



FIELD ASSESSMENT NOTES

- | | |
|---|--|
| <input type="checkbox"/> Stormwater Retrofit | <input checked="" type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Stream/Wetland Restoration | <input type="checkbox"/> Infrastructure Repair |
| <input type="checkbox"/> Residential Stewardship | <input type="checkbox"/> Illicit Discharge |
| <input type="checkbox"/> Land Conservation | <input type="checkbox"/> Other _____ |

Subwatershed: Fry/Compass

Site Name: Saga Haven Marina FC-1

Description of Existing Conditions:

parking area above marina has
lots of oil stains / vehicle spills.
include in pollution prevention survey
& residential education plan

Additional Notes and/or Sketch Information:



FIELD ASSESSMENT NOTES

<input type="checkbox"/> Stormwater Retrofit	<input type="checkbox"/> Pollution Prevention
<input type="checkbox"/> Stream/Wetland Restoration	<input type="checkbox"/> Infrastructure Repair
<input type="checkbox"/> Residential Stewardship	<input type="checkbox"/> Illicit Discharge
<input type="checkbox"/> Land Conservation	<input type="checkbox"/> Other _____

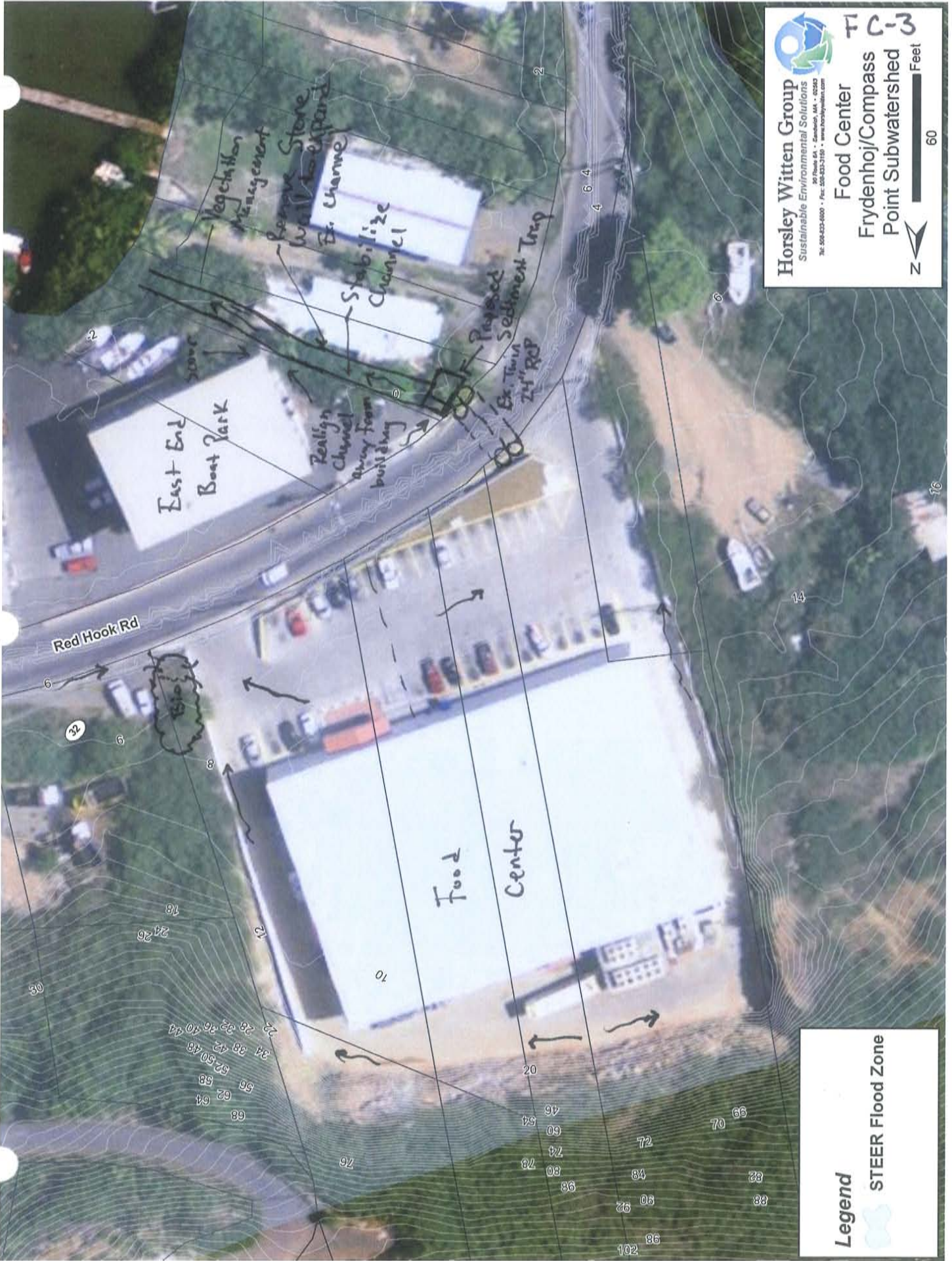
Subwatershed: Fry/Compass

Site Name: Food Center [FC-3]

