Interoffice Memorandum

07-02 29R10:39 RCVL

7-0 8A1 6 R D

June 22, 2018

07-02-07P93927-ARNV

TO: Katie Smith, Manager
Comptroller Clerk's Office

THROUGH: Cheryl Gillespie, Agenda Development Supervisor
Agenda Development

FROM: David D. Jones, P.E., CEP, Manager
Environmental Protection Division
(407) 836-1405

STAFF PERSON: Elizabeth R. Johnson, CEP, Assistant Manager
Environmental Protection Division
PHONE #: (407) 836-1511

SUBJECT: Request for Public Hearing on July 31, 2018, at 2:00 p.m., for a Shoreline Alteration/Dredge and Fill Permit Application SADF-18-04-011 to construct a new seawall on the shoreline located at 10340 Pocket Lane, on Pocket Canal, Parcel ID #09-24-28-5844-00-392, District 1

Applicant: Winderlease LLC.

Type of Hearing: Shoreline Alteration/Dredge and Fill Permit Application to construct a new seawall.

Hearing required by Florida Statute # or Code: Chapter 33, Article IV. Windermere Water and Navigation Control District; Section 33-129(d).

Advertising requirements: Publish once in a newspaper of general circulation in Orange County at least (7) seven days prior to public hearing.

Advertising timeframes: At least (7) seven days prior to public hearing.

Abutters to be notified: The applicant and the property owners within 500 feet of the project area will be notified at least (7) seven days prior to public hearing by the Environmental Protection Division (EPD).

Lake Advisory Board to be notified: Windermere Water and Navigation Control District, Ijaz Ahmed (Chairman), Ijazahmed736@gmail.com

GISLATIVE FILE # 18-910

July 31, 2018
@ 2pm

Estimated time required for public hearing:	2 minutes.
Hearing Controversial:	No.
Municipality or other Public Agency to be notified:	Florida Department of Environmental Protection – DEP_CD@dep.state.fl.us.
District #:	1.

Materials being submitted as backup for public hearing request:

1. Location Map
2. Site Plan

Special Instructions to Clerk:

1. Once the Board of County Commissioners makes a decision on the Shoreline Alteration/Dredge and Fill Permit Application, please submit the decision letter to Michelle Gonzalez with EPD. EPD will issue the decision to the applicant.

   Advertising Language:

2. Winderlease LLC, Parcel ID#: 09-24-28-5844-00-392, Request to construct a new seawall pursuant to Chapter 33, Article IV, Section 33-129(d). Pocket Canal. District 1. (property legal description on file).

AK/NVERJ/DJ: mg

Attachments

c: Chris Testerman, Assistant County Administrator
Jon V. Weiss, P.E., Director, Community, Environmental, and Development Services
Joel D. Prinsell, Deputy County Attorney

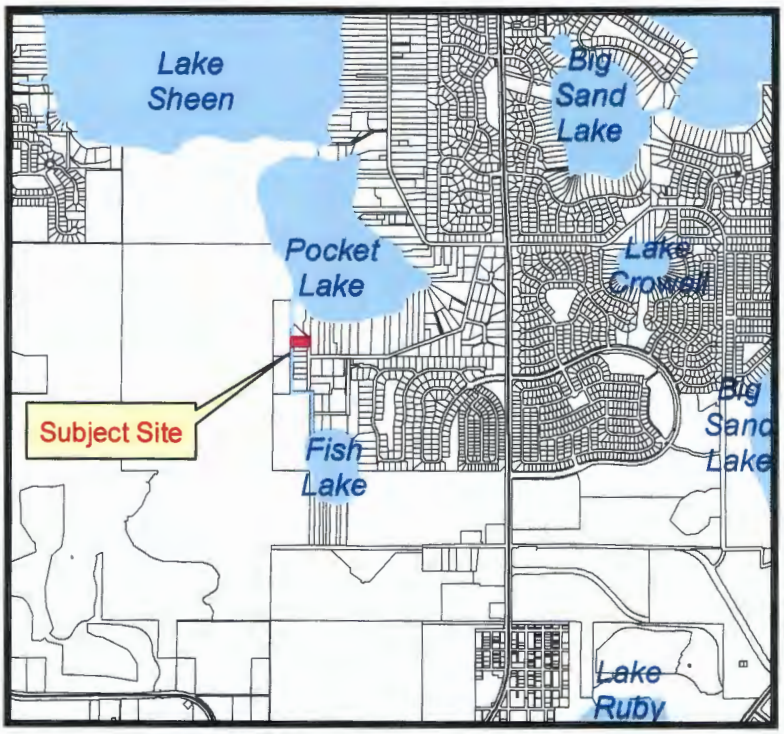
Shoreline Alteration/Dredge and Fill Permit Request

