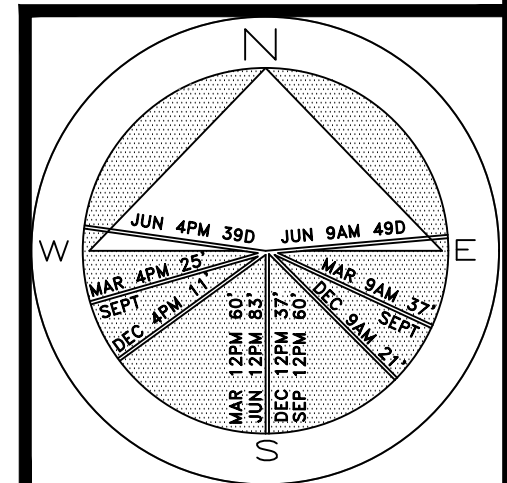


Private Residence
1540 South Ocean Blvd
Town of Palm Beach



JOB NUMBER: # 22150.00 LA
DRAWN BY: Jean Twomey
DATE: 08.12.2022

SHEET L7.2

ARC-22-184
ZON-22-138

Rendered Landscape Plan

NOT TO SCALE

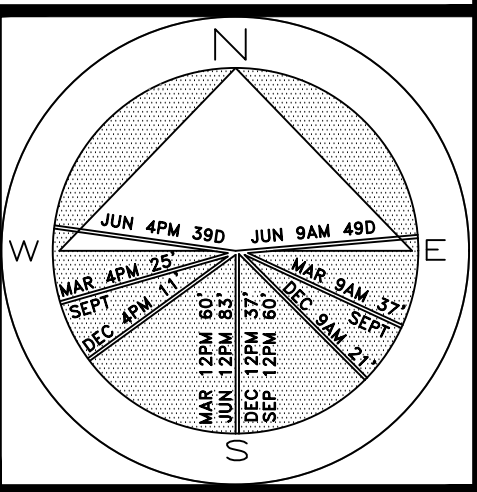


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Town of Palm Beach

