

Beckett Bridge PD& E Study

Alternatives Presentation to:

MPO Board, Technical and Advisory Committees

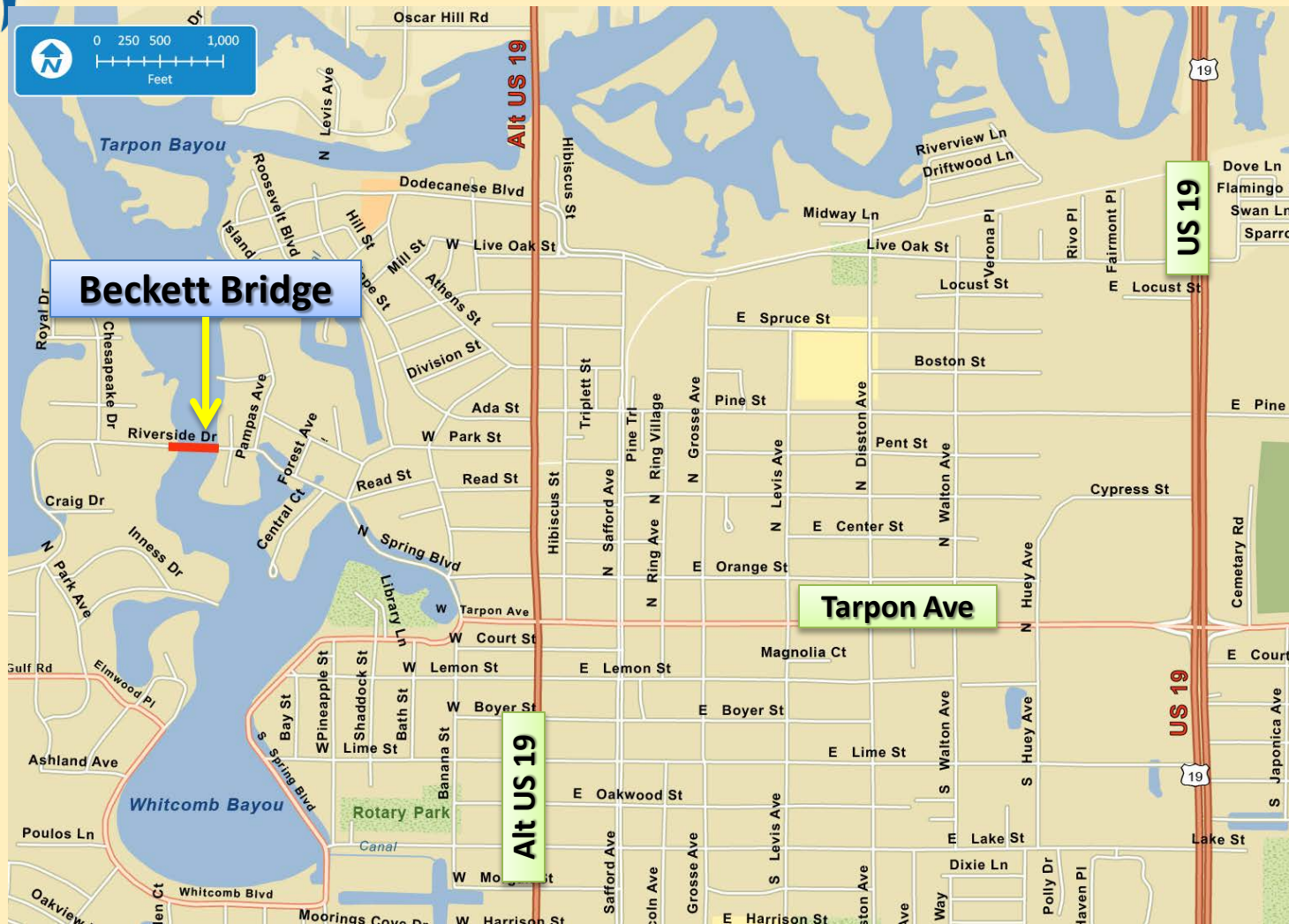


ECDriver
& Associates, Inc.


URS

JANUS
RESEARCH

October - November 2012





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- Determined to be Eligible for listing in the National Register of Historic Places
 - Original Timber Construction – 1924
 - Rebuilt Concrete Bridge – 1956
 - Major Repairs in 1979, 1998 and 2011
 - Sufficiency Rating - 44.9 (Scale of 1 -100)
 - Structural Concerns
 - Functionally Obsolete

- Vertical Clearance – 6 ft
- Horizontal Clearance – 25 ft
- Opens with 2-hr Notice

**Total Bridge
Openings**

2009 - 10

2010 - 20

2011 - 18




- **Structural Issues**
 - Posted Weight Restrictions (12 tons)
 - Foundations susceptible to settlement
 - Scour Susceptible



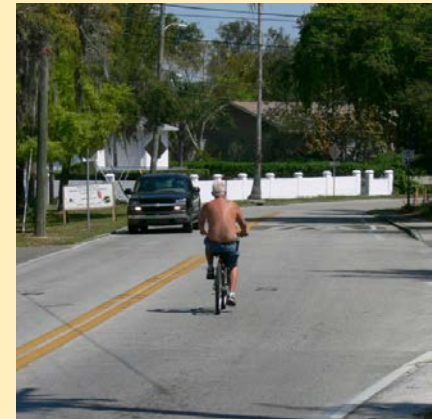
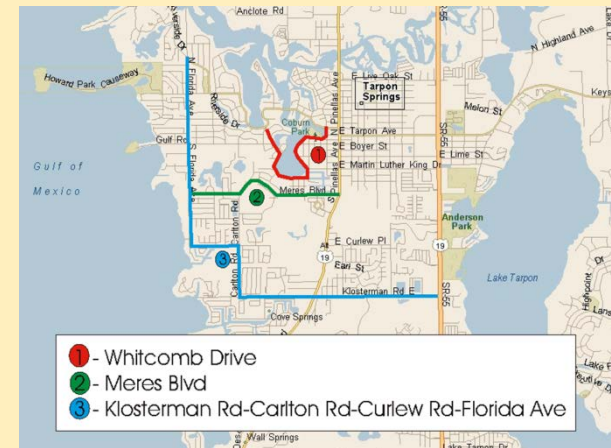
- **Functionally Obsolete**
 - **Narrow Sidewalks**
 - Do Not Meet ADA Requirements