Description of Existing Conditions:

- Address erosion and flooding at existing channel adjacent to East End Boat Park building.
- Reconstruct existing stonewall to expand the existing channel capacity.
- Stabilize existing channel to prevent erosion.
- Realign existing channel to prevent building foundation scour.
- Install sediment trap at culvert outlet for ease of maintenance.
- Provide vegetation management near harbor to address flow impediment.
- Install a bioretention area at the eastern entrance to Food Center for water quality treatment.

Additional Notes and/or Sketch Information:



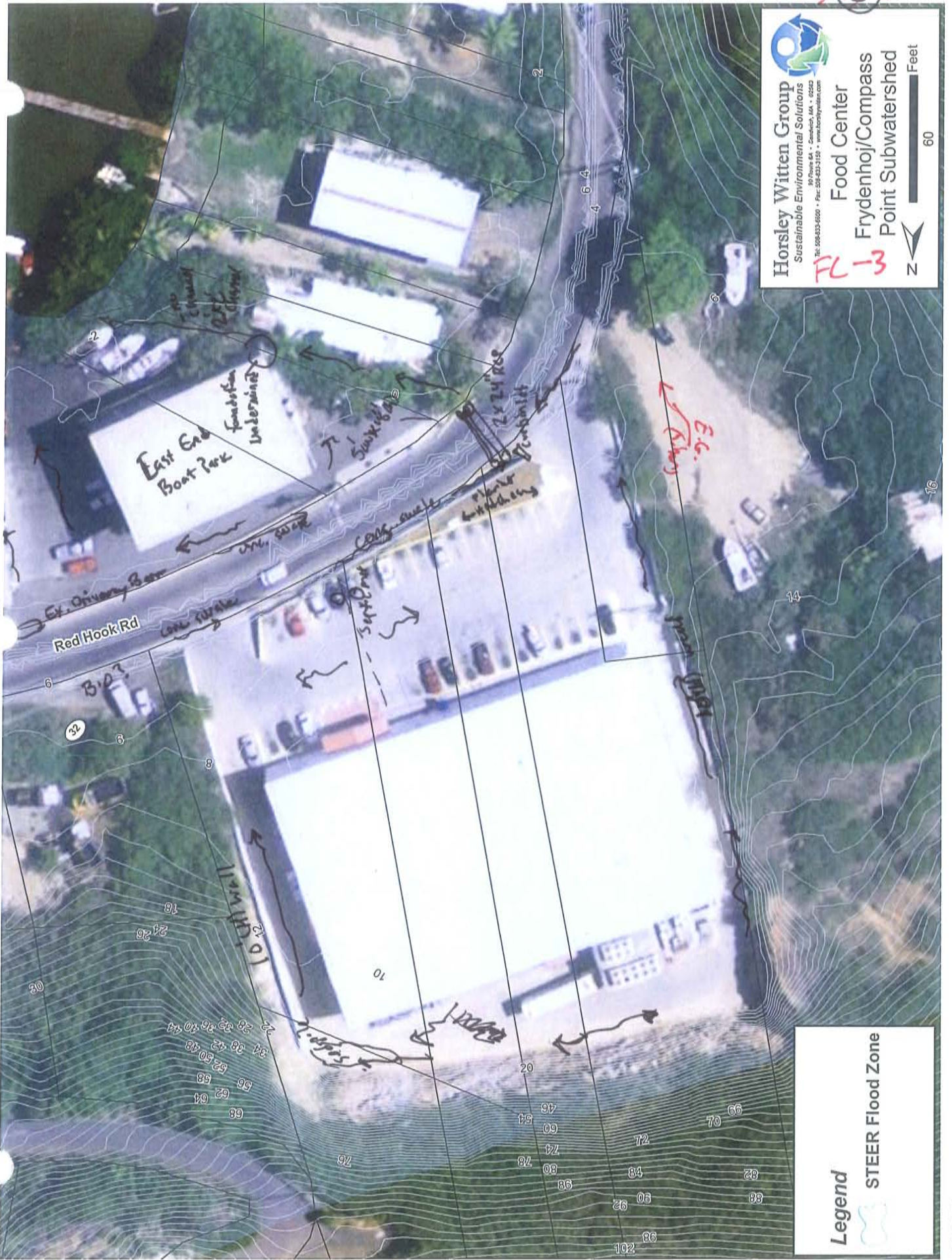

Horsley Witten Group
 Sustainable Environmental Solutions
 30 Route 6A • Scarborough, MA • 02207
 Tel: 508-533-6000 • Fax: 508-533-7159 • www.horsleywitten.com

