SECTION: **93060000**
STATE ROAD: **A1A**
PERMIT: **2023-L-496-00006**
COUNTY: **PALM BEACH**

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

THIS AMENDMENT Number Seven (7) to the Agreement dated July 20, 2017, made and entered into this _____ day of _____ 20_____ by and between the State of Florida Department of Transportation hereinafter called the **DEPARTMENT** and the **TOWN OF HIGHLAND BEACH**, a municipal corporation of the State of Florida, hereinafter called the **AGENCY**.

W I T N E S S E T H

WHEREAS, the parties entered into the Landscape Inclusive Maintenance Memorandum of Agreement dated, July 20, 2017 for the purpose of maintaining the landscape improvements by the AGENCY on State Road A1A (South Ocean Boulevard); and,

WHEREAS, the DEPARTMENT and the AGENCY have agreed to add additional landscape by permit to be installed on State Road A1A (South Ocean 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 7 of the Landscape Inclusive Maintenance Memorandum of Agreement for State Road A1A (South Ocean Boulevard) dated July 20, 2017, the DEPARTMENT will allow an adjacent property owner to construct additional landscape improvements or to modify an improvement as indicated in **Exhibit "A"**, State Road A1A (South Ocean Boulevard) from M.P. 6.303 to M.P. 6.314. 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 according to Part I of the Maintenance Plan, Exhibit "E" of the original agreement and Part II as follows:

Part II - Specific Project Site Maintenance Requirements and Recommendations:

1. The landscape design intent at the front of the property is to minimize the impact in the right of way.

2. To maintain the intended appearance of all shrubs or turf grass, apply the latest fertilizer recommended by the University of Florida IFAS Extension per the manufacturer's specifications.

3. Groundcover and shrub horizontal growth shall be maintained to prevent foliage from growing beyond the limits of the planting areas shown on the plan. Maintain an 8" setback from the foliage to the edge of curb, pavement, sidewalk and/or other hardscape improvements.

4. Maintain the vertical height of Big Blue Liriope at natural height (no trimming required).

5. Inspect groundcovers and shrubs on a monthly basis for maintaining full ground coverage.

6. Evaluate plant material on a monthly basis for pests, diseases, drought stress or general decline. If required, follow the integrated pest management program established by the Agency to ensure healthy plants.

7. Concrete pavers shall be inspected on a monthly basis for aesthetic appearance and safety conditions. Address any issues identified by repairing or replacing those specific locations. To maintain the overall aesthetic appearance and safety of the concrete pavers they shall be cleaned on a twice-yearly basis to prevent mold, dirt, oil, and gum build up. Joints and cracks in concrete, patterned concrete or asphalt, concrete pavers, concrete curbs, expansion joints, catch basins, gutter areas, etc. shall be inspected on a monthly basis to keep those areas free of weeds.

8. Inspect the irrigation system performance on a monthly basis to ensure the system is providing 100% coverage, does not have sections of low pressure, heads and valves are clean and clear of debris and any damaged irrigation components (i.e., spray nozzles, spray heads, valve boxes, etc.) are repaired or replaced.

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 this Agreement effective the day and year first written above.

TOWN OF HIGHLAND BEACH

By: _____ Date: _____
Chairperson / Mayor / Manager

Attest: _____ (SEAL)
Town Clerk

Legal Approval: _____

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

By: _____ Date: _____
Transportation Development Director

Attest: _____ (SEAL)
Executive Secretary

Legal Review: _____
Office of the District General Counsel

SECTION: **93060000**
STATE ROAD: **A1A**
PERMIT: **2023-L-496-00006**
COUNTY: **PALM BEACH**

EXHIBIT A

LANDSCAPE IMPROVEMENTS MAINTENANCE BOUNDARIES LIMITS

I. ORIGINAL INCLUSIVE LANDSCAPE MAINTENANCE AGREEMENT LIMITS:

State Road A1A (South Ocean Boulevard) from approximately ¼ mile North of Spanish River Blvd (M.P. 4.868) to approximately ½ mile South of Linton Blvd (M.P. 7.711)

II. LANDSCAPE PERMIT PROJECT LIMITS (THIS PROJECT):

State Road A1A (3521 South Ocean Boulevard) from M.P. 6.303 to M.P. 6.314

See attached map*

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

N89°17'14"E – 313.06'

STATE ROAD A1A

C/L

END PROJECT MP 6.314

BEGIN PROJECT MP 6.303

LIMITS OF MAINTENANCE BY
CITY OF HIGHLAND BEACH

S89°17'14"W – 303.47'

LIMIT OF MAINTENANCE BY
TOWN OF HIGHLAND BEACH

LANDSCAPE IMPROVEMENT MAINTENANCE BOUNDARY MAP

CITY OF HIGHLAND BEACH

FDOT LANDSCAPE PERMIT NUMBER: 2023-L-496-00006

0 20 40 80

SCALE: 1" = 20'

NORTH

SECTION: **93060000**
STATE ROAD: **A1A**
PERMIT: **2023-L-496-00006**
COUNTY: **PALM BEACH**

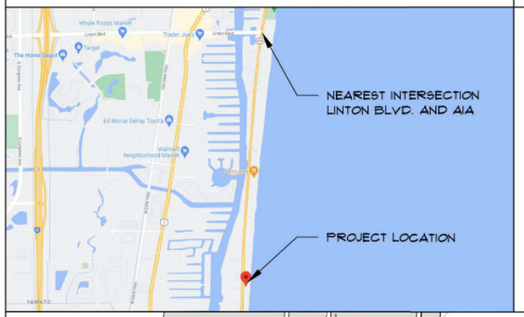
EXHIBIT B

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 Flaugh, PLA
Michael Flaugh Landscape Architect
May 8, 2023

LOCATION MAP:



FDOT ROADWAY INFORMATION

-STATE ROAD AIA (SOUTH OCEAN BLVD.)
-ROADWAY ID: 93060000
-35 MPH DESIGN SPEED

-SIGHT DISTANCE DESIGN CRITERIA
-DESIGN SPEED 35 MPH
-PASSENGER VEHICLE
-D: 390
-DL: 275
-DR: 175

DESIGN PROFESSIONALS

LANDSCAPE ARCHITECT
MICHAEL FLAUGH LA
3744 SE OCEAN BLVD.
STUART FL, 34996

IRRIGATION DESIGNER
ROY TVEITE
RT IRRIGATION DESIGN
P.O. BOX 650622
VERO BEACH FL, 32965

LOCAL OFFICIAL

HIGHLAND BEACH
TOWN PLANNER
INGRID ALLEN
3614 SOUTH OCEAN BLVD.
HIGHLAND BEACH, FL 33487

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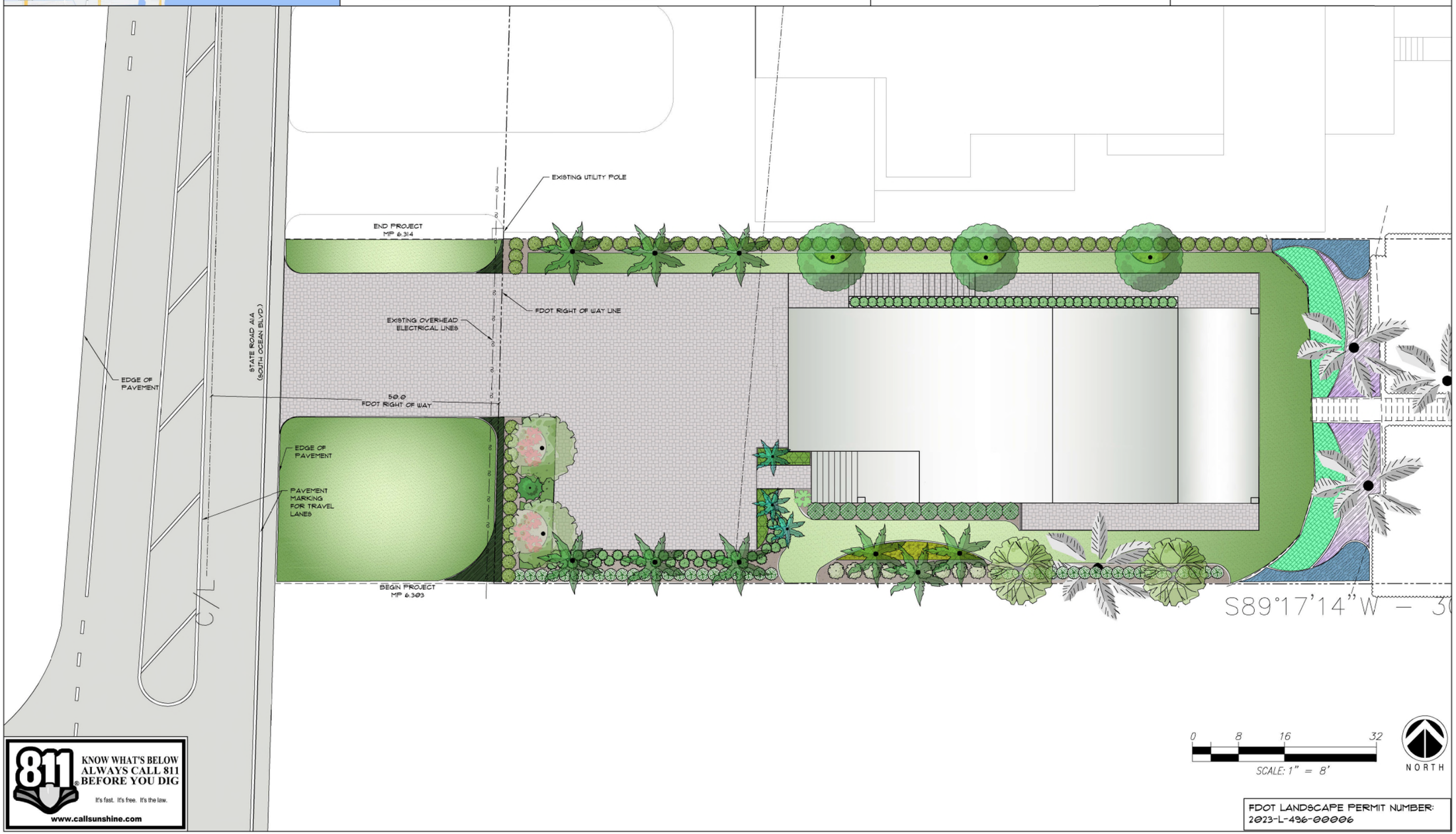
L3 - PLANT SCHEDULE / PLANT PICTURES
L4 - PLANTING DETAILS AND SPECIFICATIONS

IR-1 IRRIGATION PLAN
IR-2 IRRIGATION DETAILS
IR-3 IRRIGATION DETAILS



0 8 16 32
SCALE: 1" = 8'

NORTH

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FDOT LANDSCAPE PERMIT NUMBER:
2023-L-496-00006

Michael Flaugh LANDSCAPE ARCHITECT
FL Reg. #LA0001728
772.419.0024
Stuart
houzz.com/pro/Michael-Flaugh www.MikeFlaughLA.com