- **Narrow Lanes**
 - No Shoulders
 - No bicycle lanes

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- **Engineering, Social & Environmental Studies**
 - **Community Involvement**
 - **Develop and Evaluate Alternatives**
 - **Select Preferred Alternative**
 - **Obtain FHWA Approval**

- **Community Concerns**
 - Vertical Clearance
 - Noise
 - Construction Impacts
 - Detour/MOT
 - Aesthetics
 - Bicycle/Pedestrian Facilities



- Project Website
- Coordinate with Local Government
- Meet with Stakeholder Groups
- Alternatives Public Workshop
- Public Hearing



- **No-Build**
- **No-Build with Permanent Removal of Existing Bridge**
- **Rehabilitation**
- **Replacement on Existing Alignment**
 - **Low-Level Movable Bridge**
 - 7.8 ft Vertical Clearance
 - 25 ft Horizontal Clearance
 - **Mid-Level Fixed Bridge**
 - 28 ft Vertical Clearance
 - 25 ft Horizontal Clearance



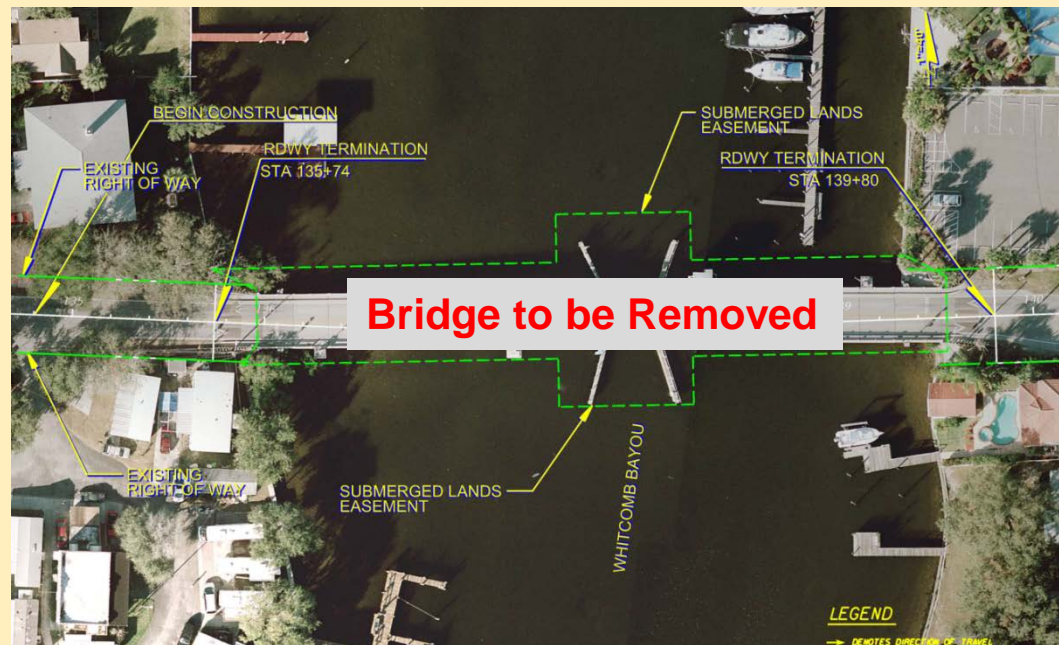
Pinellas County No Build Alternative

- Existing Bridge Remains Until No Longer Serviceable (approximately 10 years)
- Routine Maintenance Only
- No Major Improvements



Pinellas County No Build Alternative – Permanent Removal of Existing Bridge

- Routine Maintenance Only
- Existing Bridge Demolished When No Longer Serviceable
- No Replacement Bridge Constructed



- Extensive Repairs
- Correct Structural Deficiencies
- No Widening
 - No Shoulders
 - Narrow Sidewalks would remain
- No Change in Navigational Clearances
- Extend Service Life 25-30 years



Replacement Alternatives Constraints

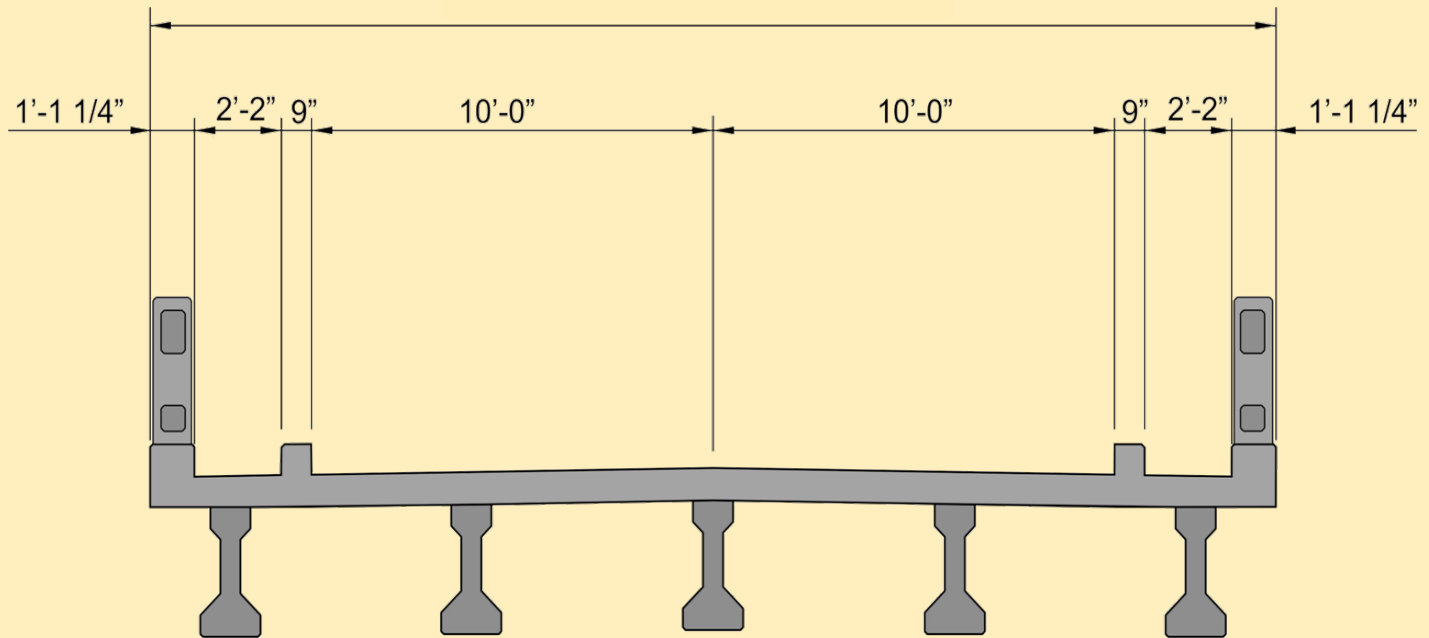
- **Limited Right-of-Way**
 - 50 ft ROW East of Bridge
 - 40 ft ROW West of Bridge