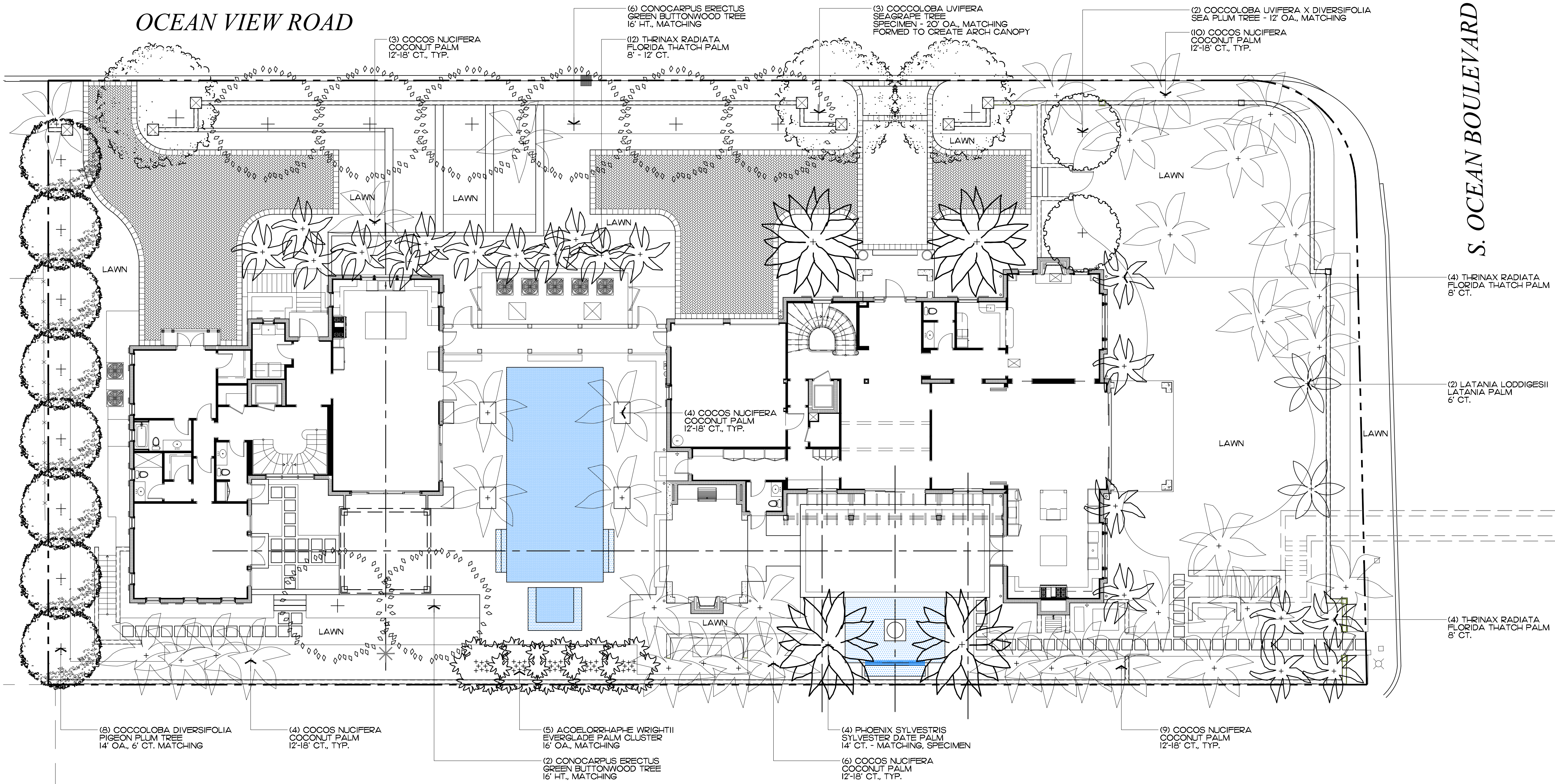


JOB NUMBER: # 22150.00 LA
DRAWN BY: Jean Twomey
Grace Walton
DATE: 08.01.2022

SHEET L8.0

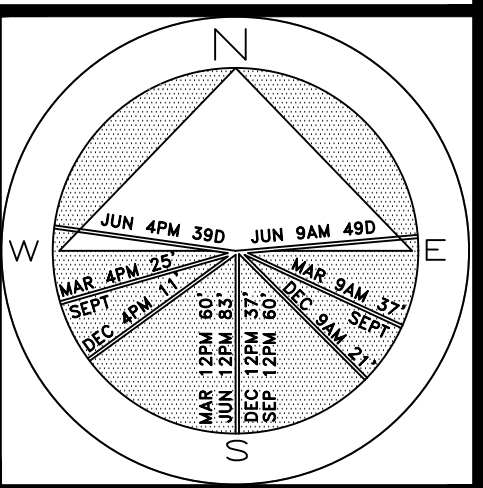
ARC-22-184
ZON-22-138

Landscape Plan - Trees & Palms
SCALE: 3/32" = 1'



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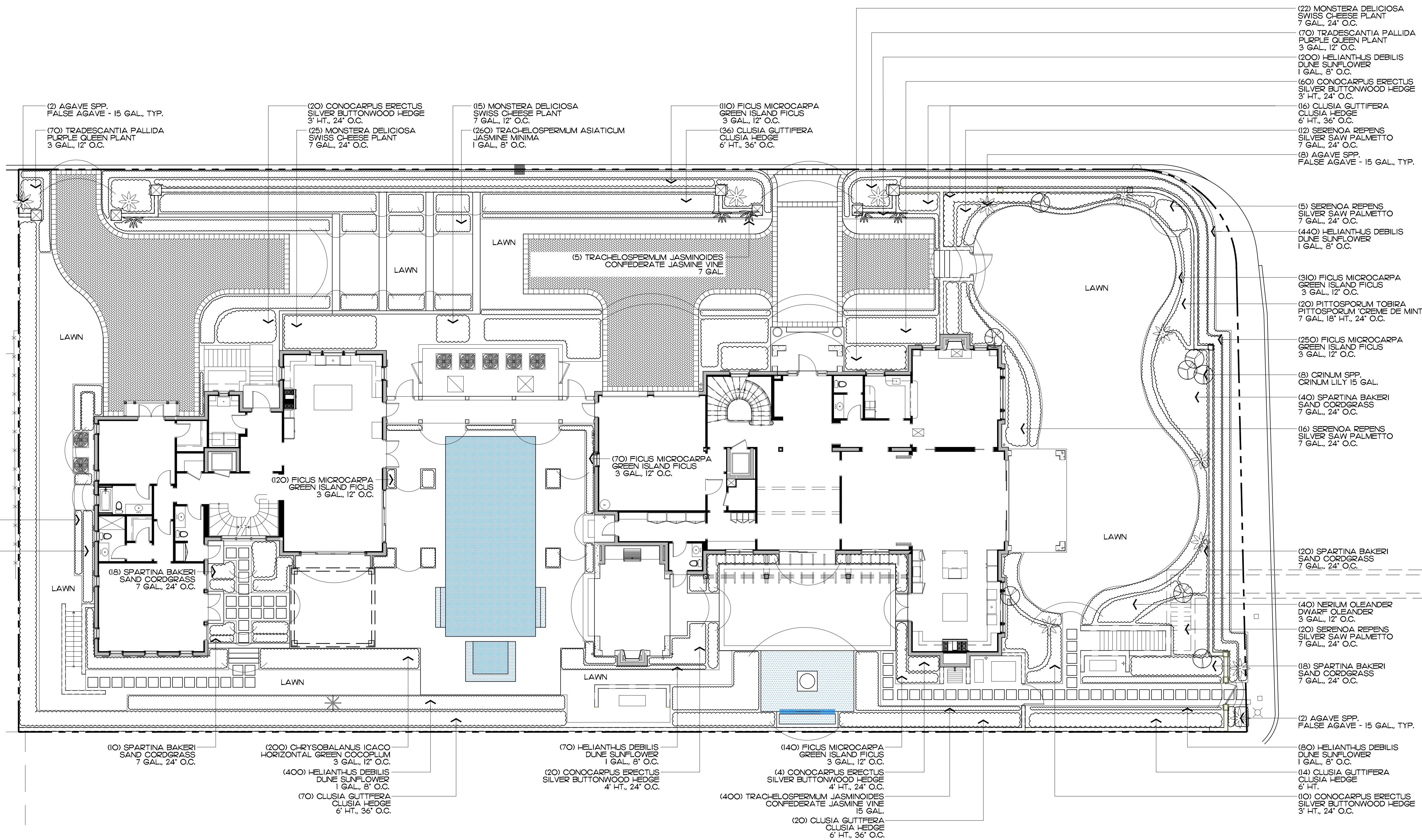