Sheet
T1
Title Sheet

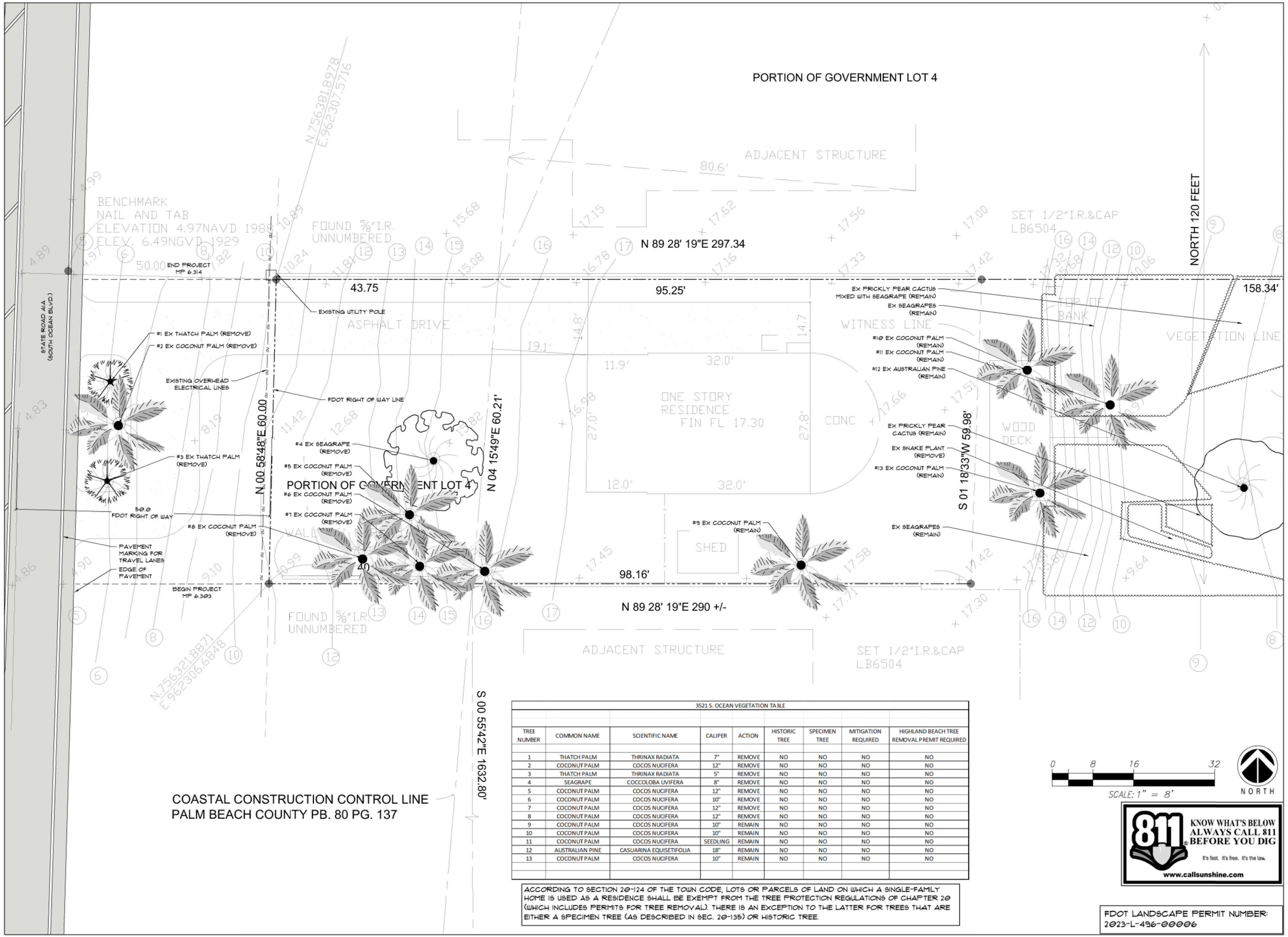
Landscape Plan
NEW RESIDENCE
3521 S Ocean Blvd., Highland Beach, FL 33487

Michael Flaugh
Digitally signed by Michael Flaugh
Date: 2023.05.08 15:27:15 -04'00'

Please note:
This landscape plan is a professional interpretation of existing and proposed site elements based on multiple sources of information. These sources may include: property surveys, architectural plans, google aerial imagery, site observations, photographs and site plans. At times, these supporting documents are inaccurate or approximate at best and on-site adjustments to the design during installation are necessary. **It is the contractors' responsibility to verify all measurements and quantities prior to commencing work.**

REGISTERED LANDSCAPE ARCHITECT MICHAEL FLAUGH LA 0001728 FLORIDA

Date: 07/27/2021
Design by: MF,PA
Reviewed by: MF
Scale: 1"=8'
Revised: 08/17/2021, 01/16/2023, 02/15/2023, 03/17/2023, 05/08/2023



3521 S. OCEAN VEGETATION TABLE

TREE NUMBER	COMMON NAME	SCIENTIFIC NAME	CALIPER	ACTION	HISTORIC TREE	SPECIMEN TREE	MITIGATION REQUIRED	HIGHLAND BEACH TREE REMOVAL PERMIT REQUIRED
1	THATCH PALM	THRINAX RADIATA	7"	REMOVE	NO	NO	NO	NO
2	COCONUT PALM	COCOS NUCIFERA	12"	REMOVE	NO	NO	NO	NO
3	THATCH PALM	THRINAX RADIATA	5"	REMOVE	NO	NO	NO	NO
4	SEAGRAPE	COCCOLOBA UVIFERA	8"	REMOVE	NO	NO	NO	NO
5	COCONUT PALM	COCOS NUCIFERA	12"	REMOVE	NO	NO	NO	NO
6	COCONUT PALM	COCOS NUCIFERA	10"	REMOVE	NO	NO	NO	NO
7	COCONUT PALM	COCOS NUCIFERA	12"	REMOVE	NO	NO	NO	NO
8	COCONUT PALM	COCOS NUCIFERA	12"	REMOVE	NO	NO	NO	NO
9	COCONUT PALM	COCOS NUCIFERA	10"	REMAIN	NO	NO	NO	NO
10	COCONUT PALM	COCOS NUCIFERA	10"	REMAIN	NO	NO	NO	NO
11	COCONUT PALM	COCOS NUCIFERA	SEEDLING	REMAIN	NO	NO	NO	NO
12	AUSTRALIAN PINE	CASUARINA EQUISETIFOLIA	18"	REMAIN	NO	NO	NO	NO
13	COCONUT PALM	COCOS NUCIFERA	10"	REMAIN	NO	NO	NO	NO

ACCORDING TO SECTION 20-124 OF THE TOWN CODE, LOTS OR PARCELS OF LAND ON WHICH A SINGLE-FAMILY HOME IS USED AS A RESIDENCE SHALL BE EXEMPT FROM THE TREE PROTECTION REGULATIONS OF CHAPTER 20 (WHICH INCLUDES PERMITS FOR TREE REMOVAL). THERE IS AN EXCEPTION TO THE LATTER FOR TREES THAT ARE EITHER A SPECIMEN TREE (AS DESCRIBED IN SEC. 20-135) OR HISTORIC TREE.

0 8 16 32

SCALE: 1" = 8'

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Michael Flaugh LANDSCAPE ARCHITECT
FL Reg. #LA0001728
772.419.0024
Stuart
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Sheet L1
Existing Vegetation Plan

Landscape Plan
NEW RESIDENCE
3521 S Ocean Blvd., Highland Beach, FL 33487

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Michael Flaugh
Digitally signed by Michael Flaugh
Date: 2023.05.08 15:27:37 -04'00'

REGISTERED LANDSCAPE ARCHITECT MICHAEL FLAUGH FLORIDA

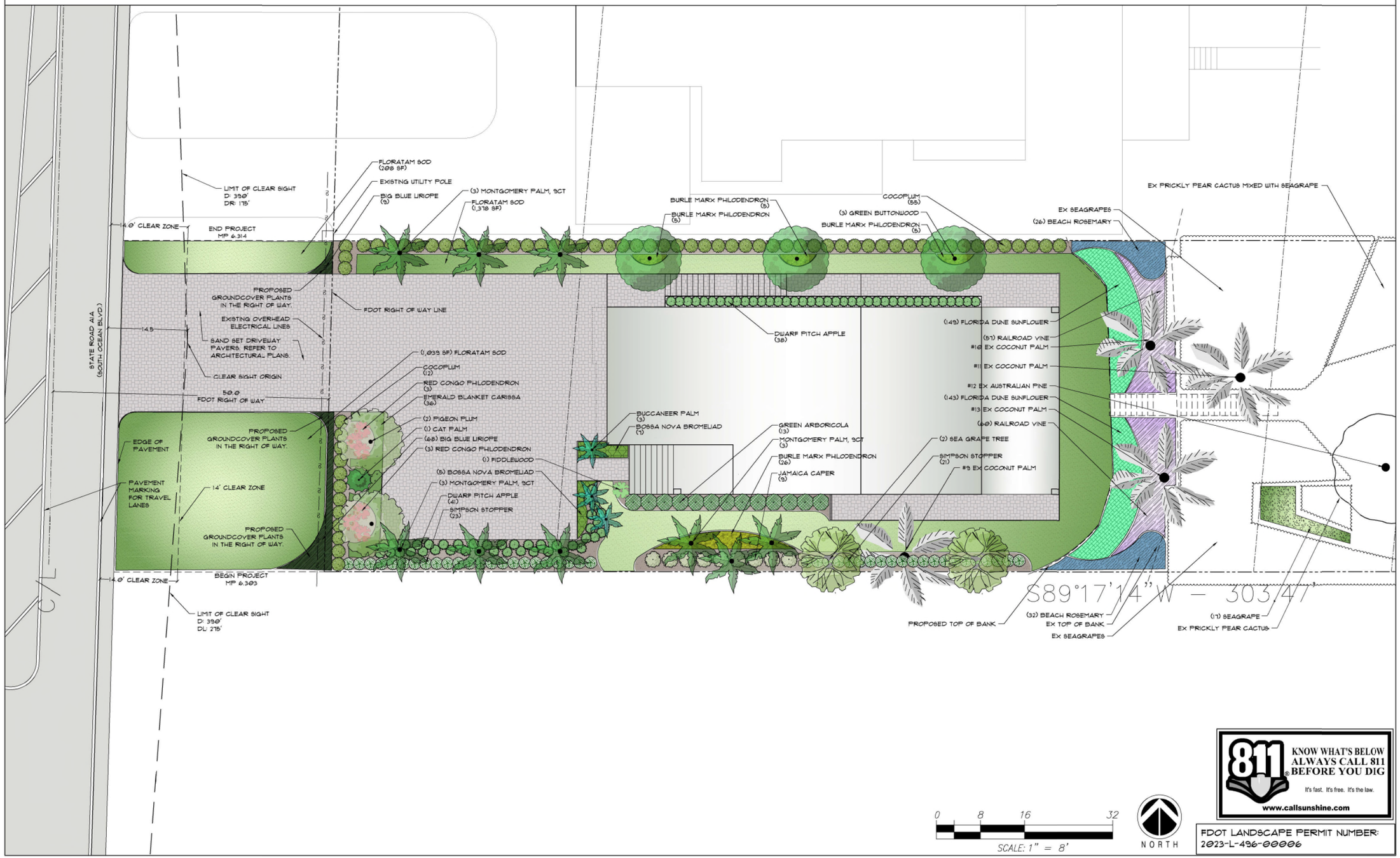
Date: 07/27/2021
Design by: MF,PA
Reviewed by: MF
Scale: 1"=8'
Revised: 08/17/2021, 01/16/2023, 02/15/2023, 03/17/2023, 03/08/2023

FDOT GENERAL NOTES

1. GOVERNING STANDARD PLANS:
   Florida Department of Transportation, FY 2022-23 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs) are available at the following website: https://www.fdot.gov/design/standardplans
2. GOVERNING STANDARD SPECTIFICATIONS:
   Florida Department of Transportation, July 2022 Standard Specifications for Road and Bridge Construction at the following website: https://www.fdot.gov.programmanagement/implemented/specbooks
3. Contractor shall repair all damage dore to FDOT property during demolition, relocation &/or installation acttivities at his sole expense.
4. 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 Landscape Architect.
5. Architectural Pavers installation for sidewalks, medians, driveways, or roadways within the FDOT right of way shall comply with current FDOT Standard Specification 526.
   Online Reference:
   https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/implemented/specbooks/fy-2023-24/fy2023-24ebook.pdf?sfvrsn=6b69416d_6
6. 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 FDOT Palm Beach 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 applicable FDOT Maintenance Specification 580. Online Reference:
   ssm5800000wd-722-i17992.pdf (windows.net)
2. For the portion of landscape plant material that will be installed within the FDOT Right of Way refer to the FDOT Standard Plans Index 580-001 Landscape Installation.
   Online Reference: *https://fdetwww.blob.core.windows.net/sitefinity/docs/default-source/design/standardplans/2023/idx/580-001.pdf?*
3. Sodded areas will be in accordance with Standard Plans Index 570-010 and Standard Specifications Sections 162, 570, 981, 982, 983, 987 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.