Shoreline Alteration/Dredge and Fill Permit Request
SADF-18-04-011
District # 1

Applicant: Winderlease LLC
Address: 10340 Pocket Lane
Parcel ID: 09-24-28-5844-00-392

Project Site

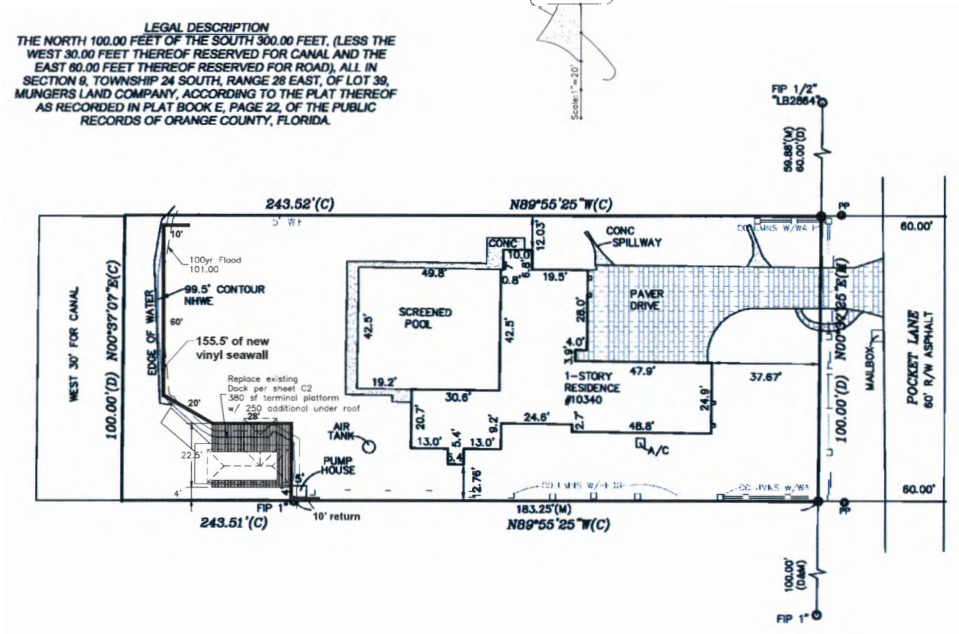
Property Location



Winderlease LLC Dock/Seawall

Schedule of Drawings

C1 - Cover Sheet & Site Plan
C2 - Dock Installation Plan
C3 - Seawall Installation Plan
C4 Siltation and Erosion Control Details



Site Address:
10340 Pocket Lane
Orlando, Florida 32836

Parcel ID: 09-24-28-5844-00-392

Engineer:
Darcy Unroe PE
Unroe Engineering, Inc
PO Box 690942
Orlando, Florida 32869
Ph (407) 299-0650

Location Plan
STR - 09/24/28 | Scale: N.T.S
Parcel ID: 09-24-28-5844-00-392

Project Description

Install new private boat dock and seawall on a residential property.

