITH NEW CONTROLLER PER SPECS. INCORPORATE EXISTING WIRING.
4. EXISTING SYSTEM TO REMAIN OPERATIONAL UNTIL CHANGE OVER TO NEW PUMP STATION.

FDOT IRRIGATION NOTES:

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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.

NOTE:
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IRRIGATION LEGEND

SYMBOL	QTY	DESCRIPTION
[symbols]	[illegible]	HUNTER PGP 4" POP-UP ROTOR HEADS
[symbols]	1-0-1-15-19	HUNTER SPRAY NOZZLES: 15' RADIUS, WITH PRO SPRAY BODY
[symbols]	[illegible]	HUNTER SPRAY NOZZLES: 12' RADIUS, WITH PRO SPRAY BODY
[symbols]	[illegible]	HUNTER SPRAY NOZZLES: 10' RADIUS, WITH PRO SPRAY BODY
[symbols]	[illegible]	HUNTER SPRAY NOZZLES: 8' RADIUS WITH, WITH PRO SPRAY BODY
[symbol]	4	HUNTER END SPRAY - E515, WITH PRO SPRAY BODY
[symbol]	10	HUNTER SIDE SPRAY 5S615, WITH PRO SPRAY BODY
[symbol]	12	HUNTER MULTI-STREAM BUBBLERS MSBN SERIES
[symbol]	146	HUNTER BUBBLERS PCN SERIES
[symbol]	9	ZONE VALVE: ELECTRONIC, EQUAL TO [illegible], SIZE PER PLAN, IN AMETEK OR CARSON 12" x 18" VALVE BOX
[symbol]	12	[illegible] BRASS GATE VALVE: SAME SIZE AS MAINLINE, IN 8" SCH 40 PVC COLLAR EXTENSION AND VALVE BOX
[symbol]	1	HUNTER MODULAR IRRIGATION CONTROLLER EQUAL TO PRO-C SERIES WITH SOLAR SYNC, TO BE LOCATED PER OWNER'S PREFERENCE
- - - - - -	230 LF	SLEEVES: SCH 40 PVC OR RATED EQUAL CLASS SLEEVES TO BE MIN. 24" AND MAX. 30" DEEP
— — — —	1030 LF	MAIN LINE: SCH 40 PVC WITH SCH 80 PVC FITTINGS THRUST BLOCKS AT STRESS POINTS, SITE PER PLAN
————	3800 LF	LATERAL PIPING: PVC CLASS 200 PVC FITTINGS AND GLUE JOINTS PER SPECIFICATIONS