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Michael Flaugh
LANDSCAPE ARCHITECT
FL Reg. #LA0001728
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Stuart
www.MikeFlaughLA.com

Sheet
L2
Landscape Plan

Landscape Plan
NEW RESIDENCE

3521 S Ocean Blvd., Highland Beach, FL 33487

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Michael Flaugh
Digitally signed by Michael Flaugh
Date: 2023.05.08 15:27:53 -04'00'

REGISTERED LANDSCAPE ARCHITECT MICHAEL FLAUGH LA 0001728 STATE OF FLORIDA

Date: 07/27/2021
Design by: MF,PA
Reviewed by: MF
Scale: 1"=8'
Revised: 08/17/2021, 01/16/2023, 02/15/2023, 03/17/2023, 05/08/2023

PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	NOTES	NOTES
	2	COCCOLOBA DIVERSIFOLIA	PIGEON PLUM	B & B	3"CAL	14' OA HT.	NATIVE	DROUGHT TOLERANT
	2	COCCOLOBA UVIFERA	SEA GRAPE TREE	B & B	3"CAL	14' OA HT.	NATIVE	DROUGHT TOLERANT
	3	CONOCARPUS ERECTUS 'GREEN'	GREEN BUTTONWOOD	45 GAL	3"CAL	14' OA HT.	NATIVE	DROUGHT TOLERANT
	3	PSEUDOPHOENIX SARGENTII	BUCCANEER PALM	B & B		14' OA HT.	NATIVE	DROUGHT TOLERANT
	9	VEITCHIA MONTGOMERYANA	MONTGOMERY PALM, 9CT	B & B	FL FANCY	9' CT, 14' OA HT.	NON NATIVE	

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	SIZE	NOTES	NOTES
	9	CAPPARIS CYNOPHALLOPHORA	JAMAICA CAPER	7 GAL	AS SHOWN	3 - 4' HT., FULL	NATIVE	DROUGHT TOLERANT
	1	CHAMAEDOREA CATARACTARUM	CAT PALM	7 GAL	AS SHOWN	4' HT., 3' SPRD.	NON NATIVE	
	61	CHRYSOBALANUS ICACO 'RED-TIP'	COCOPLUM	7 GAL	AS SHOWN	36"HT., FULL	NATIVE	DROUGHT TOLERANT
	1	CITHAREXYLUM FRUTICOSUM	FIDDLEWOOD	7 GAL	AS SHOWN	36"HT., FULL	NATIVE	DROUGHT TOLERANT
	79	CLUSIA ROSEA 'NANA'	DWARF PITCH APPLE	3 GAL	AS SHOWN	14"X12"	NON NATIVE	DROUGHT TOLERANT
	44	MYRCIANTHES FRAGRANS	SIMPSON STOPPER	7 GAL	AS SHOWN	36"HT., FULL	NATIVE	DROUGHT TOLERANT
	6	PHILODENDRON 'ROJO CONGO'	RED CONGO PHILODENDRON	3 GAL	AS SHOWN	24"X24"	NON NATIVE	
	13	SCHEFFLERA ARBORICOLA	GREEN ARBORICOLA	25 GAL	AS SHOWN	4' HT., FULL	NON NATIVE	DROUGHT TOLERANT

SHRUB AREAS	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	SIZE	NOTES	NOTES
	17	COCCOLOBA UVIFERA	SEAGRAPE	3 GAL	24" O.C.	18" HT, FULL	NATIVE	DROUGHT TOLERANT

GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	SIZE	NOTES	NOTES
	36	CARISSA MACROCARPA 'EMERALD BLANKET'	EMERALD BLANKET CARISSA	1 GAL	18" O.C.	6"X8"	NON-NATIVE	DROUGHT TOLERANT
	58	CONRADINA CANESCENS	BEACH ROSEMARY	1 GAL	18" O.C.		NATIVE	DROUGHT TOLERANT
	292	HELIANTHUS DEBILIS	FLORIDA DUNE SUNFLOWER	1 GAL	12" OC	4"X8"	NATIVE	DROUGHT TOLERANT
	117	IPOMOEA PES-CAPRAE	RAILROAD VINE	1 GAL	18" O.C.	FULL	NATIVE	DROUGHT TOLERANT
	71	LIRIOPE MUSCARI 'BIG BLUE'	BIG BLUE LIRIOPE	1 GAL	12" OC	6"X8"	NON-NATIVE	
	12	NEOREGELIA 'BOSSA NOVA'	BOSSA NOVA BROMELIAD	1 GAL	24" O.C.	SUN GROWN, 12"X12"	NON-NATIVE	
	41	PHILODENDRON X 'BURLE MARX'	BURLE MARX PHILODENDRON	1 GAL			NON-NATIVE	

OTHER	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	SIZE	NOTES	NOTES
	2,625 SF	STENOTAPHRUM SECUNDATUM 'FLORATAM'	FLORATAM SOD	SOD	TIGHTLY FITTED, STAGGERED JOINTS			

GENERAL NOTE:
ALL PLANTS ARE TO BE A MINIMUM GRADE OF FLORIDA #1

REFERENCE NOTES SCHEDULE

SYMBOL	PLANTING ACCESSORIES DESCRIPTION	QTY	DEPTH/HEIGHT	INSTALLATION	PATTERN
32-94	MULCH	11.99 CY	3"	FINISHED GRADE EVEN WITH ADJACENT SOD/HARDSCAPES	BLACK, SHREADED, HARDWOOD, NON-CYPRESS
32-96	SOIL	16.9 CY	4"	TILLED IN	1:1 SCREENED COMPOST AND SCREENED TOPSOIL

NATIVE / DROUGHT TOLERANT PLANT TABLE		
PLANT TYPE	TOTAL PLANTS PROVIDED	NATIVE / DROUGHT TOLERANT
TREES / PALMS	19	10 (53%)
SHRUBS	220	213 (97%)
GROUNDCOVERS	650	520 (80%)


PIGEON PLUM


SEAGRAPE


GREEN BUTTONWOOD TREE


BUCCANEER PALM


MONTGOMERY PALM


CAT PALM


RED TIP COCOPLUM


FIDDLEWOOD


DWARF CLUSIA


SIMPSON STOPPER


RED CONGO PHILODENDRON


ARBORICOLA


CARISSA EMERALD BLANKET


BEACH ROSEMARY


FLORIDA DUNE SUNFLOWER


RAILROAD VINE


BIG BLUE LIRIOPE

IN FDOT R/W


BOSSA NOVA BROMELIAD


BURLE MARX PHILODENDRON


ST AUGUSTINE FLORATAM SOD

FDOT LANDSCAPE PERMIT NUMBER:
2023-L-496-00006

Michael Flaugh
LANDSCAPE ARCHITECT
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Stuart
10ucd.com/pro/Michael-Flaugh www.MikeFlaughLA.com

Sheet
L3
Plant Schedule / Plant Pictures

Landscape Plan
NEW RESIDENCE
3521 S Ocean Blvd., Highland Beach, FL 33487

Michael Flaugh
Digitally signed by Michael Flaugh
Date: 2023.05.08 15:28:06 -04'00'

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REGISTERED LANDSCAPE ARCHITECT MICHAEL FLAUGH FLORIDA

Date: 07/27/2021
Design by: MF,PA
Reviewed by: MF
Scale: 1"=8'
Revised: 06/17/2021, 01/16/2023, 02/15/2023, 03/17/2023, 05/08/2023

LANDSCAPE INSTALLATION NOTES:

1. THE LANDSCAPE CONTRACTOR SHALL DESIGNATE AN ENGLISH SPEAKING, SKILLED CREW FOREMAN FOR THE PROJECT, WHO WILL BE AVAILABLE AND ACCESSIBLE FOR THE DURATION OF THE LANDSCAPE INSTALLATION.

2. ALL SPECIFICATIONS MUST BE SATISFIED. IF THERE IS A PROBLEM LOCATING A MATERIAL WITH GIVEN SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT BY EMAIL PRIOR TO INSTALLATION. AT THE DISCRETION OF THE LANDSCAPE ARCHITECT, A SUBSTITUTION MAY BE MADE.

3. LANDSCAPE CONTRACTOR IS RESPONSIBLE TO REVIEW AND RECONCILE PLAN WITH LANDSCAPE MATERIALS LIST, AND ANALYZE SITE CONDITONS AND ACCESS PRIOR TO SUBMITTING A PROPOSAL

4. LANDSCAPE CONTRACTOR MUST PROVIDE EVIDENCE OF WORKMAN'S COMPENSATION AND LIABILITY INSURANCE IN PROPOSAL PACKAGE.

5. THE LANDSCAPE CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE LAWS, CODES AND ORDINANCES.

6. ALL PLANT MATERIAL FURNISHED BY THE LANDSCAPE CONTRACTOR SHALL BE FLORIDA #1 OR BETTER (GRADES AND STANDARDS FOR NURSERY PLANTS, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, LATEST EDITION), UNLESS OTHERWISE NOTED ON THE LANDSCAPE MATERIALS LIST. AS MANY SPECIES TOLERATE BOTH SUNNY AND SHADY GROWING CONDITIONS, THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PLANT MATERIAL GROWN IN SIMILAR CONDITIONS TO THE SITE.

7. THE LANDSCAPE CONTRACTOR SHALL COMPLETE ALL WORK ACCORDING TO THE FLORIDA GREEN INDUSTRIES BEST MANAGEMENT PRACTICES.

8. THE LANDSCAPE CONTRACTOR MUST SPECIFY START AND COMPLETION DATES, IF AWARDED THE PROJECT.

9. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK.

10. ALL PLANTING AREAS SHALL BE PREPARED BY REMOVING ALL DEBRIS, INCLUDING ASPHALT, CONCRETE, OR SIMILAR MATERIALS NOT SUITED FOR LANDSCAPE PLANTING.

11. PLANTING SOIL SHALL BE CLEAN OF ROCKS, STICKS, ROOTS AND WEEDS, AND SHALL BE WELL-DRAINING.

12. ALL LANDSCAPED AREAS SHALL BE FINISH GRADED SUCH THAT FINISHED ELEVATION WILL BE FLUSH AND LEVEL WITH SURROUNDING PAVED SURFACES. THE FINISHED GRADE AFTER PLANTING AND MULCHING SHALL NOT IMPEDE THE FLOW OF DRAINAGE INTO LANDSCAPED AREAS AND TO PREVENT THE BACKWASH OF MULCH AND DEBRIS INTO PAVED AREAS.

13. ALL PLANTING BEDS MUST DRAIN SUFFICIENTLY PRIOR TO PLANTING. IF EXISTING SOIL IS NOT ADEQUATE FOR ESTABLISHMENT OF PLANT MATERIALS DUE TO POOR DRAINAGE OR CHEMICAL PROPERTIES, SOIL AMENDMENTS SHALL BE ADDED PRIOR TO PLANTING.

14. PLANTS SHALL NOT BE PLACED TOO CLOSE TO ONE ANOTHER OR ANY HARDSCAPES. SEE LANDSCAPE MATERIALS LIST AND PLANTING DETAILS FOR SPACING AND PLACEMENT OF ALL PLANTS. A MULCH STRIP SHALL BE LEFT BETWEEN THE PLANTINGS AND WALLS, EDGE OF SOD, DRIVEWAY OR WALKWAYS. ALL PLANTS SHALL BE PLACED OUTSIDE THE EAVES OF THE ROOF, UNLESS OTHERWISE INDICATED ON THE LANDSCAPE PLAN.

15. ALL PLANTS TO BE RELOCATED SHALL BE PROPERLY ROOT PRUNED 6 TO 10 WEEKS PRIOR TO RELOCATION.

16. ALL NEW LANDSCAPE PLANTS SHALL BE PLANTED SLIGHTLY HIGHER THAN THE EXISTING GRADE LEAVING TOP OF THE ROOT BALL EXPOSED.

17. ALL PLANT MATERIALS SHALL BE THOROUGHLY WATERED IN AT THE TIME OF PLANTING.

18. 3" LAYER OF ORGANIC MULCH SHALL BE LAID IN ALL LANDSCAPE BEDS. NO MULCH SHALL BE LAID NEAR TREE TRUNKS. NO MULCH SHALL BE LAID ON TOP OF CITRUS TREE ROOT BALLS.

19. NEWLY PLANTED TREES SHALL BE STAKED ONLY IF THE ROOT BALL MOVES IN THE WIND OR THE TREES ARE LOCATED IN AN AREA OF WINDY CONDITIONS. ALL PALMS SHALL BE STAKED. ALL WOOD BRACES AND BRACE FRAMES SHALL BE STAINED DARK BROWN. NO NAILS SHALL BE DRIVEN INTO ANY PALM OR TREE.

