

# Lee County

## Estero Boulevard Improvements

### Segment 2

#### Lovers Lane to Strandview Avenue/Publix

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# Town of Fort Myers Beach Waterlines

## 8 Joint Outfall Side Streets

Preconstruction Public Meeting – April 10, 2017

# Meet the Estero Boulevard Team

- **Lee County**
  - Randy Cerchie – Department of Transportation Director
  - Rob Phelan, P.E. – LC DOT Project Manager
  - Luis Molina, P.E. – LC Utilities Project Manager
- **David Douglas Associates, Inc.**
  - Dan Craig, P.E. – Design Project Manager
  - George Brinson, P.E. – Design Engineer
- **TY Lin International**
  - Jim Molnar, P.E. – Design Engineer
  - Richie White, P.E. – Storm Drainage Engineer
- **Chris-Tel Construction**
  - Howard Wheeler - Owner
  - Bob Koenig – Project Executive
  - Darin Brown – Construction Project Manager/Superintendent
- **Cella Molnar & Associates, Inc.**
  - Kaye Molnar – Public Information Officer
- **Lee Tran Representatives**

# Meet the Waterlines Team

- **Town of Fort Myers Beach**
  - Jim Steele - Town Manager
  - Scott Baker – Public Works Director
  - Christy Cory – Utility Manager
  - Chelsea O’Riley – Administrative Specialist
  - Warren Rood – Water Technician
- **Tetra Tech**
  - Danny Nelson, P.E. – Vice President
  - Brett Messner, P.E. – Engineer of Record
  - Tyler Wainright, P.E. – Field Engineer
  - Paresh Patel – Senior Inspector
- **Mitchell & Stark Construction Co., Inc.**
  - Brian Penner – CEO
  - David Scafidi – Vice President, PM
  - Bob Hoadley – Project Superintendent
- **Cella Molnar & Associates, Inc.**
  - Kaye Molnar – Public Information Officer

# About the Beach Projects

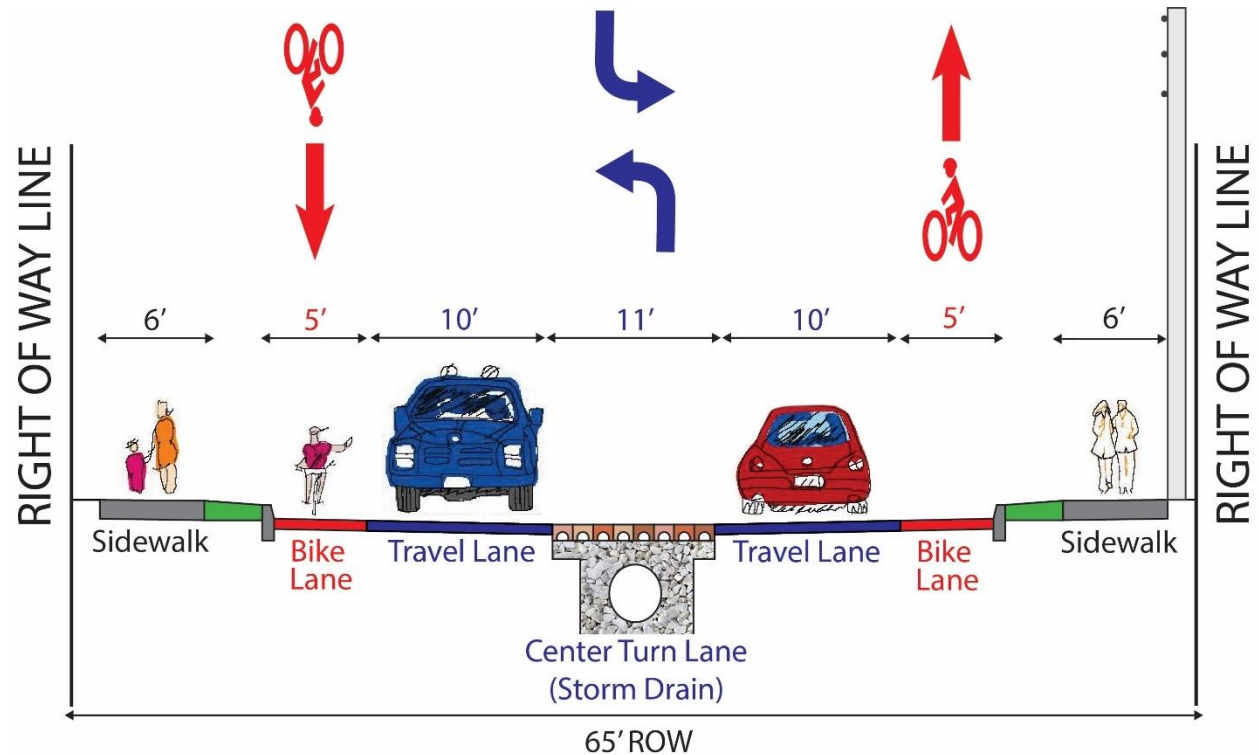
- **Lee County Estero Boulevard Improvements Project**
  - Improves safety for all users (complete streets)
  - Improves storm drainage
    - Innovative center lane drainage system – reduces utility conflicts
    - Water quality improvements
  - Replaces aging sanitary sewer force main - **underway**
- **Town of FMB Waterline Replacement Project** - replaces existing water main –**underway**
  - More reliable system
  - Will handle existing & increasing demand
  - Provides pipe sizing for adequate fire flows
- **FPL Strengthening Project** - Improves service reliability – relocates poles to edge of ROW – **nearly complete**