FC-3
Food Center
Frydenhoj/Compass
Point Subwatershed

Feet
 60


Legend

STEER Flood Zone



Horsley Witten Group
 Sustainable Environmental Solutions
 89 North St. • Southwick, MA • 01029
 Tel: 508-833-6600 • Fax: 508-833-3156 • www.horsleywitten.com

~~3~~

Food Center
 Frydenhoj/Compass
 Point Subwatershed
FL-3



Legend

 STEER Flood Zone



FIELD ASSESSMENT NOTES

- | | |
|---|--|
| <input type="checkbox"/> Stormwater Retrofit | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Stream/Wetland Restoration | <input type="checkbox"/> Infrastructure Repair |
| <input type="checkbox"/> Residential Stewardship | <input type="checkbox"/> Illicit Discharge |
| <input type="checkbox"/> Land Conservation | <input type="checkbox"/> Other _____ |

Subwatershed: Fry/Compass Pt.

Site Name: Independent Boat yard FC-4 ~~FC-5~~

Description of Existing Conditions:

new owners are hardcore about

- vacuum paint chips, using tarps, etc
- sediment tanks near slip in progress - have henley's pump it out

→ dust collection ^{systems} vacuums for sanding bottoms. highly used. NO SANDING WITHOUT THOSE

* SEE OWNER COMMENTS

NEED TO ADDRESS ROAD RUNOFF, possibly divert prior to entering property with berm or catch basin

Additional Notes and/or Sketch Information:

Jim Kellog Manager of boatyard

INDEPENDENT BOAT YARD

Additional Notes and/or Sketch Information:

→ Flow coming in at entrance - funds drain? drop inlet. raised speed bump.

→ DOT main road. - drop inlet; retrofit solvent out

culvert closed



FIELD ASSESSMENT NOTES

- | | |
|---|--|
| <input type="checkbox"/> Stormwater Retrofit | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Stream/Wetland Restoration | <input type="checkbox"/> Infrastructure Repair |
| <input type="checkbox"/> Residential Stewardship | <input type="checkbox"/> Illicit Discharge |
| <input type="checkbox"/> Land Conservation | <input type="checkbox"/> Other _____ |

Subwatershed: FR4/COMP. PT

Site Name: FC-5 GUT CROSSING - CULVERT @ RT 32

Description of Existing Conditions:

FC-4

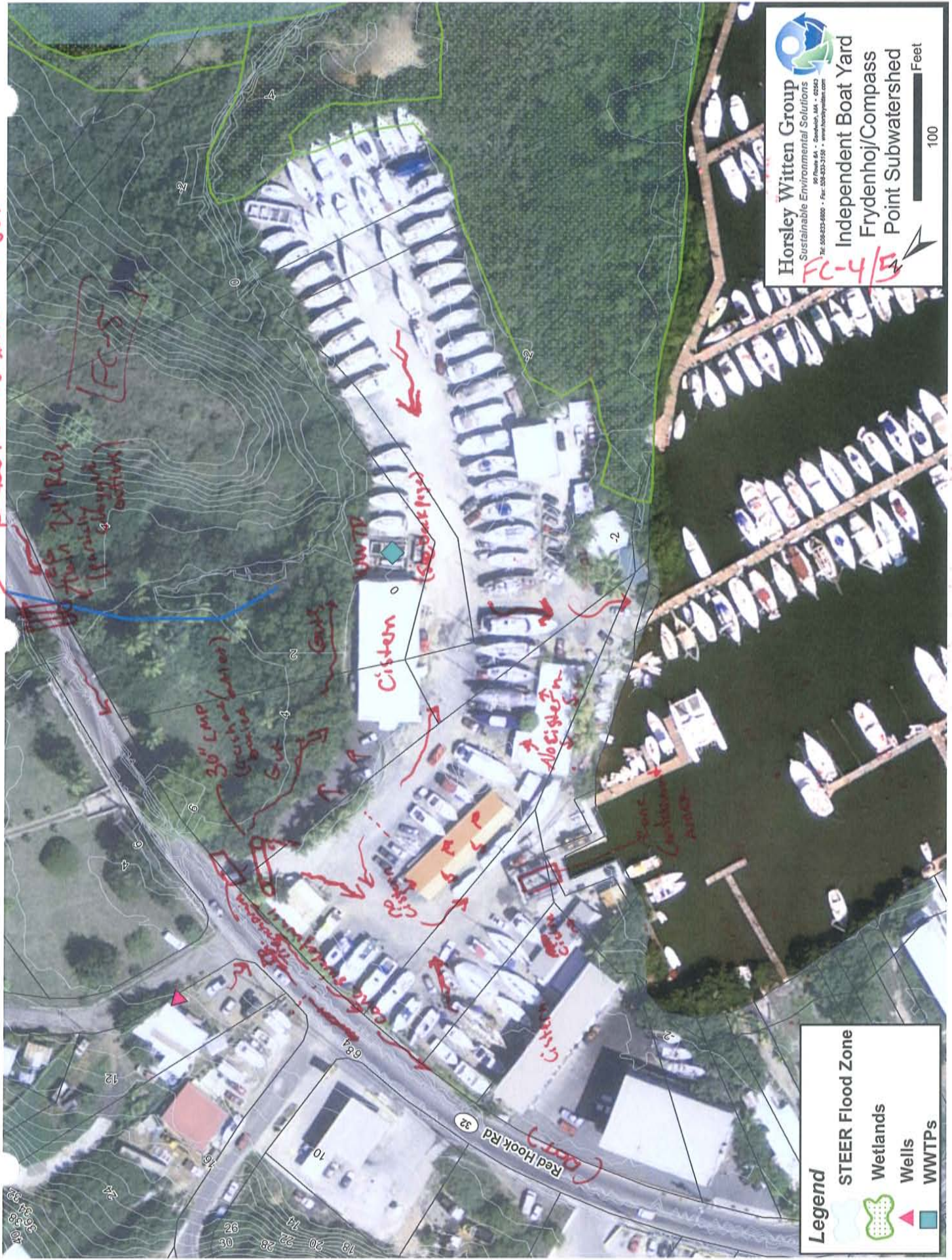
- Eliminate runoff from entering Independent Boat Yard
- Runoff currently flows west on Red Hook Road and into Independent via the driveway. Reported flooding occurs.
- Install a trench drain and paved flume to capture road runoff.
- Install a sediment trap at the outlet of the existing culvert and proposed practices for ease of maintenance.