20. PLANTING PLAN TAKES PRECEDENCE OVER PLANT LIST.

21. THE LANDSCAPE BID SHALL INCLUDE IRRIGATION ON A SEPARATE CONTRACT, EXPRESSED AS A LINE-ITEM PROPOSAL

22. ALL LANDSCAPE AREAS SHALL BE IRRIGATED WITH FULLY AUTOMATIC IRRIGATION SYSTEM. THE IRRIGATION CONTRACTOR SHALL PROVIDE 100% COVERAGE IN ALL IRRIGATED PLANTING AREAS. THE IRRIGATION SYSTEM SHALL BE DESIGNED ACCORDING TO ACCEPTED IRRIGATION STANDARDS USING WATER CONSERVATION PRINCIPLES WITH LOW-VOLUME IRRIGATION SYSTEM. THE SYSTEM SHALL ACCOMMODATE EASY ADJUSTMENTS FOR SEASONAL IRRIGATION NEED CHANGES OR LOCAL WATERING RESTRICTIONS.

23. ALL SOD AND SHRUB AREAS SHALL BE IRRIGATED ON SEPARATE ZONES, WHENEVER POSSIBLE: PLANTING AREAS WITH DIFFERENT WATERING NEEDS SHALL BE PLACED ON SEPARATE ZONES.

24. ALL SHRUB AND GROUND COVER AREAS SHALL BE IRRIGATED WITH DRIP LINE OR MIST HEADS= TREES AND PALMS SHALL HAVE BUBBLERS. ALL HEADS IN A GIVEN ZONE MUST HAVE THE SAME PRECIPITATION RATE.

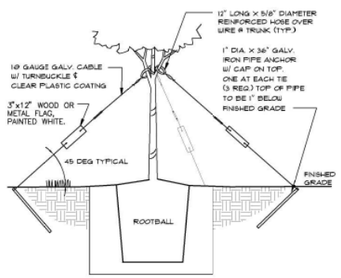
25. SPRAY HEADS SHALL BE PLACED AND ADJUSTED TO MINIMIZE OVER-SPRAY ON PAVED AREAS, ROADWAYS AND CURBING. NO OVER-SPRAY ON BUILDINGS IS ACCEPTABLE.

26. THE CONTRACTOR(S) SHALL KEEP ALL WORK AREAS NEAT AND TIDY ON A DAILY BASIS. AT COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL REMOVE FROM THE PROPERTY ALL TEMPORARY STRUCTURES AND GARBAGE AT HIS/HER OWN EXPENSE.

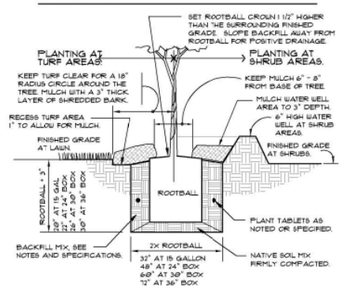
27. THE CONTRACTOR(S) SHALL KEEP ALL PLANTS WATERED, FERTILIZED, MULCHED, PRUNED, STAKED AND GUYED AS NECESSARY TO ASSURE SPECIFIED MINIMUM GRADE OF FLORIDA #1 THROUGHOUT THE DURATION OF THE PROJECT CONSTRUCTION PERIOD. PLANTING BEDS SHALL BE KEPT FREE OF LITTER AND UNDESIRABLE VEGETATION. THE CONTRACTOR(S) IS RESPONSIBLE FOR KEEPING ALL THE PLANT MATERIAL HEALTHY, VIGOROUS, AND UNDAMAGED THROUGHOUT THE DURATION OF THE PROJECT CONSTRUCTION PERIOD.

28. THE FINAL PAYMENT IS MADE UPON COMPLETION OF PROJECT AND EXECUTION OF LIEN RELEASE AFFIDAVIT.

29. ALL SHRUBS AND GROUND COVERS SHALL BE WARRANTIED FOR 90 DAYS; ALL TREES AND PALMS SHALL BE WARRANTIED FOR 1 YEAR FROM THE DATE OF FINAL ACCEPTANCE AND PAYMENT.



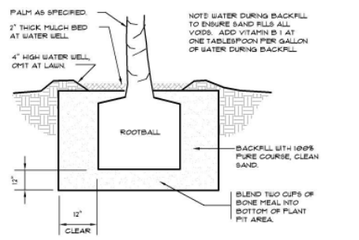
STAKING DETAIL



PLANT PIT DETAIL

1 TREE GUY WIRE PLANTING

NOT TO SCALE FX-PL-FX-TREE-11



2 PALM TREE PLANTING

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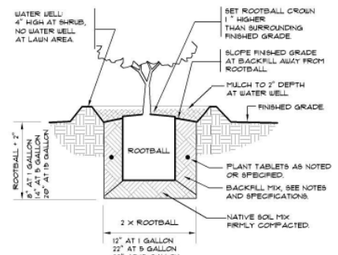

3 SHRUB PLANTING

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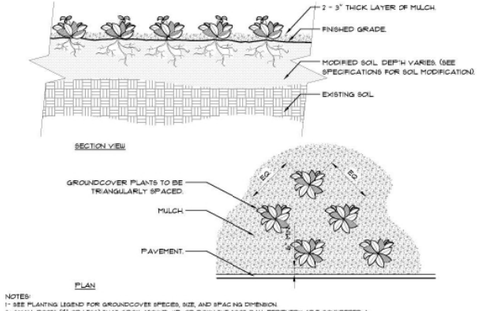


NOTES:
1- SEE PLANTING LEGEND FOR GROUNDCOVER SPECIES, SIZE, AND SPACING DIMENSION.
2- SMALL ROOTS (6" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE; HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS ON THE PERIPHERY CAN BE REMOVED AT THE TIME OF PLANTING. (SEE ROOT BALL SHAVING CONTAINER DETAIL)
3- SETTLE SOIL AROUND ROOT BALL OF EACH GROUNDCOVER PRIOR TO MULCHING.

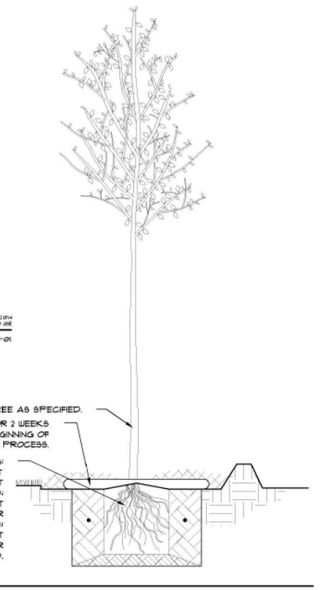
4 GROUNDCOVER

NOT TO SCALE

URBAN TREE FOUNDATION ©2014 OPEN SOURCE FREE TO USE

FX-PL-FX-GROU-01

NOTE:
1. ALLOW 3 MONTHS FOR THE ROOT-PRUNING PROCESS OF A LARGE TREE BEFORE RELOCATING IT.
2. IF THE RELOCATION IS SCHEDULED DURING DRY OR ACTIVE GROWING SEASON, THE TREE SHALL BE WATERED DAILY DURING THE ROOT PRUNING PROCESS.
3. THE TIME OF THE RELOCATION SHALL BE 90 DAYS AFTER THE START OF THE ROOT PRUNING PROCESS. THEN, THE ROOT BALL SHALL BE CUT BEYOND THE ROOT PRUNING CUT TO INCLUDE ALL NEW FEEDER ROOTS.
4. AFTER RELOCATION, THE TREE SHALL BE THOROUGHLY WATERED DAILY FOR THE FIRST TWO WEEKS, AND THREE TIMES PER WEEK FOR THE FOLLOWING TWO MONTHS.



5 TREE RELOCATION

NOT TO SCALE

LANDSCAPE MAINTENANCE GUIDELINES:

1. LAWN CARE:
   1.1. MAINTAIN ST. AUGUSTINE LAWN AT 3" HEIGHT. LEAVE LAWN CLIPPINGS ON THE LAWN.
   1.2. FERTILIZE IN FEBRUARY, MAY AND OCTOBER. APPLY PRE-EMERGENT WEED KILLER IN EARLY SPRING AND FALL.
   1.3. PRACTICE INTEGRATED PEST MANAGEMENT TO IDENTIFY AND TREAT INSECT STRESS, WEED AND FUNGAL PROBLEMS. INSPECT AND CONTROL INSECT DAMAGE ON LAWNS DURING SUMMER MONTHS. FOLLOW LABEL DIRECTIONS FOR ANY INSECTICIDE, HERBICIDE OR FUNGICIDE APPLICATION. REFER TO GROWERS GUIDELINES FOR DETAILED INSTRUCTIONS.
   1.4. 100% OF THE SOD AREAS SHALL BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM. INSPECT THE IRRIGATION SYSTEM FOR BREAKS AND HEAD ALIGNMENT ROUTINELY.

2. MULCH:
   2.1. ALL LANDSCAPE BEDS SHALL BE MULCHED TWICE A YEAR.
   2.2. APPLY 3" LAYER OF MSC CERTIFIED, SHREDDED EUCALYPTUS OR RECYCLED HARDWOOD MULCH.

3. FERTILIZING:
   3.1. FERTILIZE WITH A GOOD QUALITY ORGANIC FERTILIZER THREE TIMES A YEAR PER LABEL INSTRUCTIONS STARTING IN MID TO LATE FEBRUARY.
   3.2. YELLOWING LEAVES ARE OFTEN A SIGN OF NUTRITIONAL DEFICIENCY.
   3.3. DO NOT APPLY FERTILIZER BETWEEN JUNE 1 AND SEPTEMBER 30. COMPOST SHALL BE USED IN LIEU OF FERTILIZER DURNG THE RAINY SEASON, AS NEEDED.
   3.4. MAINTAIN A FERTILIZER FREE ZONE ALONG THE RIVER TO PREVENT RUN-OFF

4. PEST AND DISEASES:
   4.1. SCOUT FOR PESTS AND DISEASES REGULARLY. ONLY 1% OF ALL INSECTS ARE HARMFUL TO PLANTS.
   4.2. USE INTEGRATED PEST MANAGEMENT PRACTICES. USE PREVENTATIVE CHEMICAL APPLICATIONS ONLY, WHEN DETERMINED NECESSARY BY A PEST MANAGEMENT PROFESSIONAL.
   4.3. CHEMICAL PEST CONTROL SHALL BE USED ONLY WHEN THE DAMAGE IS EXPECTED TO BE SIGNIFICANT.

5. WEEDS:
   5.1. WEED CONTROL SHALL BE PREVENTATIVE.
   5.2. HERBICIDE APPLICATIONS MUST BE DONE BY A LICENSED PEST-CONTROL PROFESSIONAL

6. IRRIGATION:
   6.1. PROGRAM THE IRRIGATION SYSTEM TO RUN IN THE EARLY MORNING.
   6.2. NEW PLANTINGS SHOULD BE WATERED DAILY FOR THE FIRST TWO WEEKS, AFTER WHICH THREE TIMES PER WEEK FOR THE FOLLOWING TWO MONTHS.
   6.3. NEW TREES SHALL BE WATERED AT LEAST ONCE A WEEK FOR THE FOLLOWING YEAR AND SHRUBS FOR THE FOLLOWING 6 MONTHS FOR PROPER ESTABLISHMENT.
   6.4. TREES SHOULD RECEIVE 2 - 3 GALLONS OF WATER PER INCH OF TRUNK DIAMETER AT EACH WATERING.
   6.5. AT EACH WATERING, APPLY 1" WATER TO ESTABLISHED PLANTING BED.
   6.6. THE AUTOMATIC IRRIGATION SYSTEM SHALL BE INSPECTED ONCE A MONTH FOR LEAKS, BRAKES AND MISALIGNED HEADS.
   6.7. INCREASE WATERING FREQUENCY DURING TIMES OF HEAVY WINDS AND DROUGHT, TYPICALLY IN THE SPRING. PLEASE NOTE THAT A RAIN SENSOR WILL NOT DETECT THE DRYING EFFECTS OF HEAVY WINDS.
   6.8. REDUCE WATERING FREQUENCY DURING COOL WINTER AND RAINY SUMMER MONTHS. WATER ONLY AS NEEDED AS HEAVY RAINS AND IRRIGATION WILL INCREASE WEEDS. THE IRRIGATION SYSTEM MAY BE TURNED OFF DURING MONTHS OF HEAVY RAIN. A RAIN SENSOR MAY BE USED TO OVERRIDE THE SYSTEM DURING THE RAINY SEASON.