JOB NUMBER: # 22150.00 LA
DRAWN BY: /can Twomey
Grace Walton
DATE: 08.17.2022

SHEET L8.1

ARC-22-184
ZON-22-138

Landscape Plan - Shrubs, Groundcovers, & Vines
SCALE: 3/32" = 1'

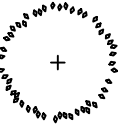


2022
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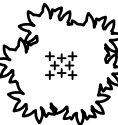
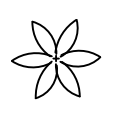
2022
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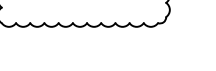
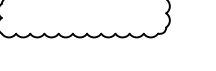
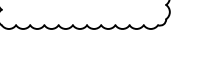
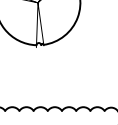
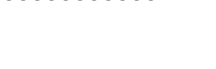
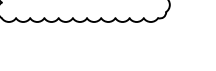
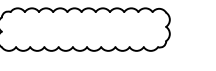
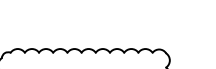
Trees

SYMBOL	PLANT NAME	QTY.	DESCRIPTION	NATIVE
	CONOCARPUS ERECTUS GREEN BUTTONWOOD TREE	8	16' OA., MATCHING	YES
	COCCOLOBA UVIFERA SEAGRAPE TREE	3	20' OA., SPECIMEN	YES
	COCCOLOBA UVIFERA X DIVERSIFOLIA SEA PLUM TREE	2	12' OA., MATCHING	YES
	COCCOLOBA DIVERSIFOLIA PIGEON PLUM TREE	8	14' HT., 6' CT.	YES
TOTAL:		21		
NATIVE:		21 (100%)		

Palms

SYMBOL	PLANT NAME	QTY.	DESCRIPTION	NATIVE
	ACOELORRHAPHE WRIGHTII EVERGLADE PALM CLUSTER	5	16' OA., MATCHING	YES
	COCOS NUCIFERA COCONUT PALM	36	10'-18' CT., LANDSCAPE ARCHITECT TO FIELD LOCATE	NO
	LATANIA LODDIGESII LANTANIA PALM	2	6' CT., MATCHING	NO
	PHOENIX SYLVESTRIS SYLVESTER DATE PALM	4	14' CT., MATCHING	NO
	THRINAX RADIATA FLORIDA THATCH PALM	20	8' CT., MATCHING	YES
TOTAL:		67		
NATIVE:		25 (37.3%)		

Shrubs, Vines, & Groundcovers

SYMBOL/KEY	PLANT NAME	QTY.	DESCRIPTION	NATIVE
	AGAVE SPP. FALSE AGAVE	12	15 GAL.	NO
	CONOCARPUS ERECTUS SILVER BUTTONWOOD HEDGE	134	3' HT., 24" O.C.	YES
	CHRYSOBALANUS ICACO HORIZONTAL GREEN TIP COCOPLUM	200	3 GAL., 12" O.C.	YES
	CLUSIA GUTTIFERA CLUSIA HEDGE	156	6' HT., 36" O.C.	NO
	CRINUM SPP. CRINUM LILY	8	15 GAL.	YES
	HELIANTHUS DEBILIS DUNE SUNFLOWER	1,200	1 GAL., 8" O.C.	YES
	FICUS MICROCARPA GREEN ISLAND FICUS	1,030	1 GAL., 8" O.C.	NO
	MONSTERA DELICIOSA SWISS CHEESE PLANT	62	7 GAL., 24" O.C.	NO
	NERIUM OLEANDER DWARF OLEANDER	40	3 GAL., 18" O.C.	NO
	PITTOSPORUM TOBIRA PITTOSPORUM ' CREME DE MINT'	20	7 GAL., 24" O.C.	NO
	SERENOA REPENS SILVER SAW PALMETTO	60	7 GAL., 24" O.C.	YES
	SPARTINA BAKERI SAND CORDGRASS	110	7 GAL., 24" O.C.	YES
	TRACHELOSPERMUM ASIATICUM JASMINE MINIMA	660	1 GAL. 8" O.C.	NO
	TRACHELOSPERMUM JASMINOIDES CONFEDERATE JASMINE VINE	5	15 GAL.	NO
	TRADESCANTIA PALLIDA PURPLE QUEEN	140	3 GAL., 12" O.C.	NO
TOTAL:		3,837		
NATIVE:		1,712 (44.6%)		

