

Board of County Commissioners

**Shoreline Alteration/Dredge and Fill
Permit Application**

SADF-21-01-000

Applicants: Richard and Deanne Irwin

September 14, 2021



Location Map

501 Lake Street, Windermere, FL 34786



Parcel ID No.: 17-23-28-9336-02-530



Aerial Photo

501 Lake Street, Windermere, FL 34786



Parcel ID No.: 17-23-28-9336-02-530



Existing Conditions



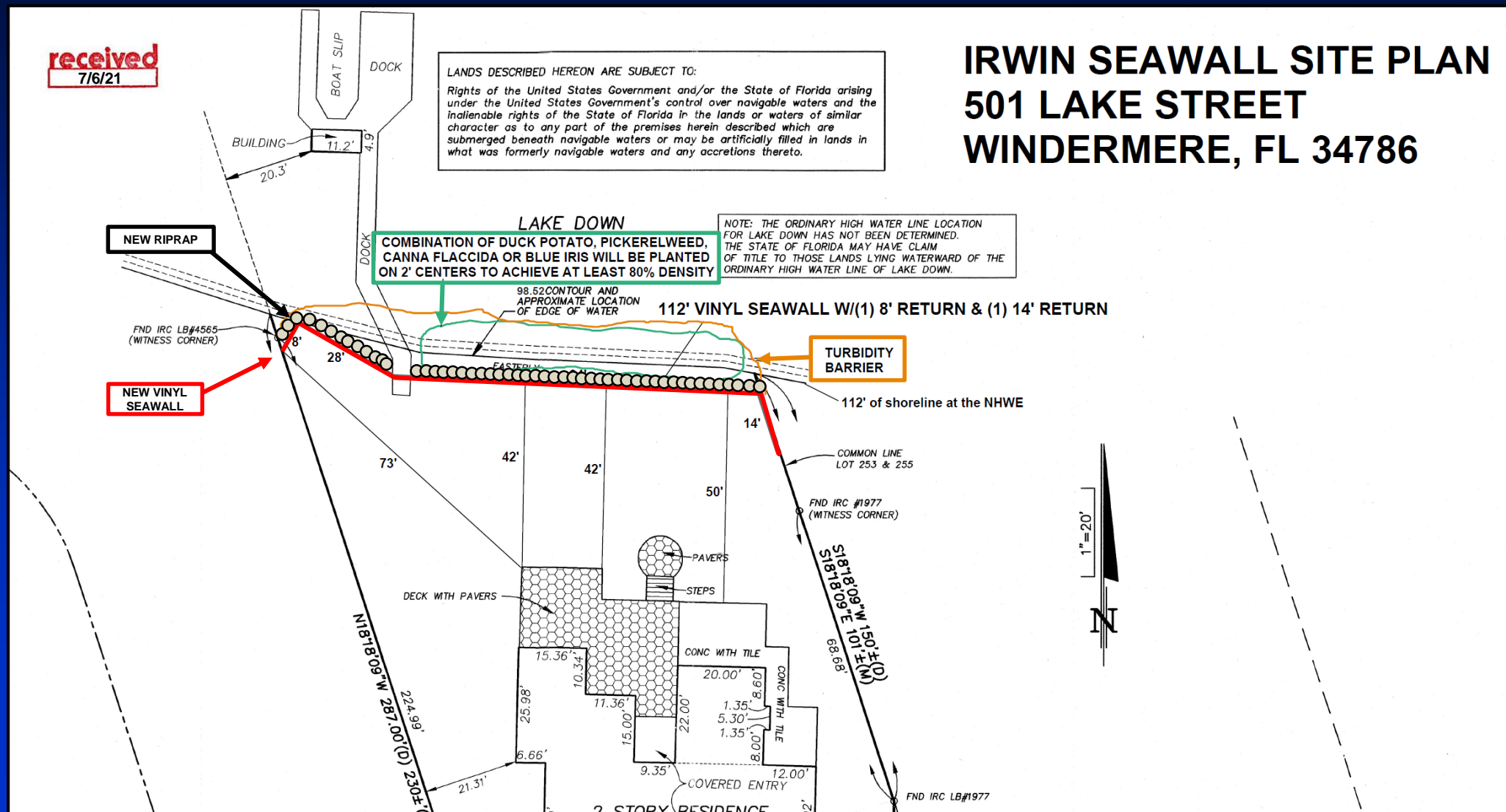


Existing Conditions





Site Plan





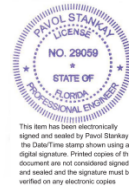
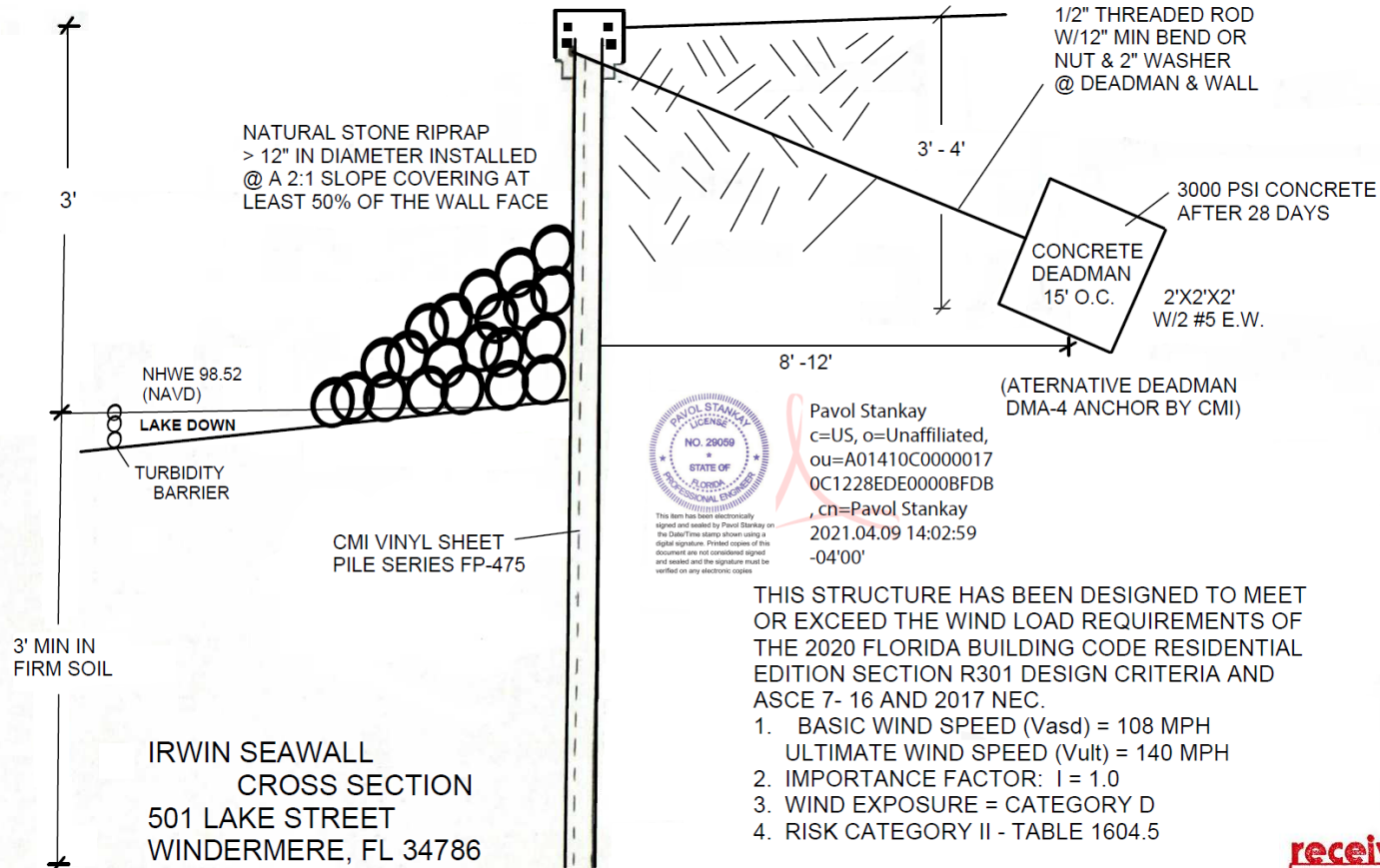
Site Plan

ALTERNATIVE CAP DETAIL
2X8 P.T. SIDE BRACING
W/ (1) 1/2" THRU BOLTS 2' O.C. &
1X6 CAP W/ (2) 2" SCREWS 1' O.C.

112' VINYL SEAWALL W(1) 8' RETURN & (1) 12' RETURN

Pavol Stankay
PE # 29059
2227 Mercator Drive
Orlando, FL 32807
(407) 701-2145
Pavol@segco.net

16" X 12" 3,000 PSI CONCRETE CAP
W/(4) #5 HORIZONTAL REBAR



Pavol Stankay
c=US, o=Unaffiliated,
ou=A01410C0000017
0C1228EDE0000BFDB
cn=Pavol Stankay
2021.04.09 14:02:59
-04'00'

THIS STRUCTURE HAS BEEN DESIGNED TO MEET
OR EXCEED THE WIND LOAD REQUIREMENTS OF
THE 2020 FLORIDA BUILDING CODE RESIDENTIAL
EDITION SECTION R301 DESIGN CRITERIA AND
ASCE 7- 16 AND 2017 NEC.

1. BASIC WIND SPEED (V_{asd}) = 108 MPH
ULTIMATE WIND SPEED (V_{ult}) = 140 MPH
2. IMPORTANCE FACTOR: $I = 1.0$
3. WIND EXPOSURE = CATEGORY D
4. RISK CATEGORY II - TABLE 1604.5

received
7/13/21



Considerations

- Project reviewed in accordance with Chapter 33, Article IV and the review criteria and conditions of issuance therein.
- There are no existing seawalls on either adjacent property; however, EPD received a letter from a professional engineer stating that construction of a new vertical seawall is the most practical method to stabilize and prevent further erosion of the shoreline.
- Notification of the public hearing was sent to property owners within 500 feet of the project site; no objections were received.



Finding

- Pursuant to Orange County Code, Chapter 33, Article IV, EPD staff has evaluated the proposed SADF application and required documents and has made a finding that the request is consistent with Section 33-129.



Action Requested

- **Acceptance of the findings and recommendation of the Environmental Protection Division staff and approval of Shoreline Alteration/Dredge and Fill Permit SADF-21-01-000 for Richard and Deanne Irwin, subject to the conditions listed in the staff report.**
District 1