7. PRUNING:
   7.1. ALL PRUNING AND TRIMMING TOOLS SHALL BE CLEANED AFTER EACH USE TO PREVENT SPREADING OF DISEASES.
   7.2. REMOVE DEAD FRONDS, DEAD WOOD AND CROSSING BRANCHES ON LARGE SHRUBS, PALMS AND TREES ANY TIME OF THE YEAR.
   7.3. FLOWERING SHRUBS: LATE SUMMER AND FALL FLOWERING SHRUBS, AS WELL AS CONIFERS SHALL BE PRUNED ONCE A YEAR IN MARCH. SPRING BLOOMING SHRUBS SHALL BE PRUNED ONCE A YEAR, AFTER THEIR BLOOMS FADE IN LATE SPRING.
   7.4. SHADE TREES SHALL BE STRUCTURALLY PRUNED ONCE A YEAR IN SPRING BY A CERTIFIED ARBORIST.
   7.5. SHRUBS SHALL BE MAINTAINED FOLLOWING THEIR NATURAL FORM WITH ROUNDED TOP AND WIDER BASE. SMALL-LEAVED (LESS THAN 1" LENGTH) SHRUBS MAY BE SHEARED WITH POWERED HEDGE TRIMMERS. ALL SHRUBS SHALL BE TRIMMED ONE TO THREE TIMES A YEAR TO MAINTAIN DESIRED HEIGHT. ALL OVERGROWN SHRUBS SHALL BE CUT BACK IN MAY AND IN SEPTEMBER.
   7.6. HEDGES SHALL BE PRUNED REGULARLY FROM THE BEGINNING FOR PROPER ESTABLISHMENT. ALL HEDGES MUST BE MAINTAINED WITH NARROWER TOP THAN THE BOTTOM FOR SUNLIGHT TO REACH THE LOWER HALF OF THE PLANT.
   7.7. ORNAMENTAL GRASSES MAY BE CUT BACK ONCE A YEAR IN SUMMER TO REMOVE BROWN LEAVES. CUTTING MAY BE COMPLETED IN FOUR WEEK INTERVALS SO NOT TO HAVE ALL THE ORNAMENTAL GRASSES RECOVERING AT THE SAME TIME.

8. DIVIDING PLANTS:
   8.1. BROMELIADS: WHEN THE MOTHER PLANT TURNS BROWN, CAREFULLY PULL UP THE BROMELIAD CLUMP. CUT THE PUPS APART WITH A SHARP KNIFE OR PRUNERS PRESERVING AS MANY OF THE ROOTS AS POSSIBLE. DISCARD THE DYING MOTHER PLANT AND PLANT THE PUPS. THE DEAD MOTHER PLANT MAY ALSO BE TWISTED OFF AT THE BASE, WITHOUT REMOVING THE CLUMP FROM THE GROUND.
   8.2. HERBACEOUS PERENNIALS: THE CLUMPS MAY BE DIVIDED EVERY TWO TO THREE YEARS IN LATE SPRING OR SUMMER. DIG THE ROOT BALL OUT OF THE GROUND AND CAREFULLY DIVIDE THE CLUMP INTO 2-4 SMALLER SECTIONS.

9. RELOCATING PLANT MATERIAL:
   9.1. THE BEST TIME TO RELOCATE PLANTS IN THE GARDEN IS FEBRUARY THROUGH APRIL.
   9.2. THE PLANT SHALL BE PROPERLY ROOT-PRUNED BETWEEN 6 AND 10 WEEKS BEFORE RELOCATION.
   9.3. AT THE TIME OF THE RELOCATION, THE ROOT BALL SHALL BE CUT BEYOND THE ROOT PRUNING CUT TO INCLUDE ALL NEW FEEDER ROOTS.
   9.4. WATER RELOCATED PLANTS DAILY FOR THE FIRST TWO WEEKS, AFTER WHICH THREE TIMES PER WEEK FOR THE FOLLOWING TWO MONTHS.

10. MAINTAINING SOIL PH:
    10.1. SANDY SOILS ARE NATURALLY ALKALINE, BUT MOST PLANT MATERIALS PREFER SOILS IN NEUTRAL OR ACIDIC RANGE TO THRIVE.
    10.2. ADDING ORGANIC MATTER REGULARLY WILL MAINTAIN A HEALTHY PH LEVEL FOR ALL PLANTS.
    10.3. COMPOST WILL DECREASE THE SOIL PH THROUGH THE DECOMPOSITION PROCESS.
    10.4. ACIDIC ORGANIC MATTER, SUCH AS PINE NEEDLES AND ACID PEAT WILL REDUCE THE PH TEMPORARILY.
    10.5. GRANULAR SULFUR SHOULD ONLY BE USED AS THE LAST RESORT TO LOWER SOIL PH.

11. CONTAINER PLANTS:
    11.1. ONLY USE POTTING SOIL OR POTTING MIX IN CONTAINERS.
    11.2. WATER THOROUGHLY. CONTAINER PLANTS NEED MORE WATER THAN THE PLANTS IN THE GROUND. DURING SUMMER MONTHS, HERBS IN CONTAINERS WILL NEED WATERING ONCE DAILY.

12. COLD PROTECTION:
    12.1. WATER COLD SENSITIVE PLANTS THOROUGHLY 12 HOURS BEFORE THE FORECASTED COLD FRONT.
    12.2. COVER THE PLANTS AT DUSK WITH BLANKETS OR BREATHABLE COVERS. REMOVE THE COVERS AFTER DAWN.

FDOT LANDSCAPE PERMIT NUMBER:
2023-L-496-00000

Michael Flaugh
LANDSCAPE ARCHITECT
FL Reg. #LA0001728
772.419.0024
Stuart
www.MikeFlaughLA.com

Sheet
L4
Details and Specifications

Landscape Plan
NEW RESIDENCE
3521 S Ocean Blvd., Highland Beach, FL 33487

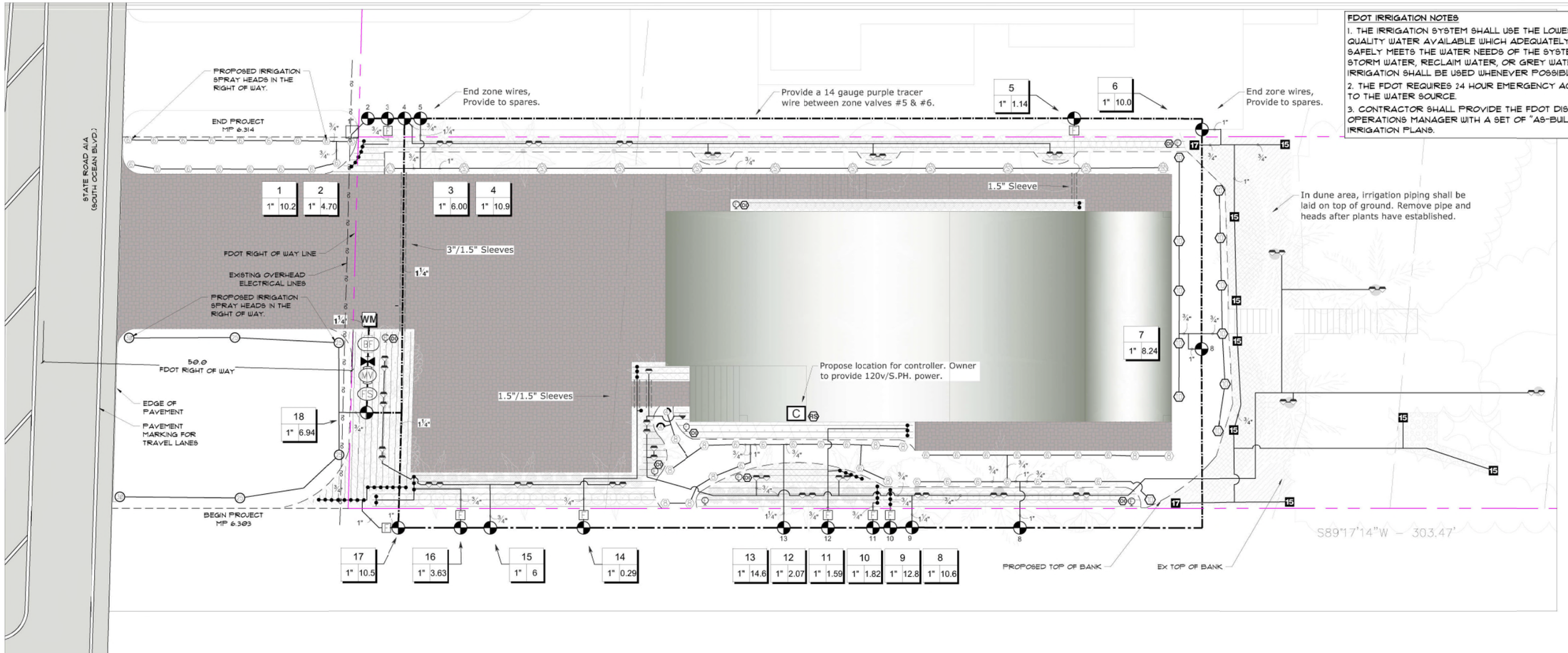
These sources may include: property surveys, architectural plans, google aerial imagery, site observations, photographs and site information. These sources may not be accurate or approximate or best and on-site adjustments to the design during installation are necessary. *It is the contractors' responsibility to verify all measurements and quantities prior to commencing work.*

Michael Flaugh
Digitally signed by Michael Flaugh
Date: 2023.05.08 15:28:20 -04'00'

Please note: This landscape plan is a professional interpretation of existing and proposed site elements based on multiple sources of information. These sources may include: property surveys, architectural plans, google aerial imagery, site observations, photographs and site plans. At times, these supporting documents are inaccurate or approximate or best and on-site adjustments to the design during installation are necessary.

REGISTERED LANDSCAPE ARCHITECT MICHAEL FLAUGH LA 0001728 STATE OF FLORIDA

Date: 07/27/2021
Design by: MF,PA
Reviewed by: MF
Scale: 1"=8'
Revised: 08/17/2021, 01/16/2023, 02/15/2023, 03/17/2023, 05/08/2023



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. THE FDOT REQUIRES 24 HOUR EMERGENCY ACCESS TO THE WATER SOURCE.
3. CONTRACTOR SHALL PROVIDE THE FDOT DISTRICT OPERATIONS MANAGER WITH A SET OF "AS-BUILT" IRRIGATION PLANS.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	
EST LCS RCS CST SST	Hunter PROS-06-CV 15 Strip Series Turf Spray 6" Pop-Up Sprinkler. With Drain Check Valve.	
08HE-VAN 12HE-VAN 10HE-VAN 15HE-VAN	Hunter PROS-06-CV, Rain Bird HE-VAN Series nozzles Turf Spray 6" Pop-Up Sprinkler with Drain Check Valve.	
2Q 2H 2F 4Q 4H 4F	Hunter PROS-06-CV, with Rain Bird SQ Series nozzles. Turf Spray 6.0" Pop-Up Sprinkler. With Drain Check Valve.	
4 8 12	Hunter PROS-06-CV ADJ Turf Spray 6.0" Pop-Up Sprinkler. With Drain Check Valve.	
4 6 8 10 12 15 17	Hunter PROS-12-CV Adj Series Shrub Spray, 12in. Pop-Up. With Drain Check Valve.	
25 50 10 20	Hunter PCB 10 Flood Bubbler, 1/2" FIPT.	
	Hunter PGP-04-MPR 25 Turf Rotor, 4" Pop-Up. Adjustable to Full Circle. MPR Nozzle.	
	Netafim TL050MFV-1 Automatic flush valve, 1/2" male pipe thread.	8
	Rain Bird QPERIND Drip System Operation Indicator, stem rises 6" for clear visibility when drip system is charged to a minimum of 20psi. Includes 16" of 1/4" distribution tubing with connection fitting pre-installed.	7
	Area to Receive Dripline Hunter HDL-09-12-CV HDL-09-12-CV: Hunter Dripline w/ 0.9 GPH emitters at 12" O.C. Check valve, dark brown tubing w/ black striping. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. Install with Hunter PLD barbed or PLD-LOC fittings.	2,233 l.f.
	Hunter PGV-101A 1" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet. Angle Configuration, With Flow Control.	
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location. Size Range - 1/4" - 3"	
MV	Hunter ICV-G 1" 1" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet.	