# Estero Boulevard Roadway Features

## Segment 2 - Lovers Lane to Strandview Ave/Publix

- 10-foot wide travel lanes in each direction
- 11-foot wide center turn lane
- 5-foot wide designated bicycle lanes
- 6-foot wide sidewalks on both sides
- Green space separates roadway from sidewalk



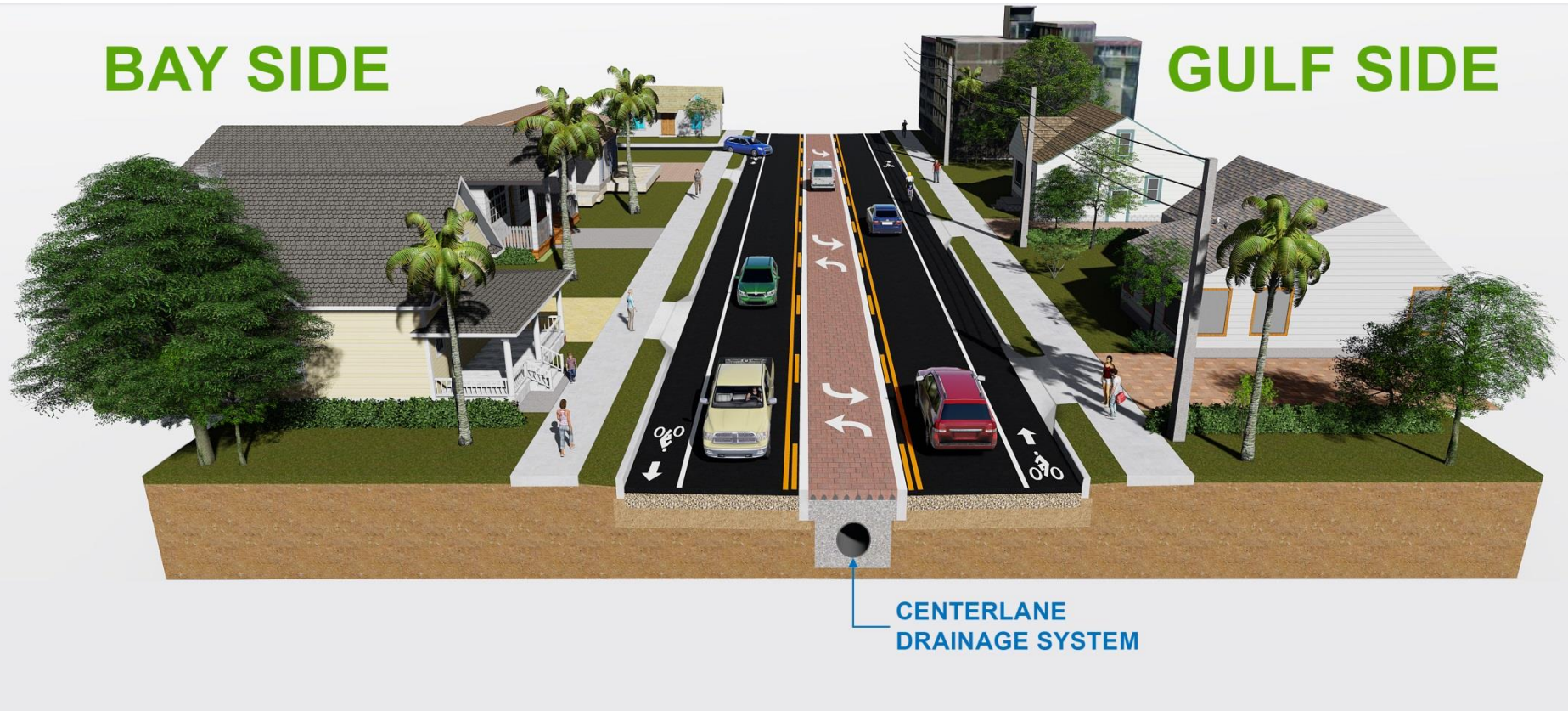


# Estero Boulevard Rendering

Segment 2 - Lovers Lane to Strandview Ave/Publix

**BAY SIDE**

**GULF SIDE**



# Estero Boulevard – Where are we now?

- **May 2017** – Contract for Segment 2 construction to be submitted to BoCC for approval
- **Summer 2017** – County expected to start construction of Segment 2 –
  - Includes:
    - Roadway
    - Center lane storm drain system
