



## SITE VISIT MEMORANDUM

**To: Pelican Reef Home Owners Association**

**From: Michael Whelan, P.E.**

**Project #: 18-024 (Pelican Reef)**

**Subject: Present Site Conditions**

**Date: May 10, 2019**

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INTRODUCTION: On May 6, 2019 an onsite visit was made to the Pelican Reef project site. The purpose of this visit was to observe current site conditions and compare said conditions to the proposed plans.

### **SITE CONDITIONS:**

- Site was observed from approximately 17:00-19:30
  - This was approximately 24 Hours after a rain event.

### **PROJECT AREA 1 (Pictures 97-104):**

- Existing Swale
  - Existing swale appeared wet with some standing water to the South side of Fiddler Crab Lane.
  - Identified a light pole and power transformer behind the existing swale.
  - Water service identified on the same side of the swale.
  - Specimen trees observed on the same side of the swale as identified utilities
- Lots on the South side of Fiddler Crab Lane
  - All lots on this side of the road are currently considered vacant.

### **PROJECT AREA 2 (Pictures 10-17):**

- Project area 2 had an observed survey benchmark along the eastern side of Spoonbill Court.
  - This project lies on and within the bounds of “vacant lots”
- Standing water was present within the existing swale.
- A television service box is located to the North of the project site.
- A cable service was flagged in the field to the South of the project site.
- Existing water services (meter boxes) were identified to the South of the site.

### **PROJECT AREA 3 (Pictures 1-9):**

- Swale in project area appears to be wet; however, limited standing water is observed directly within the project boundary.
  - Standing water was observed more so to the East of the project area (towards the front of the Sub Division).



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- Street lighting and a Fire hydrant identified to the East of the project area.
- Existing water valve located at the intersection of Spartina Avenue and Spoonbill Court.
- Television service boxes located within the project area.

**PROJECT AREA 4 (Pictures 55-63):**

- Swale located at the intersection of Oyster Catcher Circle and Spartina Avenue
  - Standing water increases where swale has a depth variance closest to 104 Oyster Catcher Circle mailbox (appears to be an underground pipe discharging improperly)
  - Television service boxes are located outside of the swale, on a developed lot.
- Two separate paver driveway sections (same lot) will need to be removed in order to allow for pipe installation.
  - Underground pipe section is located beneath paver driveway section discharges to a shallow non sodded area with utility service box adjacent.
  - Cable services were identified as being within the project area.
  - Water service (meter box) identified at western end of 110 Oyster Catcher Circle lot.

**PROJECT AREA 5 (Pictures 35-54):**

- Landscaping encroaches near roadway and could interfere with instillation of storm structures or piping.
- Driveways
  - One concrete driveway and one paver driveway
    - Paver driveway has a (appears) new Mitered end section discharging to the neighboring property. It is not evident whether this drainage is consistently positive. However, during the time of the site visit, there was limited standing water observed in the area.

**PROJECT AREA 6 (Pictures 75-87):**

- Driveways
  - There are 6 driveway sections that will need to be removed and replaced to install storm pipes and structures.
- Existing under driveway drainage pipe swales do not connect. Minimal standing water was observed during the time of the site inspection, however, this is prone to produce standing water.
- Existing water services to homes adjacent to the project area should be considered during the construction and bidding process.
- Existing wire utilities were identified to the North of the existing swale.

**PROJECT AREA 7 (Pictures 71-74):**

- Existing Swale
  - Swale contains standing water
- Project area lies in the bounds of “vacant lots”
- Water services (water meter) identified at the Northern most boundary to the site.



**PROJECT AREA 8 (Pictures 64-70):**

- Driveways
  - 3 Driveway sections will need removed and replaced (2 concrete and 1 paver).
    - 2 Existing type “C” inlets are in place adjacent to the paver driveway section.
  - Underground pipe sections discharges do not connect along the North side of Spartina Avenue.
    - This has created standing water in existing swale areas.
- Telephone service boxes were identified adjacent to the driveways.
- As street light pole and power transformer were identified

**PROJECT AREA 9 (Pictures 88-94):**

- Existing drainage swale
  - Swale appeared to have limited standing water, water appears to be draining to brush on the eastern side of Spartina Avenue.
  - Utility service (underground wire) and fire hydrant are located to the East and West of the project area respectively

## Attachment A



Figure 1: 18-024- 5.6 (1)



Figure 2: 18-024- 5.6 (2)



Figure 3: 18-024- 5.6 (3)



Figure 4: 18-024- 5.6 (4)





Figure 5: 18-024- 5.6 (5)



Figure 6: 18-024- 5.6 (6)



Figure 7: 18-024- 5.6 (7)



Figure 8: 18-024- 5.6 (8)



Figure 9: 18-024- 5.6 (9)