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
BF	Proposed Zurn 720A 1" Pressure Vacuum Breaker (by others)
C	Hunter PHC-2400 Wi-Fi enabled, full-functioning controller with touchscreen, 24-Station fixed controller, 120 VAC, Outdoor model.
RS	Hunter WR-CLIK Rain Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted.
FS	Hunter HC-100-FLOW 1" Flow meter for use with Hydrawise enabled controller to monitor flow and provide system alerts. Also functions as stand alone flow totalizer/sub meter on any residential or commercial irrigation system.
F	Hunter HY-100 1" MPT x MPT threaded inlet and outlet filter with 150 mesh stainless steel screen
WM	Water Meter 1" Owner to Provide a (1") potable water meter with a minimum size PE service line of 1.25 inches.
	Irrigation Lateral Line: PVC Schedule 40 Sch-40 solvent weld bell end PVC pipe, ASTW D2266. Use only Weld-on Medium body 721 Blue glue with P-70 purple primer. Apply solvent weld glue per manufactures instructions. See specifications and details for additional installation instructions.
	Irrigation Mainline: PVC Schedule 40 Sch-40 solvent weld bell end PVC pipe. Use only Weld-on Medium body 721 Blue glue with P-70 purple primer. Apply solvent weld glue per manufactures instructions. See specifications and details for additional additional instructions.
	Pipe Sleeve: PVC Schedule 40 Sleeving sizes 1.5-inch thru 4-inch shall be Sch-40 pipe, Sleeving 6-inch and larger shall be Class 200 pipe. See details and specifications for additional installation instructions.

Valve Callout

WATERING SCHEDULE

NUMBER	MODEL	TYPE	PRECIP	SUN	MON	TUE	WED	THU	FRI	SAT	IN./WEEK	GAL./WEEK	GAL./DAY
1	Hunter PGV-101A	Turf Spray	4.66 in/h		6 min		6 min			6 min	1.3	173	57.6
2	Hunter PGV-101A	Area for Dripline	1.45 in/h		18 min		18 min			18 min	1.25	244	81.4
3	Hunter PGV-101A	Bubbler	2.58 in/h		7 min		7 min			7 min	0.9	126	42
4	Hunter PGV-101A	Turf Spray	2.27 in/h		12 min		12 min			12 min	1.3	381	127
5	Hunter PGV-101A	Area for Dripline	1.45 in/h		18 min		18 min			18 min	1.25	59.3	19.8
6	Hunter PGV-101A	Shrub Spray	0.92 in/h		29 min		29 min			29 min	1.3	850	283
7	Hunter PGV-101A	Turf Spray	1.88 in/h		14 min		14 min			14 min	1.3	346	115
8	Hunter PGV-101A	Turf Spray	3.66 in/h		8 min		8 min			8 min	1.3	232	77.4
9	Hunter PGV-101A	Bubbler	2.49 in/h		8 min		8 min			8 min	0.9	281	93.5
10	Hunter PGV-101A	Area for Dripline	1.45 in/h		18 min		18 min			18 min	1.25	94.4	31.5
11	Hunter PGV-101A	Area for Dripline	1.45 in/h		18 min		18 min			18 min	1.25	82.7	27.6
12	Hunter PGV-101A	Area for Dripline	1.44 in/h		18 min		18 min			18 min	1.25	108	35.9
13	Hunter PGV-101A	Turf Spray	4.76 in/h		6 min		6 min			6 min	1.3	247	82.5
14	Hunter PGV-101A	Area for Dripline	1.42 in/h		18 min		18 min			18 min	1.25	15.1	5.04
15	Hunter PGV-101A	Bubbler	2.58 in/h		7 min		7 min			7 min	0.9	126	42
16	Hunter PGV-101A	Area for Dripline	1.44 in/h		18 min		18 min			18 min	1.25	189	62.9
17	Hunter PGV-101A	Area for Dripline	1.91 in/h		14 min		14 min			14 min	1.25	421	140
18	Hunter PGV-101A	Turf Rotor	0.79 in/h		33 min		33 min			33 min	1.3	687	229
		TOTALS:			270		270			270		4,662	1,554

Note: Run times are base on SFWMD 10 year average rain fall, peak usage in July. Contractor / owner must adjust run time to current weather condition..

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI @ POC	PRECIP
1	Hunter PGV-101A	1"	Turf Spray	10.16	35.7	4.66 in/h
2	Hunter PGV-101A	1"	Area for Dripline	4.7	35.3	1.44 in/h
3	Hunter PGV-101A	1"	Bubbler	6	41.4	n/a
4	Hunter PGV-101A	1"	Turf Spray	10.89	37.4	2.27 in/h
5	Hunter PGV-101A	1"	Area for Dripline	1.14	35.5	1.44 in/h
6	Hunter PGV-101A	1"	Shrub Spray	10.0	42.2	0.92 in/h
7	Hunter PGV-101A	1"	Turf Spray	8.24	35.7	1.88 in/h
8	Hunter PGV-101A	1"	Turf Spray	10.56	36.0	3.66 in/h
9	Hunter PGV-101A	1"	Bubbler	12.75	42.3	n/a
10	Hunter PGV-101A	1"	Area for Dripline	1.82	35.4	1.44 in/h
11	Hunter PGV-101A	1"	Area for Dripline	1.59	35.3	1.44 in/h
12	Hunter PGV-101A	1"	Area for Dripline	2.07	35.4	1.44 in/h
13	Hunter PGV-101A	1"	Turf Spray	14.55	35.9	4.76 in/h
14	Hunter PGV-101A	1"	Area for Dripline	0.29	35.0	1.44 in/h
15	Hunter PGV-101A	1"	Bubbler	6	40.5	n/a
16	Hunter PGV-101A	1"	Area for Dripline	3.63	35.1	1.44 in/h
17	Hunter PGV-101A	1"	Area for Dripline	10.53	35.3	1.44 in/h
18	Hunter PGV-101A	1"	Turf Rotor	6.94	34.9	0.79 in/h

0 8 16 32

SCALE: 1" = 8'

NORTH

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FDOT LANDSCAPE PERMIT NUMBER: 2023-L-496-00006

Scale:	1" = 8'
Design Date:	03-28-2022
Drawn By:	RT
Last Date Modified	01-24-2023

Revisions: 1. 2. 3. 4. 5. 6.

IRRIGATION PLAN

New Residence
3521 S. Ocean Blvd
Highland Beach, FL., 33487

Michael Flaugh
Digitally signed by Michael Flaugh
Date: 2023.05.08 15:28:34 -04'00'

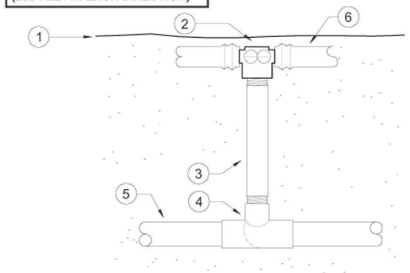
NORTH

REGISTERED LANDSCAPE ARCHITECT MICHAEL FLAUGH FLORIDA

IR-1
of 3

Project # 2022-0328_HB

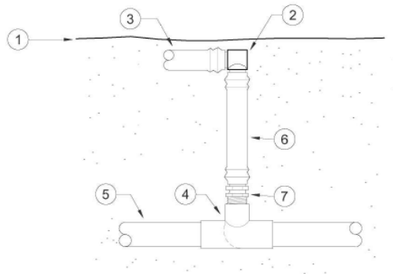
MAX 6.90 GPM FLOW PER RISER. (230 FEET IN EACH DIRECTION)



1. FINISHED GRADE
2. HUNTER PLD-075-TB-TEE. BARB TEE x 3/4" FPT.
3. 3/4" SCH-80 NIPPLE, LENGTH AS REQUIRED.
4. SCH-40 PVC TEE, (S x S x FPT).
5. PVC PIPE, DRIPLINE SUPPLY / EXHAUST HEADER.
6. DRIPLINE 2-INCHES BELOW FINISHED GRADE.

1 DRIPLINE SUPPLY HEADER CENTER FEED RISER

N.T.S. DRIPLINE SUPPLY HEADER CENTER FEED RISER

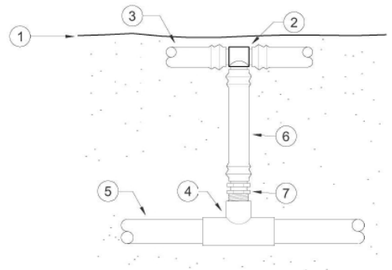


1. FINISHED GRADE
2. HUNTER PLD-ELB, ELBOW.
3. DRIPLINE, SEE SPECIFICATIONS FOR TYPE. PLACE 2-INCHES UNDER MULCH.
4. SCH-40 PVC ¾" TEE, (S x S x FPT) OR ¾" (S x FPT) ELBOW
5. PVC PIPE, DRIPLINE SUPPLY / EXHAUST HEADER.
6. BLANK TUBING.
7. HUNTER PLD-050 ADAPTOR.

MAX 3.45 GPM FLOW PER BLANK TUBING RISER. (230 feet tubing)

2 DRIPLINE SUPPLY / EXHAUST HEADER CONNECTION

N.T.S. DRIPLINE SUPPLY / EXHAUST HEADER CONNECTION



1. FINISHED GRADE
2. HUNTER PLD-TEE.
3. DRIPLINE, SEE SPECIFICATIONS FOR TYPE. PLACE 2-INCHES BELOW FINISHED GRADE.
4. SCH-40 PVC ¾" TEE, (S x S x FPT).
5. PVC PIPE, DRIPLINE SUPPLY / EXHAUST HEADER.
6. BLANK TUBING.
7. HUNTER PLD-050 ADAPTOR.

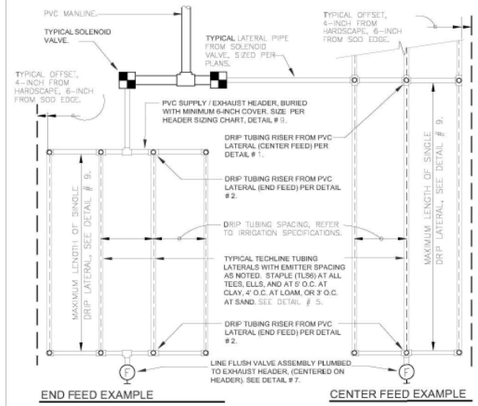
MAX 3.45 GPM FLOW PER BLANK TUBING RISER. (230 feet tubing)

3 DRIPLINE SUPPLY / EXHAUST HEADER CONNECTION

N.T.S. DRIPLINE SUPPLY / EXHAUST HEADER CONNECTION

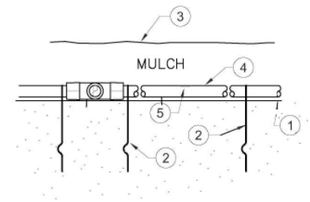
DRIP SPECIFICATIONS:

1. DRIP TUBING; HUNTER HDL-CV-GOP, ROW SPACING 12-INCHES. DRIP GRID LAY-OUT IS BASED ON 30 PSI. IF PRESSURE BY SOLENOID VALVE IS HIGHER THAN 50 PSI, INSTALL A AS-50 ON SOLENOID VALVE.
2. INSTALL DRIP SYSTEM IN THE FOLLOWING ORDER: A). WITH ALL MAINLINE AND IT'S ASSOCIATE EQUIPMENT COMPLETELY INSTALLED, FLUSH MAINLINE TILL FREE AND CLEAR OF DEBRIS. B). INSTALL ALL LATERALS TO THE VARIOUS DRIP GRIDS, AND SUPPLY HEADERS WITH RISERS EXTENDED ABOVE GROUND. CENTER FEED RISERS, TEMPORARY EXTEND NIPPLES WITH PIPE AND COUPLINGS (DO NOT GLUE). FLUSH TILL FREE AND CLEAR OF DEBRIS, TEMPORARY CAP NIPPLES, SEAL BLANK TUBING (RISERS) WITH TAPE. C). INSTALL EXHAUST HEADERS - RISERS - FLUSH POINTS. D). INSTALL DRIP GRID, STAPLE TUBING PER DETAIL #5, CONNECT DRIP TUBING TO SUPPLY HEADER RISERS. FLUSH TILL FREE AND CLEAR OF DEBRIS. E). CONNECT DRIP GRID TO EXHAUST HEADER RISERS, FLUSH SYSTEM USING "FLUSH VALVE". PVC DISCHARGE AND EXHAUST HEADERS MUST BE BURIED WITH MINIMUM 6" COVER. MULCH IS NOT CONSIDERED AS COVERAGE.
3. INSTALL OPERATION INDICATORS "OI" WITHIN 12-INCHES OF FLUSH POD, ONE AT END OF EACH DRIP GRID. SEE DETAIL #6. ACTIVATE DRIP ZONE, ENSURE ALL OPERATION INDICATORS ARE FULLY EXTENDED, ADJUST STREAM SPRAY TO WHERE IT CAN EASILY BE SEEN BY MAINTENANCE PERSON.
4. PRESSURE TEST WITH OWNERS REPRESENTATIVE PRESENT; PER ZONE, TEMPORARY INSTALL (2) PRESSURE GAUGES (LIQUID FILLED PRESSURE GAUGES) ON (2) FLUSH POINTS, (1) ON LARGEST GRID "FLUSH POINT" AND THE OTHER ON FARTHEST GRID "FLUSH POINT". ACTIVATE ZONE, AFTER FLOW HAS STABILIZED, VERIFY ALL ZONE OPERATION INDICATORS ARE FULLY EXTENDED, CHECK PRESSURE ON BOTH GAUGES, PRESSURE MUST BE 20 PSI OR HIGHER TO PASS TEST. IF TEST FAILS, CONTRACTOR TO LOCATE AND CORRECT PROBLEM AND RETEST. IT IS IN THE CONTRACTORS BEST INTEREST TO PERFORM HIS OWN TEST BEFORE HE CALLS OWNERS REPRESENTATIVE PRESENTS TO AVOID RE-INSPECTION FEE'S.
5. PRESSURE TEST RESULTS SHALL BE NOTED AS-BUILD DRAWING BY THE "FLUSH VALVE" WHERE TESTS WAS TAKEN. ALL "FLUSH VALVE" LOCATIONS SHALL BE INCLUDED IN AS-BUILD DRAWINGS.