- **Adjacent properties**
- **Driveways**

Existing Bridge Typical Section

28'-0 1/2" Total Width



No Shoulders

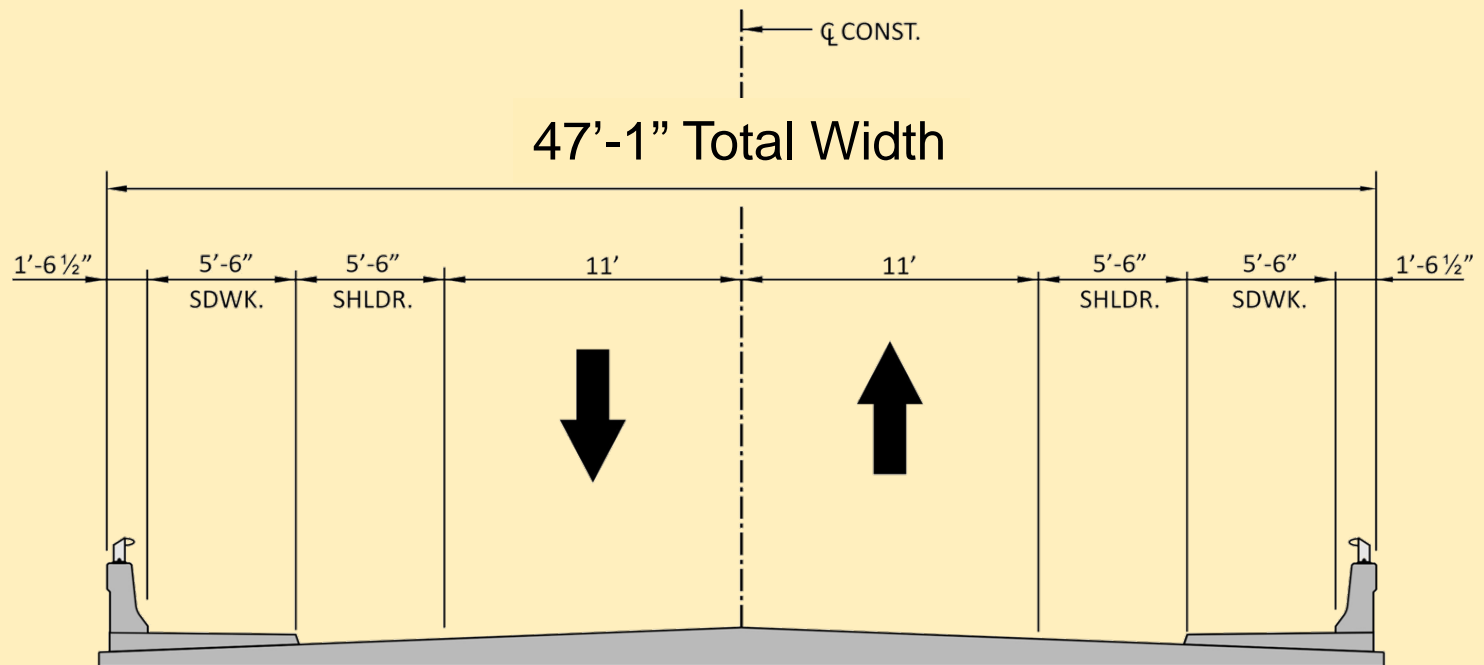
Narrow Sidewalks

Proposed Typical Sections

- **Meet Current Safety Standards**
- **Accommodate Future Trails**
- **Minimize ROW Impacts**
- **Lane Widths**
10 to 11 feet