Lawn & Mulch

SYMBOL/KEY	PLANT NAME	QTY.	DESCRIPTION
LAWN	EMPIRE ZOYSIA LAWN	AS NEEDED	SOD PALLETS
PLANTING BED	SHREDDED EUCALYPTUS MULCH	AS NEEDED	MULCH ALL BEDS 3" MIN. DEPTH

ENVIRONMENTAL
DESIGN
GROUP

139 North County Road 5420-B Palm Beach, FL 33460

Phone: 561.832.4600 Mobile: 561.313.4424

Landscape Architecture

Land Planning

Landscape Management

Dustin M. Mizell, M.L.A. R.L.A. #6666784

Dustin@environmentaldesigngroup.com

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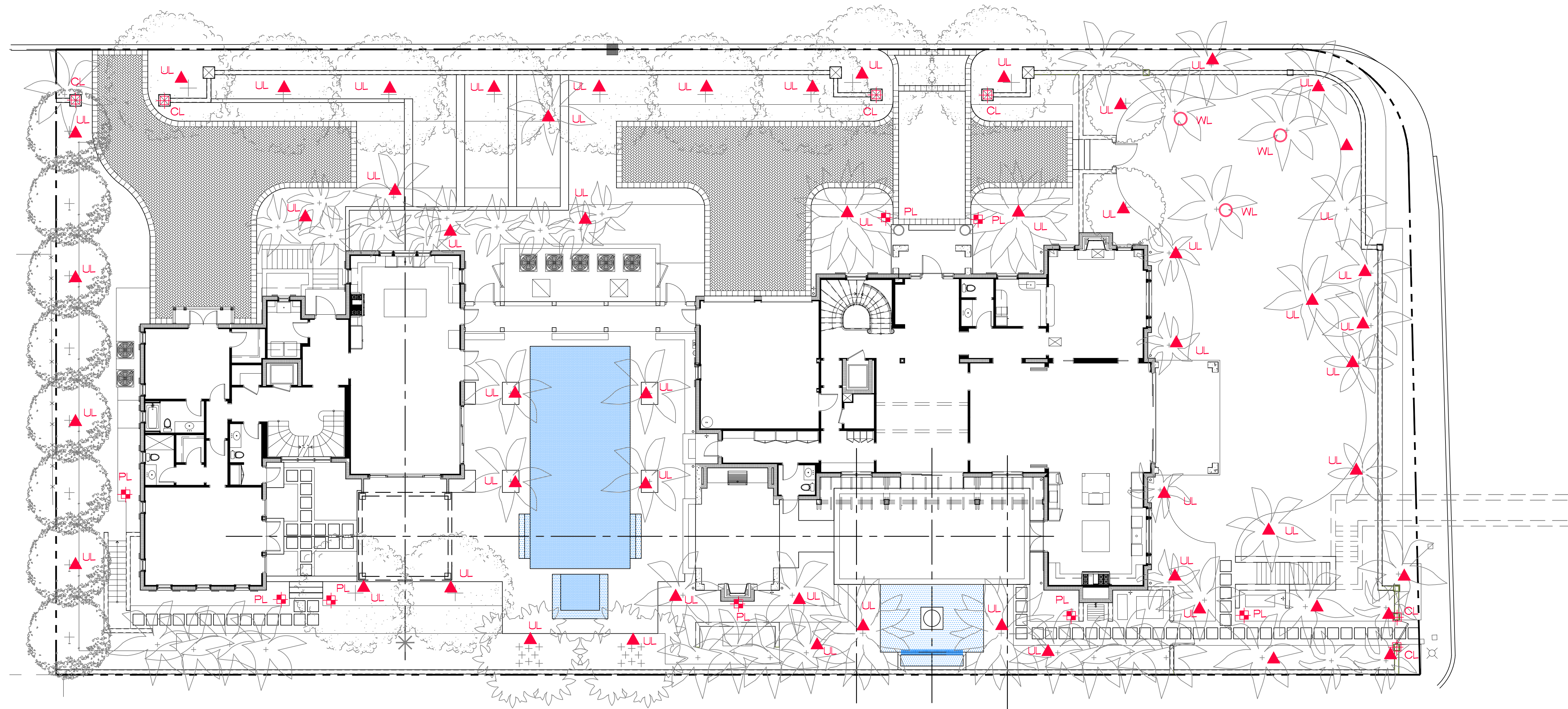
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Grace Walton
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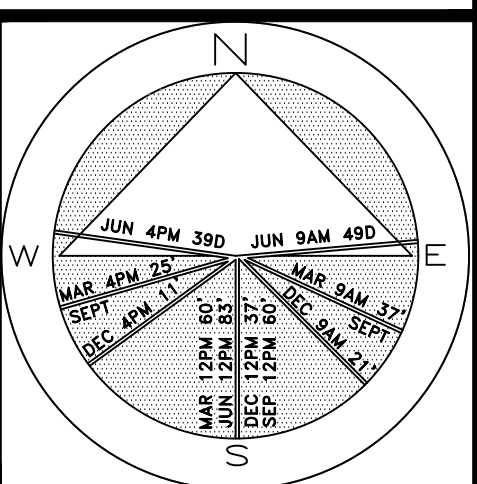
SHEET L8.2