4 GENERAL DRIP EQUIPMENT PLACEMENT

N.T.S.



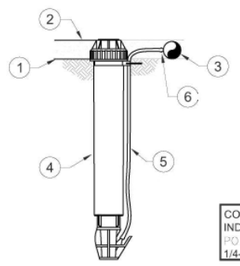
NOTES:

1. PLACE TIE DOWN STAKES EVERY 3-FEET IN SAND, 4-FEET IN LOAM, AND EVERY 5-FEET IN CLAY.
2. PLACE (1) DRIP STAKE ON EACH FITTING. IN LOOSE SANDY SOIL, PLACE DRIP STAKES ON A 60-DEGREE ANGLE (ALONG DRIPLINE), AND (2) STAKES ON 60 DEGREE ANGLE ON EACH DRIP FITTING.

1. FINISHED GRADE.
2. TIE DOWN STAKE; RAIN BIRD TDS-050 WITH BEND.
3. 3-INCH MULCH.
4. DRIPLINE.
5. DRIPPER.

5 RAIN BIRD TDS-050 (WITH BEND) DRIP STAKES

N.T.S.



1. FINISHED GRADE.
2. TOP OF MULCH.
3. ON SURFACE DRIP TUBING.
4. OPERATION INDICATOR.
5. 1/4" TUBING - PROVIDED WITH POP-UP.
6. CONNECT TO DRIP TUBING. RAIN BIRD 1/4" XBF1CONN.

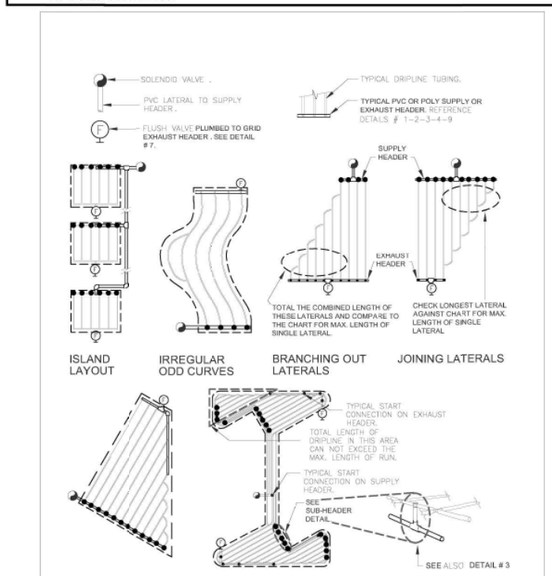
CONTRACTOR MUST PLACE OPERATION INDICATOR WITHIN 12-INCHES OF FLUSH POINT / VALVE ASSEMBLY. EXTEND 1/4-INCH TUBING AS NECESSARY.

NOTES:

1. USE XERIMAN TOOL XM-TOOL TO INSERT BARB TRANSFER FITTING DIRECTLY INTO DRIPLINE TUBING.
2. VAN NOZZLE MAY BE SET TO CLOSE, OR IF IT IS DESIRED TO SEE SPRAY FROM NOZZLE, SET THE ARC TO ¼ PATTERN. THE FLOW FROM NOZZLE MUST BE DIRECTED WITHIN PLANTING AREA, VISIBLE ENOUGH TO BE SEEN / LOCATED BY MAINTENANCE PERSON.

6 RAIN BIRD OPERATION INDICATOR

N.T.S.

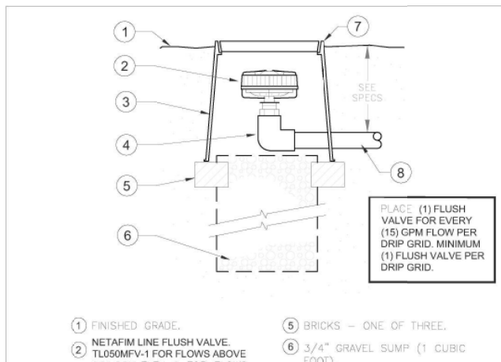


NOTES:

1. THESE TYPICAL LAY-OUT DRAWINGS ARE TO SHOW HOW THE WATER MOVEMENT IN DRIP LINES FLOW TOWARDS EXHAUST HEADER, AND WHAT REQUIRED CALCULATIONS ARE NEEDED TO BE PERFORMED BY CONTRACTOR.
2. MOST LANDSCAPE BEDS ARE IRREGULAR AND MAY NOT REFLECT THE SHAPE AND SIZE AS SHOWN IN THESE DETAILS. CONTRACTOR SHALL LAY-OUT SHRUB BED DRIP GRID BASE ON THE PRINCIPLES SHOWN IN THIS DETAIL AND ACCORDING TO ALL OTHER DETAILS SHOWN ON THIS SHEET.

10 TYPICAL DRIP GRID LAY-OUT

N.T.S.



1. FINISHED GRADE.
2. NETAFIM LINE FLUSH VALVE. TL050MFV-1 FOR FLOWS ABOVE 3.64 GPM. TLFV-1 FOR FLOWS UP TO 3.64 GPM.
3. RAIN BIRD VB-10RND VALVE BOX.
4. 1" SCH-40 ELBOW (S x FPT), WITH 1" x ¾" BUSHING.
5. BRICKS - ONE OF THREE.
6. ¾" GRAVEL SUMP (1 CUBIC FOOT).
7. RAIN BIRD PVB-6RND VALVE BOX. TOP OF VALVE BOX FLUSH WITH TOP OF MULCH.
8. 1-INCH PVC LATERAL FROM EXHAUST HEADER.

7 NETAFIM FLUSH VALVE - PLUMBED TO PVC

N.T.S.

HDL-COP DRIPLINE GENERAL GUIDELINES FOR WATERING TIME

	TURF			SHRUB & GROUND COVER		
	CLAY	LOAM	SANDY	CLAY	LOAM	SANDY
DIPPER FLOW (GPH)	0.40	0.60	0.90	0.40	0.60	0.90
DRIPPER INTERVAL	24"	12"	12"	24"	18"	12"
LATERAL (ROW) SPACING	18"-24"	12"	9"-12"	18"-24"	18"-24"	12"-18"
APPLICATION RATE (IN/HR)	.22-.17	.96	1.93-1.44	.22-.17	.43-.32	1.44-.96
TIME TO APPLY 1/4"	68-88	16	8 -10	68-88	35-47	10-16

8 HUNTER HDL-COP DRIPLINE TABLE -1

N.T.S.

HUNTER HDL-COP MAXIMUM LENGTH OF SINGLE LATERAL (FEET)

DRIPPER SPACING			12"			18"			24"	
DRIPPER FLOW RATE (GPH)			0.4	0.6	0.9	0.4	0.6	0.9	0.6	0.9
INLET PRESSURE (PSI)	15	–	285	236	164	404	333	233	423	292
	20	–	339	280	192	475	395	273	501	348
	30	–	411	339	236	582	482	333	610	419
	40	–	463	385	267	657	545	376	688	479

HUNTER HDL-COP FLOW PER 100 FEET

DRIPPER SPACING			0.4 GPH DRIPPER		0.6 GPH DRIPPER		0.9 GPH DRIPPER	
	GPH	GPM	GPH	GPM	GPH	GPM	GPH	GPM
12"	–	–	40.00	0.67	60.00	1.00	90.0	1.50
18"	–	–	26.67	0.44	40.00	0.67	59.9	0.99
24"	–	–	20.00	0.33	30.00	0.50	45.0	0.75

SUPPLY AND EXHAUST HEADER SIZING CHART (UNLESS NOTED ON PLANS)

STEP 1: ADD LENGTH OF ALL TECHLINE LATERAL TUBING CONNECTED TO THE HEADER.
STEP 2: DIVIDE THIS TOTAL LENGTH BY 100 TO INDICATE THE LENGTH IN UNITS OF 100.
STEP 3: LOCATE THE GPM THAT APPLIES FOR EACH UNIT OF 100 FEET LENGTH ON THE CHART "TECHLINE FLOW PER 100 FEET". MULTIPLY THIS GPM NUMBER TIMES THE UNITS OF 100 FEET FOR THE TOTAL GPM AT THIS HEADER.
STEP 4: SIZE THE HEADER WITH THE FOLLOWING:
1 TO 6 GPM: 3/4" HEADER. 6 TO 10 GPM: 1" HEADER.
10 TO 20 GPM: 1 1/4" HEADER. 20 TO 30 GPM: 1 1/2" HEADER.

9 HUNTER HDL-COP DRIPLINE TABLE - 2

N.T.S.

FDOT LANDSCAPE PERMIT NUMBER: 2023-L-496-00006

Scale:	1" = 8'
Design Date:	03-28-2022
Drawn By:	RT
Last Date: Modified	01-24-2023

Revisions: 1 2 3 4 5 6

IRRIGATION DRIP DETAILS

New Residence
3521 S. Ocean Blvd
Highland Beach, FL., 33487

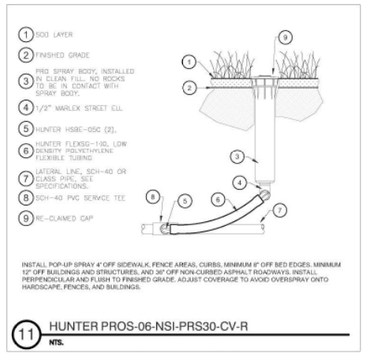
Michael Flaugh
Digitally signed by Michael Flaugh
Date: 2023.05.08 15:28:47 -04'00'

NORTH

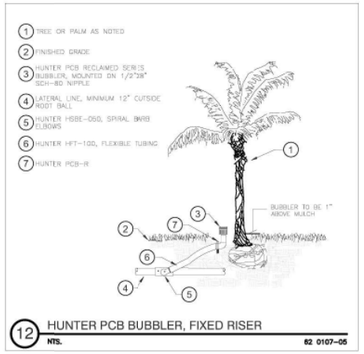
REGISTERED LANDSCAPE ARCHITECT MICHAEL FLAUGH FLORIDA

IR-2
of 3

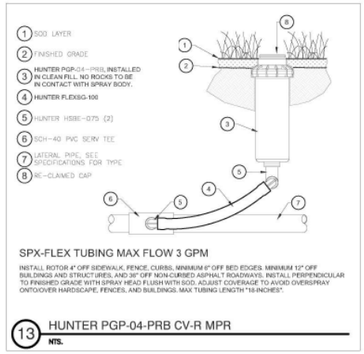
Project # 2022-0328_HB



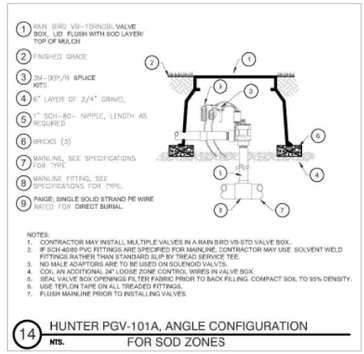
11 HUNTER PROS-06-NSI-PRS30-CV-R
NTS.