    - Streetscape improvements

# Estero Blvd - What to Expect During Construction

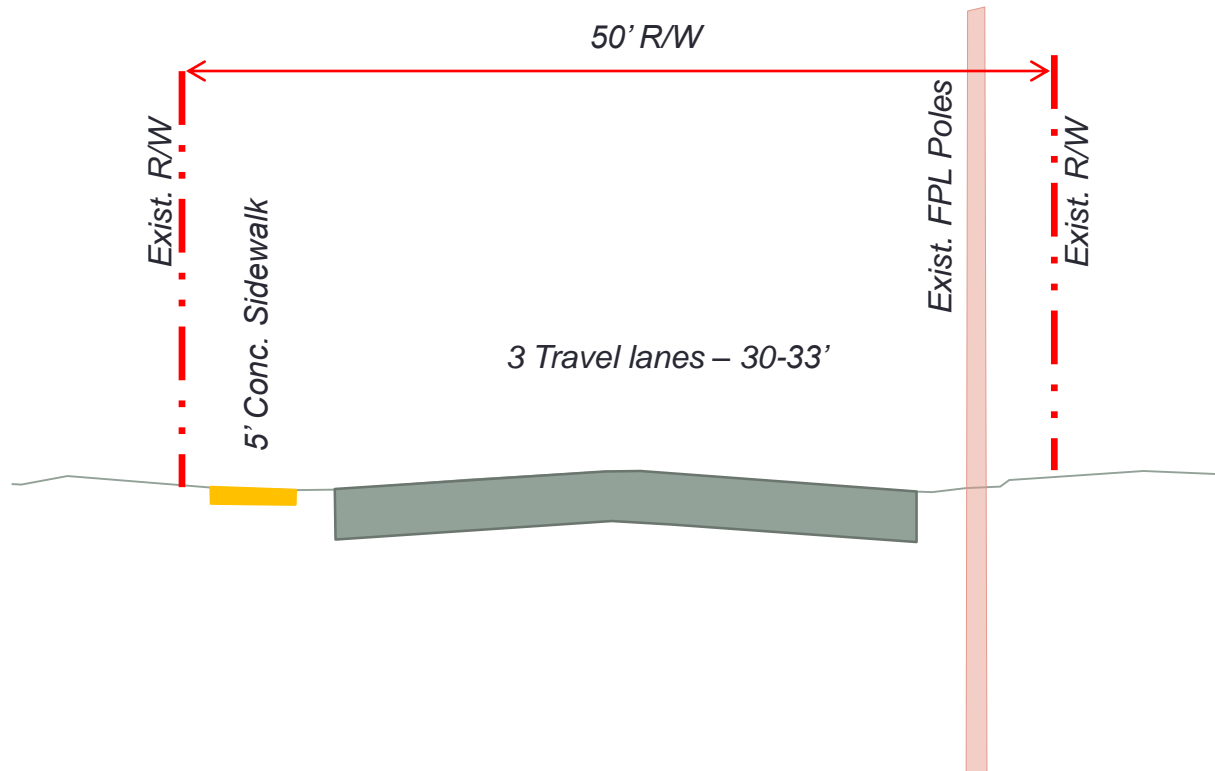
- Maintain two-way vehicular traffic during construction
- Construction will pass by multiple times while crews build each improvement
- Barrier wall is necessary for safety during center storm drain installation due to the 1 to 1-1/2' elevation change
  - Flaggers will assist in active construction areas
  - Limited to no ability to back in due to barrier walls
  - Smaller delivery vehicles may be required during this phase
- Construction Activities
  - Excavation to change roadway grades
  - Storm drainage improvements
  - New sidewalks and asphalt roadway
- Driveway may not always be accessible