FC-5

- Maintain existing culverts
- Remove sediment and debris.
- Provide vegetation management to clear obstructions
- Consider increasing culvert size to address flooding and road overtopping.
- Stabilize erosion gullies leading to gut.

Additional Notes and/or Sketch Information:

Closed / Ended inlet at Gut




Horsley Witten Group
 Sustainable Environmental Solutions
 92 Route 6A • Concord, MA • 02342
 Tel: 508-333-8800 • Fax: 508-333-2261 • www.horsleywitten.com

Independent Boat Yard
Frydenhoj/Compass
Point Subwatershed

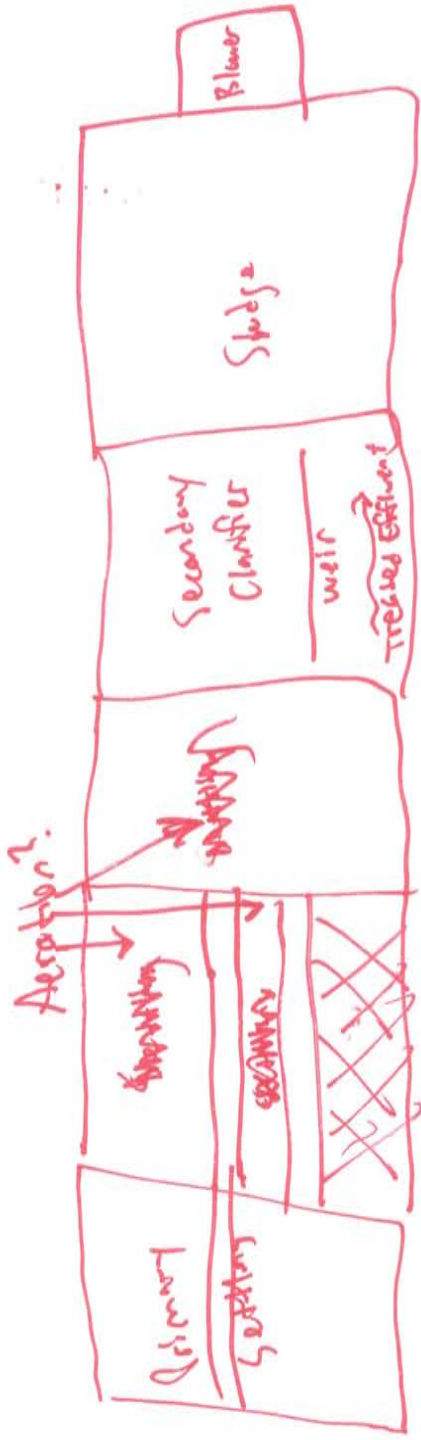
FC-4/5

100 Feet

Legend

- STEER Flood Zone
- Wetlands
- Wells
- WWTPs

Bothrooms/showers / Bud Set Machine



• Used for irrigation / No chlorination

~ 6000 gpd

Sediment, Trash, veg. Management

6-5 Stabilize Erosion Gullies



Horsley Witten Group
 Sustainable Environmental Solutions
 30 Davis St. • Southwick, MA • 01084
 Tel: 508-833-6000 • Fax: 508-833-2158 • www.horsleywitten.com