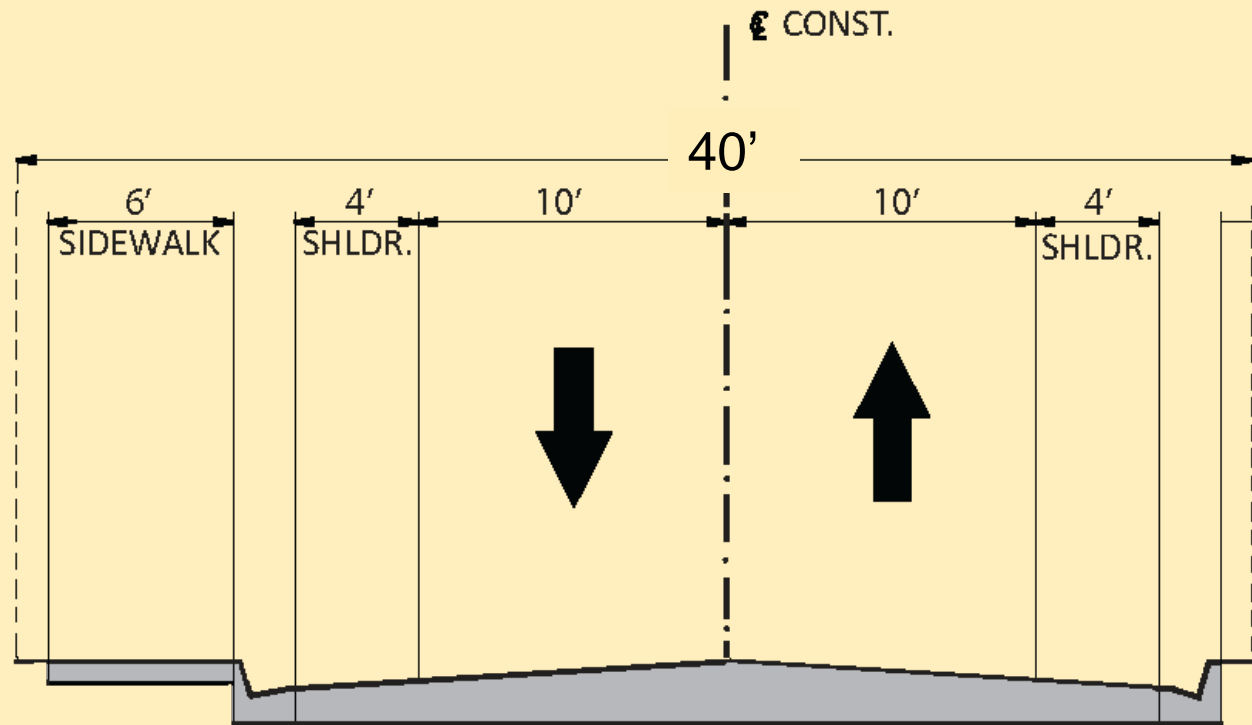


Proposed Bridge Typical Section



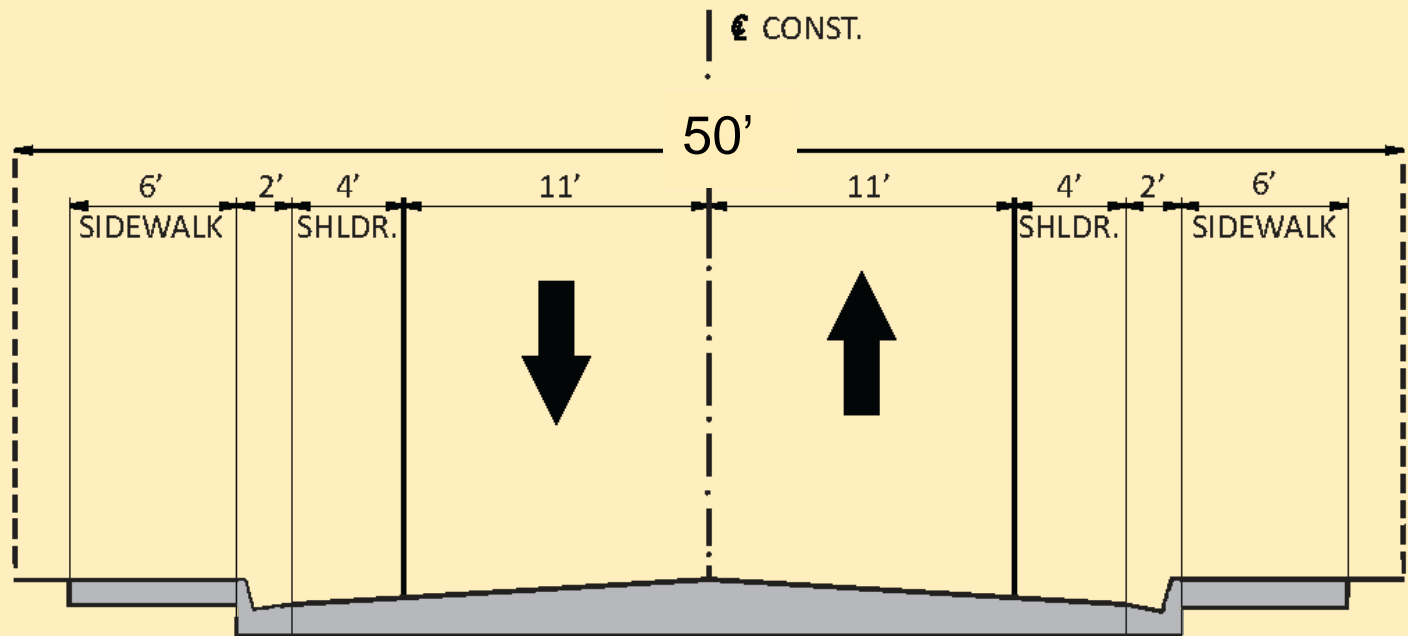
5'6" Sidewalks and Shoulders – Both Sides