Design Load Table

Floor Live Loads
Decks & Walkways - 60 psf
Roofs - 20 psf

Wind Design Data
Ultimate Wind Speed - 139 mph
Basic Wind Speed - 108 mph

Risk Category - II
Wind Exposure - D
Exposure Class - Not Enclosed
Int pressure Coeff - 0.55+/-

Peak Wind Load - 35.99 psf

Project Data

General Information
Total Site Area 41,676 sf (0.95 Ac)
Width at NHWL: 100 lf

Construction Data
Construction Type: V
Building Description: PT Wood
Building Area: 380 sf

Applicable Codes
Florida Building Code 2017

Wood Frame Construction Notes:
a. Design Parameters: per Load Table
b. Lumber exposed to weather or contacting concrete or steel shall be pressure treated (PT)
c. All lumber in contact with concrete products shall be shielded by a protective barrier.
d. All fasteners in contact with pressure treated lumber are to be not dipped galvanized or stainless steel.
e. All dimensions shall be field verified. The engineer and owner shall be notified immediately of any discrepancies from dimensions or field conditions noted herein.
f. Elevation views are for visual reference only. Always refer to layout plans for specified measurements.
g. Anchor positions shall have a tolerance of ±½".
h. Written dimensions supercede scaled dimensions in all cases. Any dimensional discrepancies shall be brought to the attention of the engineer immediately.

Dock Area Calculations

Length of property at the NHWL - 100 lf

Dock Area Calculation
Allowable area = (10 sf/lf * 75 lf) + (5 sf/lf * (100-75)lf)
Allowable area - 875 sf

Area of boat dock deck - 380 sf
Additional Area under roof - 250 sf
Total Terminal Platform Area - 630 sf < 875 (OK)

Specifications and Notations:

General Notes:
G1. These notes shall apply to all work in this set of drawings.
G2. It will be the responsibility of the contractor(s) to insure that all required permits are obtained and are in hand at the job site prior to the commencement of construction. Contractors shall abide by all conditions contained therein.
G3. Prior to commencement, the contractor shall provide a construction schedule for various site work elements so that site visits may be coordinated.
G4. The contractor shall immediately notify the engineer of any discrepancies found between the drawings and the field conditions prior to construction in the area impacted by the conflict.
G5. In accordance with Florida Law (553.851) the contractor must notify the gas or other utility a minimum of 48 hours and a maximum of five days prior to excavation. (Excluding weekends).
G10. All requirements and recommendations of inspection personnel other than the owner's shall be reported to the engineer/owner prior to implementation. Compensation will not be allowed for work which is not authorized by the engineer/owner.
G11. All work shall be open to and subject to inspection by authorized personnel of the utility companies, project engineer and regulatory agencies.
G12. Contractor shall notify all appropriate utility companies and water management agencies of proposed start up. All work shall be in accordance with their requirements; including but not limited to water, sewer, drainage, power, telephone, Gas and cable TV companies.

DARCY UNROE LICENSE No 60929 STATE OF FLORIDA PROFESSIONAL ENGINEER

Darcy Unroe PE 60929

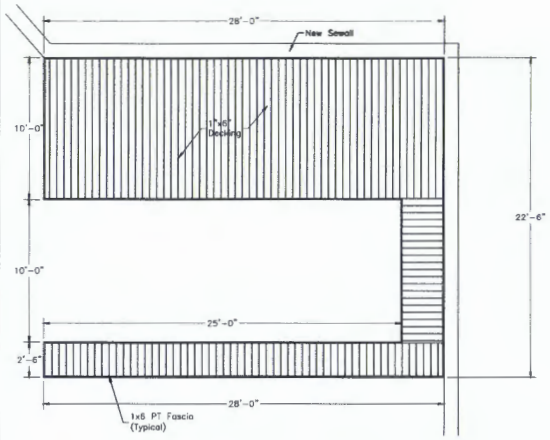
Jason Vermilya GC
28 W Central Blvd. Suite 200, Orlando, Florida 32801
Certified General Contractor - CGC1521205
ph (407) 575-9099

Unroe Engineering, Inc
Civil Engineering/Planning/Scientific Evaluation
PO Box 690942, Orlando, Fl 32869-0942
Business Authorization Number: EB 0000679 ph (407) 299-0650