ARC-22-184
ZON-22-138

Plant Schedule



Private Residence
1540 South Ocean Blvd
Town of Palm Beach



JOB NUMBER: # 22150.00 LA
DRAWN BY: /can Twomey
DATE: 08.17.2022

Lighting Schedule

SYMBOL	DESCRIPTION	QTY.
▲ UL	UP LIGHT - BEACHSIDE LIGHTING - TURTLE-FRIENDLY FIXTURES - WILDLIFE LIGHTING CERTIFICATION NO: 2016-012 - PRODUCT # 4W-A - 12 V, 4 WATT, AMBER (1350K)	55
⊕ PL	PATH LIGHT - BEACHSIDE LIGHTING - TURTLE-FRIENDLY FIXTURES - WILDLIFE LIGHTING CERTIFICATION NO: 2016-012 - PRODUCT # R8 - BRASS - 20" STEM HT. 12V, 5 WATT AMBER (1500K)	8
○ WL	WELL LIGHT - BEACHSIDE LIGHTING - TURTLE-FRIENDLY FIXTURES - WILDLIFE LIGHTING CERTIFICATION NO: 2016-012 - PRODUCT # R8 - BRASS - 20" STEM HT. 12V, 5 WATT AMBER (1500K)	3
⊕ CL	COLUMN LIGHT - BEACHSIDE LIGHTING - TURTLE-FRIENDLY FIXTURES - WILDLIFE LIGHTING CERTIFICATION NO: 2016-012 - PRODUCT # L-012 - BRASS - WITH RECESSED HOUSING - 12V LED	6



UP LIGHT / WELL LIGHT



COLUMN LIGHT



PATH LIGHT



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• BEACHSIDE LIGHTING HAS WORKED CLOSELY WITH THE FLORIDA FISH & WILDLIFE CONSERVATION COMMISSION TO OFFER TURTLE-SAFE LIGHTING FIXTURES THAT ACCEPT LOW-WATTAGE / LONG-WAVELENGTH AMBER LED SOURCES.

ARC-22-184
ZON-22-138

Landscape Lighting Plan

SCALE: 3/32" = 1'

SHEET L9.0

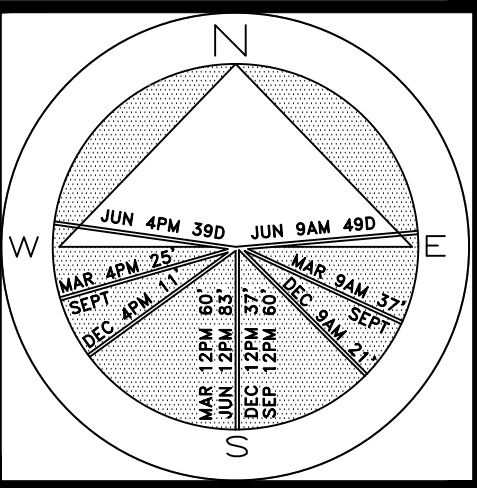


East Elevation
PREVIOUSLY APPROVED



West Elevation

Private Residence
1540 South Ocean Blvd
Town of Palm Beach



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DRAWN BY: Sean Twomey
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SHEET 10.1

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ARC-22-184
ZON-22-138
Landscape Elevations
NOT TO SCALE