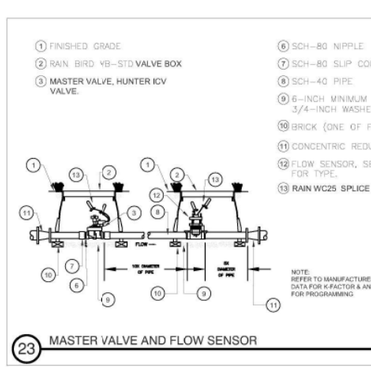
12 HUNTER PCB BUBBLER, FIXED RISER
NTS. 62 0107-05



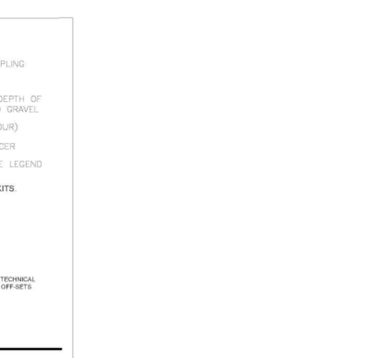
13 HUNTER PGP-04-PRB CV-R MPR
NTS.



14 HUNTER PGV-101A, ANGLE CONFIGURATION FOR SOD ZONES
NTS.



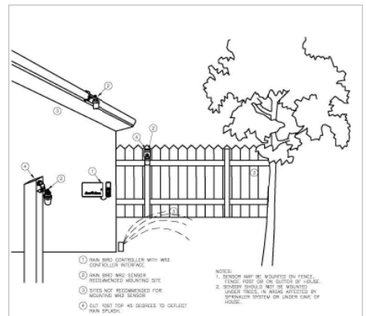
15 HUNTER PGV-101A, w/ HY-100 Filter & ACCU-SYNC Adjustable PR. Reg For Drip Zones
NTS



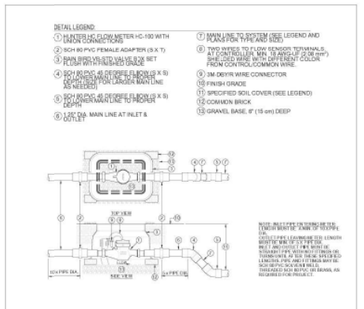
16 HUNTER ICV-101G, with adjustable ACCU-SYNC

17 NIBCO T-113 GATE VALVE
NTS P-HO-13

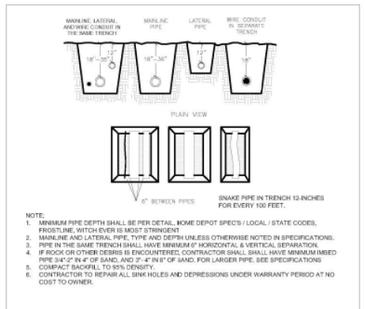
18 HUNTER HPC-400-PL CONTROLLER
NTS W/ WIFI AND (2) PCM-900 MCDULES



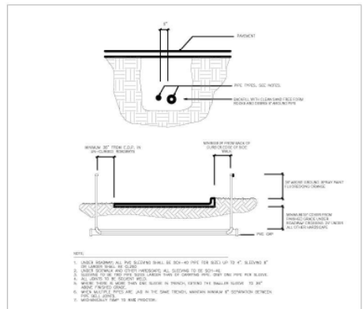
19 WIRELESS RAIN SENSOR LOCATIONS
NTS



20 HUNTER HC-100 FLOW METER
NTS



21 PIPE TRENCH DETAIL
NTS.



22 ROADWAY / HARDSCAPE SLEEVING
NTS.

23 MASTER VALVE AND FLOW SENSOR

NOTES:

1. CONTRACTOR MUST VISIT SITE PRIOR TO SUBMITTING HIS BID TO GET A VISUAL PICTURE OF THE COMPLEXITY, TREE / PALM LOCATIONS AND STRUCTURAL OBSTRUCTIONS THAT HE WILL NEED TO TAKE IN CONSIDERATION. THIS WILL ALSO REQUIRE WORKING WITH LANDSCAPE CONTRACTOR FOR PALM / TREE LOCATION AND OBTAINING INFORMATION ON THE WIDTH AND DEPTH OF ROOT BALLS AND OWNER FOR LOCATION OF NEW AND EXISTING UTILITIES.

2. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE INSTALLATION OF THIS IRRIGATION SYSTEM IS INSTALLED ACCORDING TO FLORIDA STATE PLUMBING CODE APPENDIX "F", LOCAL CODES ITS AMENDMENTS, AND PER ALL MANUFACTURES INSTALLATION RECOMMENDATIONS / REQUIREMENTS. WORK SHALL BE SECURED FOR PUBLIC HAZARDS ACCORDING TO O.S.H.A. REGULATIONS. A COPY OF CURRENT LOCATING TICKET SHALL BE ON SITE DURING WORK. NEW ON SITE UTILITIES, POOL PIPING AND SO ON; CONTRACTOR MUST WORK OWNER FOR THE LOCATION OF THESE UTILITIES PRIOR TO COMMENCING WORK.

3. IRRIGATION PLANS; PIPE LAY-OUT AND ZONE VALVE EQUIPMENT SHOWS THE INTENDED ROUTING, CONTRACTOR MUST NEGOTIATE THE PIPE ROUTING THROUGH ALL THE OBSTRUCTION IN THE FIELD IN THE MOST EFFICIENT MANNER. VERIFY THAT ALL CORE DRILL LOCATIONS ARE NOT IN FRONT OF A FUTURE PALM/TREE ROOT BALL.

4. PRIOR TO COMMENCING WORK, CONTRACTOR MUST VERIFY MINIMUM FLOW & PRESSURE OF; 15 GPM @ 46 PSI. HE/SHE MUST PERFORM A FIVE DAY PRESSURE TEST (MONDAY THRU. FRIDAY) USING DIGITAL RECORDER MOUNTED IN THE BACKFLOW TEST COCK (UP STREAM OF CHECK VALVE). IF PRESSURE IS SHOWN BELOW DESIGN MINIMUMS AT ANY GIVEN TIMES DURING NORMAL IRRIGATION HOURS, HE/SHE MUST SEND TEST RESULTS IN PDF FORMAT TO OWNER & LANDSCAPE ARCHITECT FOR REVIEW AND WAIT FOR INSTRUCTIONS ON HOW TO PROCEED.

5. RAIN SENSOR: HUNTER WR-CLIK. MOUNT IN A LOCATION THAT HAS A MINIMUM OF A 12-FOOT RADIUS CLEAR OF VERTICAL OBSTRUCTIONS AS WELL AS OUT OF AIRFLOW FROM A/C UNITS.

6. PIPING: ALL LATERAL, MAINLINE AND SLEEVE PIPING IN SHALL BE SCH-40, BURIED WITH MINIMUM COVERAGE AS SHOWN IN DETAIL #21 & #22. KEEP ALL PIPES MINIMUM 18-INCHES OFF VERTICAL STRUCTURES. ALL PIPE FITTINGS SHALL BE SCH-40. ALL WIRE CONDUIT SHALL BE SCH-40 USING SWEEP ELBOWS IN ALL DIRECTIONAL TURNS. ABOVE GROUND PIPING SHALL BE SECURED TO WALL OR ELECTRICAL RACK ("C" CHANNEL) EVERY 3-FEET.

7. CONTROLLER; HUNTER HPC-400 w/ (2) PCM-900 MODULES - 22 STATION CONTROLLER, WIFI, FLOW SENSING WALL MOUNT CONTROLLER, SET CONTROLLER DISPLAY MINIMUM 5-FEET ABOVE FINISHED GRADE. OBTAIN OWNERS APPROVAL FOR PROPOSED CONTROLLER LOCATION AND LOCATION OF RAIN SENSOR. CONTRACTOR TO INSTALL (2) CONTROLLER GROUNDING PLATES RATHER THAN A ROD AND PLATE AS SHOWN ON DETAIL #16 INSTEAD OF COORDINATE WITH OWNER FOR POWER TO CONTROLLER.

8. FLOW SENSOR; HUNTER HC FLOW METER. INSTALL PER DETAIL #20, COMMUNICATION WIRE- USE PAIGE 2-PAIR 18 GAUGE SHIELDED CABLE WITH DRAIN WIRE (P7171D-A-Rev 7).GROUND DRAIN-WIRE IN CONTROLLER BUSS BAR. RUN CABLE IN IN A CONDUIT THAN ZONE CONTROL WIRES.

9. WIRES; ALL ABOVE AND BELOW GROUND WIRES SHALL BE INCASED IN A SCH-40 CONDUIT. ALL WIRE CONDUIT DIRECTIONAL CHANGES SHALL COMPLETED USING SWEEP ELBOWS. ALL MAINLINE SLEEVING SHALL HAVE A 1.5-INCH SCH-40 WIRE CONDUIT. ZONE CONTROL WIRES SHALL BE; 18 GAUGE SINGLE SOLID STRAND RATE FOR DIRECT BURIAL. HOT WIRES TO BE 18 GAUGE YELLOW, COMMON WIRES 18 GAUGE WHITE AND BLUE 18 GAUGE SPARE WIRES (MINIMUM TWO IN EACH DIRECTION). ALL SPICES TO BE PERFORMED IN VALVE BOXES USING 3M-DBY OR HUNTER "DBRY100" SPLICE KITS. LOOP ALL WIRES INTO ALL ZONE VALVE BOXES LEAVING ADDITIONAL 30-INCHES LOOSE WIRE COILED UP AND PLACED TO THE SIDE IN VALVE BOX. CONTRACTOR TO ADD ADDITIONAL SPLICE BOXES AS NEEDED

10. ZONE VALVES; ALL DRIP ZONE VALVES SHALL HAVE A 1-INCH FILTER AND ACCU-SYNC ADJUSTABLE PRESSURE REGULATOR,SEE DETAIL #15, ALL OTHER ZONES PER DETAILS #14 & 16. ZONE VALVES SHOWN OUTSIDE PROPERTY IS FOR GRAPHIC CLARITY, TO BE PLACED WITHIN PROPERTY - OUT OF VIEW IN MULCH BEDS WHENEVER POSSIBLE.

11. POP-UP HEADS; INSTALL PER DETAILS #11 - #13, PLACED AS SHOWN PER PLANS. ADJUST LOCATION FOR CURRENT CONDITIONS TO MAXIMIZE COVERAGE. USE RADIUS REDUCTION SCREW ON NOZZLE AND OR ADJUST HEAD AS NEEDED (HEAD SPACING SHALL BE THE SAME AS RADIUS OF THROW).

12. FINAL WALK THROUGH; PROVIDE OWNER WITH AN ASBUILT DRAWING SHOWING LOCATION OF ALL EQUIPMENT, SLEEVING ENDS (BOTH ENDS), CORE DRILL LOCATION WITH MINIMUM TWO POINTS REFERENCE FROM FIXED STRUCTURES. PROVIDE "OWNERS MANUALS FOR ALL EQUIPMENT. IF WIFI LINK IS NOT AVAILABLE, ACTIVATE ALL ZONES FROM CONTROLLER - TEST RAIN SENSOR SHUT-OFF ON RANDOM ZONES. CONTRACTOR TO ASSIST OWNER IN LINKING CONTROLLER AND PHONE OR COMPUTER TO ONLINE HYDRAWISE SOFTWARE. PROVIDE OWNER WITH A (1) YEAR WARRANTEE FOR ALL MATERIAL AND LABOR.

FDOT LANDSCAPE PERMIT NUMBER: 2023-L-496-00006

Scale: 1" = 8'
Design Date:
Drawn By: RT
Last Date: Modified 03-28-2022
Revisions: 1. 2. 3. 4. 5. 6.

IRRIGATION DRIP DETAILS

New Residence
3521 S. Ocean Blvd
Highland Beach, FL., 33487

Michael Flaugh
Digitally signed by Michael Flaugh
Date: 2023.05.08 15:29:00 -04'00'

NORTH

REGISTERED LANDSCAPE ARCHITECT MICHAEL FLAUGH LA 6666 STATE OF FLORIDA

IR-3
of 3

Project # 2022-0328_HB