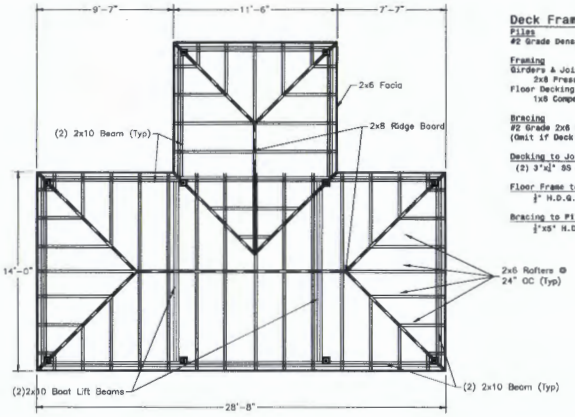
Cover Sheet & Site Plan
Winderlease LLC Dock/Seawall
10340 Pocket Lane, Orlando, Florida 32836

DP	Drawn
DP	Checked
1"=20'	Scale
4-4-18	Date
Dock-C1	File

Dwg. No.
C1
1 of 4



Terminal Floor Plan
Scale: 1"=1/4"



Roof Framing Plan
Scale: 1"=1/4"

Deck Framing Specifications

Piles
#2 Grade Dense 6x6 Pressure Treated 0.60 CCA

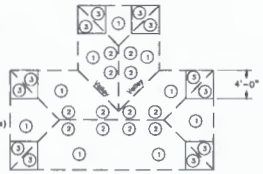
Framing
Girders & Joists shall be #2 Grade Type 1
2x8 Pressure Treated 0.40 CCA
Floor Decking
1x8 Compesite Decking

Bracing
#2 Grade 2x6 PT Pile to Pile
(Omit if Deck is less than 5' above lake bottom)

Decking to Joists Connection
(2) 3"x1" SS screws each joist

Floor Frame to Pile Connection
½" H.D.G. Thru Bolts each pile

Bracing to Pile Connections
½"x5" H.D.G. Lag Screws each pile



Nailing Zone Plan

Roof Sheathing Nailing Zone Legend

Zone 1 - Use 8d common nails 8" OC at edges and 12" O.C.
Zone 2 - Use 8d common nails 6" OC (all edges)
Zone 3 - Use 8d common nails 8" OC (all corners)

Roof Framing Specifications

Piles
#2 Grade Dense 6x6 Pressure Treated 0.60 CCA Min 5' embedment

Framing
Roof Headers
(2) 2x10 Pressure Treated 0.40 CCA
Roof Rafters
2x8 Pressure Treated @ 16" O.C.
Hip and Ridge
2x8 Pressure Treated 0.40 CCA
Fascia Board
2x8 Pressure Treated 0.40 CCA
Upper Band
2x10 PT 0.40 CCA (For future lift installation)
Roof Decking
½" T-11 Plywood or 1x8 T&G PT pine

Bracing
#2 Grade 2x8 PT Pile to Pile
#2 Grade 2x6 PT Braced Collar Ties @ 48" OC

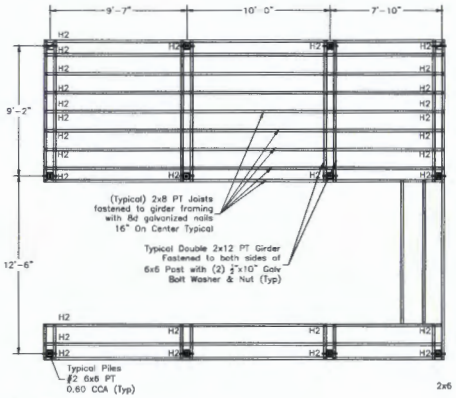
Engineering Plan
Framing Type
Conventional Hand Framed (Typ)

Structural Connections
All Rafters to Ridge Beam
Fastened with (3) 12-d nails each rafter