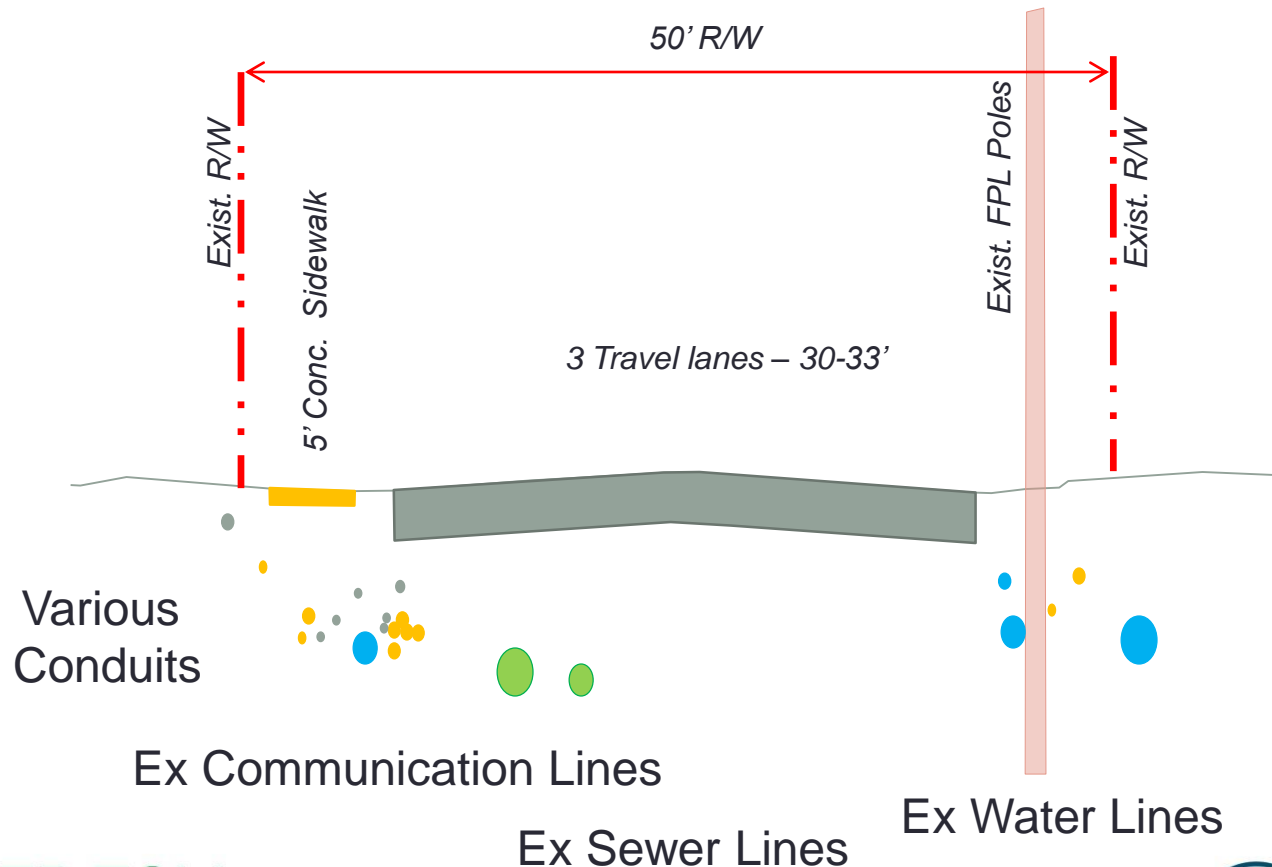
# Center Lane Drainage System

- Why choose the center lane drainage system design?