**Independent Boat Yard
 Frydenhoj/Compass
 Point Subwatershed**

0 100 Feet

Legend

- STEER Flood Zone
- Wetlands
- Wells
- WWTPS



FIELD ASSESSMENT NOTES

- | | |
|--|--|
| <input type="checkbox"/> Stormwater Retrofit | <input type="checkbox"/> Pollution Prevention |
| <input checked="" type="checkbox"/> Stream/Wetland Restoration | <input type="checkbox"/> Infrastructure Repair |
| <input type="checkbox"/> Residential Stewardship | <input type="checkbox"/> Illicit Discharge |
| <input type="checkbox"/> Land Conservation | <input type="checkbox"/> Other _____ |

Subwatershed: Fry / CP

Site Name: BENNER BAY / MARINA FC-7

Description of Existing Conditions:

IBY has recommended sediment removal in area near slip where highest TBT values have been recorded. They suggested disposal in a lined pit located on Compton Pt. marina property.

See Jim Kellog notes --

Additional discussions with NOAA OPAW, ACOE should be had to determine feasibility and benefit.

Additional Notes and/or Sketch Information:

Anne Kitchell

From: Anne Marie Hoffman [ahoffman@TNC.ORG]
nt: Tuesday, January 29, 2013 7:21 PM
o: Anne Kitchell
Subject: Independent Boat Yard and Compass Point

Hey Anne-

FYI – Jim Kellogg, manager of Independent Boatyard supplied the following regarding 1. Remediating contaminated sediments and 2. limiting flooding/stormwater that sheet flows down from the light where my house is, heading west and ends up flowing into Independent Boat Yard. Including #2 in the Watershed Plan would be a good idea, if you agree with the concepts.

I also talked to him briefly about a rain garden in the Compass Point parking lot and he said that it is saltwater intrusion, not freshwater that floods the parking lot. Things that make you go hmmm...

Also, I know I owe you a photo!

Thanks,
Anne Marie

From: jim kellogg [<mailto:kelloggvi@yahoo.com>]
Sent: Friday, January 25, 2013 11:13 AM
To: Anne Marie Hoffman
Subject: Remediation

Ann Marie,

Regarding what we discussed today:

(1) Remediation of TBT located off the IBY slipway. Propose removing all sediment containing the highest concentration of TBT and placing it in a plastic lined basin on adjacent property owned by Compass Point Marina where we would aerate it with a roots blower thru a grid of pvc pipe laid in the plastic lined basin until the TBT has broken down. Estimate a period of some months of blower operation.

(2) Re runoff in front of IBY property, suggest some help with permitting would be helpful, and we would bear the cost of concrete swale across our entrance to divert runoff into the gut for settlement. Additionally, need cooperation of public works to correct the current crown in the road to facilitate diverting runoff from the hill to the gut it used to run into. Can be accomplished by creating in essence a 3 inch rise in the road surface over a distance of say 50 to 75 feet.

Regards Jim Kellogg



FIELD ASSESSMENT NOTES

- | | |
|---|--|
| <input type="checkbox"/> Stormwater Retrofit | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Stream/Wetland Restoration | <input type="checkbox"/> Infrastructure Repair |
| <input type="checkbox"/> Residential Stewardship | <input type="checkbox"/> Illicit Discharge |
| <input type="checkbox"/> Land Conservation | <input type="checkbox"/> Other _____ |