All Rafters to Roof Beams
Simpson H2.5z fastened with (8) 8-d nails each rafter

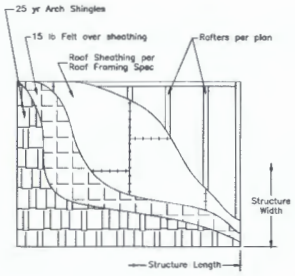
All Roof Beams to Structural Piles
Two ½" H.D.G. Thru Bolts each pile

Boat Lift Beam Ends
(4) Simpson HHUS at ends fastened with (30) 16-d nails. Capacity 15,850# <> Avg Uplift 3,000#

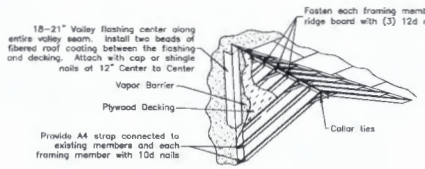


Fasteners:
H1 - Interior Joist to Girder toe nail 4-8d to Girder
H2 - Exterior Joist to Girder toe nail 3-12d to Girder

Terminal Framing Plan
Scale: 1"=1/4"

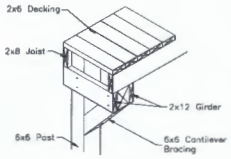


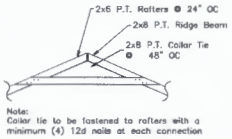
Roof Layering Detail - Shingle Roof



General Valley Notes:
1. All rafters to be PT Southern Yellow Pine #2 spaced at 24" O.C.
2. Ridge board shall be 2x8 Southern Yellow Pine #2
3. Staggering of rafters into ridge is not permitted
4. Overlap of flashing at valley intersection shall have fibered roof coating between layers.

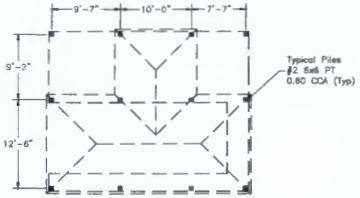
Valley Detail



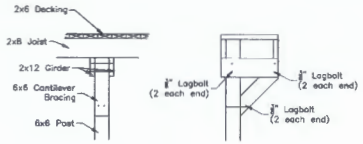


Note:
Collar tie to be fastened to rafters with a minimum (4) 12d nails at each connection

Collar Tie Typical Section

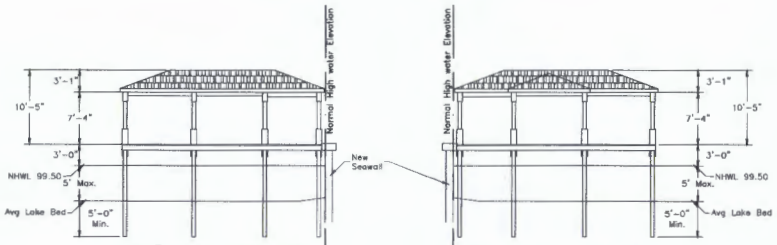


Pile Layout Plan
Scale: 1"=1/8"



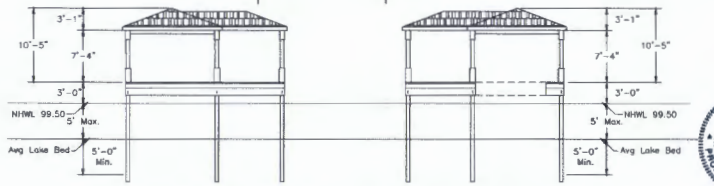
Pile Legend

- 6x6 P.T. Post (Under Deck Height)
- 6x6 P.T. Post (Handrail Height)
- 6x6 P.T. Post (Roof Height)



Side Elevation - North View

Side Elevation - Side View



Front Elevation Elevation - East View

Rear Elevation Elevation - West View

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ph (407) 576-0099

Unroe Engineering, Inc
Civil Engineering/Planning/Scientific Evaluation
PO Box 690942, Orlando, Fl 32869-0942
Business Authorization Number: EB 0000873 ph (407) 299-0950

Dock Installation Plan

Winderlease LLC Dock/Seawall
10340 Pocket Lane, Orlando, Florida 32835

DP	Drawn
DP	Checked
Per Plan	Scale
4-4-18	Date
docks2	File

Dwg. No. C2

2 of 4

Specifications and Notations:

General Notes:

G1. These notes shall apply to all work in this set of drawings.