Roadway Section – West of Bridge



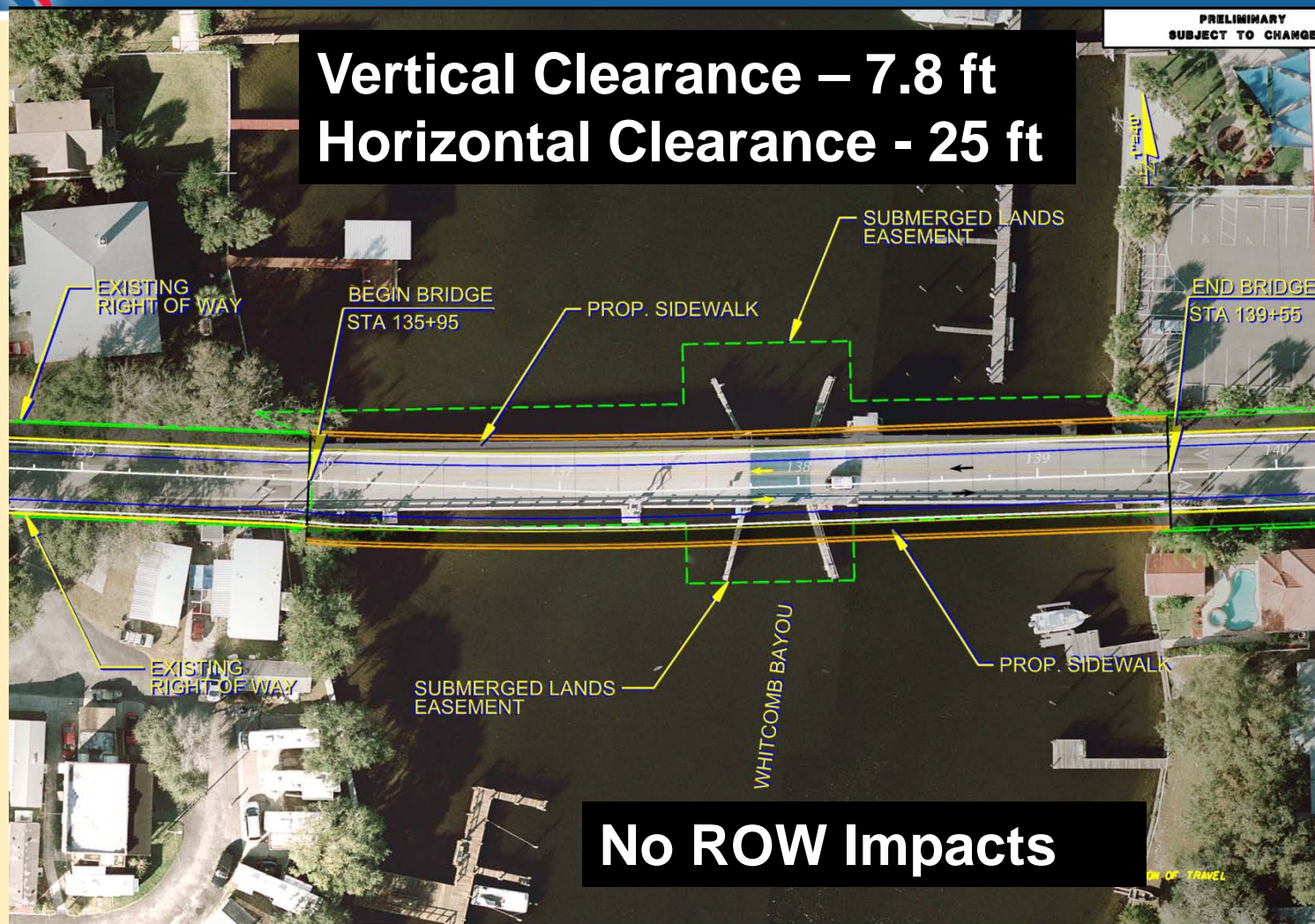
6 ft Sidewalk - North Side Only

Roadway Section – East of Bridge

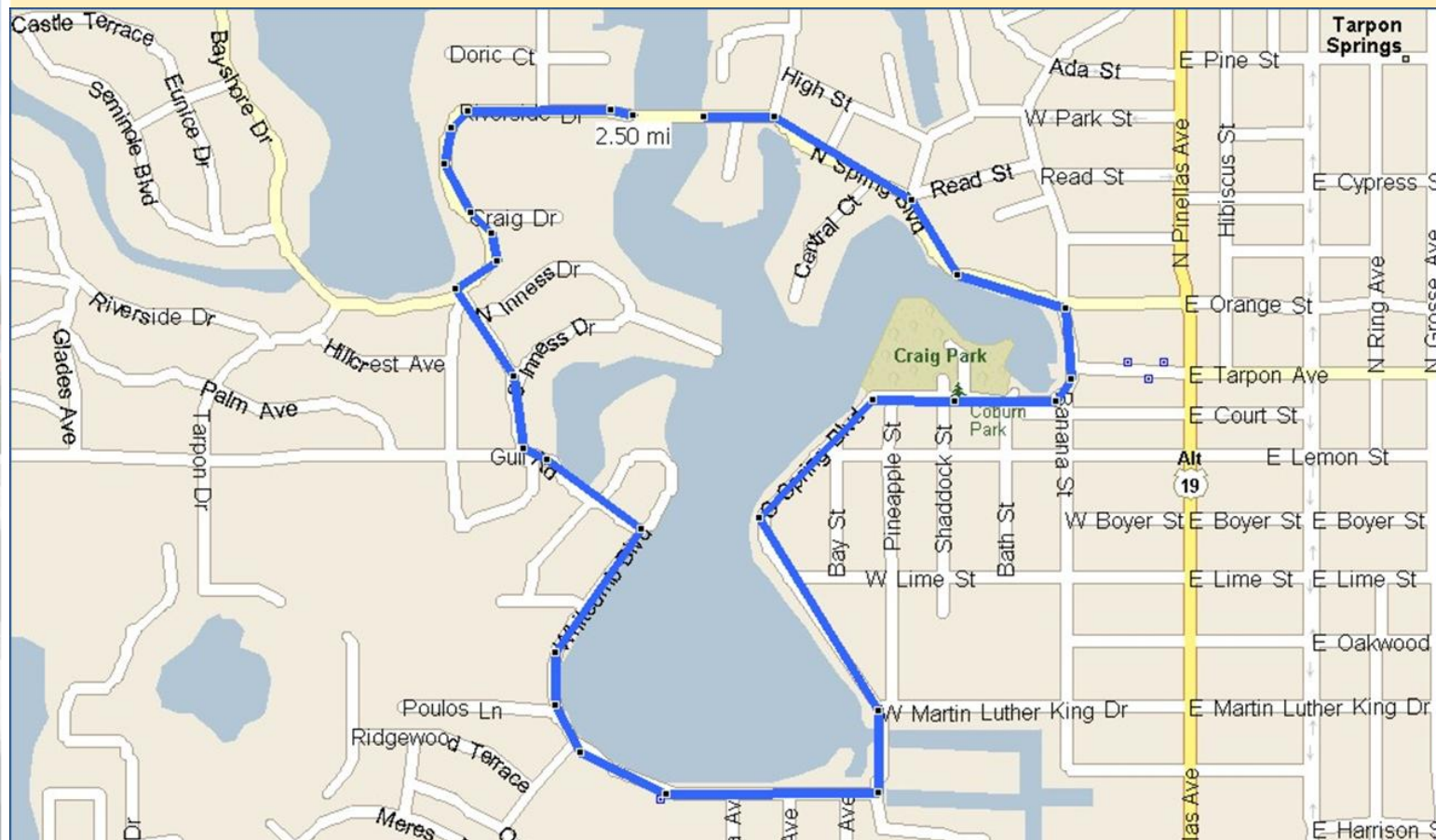


6 ft Sidewalks - Both Sides

Pinellas County Low-Level Movable Bridge



Previous Detour Route