- How does the center lane drainage system work?

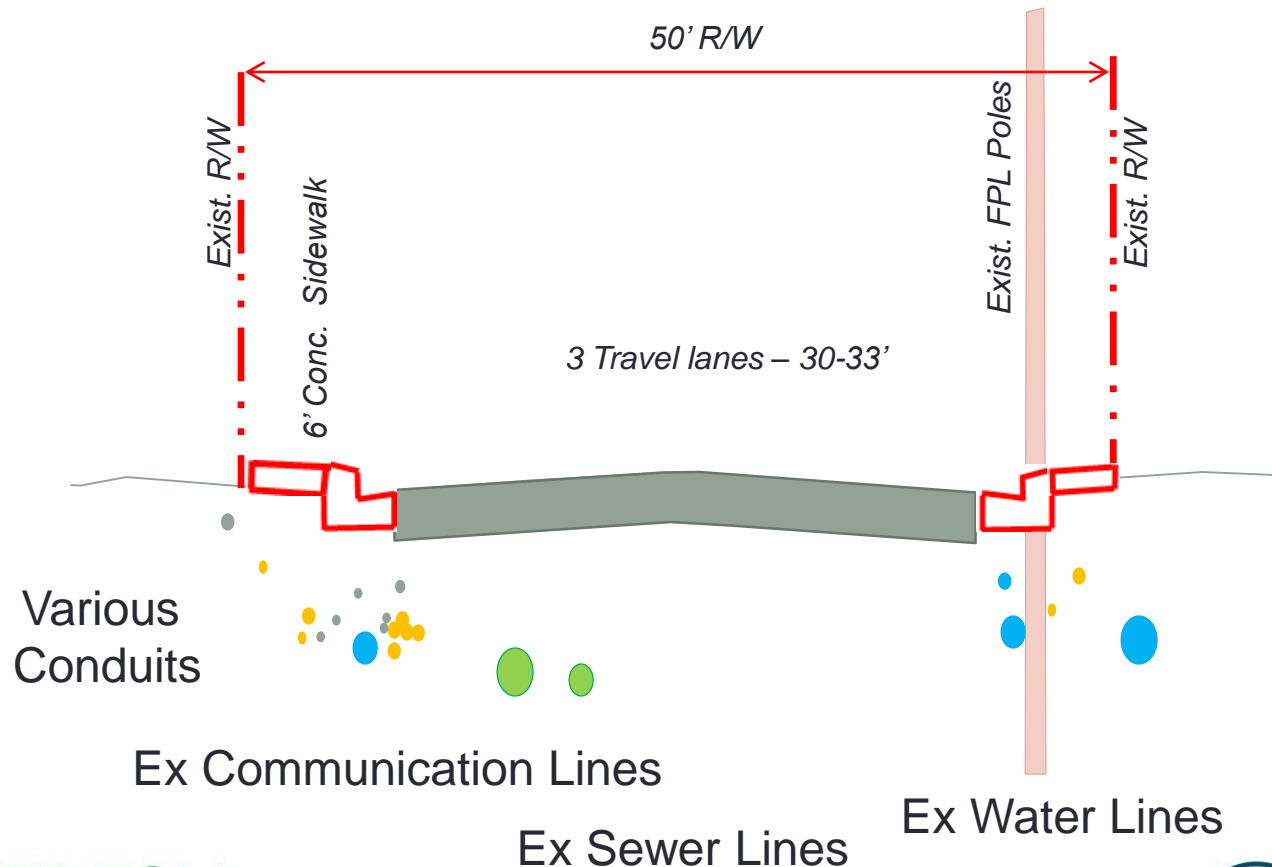
# Estero Boulevard Pre-construction Roadway