G2. It will be the responsibility of the contractor(s) to insure that all required permits are obtained and are in hand at the job site prior to the commencement of construction. Contractors shall abide by all conditions contained therein.

G3. Prior to commencement, the contractor shall provide a construction schedule for various site work elements so that site visits may be coordinated.

G4. The contractor shall immediately notify the engineer of any discrepancies found between the drawings and the field conditions prior to construction in the area impacted by the conflict.

G5. In accordance with Florida Law (553.851) the contractor must notify the gas or other utility a minimum of 48 hours and a maximum of five days prior to excavation. (Excluding weekends).

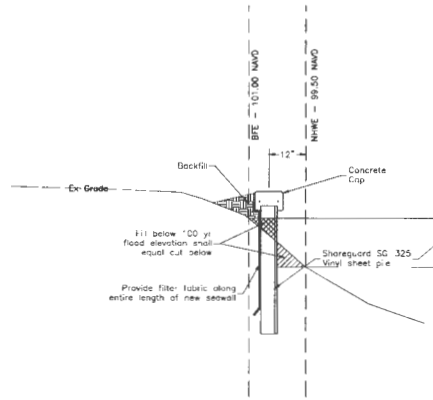
C10. All requirements and recommendations of inspection personnel other than the owner's shall be reported to the engineer/owner prior to implementation. Compensation will not be allowed for work which is not authorized by the engineer/owner.

C11. All work shall be open to and subject to inspection by authorized personnel of the utility companies, project engineer and regulatory agencies.

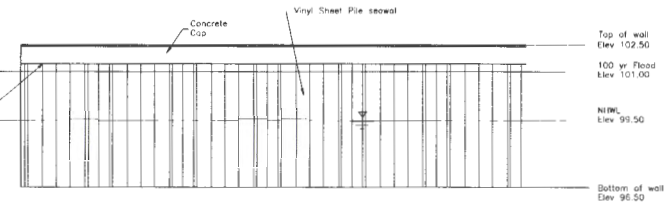
C12. Contractor shall notify all appropriate utility companies and water management agencies of proposed start up. All work shall be in accordance with their requirements; including but not limited to water, sewer, drainage, power, telephone, Gas and cable TV companies.

Seawall Specifications:

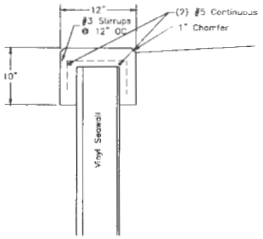
1. All timber shall be No. 1 Grade
2. Stagger joints of front and rear cap timbers
3. All timber to meet or exceed AWPA standards (C-2 & C-18) for preservative treatment as applicable.
4. For timber face and anchor piles, refer to ASTM D-25 for tip diameter and straightness.
5. All steel fasteners and tie-rods shall be hot drop galvanized per ASTM A-153 with 20 oz. of zinc per sf or be stainless steel (Grade 304 or 316).
6. If tie-rod is not stainless steel, exposed regions (section between wale and sheet pile) to be field treated with bitumastic coating.)
7. Backfill shall be clean, granular material (GW, GP, SW or SP per ASTM D-2487) and compacted to 95% max density.
8. Provide Type I Floating turbidity barriers for erosion control per site plan.
9. All construction shall conform to 2017 Florida Building.