Subwatershed: FRY/COMPASS

Site Name: COMPASS PT. SALT POND FL-6

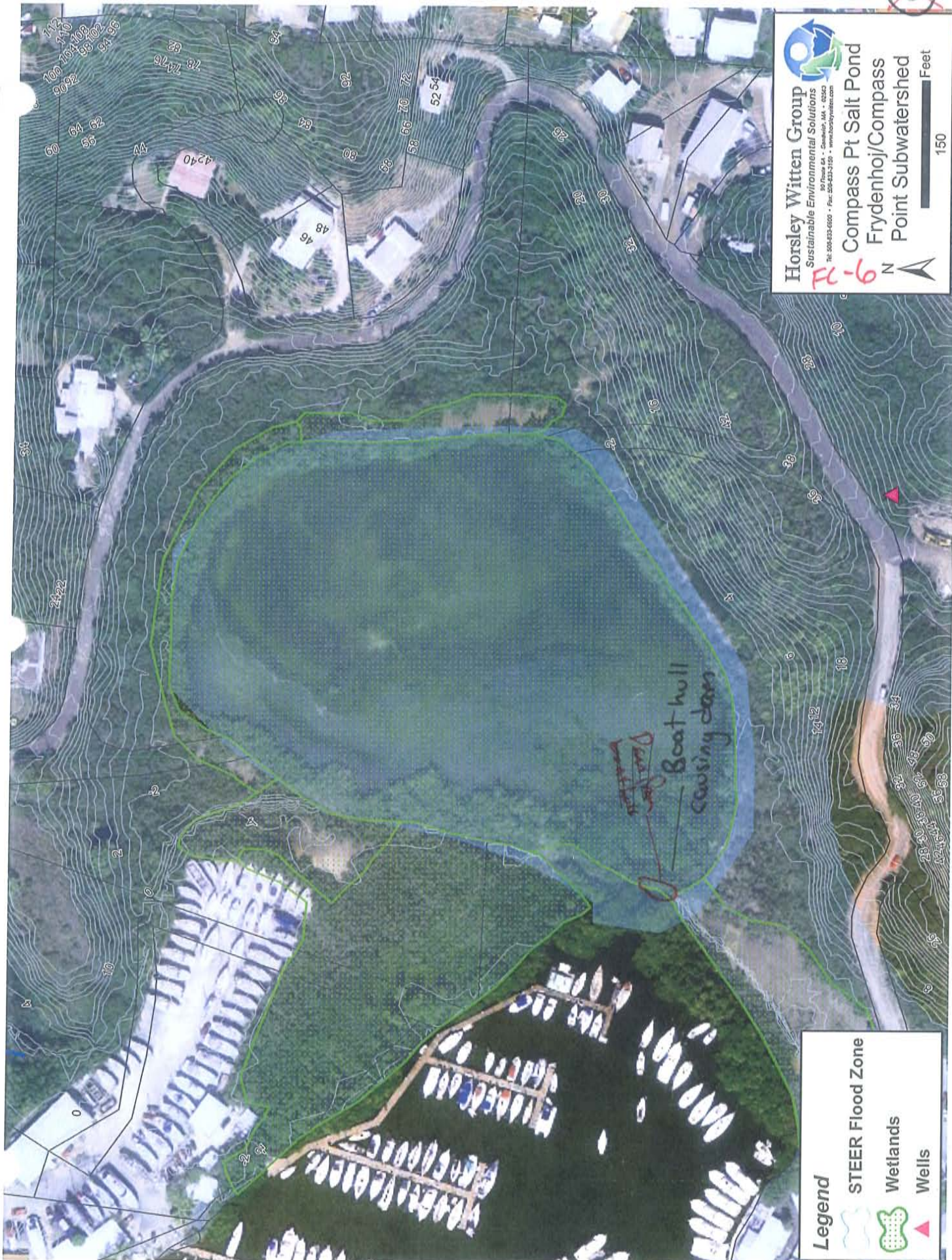
Description of Existing Conditions:

DUI → painting 11 markings

JANUARY LOOKLINE @ 3 SITES
REDHOOK SALT POND, CRSP, SECOND FALSE ENTRANCE

- #1 ORTHORECTIFY AERIALS HISTORICAL CONDITIONS
- #2 FIELD ASSESSMENT TO PRIORITIZE 3 SITES
 - BATHYMETRIC TO ESTIMATE DREDGING CAPACITY
 - CONTAMINANT SAMPLING - ORGANIC ; INORGANIC
 - WATER MODELING - FLUSHING RATE
- #3 IMPLEMENT TOP PRIORITY

Additional Notes and/or Sketch Information:





FIELD ASSESSMENT NOTES

- | | |
|---|--|
| <input type="checkbox"/> Stormwater Retrofit | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Stream/Wetland Restoration | <input type="checkbox"/> Infrastructure Repair |
| <input type="checkbox"/> Residential Stewardship | <input type="checkbox"/> Illicit Discharge |
| <input type="checkbox"/> Land Conservation | <input type="checkbox"/> Other _____ |

Subwatershed: Frydenhoj/Compass Pt.