Front / North Elevation



Rear / South Elevation

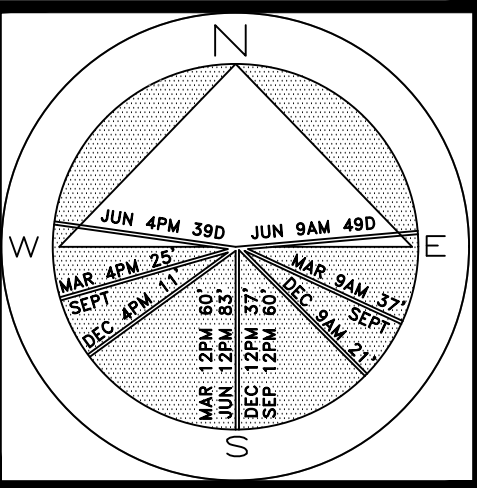
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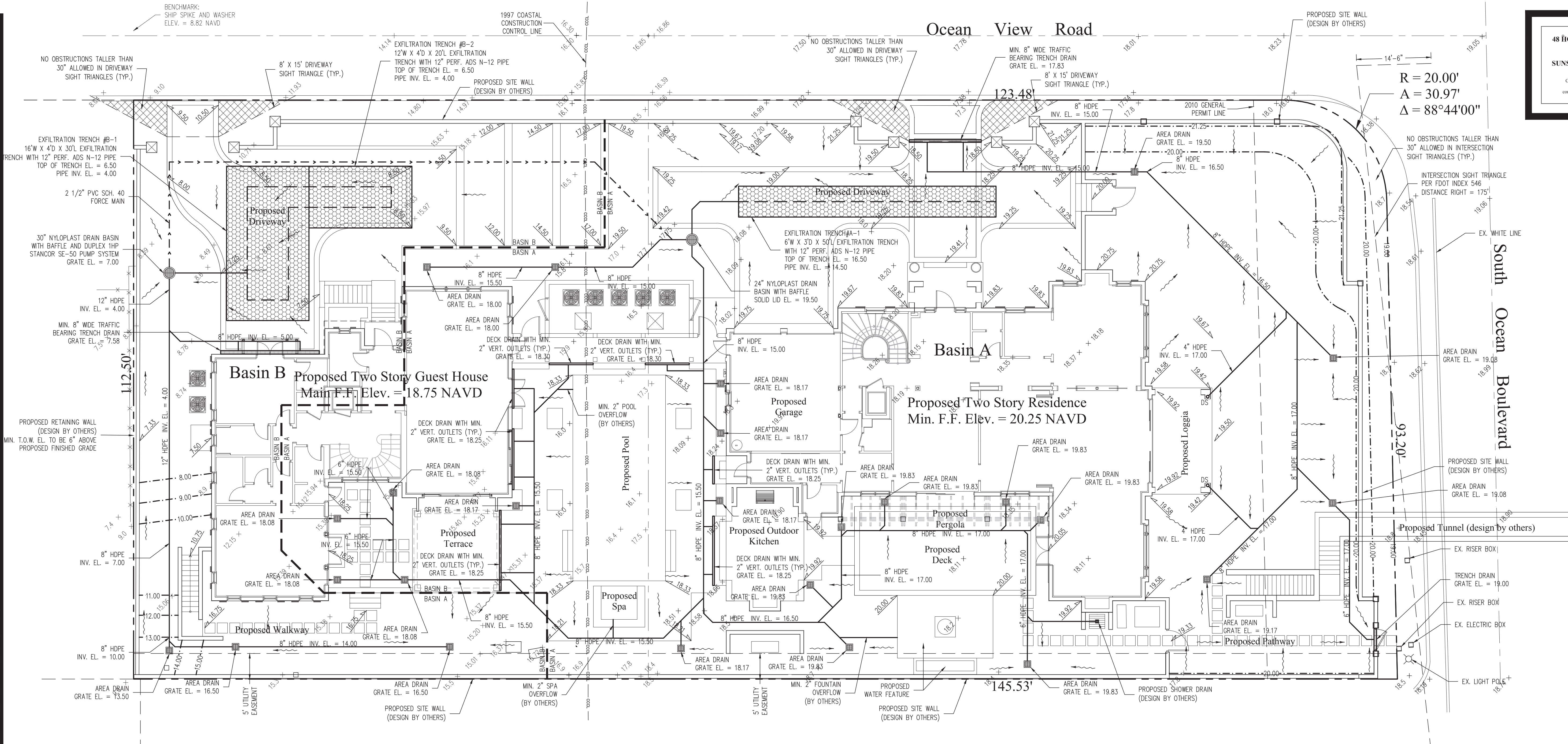
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ARC-22-184
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Side Elevations
NOT TO SCALE

SHEET 10.0



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Contractor is responsible for obtaining
location of existing utilities prior to
commencement of construction activities.



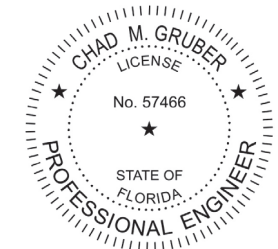
Gruber Consulting
Engineers, Inc.
574 MERCER AVE., SUITE 305
WEST PALM BEACH, FL 33401
PHONE: 863.32.2841
office@gruberengineers.com

Project Information				
Project No.	2021-0040			
Issue Date	09/15/2021			
Scale	1" = 10'	RM		
Drawn By		CG		
Checked By				

Site Grading & Drainage Plan For:
Proposed Residence
1540 South Ocean Boulevard/114 Ocean View Road
Palm Beach, Florida

Revisions	
1	06/13/2021
2	10/29/2021
3	07/30/2022
4	
5	
6	
7	
8	
9	
10	

Chad M. Gruber
FL P.E. No. 57466



Digitally signed
by Chad M. Gruber
Date: 2022.07.30
16:30:25 -04'00'

This item has been electronically signed and sealed by Chad M. Gruber
on the date adjacent to the seal using a SHA authentication code.
Printed copies of this document are not considered signed and sealed and
the SHA authentication code must be verified on any electronic copies.