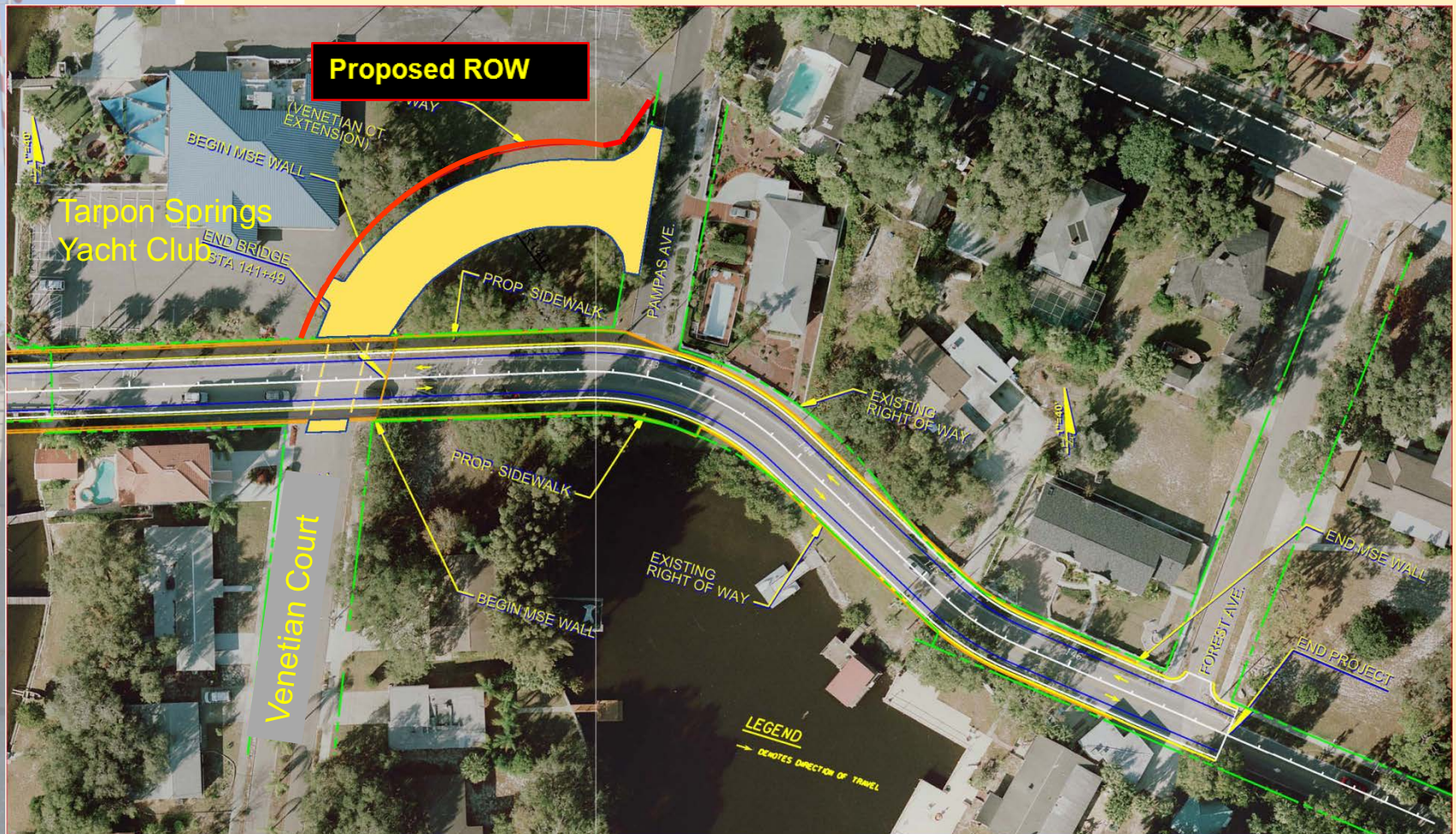
Pinellas County Alternate Detour Routes



- Vertical Clearance – 28 feet
- Horizontal Clearance – 25 feet
- Retaining Wall 1 to 19 feet High
 - Blocks Driveway Access/Visual Impacts
- ROW impacts
 - Single Family Residences North Side, West of Bridge
 - Yacht Club Property