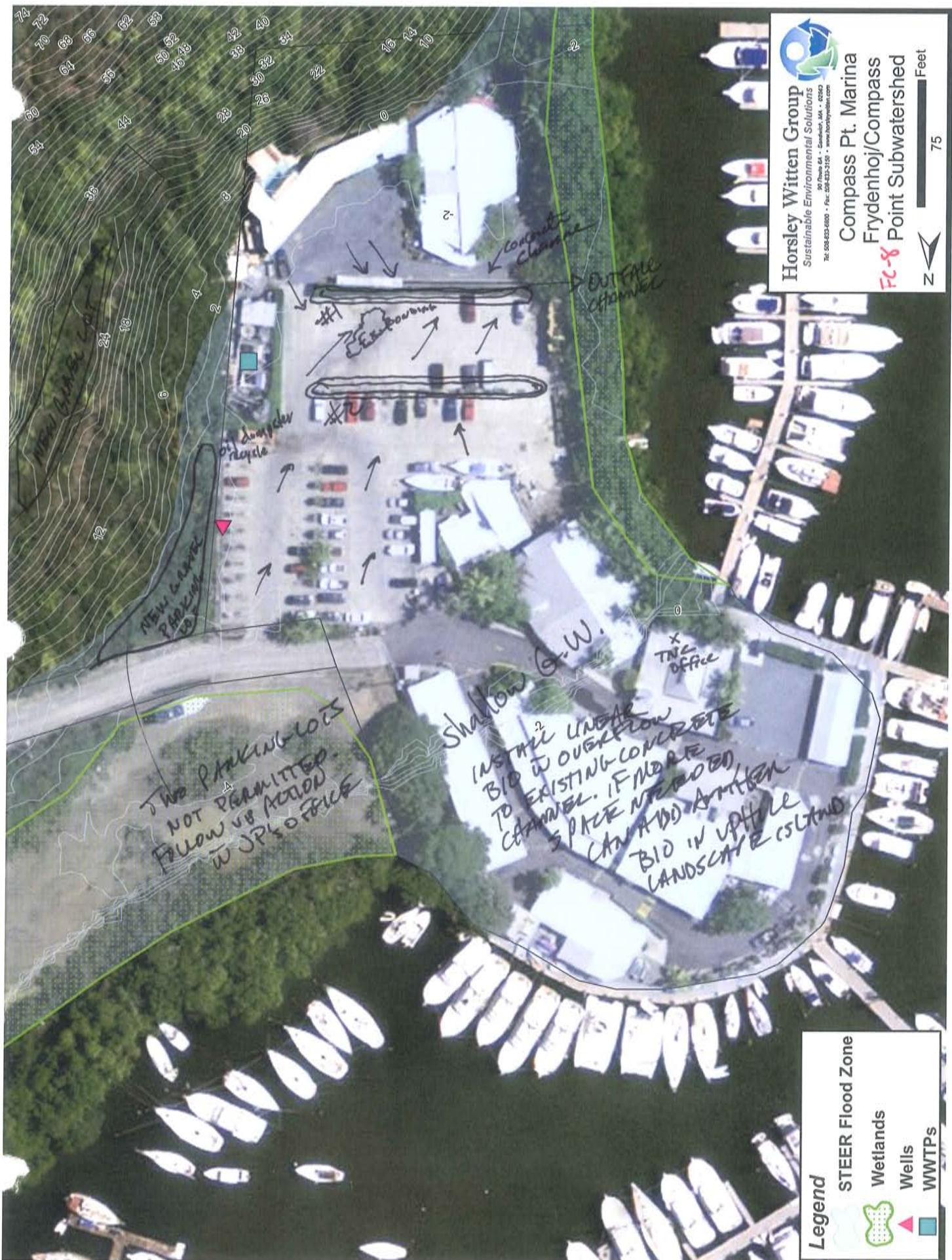
Site Name: Compass Pt. Marina FC-8

Description of Existing Conditions:

Consider potential for expanding landscape areas in parking lot to provide shallow bios for water quality treatment. Would be a great, highly visible location for demo project.

Maybe could be funded by mitigation for unpermitted gravel parking lots. (FC-9)

Additional Notes and/or Sketch Information:




Horsley Witten Group
 Sustainable Environmental Solutions
90 Howe St. - Cambridge, MA - 02142
Tel: 603-853-0200 • Fax: 603-853-0100 • www.horsleywitten.com