Plan Background from Hardscape Plan by
Environment Design Group Received 7/12/22

ARC-22-184
ZON-22-138

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STORMWATER RETENTION CALCULATIONS
(Basin A)

A. SITE INFORMATION

Total Property Area = 27,391 sq.ft.

Basin A Area = 20,735 sq.ft.

Drainage Area Impervious Surface = 11,752 sq.ft.

Drainage Area Pervious Surface = 8,983 sq.ft.

B. ESTIMATED STORMWATER RETENTION VOLUME

The retention volume is estimated using the Rational Method (Q=CiA)

where:

C = 1.0 (impervious surface)

C = 0.2 (pervious surface)

i = 2 in/hr

Impervious Surface Runoff Volume:
1.0 x 2 in/hr x 11,752 sq.ft. x 1 ft/12 in. = 1,959 cu.ft.

Pervious Runoff Volume:
0.2 x 2 in/hr x 8,983 sq.ft. x 1 ft/12 in. = 299 cu.ft.

Total Volume to be Retained = 2,258 cu.ft.

C. PROPOSED EXFILTRATION TRENCH SIZING

Exfiltration Trench #A-1		
L =	Total Length of Trench Provided =	50 ft
W =	Trench Width =	6 ft
K =	Hydraulic Conductivity =	0.000432 cfs/sq.ft./ft. of head
H2 =	Depth to Water Table =	6.00 ft
DU =	Un-Saturated Trench Depth =	3.00 ft
DS =	Saturated Trench Depth =	0.00 ft
V =	Volume Treated =	5,393 cu.ft.

STORMWATER RETENTION CALCULATIONS
(Basin B)

A. SITE INFORMATION

Total Property Area = 27,391 sq.ft.

Basin B Area = 6,656 sq.ft.

Drainage Area Impervious Surface = 2,537 sq.ft.

Drainage Area Pervious Surface = 4,119 sq.ft.

B. ESTIMATED STORMWATER RETENTION VOLUME

The retention volume is estimated using the Rational Method (Q=CiA)

where:

C = 1.0 (impervious surface)

C = 0.2 (pervious surface)

i = 2 in/hr

Impervious Surface Runoff Volume:
1.0 x 2 in/hr x 2,537 sq.ft. x 1 ft/12 in. = 423 cu.ft.

Pervious Runoff Volume:
0.2 x 2 in/hr x 4,119 sq.ft. x 1 ft/12 in. = 137 cu.ft.

Total Volume to be Retained = 560 cu.ft.

C. PROPOSED EXFILTRATION TRENCH SIZING

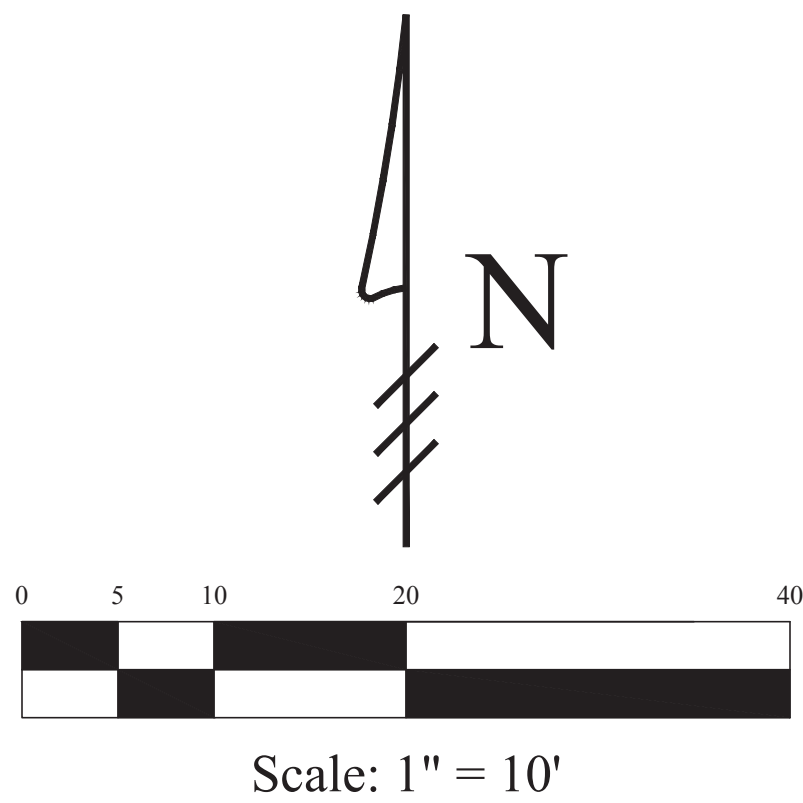
Exfiltration Trench #B-1		
L =	Total Length of Trench Provided =	30 ft
W =	Trench Width =	16 ft
K =	Hydraulic Conductivity =	0.000432 cfs/sq.ft./ft. of head
H2 =	Depth to Water Table =	5.00 ft
DU =	Un-Saturated Trench Depth =	4.00 ft
DS =	Saturated Trench Depth =	1.00 ft
V =	Volume Treated =	5,861 cu.ft.