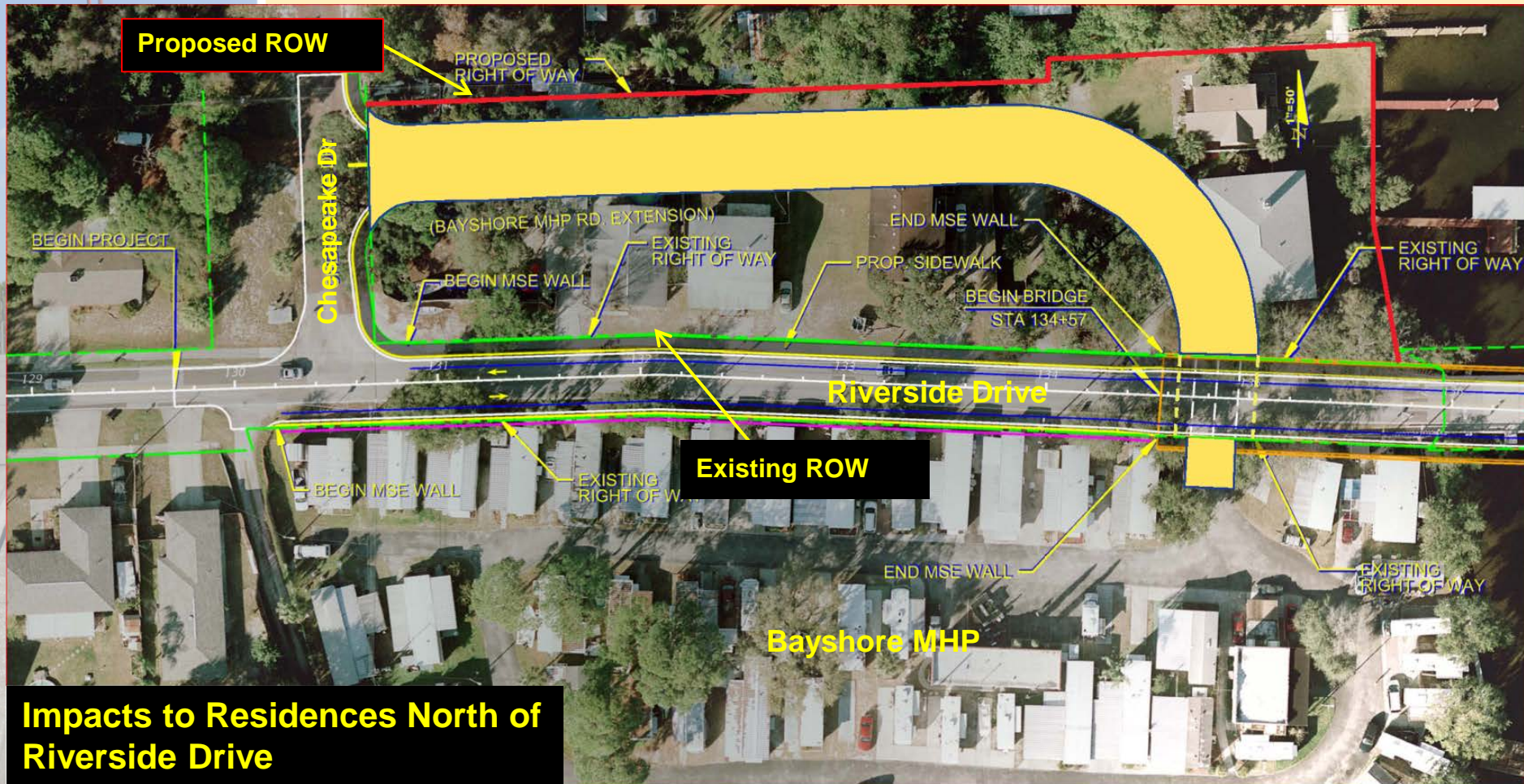
Pinellas County Mid-Level Fixed Bridge – Option A

Venetian Court Extension



Pinellas County Mid-Level Fixed Bridge – Option A

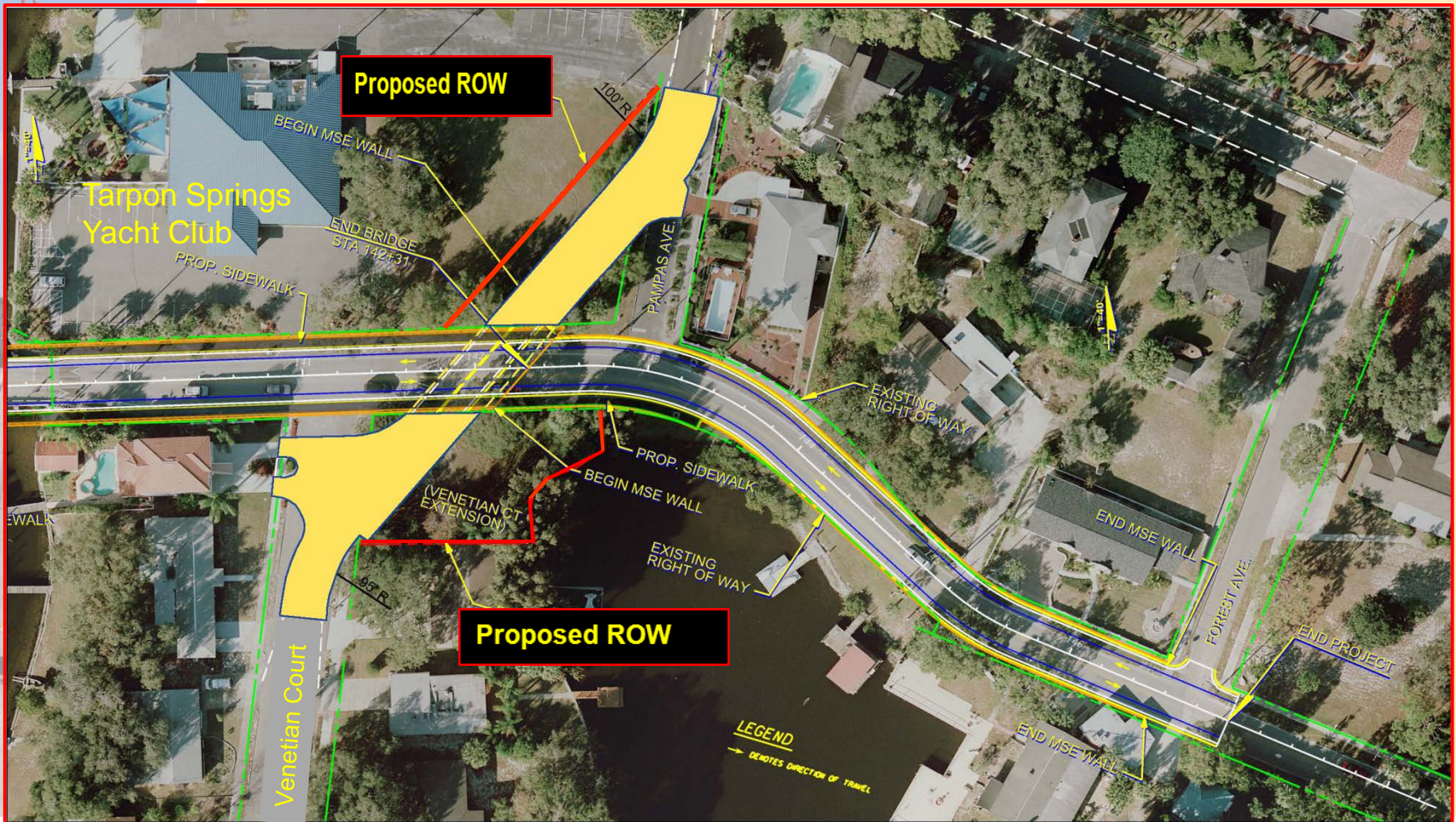
Access Road to Bayshore Mobile Home Park