Compass Pt. Marina
Frydenhoj/Compass
Point Subwatershed

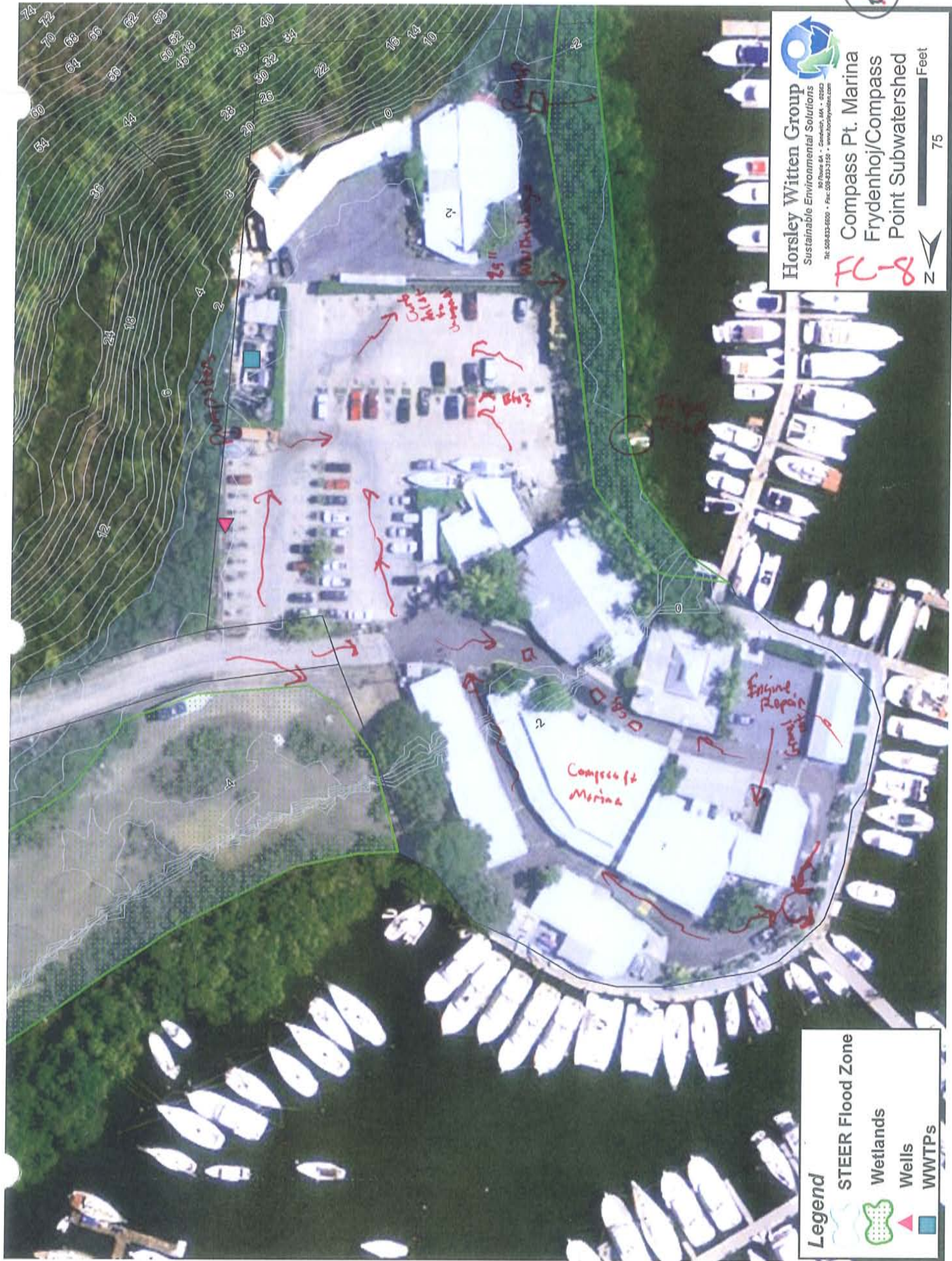

 Feet
 75

Two parking lots
 NOT PERMITTED
 Follow US ACTION
 in JP's OFFICE

Shallow G.W.
 INSTALL LINEAR
 BID TO OVERFLOW
 TO EXISTING CONCRETE
 CHANNEL. IF MORE
 SPACE NEEDED
 CAN ADD ANOTHER
 BID IN UPTHE
 LANDSCAPE ISLAND

Legend

-  STEER Flood Zone
-  Wetlands
-  Wells
-  WWTPs



Horsley Witten Group
 Sustainable Environmental Solutions
 100 State Street, Concord, MA 03302
 Tel: 508-833-6000 • Fax: 508-833-3150 • www.horsleywitten.com

Compass Pt. Marina
Frydenhoj/Compass
Point Subwatershed

FC-8

Feet
 75



Legend

STEER Flood Zone

Wetlands

Wells

WWTTPs





FIELD ASSESSMENT NOTES

- | | |
|---|---|
| <input checked="" type="checkbox"/> Stormwater Retrofit | <input type="checkbox"/> Pollution Prevention |
| <input type="checkbox"/> Stream/Wetland Restoration | <input type="checkbox"/> Infrastructure Repair |
| <input type="checkbox"/> Residential Stewardship | <input type="checkbox"/> Illicit Discharge |
| <input type="checkbox"/> Land Conservation | <input checked="" type="checkbox"/> Other _____ |

Subwatershed: ~~Downs~~ FRYDENHOJ/COMPASS PT

Site Name: ~~YAKAWA~~ NEW PARKING LOTS

Description of Existing Conditions:

FC-9

Enforcement action follow-up.
 Two new parking lots cut into hillside gravel/stone lots.

Additional Notes and/or Sketch Information:

Description of Proposed Project:

Handwritten notes in red ink on lined paper, including the words "Watershed" and "Assessment".

Additional Notes and/or Sketch Information:

Site Priority: Love it Has Potential Not Likely Enforcement Needed