Exfiltration Trench #B-2		
L =	Total Length of Trench Provided =	20 ft
W =	Trench Width =	12 ft
K =	Hydraulic Conductivity =	0.000432 cfs/sq.ft./ft. of head
H2 =	Depth to Water Table =	5.00 ft
DU =	Un-Saturated Trench Depth =	4.00 ft
DS =	Saturated Trench Depth =	1.00 ft
V =	Volume Treated =	3,118 cu.ft.

Total Volume Retained in Basin B Exfiltration Trenches = 8,979 cu.ft.

Legend

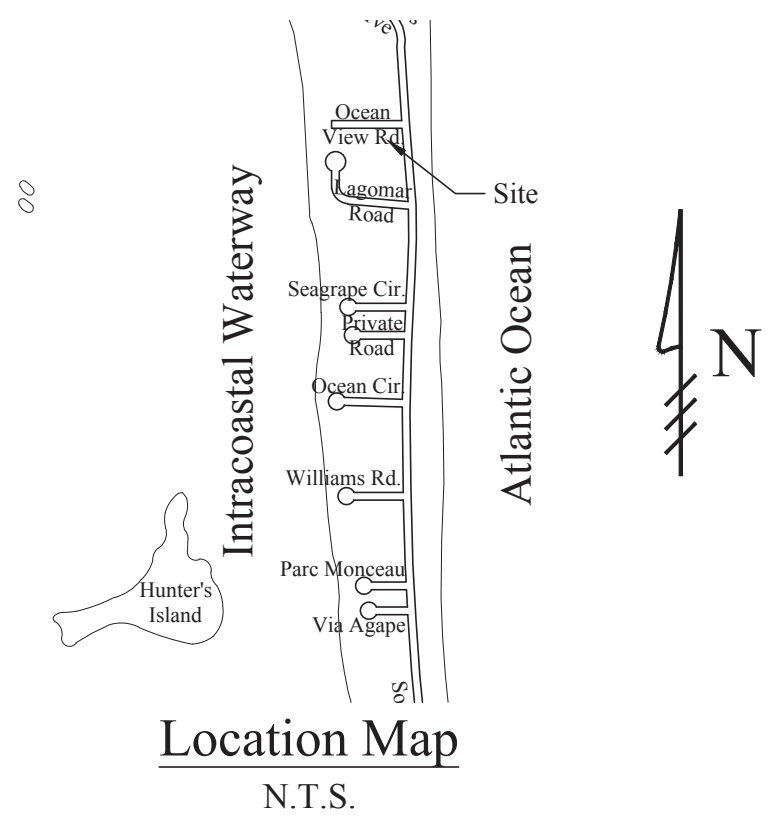
- EXISTING ELEVATION PER WALLACE SURVEYING CORP. (NAVD-88)
- PROPOSED ELEVATION (NAVD-88)
- PROPOSED ELEVATION CONTOUR (NAVD-88)
- FLOW DIRECTION
- EXFILTRATION TRENCH
- AREA DRAIN
- 24" NYLOPLAST DRAIN BASIN WITH BAFFLE



- 06/13/21 UPDATE PLAN BACKGROUND; REVISE PROPOSED GRADING AND DRAINAGE
- 10/29/21 UPDATE PLAN FOR BUILDING PERMIT SUBMITTAL
- 07/30/22 UPDATE PLAN TO INCLUDE ADDITION OF 114 OCEAN VIEW PROPERTY

Notes:

- Exfiltration trenches and storm piping to be protected from roots with a root barrier.
- Roof drain downspouts are to be connected to the proposed drainage system. Contractor to provide engineer with downspout locations prior to installation of drainage system.
- Contractor shall mill and overlay all roadway cuts a minimum of 50 ft. on either side of the excavation the entire width of each affected lane.
- Contractor is responsible for installing and maintaining erosion control measures during construction.
- Video inspection of storm drainage system required prior to installation of sod.





114 Ocean View (1).JPEG



114 Ocean View (2).JPEG



115 Ocean View.JPEG



122 Ocean View.JPEG



127 Ocean View (1).JPEG



127 Ocean View (2).JPEG



1540 S Ocean.JPEG



6 Lagomar (1).JPEG



6 lagomar (2).JPEG



7 Lagomar.jpg



8 Lagomar.JPEG



11 Lagomar (1).JPEG



11 Lagomar (2).JPEG



1550 S. Ocean.JPEG



1560 S. Ocean.JPEG



1564 S Ocean (1).JPEG