- Vertical Clearance – 28 feet
- Horizontal Clearance – 25 feet
- Retaining Wall 1 to 16 feet High
 - Blocks Driveway Access/Visual Impacts
- ROW impacts
 - Single Family Residences North Side,
West of Bridge
 - 8 Mobile Homes
 - Yacht Club Property
 - Vacant Lot East of Bridge, South Side of Roadway

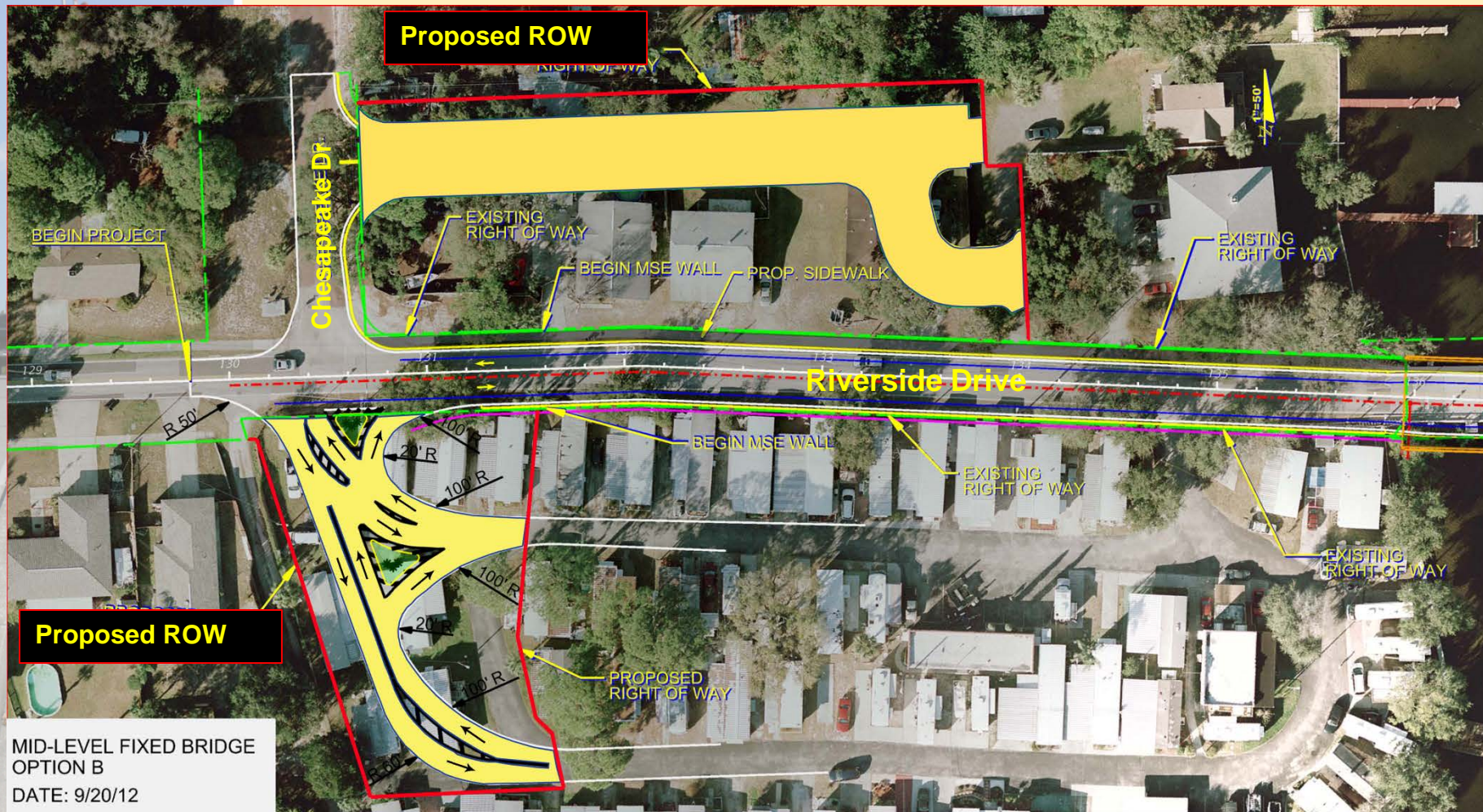
Pinellas County Mid-Level Fixed Bridge – Option B

Venetian Court Extension



Pinellas County Mid-Level Fixed Bridge – Option B

Alternate Access to MHP and Waterfront Properties



Boat Survey – Whitcomb Bayou

Boat Survey of Waterfront Property Owners on Whitcomb Bayou

- **289 Surveyed**
- **99 Responded**



Results

- **Most Boats 22-26 ft Powerboats**
 - No Bridge Opening Required
- **4 Sailboats required ≥ 28 ft of Clearance**
 - Could not Pass Under Mid-Level Option

Similar for All Build Alternatives

- **Wetlands**
 - 0.02 acre – Low-Level
 - 0.03 acre – Mid-Level
 - Wildlife - Minimal
- **Noise - Minimal**
- **Visual – Minimal to High**
- **Historic Structures**
 - Removal of NRHP Eligible Bridge Requires MOA/Mitigation





Upcoming Community Involvement Activities

- **Local Government Presentations**
 - City of Tarpon Springs Commission (Nov 20)
 - Pinellas MPO TCC and CAC (Oct 24, 25)
 - Pinellas MPO (Nov 14)
- **Stakeholder Meetings***
 - Tarpon Springs Yacht Club
 - Rotary Club
 - Chamber of Commerce
 - Bayshore Mobile Home Park

*No Date Scheduled
- **Cultural Resource Committee Meeting** (Oct 29)

PD&E Schedule

Activity	2012				2013				
	Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Jan - Mar	Apr - Jun	Jul - Aug	Sep - Oct	Nov - Dec
Study Begins	★								
Data Collection									
Develop/Evaluate Alternatives									
Local Government Coordination									
Alternatives Workshop					★				
Select Preferred Alternative									
Public Hearing							★		
Final Reports/Agency Coordination									
Approval by the Federal Highway Administration									★

Questions?