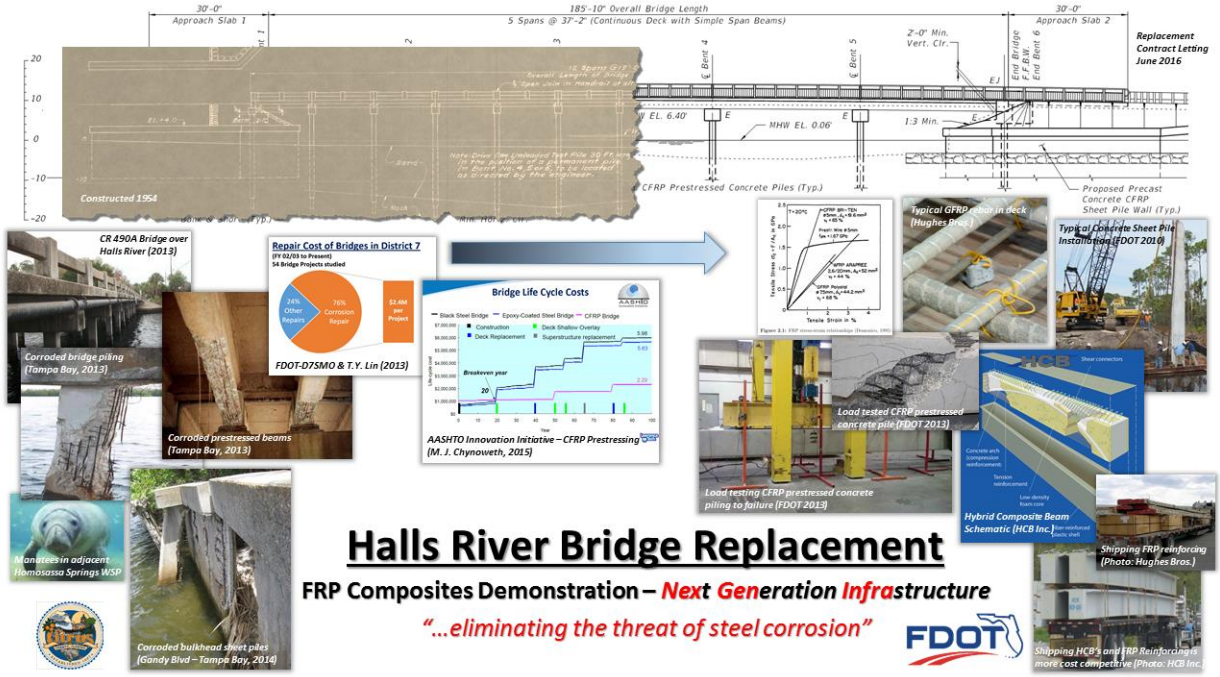
FDOT – Halls River Bridge FRP Workshop Outline

Date: May 3rd - 4th 2017

Location: FDOT - District 7 HQ, *Auditorium*
11201 North Malcom McKinley Drive
Tampa, Florida 33612



AGENDA

5/3/2017 – Wednesday 1:00 pm to 5:00 pm, D7-HQ Presentations

1. Welcome (5 min.)
2. Presentations (3 hrs)
    a. Bridge Design (Masseus & Siddiqui)
        i. Project overview
        ii. Hybrid Composite Beams
        iii. GFRP-RC Design
        iv. Challenges and Lessons Learned

    (Break 15 min)

    b. Developmental Design Standards (Nolan)
        i. CFRP Prestressed Bearing Piles
        ii. GFRP/CFRP Prestressed Concrete Sheet Pile Walls
        iii. Gravity Walls
        iv. GFRP-Approach Slabs & Traffic Railings
    c. Research Project & Monitoring Discussion (Roddenberry)
    d. CEI's Insight & Future Recommendations (CEI/D7 Construction)
    e. Contractor's Perspective (Astaldi)
3. Open Discussion (30 min.)
4. Closing Remarks (5 min.)

5/4/2017: Halls River Site Visit (FDOT/SEACON-WP4 collaboration)

7:30 am – 9:00 am Travel 1.5 hrs – (not provided)