Section View A-A
Scale: 1/2"=1'

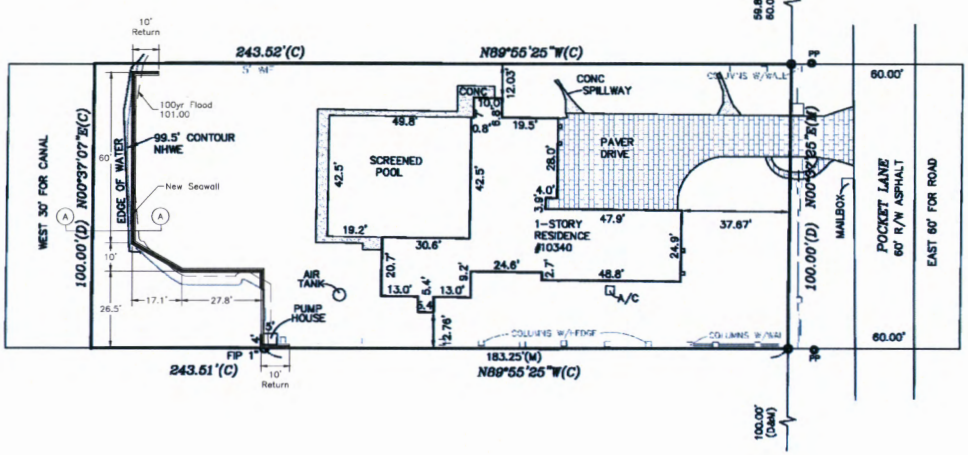


Front View
Scale: 1/2"=1'



Top Cap Section

LEGAL DESCRIPTION
THE NORTH 100.00 FEET OF THE SOUTH 300.00 FEET, (LESS THE WEST 30.00 FEET THEREOF RESERVED FOR CANAL AND THE EAST 60.00 FEET THEREOF RESERVED FOR ROAD), ALL IN SECTION 9, TOWNSHIP 24 SOUTH, RANGE 28 EAST, OF LOT 38, MUNGERS LAND COMPANY, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK E, PAGE 22, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.



Engineer:
Darcy Unroe Pe
Unroe Engineering, Inc
PO Box 690942
Orlando, Florida 32869
Ph (407) 299-0650
Fx (407) 429-7639

Project Data

Wind Load Design

Wind Speed:	140 mph
Importance Factor:	1.0
Exposure Category:	C
Int. Pressure Coef:	N/A

Applicable Codes
Florida Building Code 2017

DARCY UNROE LICENSE No 60929 STATE OF FLORIDA PROFESSIONAL ENGINEER

Darcy Unroe PE 60929

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28 W Central Blvd, Suite 200, Orlando, Florida 32801
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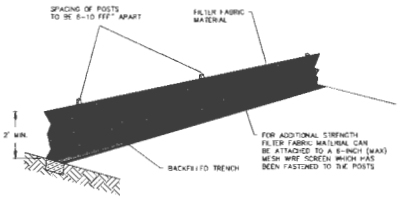
PO Box 690942, Orlando, Fl 32869-0942
Business Authorization Number: EB 00006679 ph (407) 299-0650

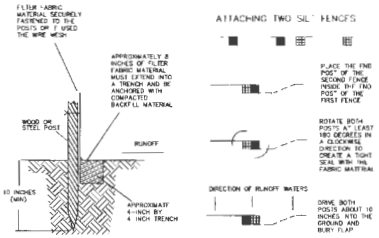
Seawall Installation Plan for

Winderlease LLC Dock/Seawall
10340 Pocket Lane, Orlando, Florida 32836

DP	Drawn
DP	Checked
Per Plan	Scale
4-4-18	Date
Hoover-C2	File

Dwg. No.
C3
3 of 4





SILT FENCE INSTALLATION DETAIL

Grading & Drainage Specifications:

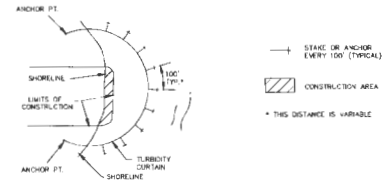
1. In accordance with Florida Law (553.851) the contractor must notify the gas or other utility a minimum of 48 hours and a maximum of five days prior to excavation. (Excluding weekends).
2. Contractor shall verify all existing grades in the field and shall notify the engineer of any discrepancies prior to construction.
3. Where new earthwork meets existing, smoothly blend line and grade of existing and new to provide vertical curves at the top and bottom of all slopes.
4. Excavation required within proximity of utility lines shall be done by hand. Contractor shall repair any damage to existing utilities incurred during construction.
5. All points of construction ingress and egress shall be maintained to prevent tracking or flow of sediment onto public roads, adjacent wetlands or bodies of water.