Figure 10: 18-024- 5.6 (10)





Figure 11: 18-024- 5.6 (11)



Figure 12: 18-024- 5.6 (12)



Figure 13: 18-024- 5.6 (13)



Figure 14: 18-024- 5.6 (14)



Figure 15: 18-024- 5.6 (15)



Figure 16: 18-024- 5.6 (16)





Figure 17: 18-024- 5.6 (17)



Figure 18: 18-024- 5.6 (18)



Figure 19: 18-024- 5.6 (19)



Figure 20: 18-024- 5.6 (20)



Figure 21: 18-024- 5.6 (21)



Figure 22: 18-024- 5.6 (22)



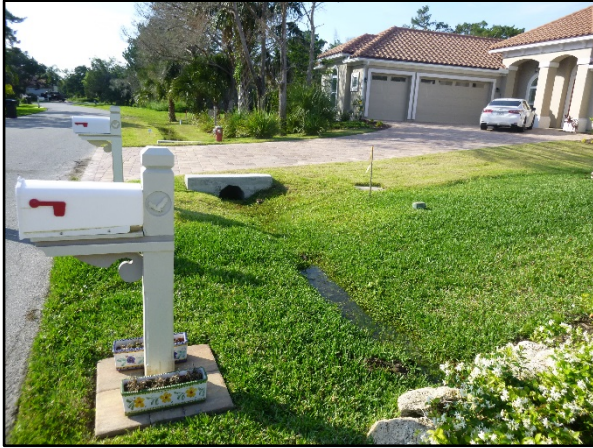


Figure 23: 18-024- 5.6 (23)



Figure 24: 18-024- 5.6 (24)



Figure 25: 18-024- 5.6 (25)



Figure 26: 18-024- 5.6 (26)



Figure 27: 18-024- 5.6 (27)



Figure 28: 18-024- 5.6 (28)





Figure 29: 18-024- 5.6 (29)



Figure 30: 18-024- 5.6 (30)



Figure 31: 18-024- 5.6 (31)



Figure 32: 18-024- 5.6 (32)

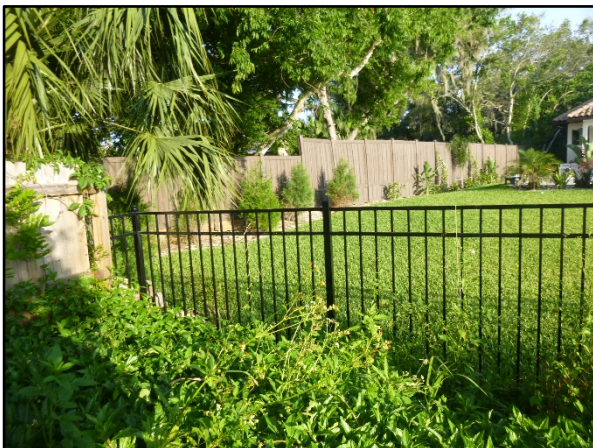


Figure 33: 18-024- 5.6 (33)



Figure 34: 18-024- 5.6 (34)





Figure 35: 18-024- 5.6 (35)



Figure 36: 18-024- 5.6 (36)



Figure 37: 18-024- 5.6 (37)



Figure 38: 18-024- 5.6 (38)



Figure 39: 18-024- 5.6 (39)



Figure 40: 18-024- 5.6 (40)





Figure 41: 18-024- 5.6 (41)



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Figure 61: 18-024- 5.6 (61)



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Figure 70: 18-024- 5.6 (70)





Figure 71: 18-024- 5.6 (71)



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Figure 79: 18-024- 5.6 (79)



Figure 80: 18-024- 5.6 (80)



Figure 81: 18-024- 5.6 (81)



Figure 82: 18-024- 5.6 (82)





Figure 83: 18-024- 5.6 (83)



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Figure 89: 18-024- 5.6 (89)



Figure 90: 18-024- 5.6 (90)



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Figure 95: 18-024- 5.6 (95)



Figure 96: 18-024- 5.6 (96)



Figure 97: 18-024- 5.6 (97)



Figure 98: 18-024- 5.6 (98)



Figure 99: 18-024- 5.6 (99)



Figure 100: 18-024- 5.6 (100)





Figure 101: 18-024- 5.6 (101)



Figure 102: 18-024- 5.6 (102)



Figure 103: 18-024- 5.6 (103)



Figure 104: 18-024- 5.6 (104)



Figure 105: 18-024- 5.6 (105)



Figure 106: 18-024- 5.6 (106)





Figure 107: 18-024- 5.6 (107)



Figure 108: 18-024- 5.6 (108)



Figure 109: 18-024- 5.6 (109)



Figure 110: 18-024- 5.6 (110)