* QUANTITIES ARE APPROXIMATE AND SHOULD BE CONFIRMED BY IRRIGATION CONTRACTOR

IRRIGATION NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL REQUIRED TO MAKE THE SYSTEM FUNCTION PROPERLY. ALL IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND ALSO STATE AND/OR LOCAL CODES.
2. IRRIGATION PLANS ARE SCHEMATIC AND DRAWN FOR GRAPHIC CLARITY. ALL PIPING BELOW PAVEMENT SHALL BE SLEEVED. LAYOUT OF IRRIGATION SYSTEM SHALL BE COORDINATED WITH CORRESPONDING LANDSCAPE PLAN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL UNDERGROUND UTILITY PROVIDERS TO VERIFY LOCATIONS. THE CONTRACTOR IS ENCOURAGED TO VISIT THE SITE PRIOR TO INSTALLATION AND BECOME FAMILIAR WITH EXISTING CONDITIONS.
4. VALVE LOCATIONS ARE SCHEMATIC ONLY AND WILL BE ADJUSTED FOR SITE CONDITIONS. EACH VALVE SHALL BE INSTALLED IN A AMETEK OR CARSON VALVE BOX. THE FLOW ADJUSTMENT FEATURE WILL BE USED TO BALANCE PRESSURE THROUGHOUT THE SYSTEM.
5. PIPING SHALL BE SIZED TO MINIMIZE FRICTION LOSS AND MAINTAIN FLOW VELOCITY BELOW 5 FPS.
6. THE IRRIGATION CONTROLLER SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. PROPER GROUNDING EQUIPMENT AND SURGE PROTECTION SHALL BE PROVIDED. A RAIN SENSOR SHALL BE INSTALLED TO OVER-RIDE THE CONTROLLER.
7. ALL HEADS ON RISERS SHALL BE SET AT THE HEIGHT OF ADJACENT PLANT MATERIAL.
8. SPRINKLER LOCATIONS ADJACENT TO PAVEMENT, STRUCTURES, FENCES, ETC. SHALL BE OFFSET AS FOLLOWS: 12" MIN FOR POP-UP MIST HEADS, 18" FOR SHRUB RISERS, 18" FOR ROTOR HEADS; AND TYPICALLY 3 FEET FOR ROTORS ALONG UNCURBED ROADWAYS.
9. ALL SLEEVING SHALL BE SCH 40 PVC TO SIZE INDICATED ON PLAN, OR IF NOT INDICATED, A MIN. OF 2 PIPE SIZES LARGER THAN SUPPLY LINE CONTAINED. ALL SLEEVES SHALL BE INSTALLED A MIN. OF 24" BELOW FINISH GRADE.
10. CONTROL WIRES SHALL BE UL APPROVED PE IRRIGATION CONTROL WIRE. USE 14 GAGE CONTROL WIRE AND 12 GAGE GROUND WIRE. WIRE SHALL BE BUNDLED AND ATTACHED TO THE MAIN LINE IN TRENCH OR THROUGH WIRE SLEEVES AT PAVEMENT CROSSINGS 24" BELOW FIN. GRADE. ALL SPLICES SHALL BE MADE WITH WATERPROOF DIRECT-BURIAL SPLICE KITS AND CONTAINED IN VALVE BOXES. TWO EXTRA CONTROL WIRES SHALL BE INSTALLED TO THE FURTHEST VALVES IN EACH DIRECTION FROM THE CONTROLLER.
11. PIPING IN NARROW PLANTING AREAS, PARKING ISLANDS AND PLANTERS SHALL BE SET TO ONE SIDE TO ALLOW ROOM FOR ROOT BALLS. PIPE AS INDICATED ON PLAN IS SCHEMATIC AND SHOULD BE ADJUSTED FOR FIELD CONDITIONS.
12. ALL GLUE JOINTS SHALL BE CLEANED, SANDED, AND TREATED WITH A COLORED HIGH ETCH PRIMER AND JOINED USING A SOLVENT CONFORMING WITH ASTM D2564.
13. SYSTEM PIPE SIZE 3/4" SHALL BE CLASS 200 PVC. SYSTEM PIPE SIZE 1" OR GREATER SHALL BE CLASS 160 PVC. SYSTEM MAIN WILL BE SCH. 40 PVC TO SIZE INDICATED ON PLAN. ALL FITTINGS WILL BE SOLVENT WELD SCH 40 PVC. MAIN LINE SHALL HAVE 24" MINIMUM COVER; ALL OTHER PIPING WILL HAVE 12" MIN. COVER. ALL BACKFILL FOR PIPE TRENCHES SHALL BE CLEAN AND FREE OF FOREIGN DEBRIS AND SHARP OBJECTS; BACKFILLED TRENCHES SHALL BE PROPERLY COMPACTED. ALL MAIN LINES WILL BE INSTALLED A MIN. OF 5' FROM ANY TREE OR PALM.
14. WATERING TIME PER STATION WILL BE DETERMINED IN THE FIELD AND PER LOCAL REQUIREMENTS. REFER TO MANUFACTURER'S INSTRUCTIONS FOR PRECIPITATION RATES OF SPRINKLERS SPECIFIED.
15. IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE WITH 50% OVERLAP MIN. PROVIDE BUBBLERS FOR ALL NEW AND RELOCATED TREES AND PALMS.
16. RUST CONTROL SYSTEM TO BE INSTALLED WITH PUMP STATION (IF FROM WELL).
17. THE IRRIGATION SYSTEM IN THE RIGHT-OF-WAY IS TO INCORPORATE LOW TRAJECTORY SPRAY HEADS TO MINIMIZE OVERSPRAY.
18. INSPECTIONS REQUIRED FOR ROUGH, SLEEVES, MAINLINE PRESSURE TEST, AND FINAL.
19. AS-BUILT DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND GIVEN TO THE OWNER PRIOR TO FINAL ACCEPTANCE.

KEITH

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Lake Worth, Florida 33460

Orange County
2948 E Livingston Street
Orlando, Florida 32803

State of Florida Certificate of Authorization Number - 1028

KEI CONTRACT NO.

REVISIONS

NO.	DESCRIPTION	DATE

LEDER HILLSBORO STORAGE

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MICHAEL J. PHILLIPS, RLA
FLORIDA REG. NO. LA[illegible]
(FOR THE FIRM)

SHEET TITLE

IRRIGATION DETAILS AND LEGEND

SHEET NUMBER

IR-103

PROJECT NO. 09675.00

FDOT LANDSCAPE PERMIT NO. 2019-L-491-00007