E - Erosion and Siltation Control

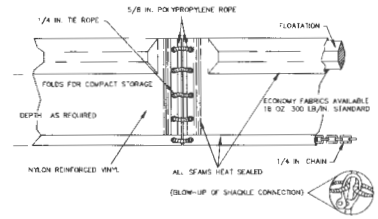
E1. A suitable perimeter silt fence shall be constructed and maintained for the duration of the project. The silt fence shall be built at the "silt fence line" as defined on the plans. Outlets and discharge points shall be protected with two layers of hay bales and filter cloth. Adjacent wetlands and open bodies of water, contractor must use a double fence separated by 5 feet. (See sheet for specific erosion control placement and details.)

E2. Sod all disturbed areas not shown as landscaping, slopes 6:1 or greater, swales, and ponds.

E3. Protect at all time against runoff or dewatering pollution of any downstream area or adjacent properties. Correct problems immediately.

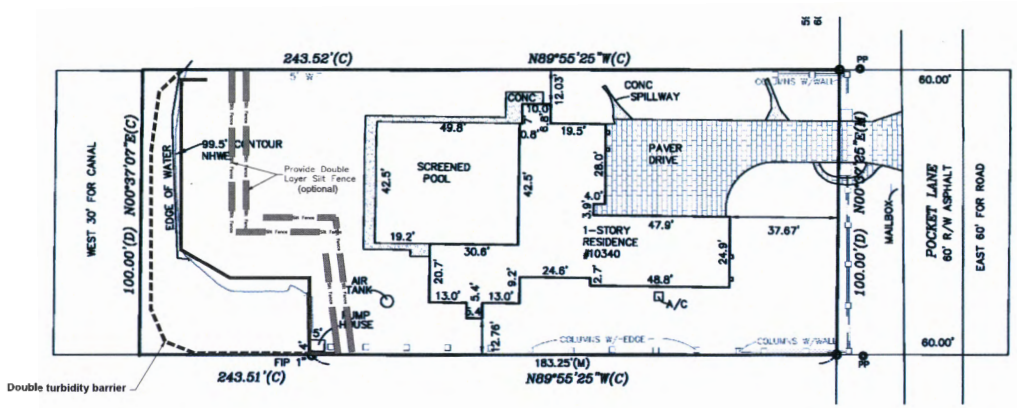


TYPICAL LAYOUTS OF FLOATING TURBIDITY BARRIERS
STREAMS, PONDS, AND LAKES (PROTECTED AND NON-TIDAL)



TYPE I FLOATING TURBIDITY BARRIER

Floatation Material:
Expanded Polyethylene Logs, 6" diameter, 55" Long, enclosed in 22 oz/sy PVC coated nylon or polyester (400 lbs min. tensile strength)
Curtain Material:
Silt film woven polypropylene (300 lbs min. tensile strength)
Curtain Weight:
1/4" Galvanized steel chain.



#	Date	Description

Revisions

Jason Vermilya GC
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Unroe Engineering, Inc
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Siltation and Erosion Control Details
Winderlease LLC Dock/Seawall
10340 Pocket Lane, Orlando, Florida 32836

DP	Drawn
DP	Checked
1"=20'	Scale
4-4-18	Date
dock04	File

Dwg. No
C4
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DARCY UNROE LICENSE No 60929 STATE OF FLORIDA PROFESSIONAL ENGINEER

Darcy Unroe PE 60929