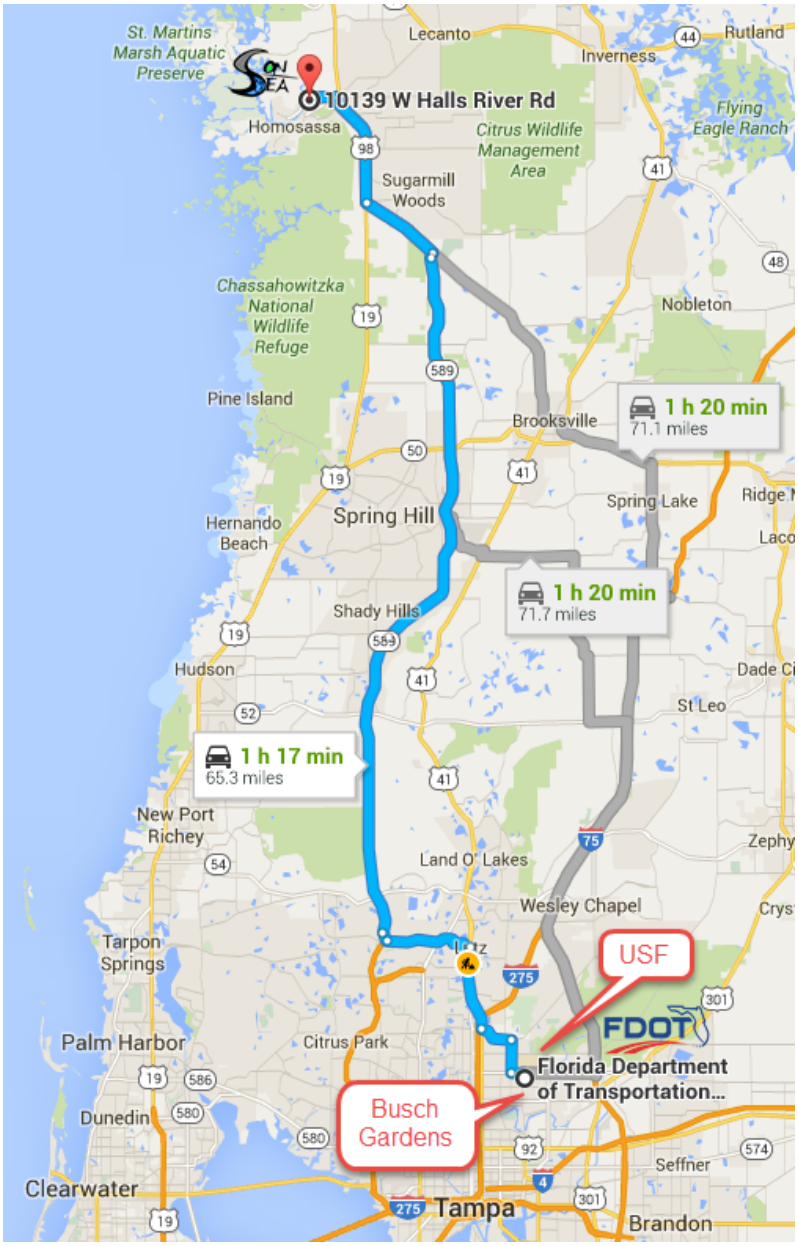
9:00 am – 11:30 am Site Tour (2.5 hrs by Contractor, CEI and Designer)

1. Carpool from Staging Area and Assemble at site viewing area (30 mins)
2. Contractor Overview
3. Walk the site if possible (2 or 3 groups)

11:30 am adjourn (Return to Tampa or travel directly home)

For those attending the Site Visit on Thursday May 4, please bring your own hard hat & safety vest (if possible) and protective footwear.

Map from Tampa to Halls River Bridge Site (FDOT/SEACON-WP4 Project):



Site Visit Staging Area:

Homosassa Springs Shopping Center
Springs Plaza, 3942 S Suncoast Blvd.
Homosassa, FL 34448

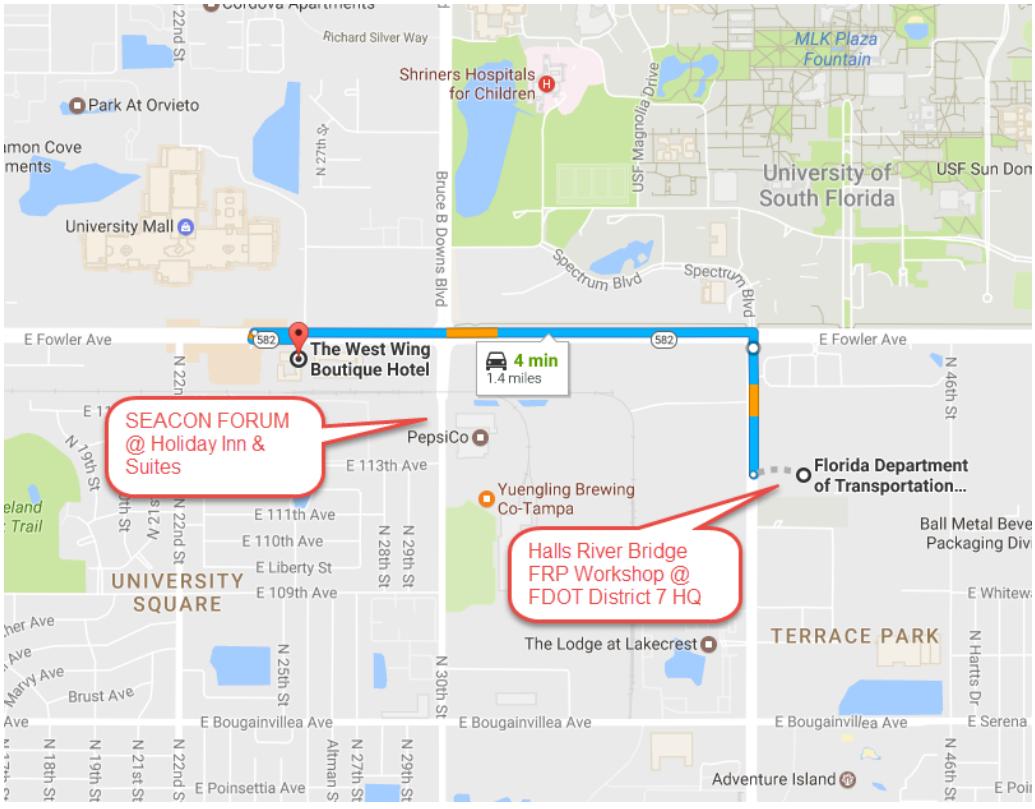
Site Location:

W Halls River Rd.
Coordinates: 28.801164, -82.602774
(28°48'04.2"N 82°36'10.0"W)
Closest Address: 10250 W Halls River Rd.
Homosassa, FL 34448

A block of rooms has been set-up at the West Wing Hotel in Tampa on May 3rd at:

West Wing Boutique Hotel
2501 East Fowler
Tampa, FL 33612

Please call the hotel directly at 813-559-8000
Rate: $109 (FDOT) - Present FDOT badge when checking in to get the rate
Group Block: FDOT Halls River Bridge Workshop
Reservation deadline: 4/22/17



Preceding SEACON FORUM *(separate event)*

5/3/2017: Wednesday 8:00 am to 12:00 pm, SEACON Meeting

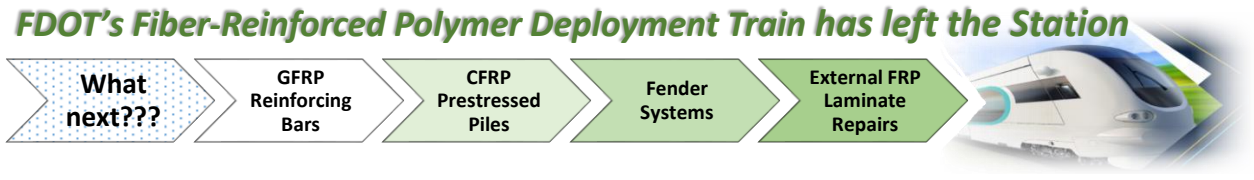
Holiday Inn & Suites Tampa North
11310 North 30th Street, Tampa, Florida 33612
http://seacon.um-sml.com/seacon-forum.html

FDOT Recommended Reading Resources:

- Invitation to Innovation – FRP Reinforcing (website)
- ***Developmental Design Standards***
- ***Structures Manual***, Volume 4 Fiber Reinforced Polymer Guidelines.
- ***Materials Manual*** (Chapter 12) and FRP Producer QC Program requirements
- FDOT/FHWA Corrosion-Resistant Rebar (CRRB) Seminar (July 17, 2012)
    - FRP Composite Rebar (John Busel – ACMA)
    - Cost Comparison of CRRB (Lou Triandafilou – FHWA)
- FHWA/NCHRP 20-68A U.S. Domestic Scan 13-03 meeting with FDOT (June 4-5, 2015)
- 2014 FDOT Design Expo (June 10-12):
    - Fiber Reinforced Polymer (FRP) Composites
- 2015 FDOT Design Expo (June 9-11, 2015):
    - Composites and FDOT Direction
    - Design of First FRP Reinforced Concrete Bridge in Florida
- 2016 Design Expo
    - 6/13/16 Corrosion Resistant Piling & Precast Bent Cap Standards
    - 6/14/16 High-Strength and Fiber-Reinforced Concrete Design
    - 6/14/16 Halls River Composite Bridge Update
- FDOT-GFRP Rebar Industry Workshop (June 15, 2016) – following 2015 Design Expo
- 2016 CAMX (Anaheim Sept. 26-29)
    - 9/29/16 FDOT-FRP Deployment for Structural Applications
    - 9/29/16 ACMA-Transportation Structure Council meeting - FDOT Presentation

Other Recommended Reading Resources:

- AASHTO Innovation Initiative – CFRP Strands
- ASTM WK43339 - New Specification for Solid Round Glass Fiber-Reinforced Polymer Bars for Concrete Reinforcement
- SEACON-Infravation (FHWA/ERA-NET Plus sponsored)

Mission Critical Statement:

In support of FDOT's ***Invitation to Innovation*** initiative in Fiber Reinforced Polymer (FRP) Reinforcing Bars and Strands, the Halls River Bridge FRP Workshop is proposed to be held at the District 7 Headquarters, in Tampa, Florida. Based on FDOT District interest and the importance of this project in innovative design, this training is critical for showing practical implementation of design and material criteria to effectively leverage the most benefit from FRP materials. This workshop is aimed at educating designers and furthering collaboration with the FRP Industry producers and academia in previously identified areas of interest to the FDOT. **This workshop provides stakeholders with the opportunity to improve FRP deployment through design criteria and specification refinement in support of the Florida Department of Transportation's statewide mission to improve road user safety, mobility, and preservation of the quality of our environment.**