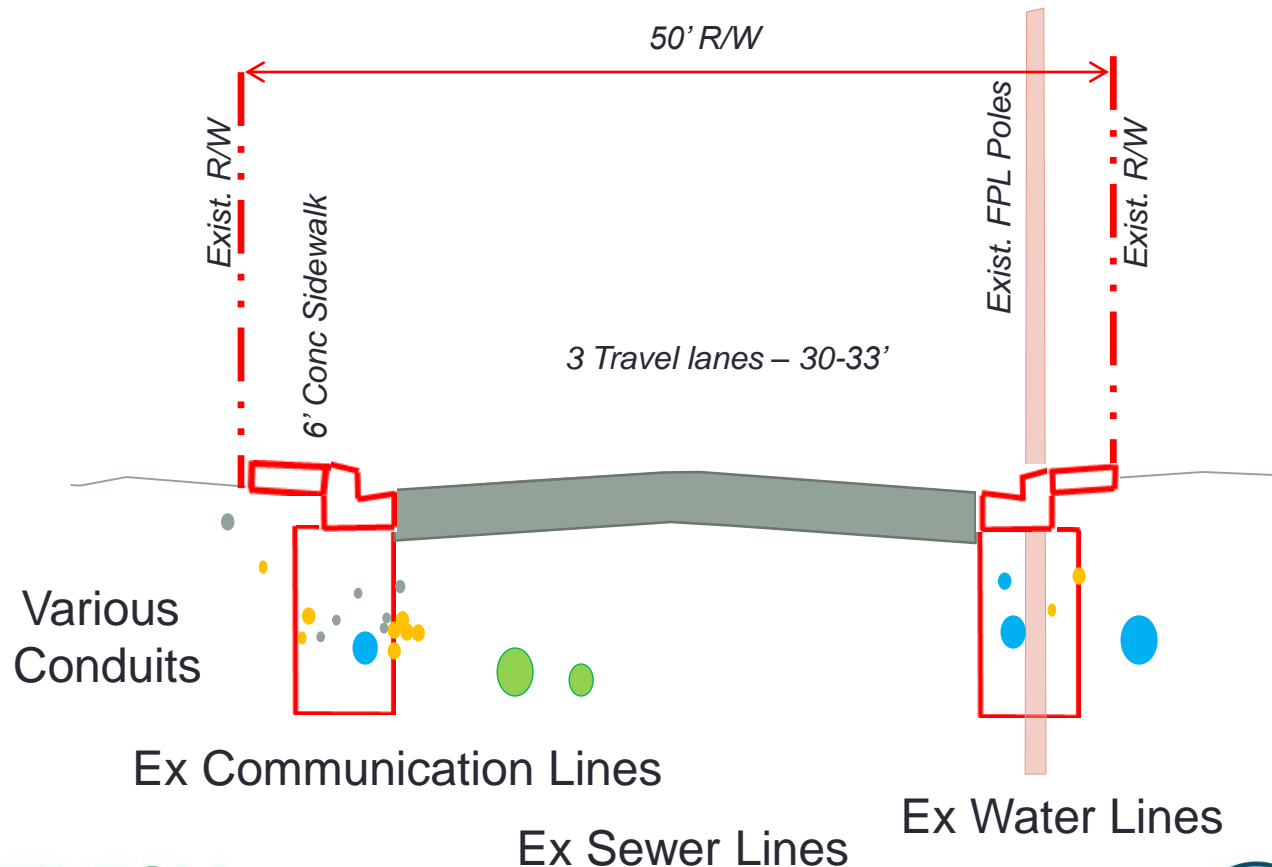
# Estero Boulevard Pre-construction Utilities



# Conventional Cross-section Curb & Gutter

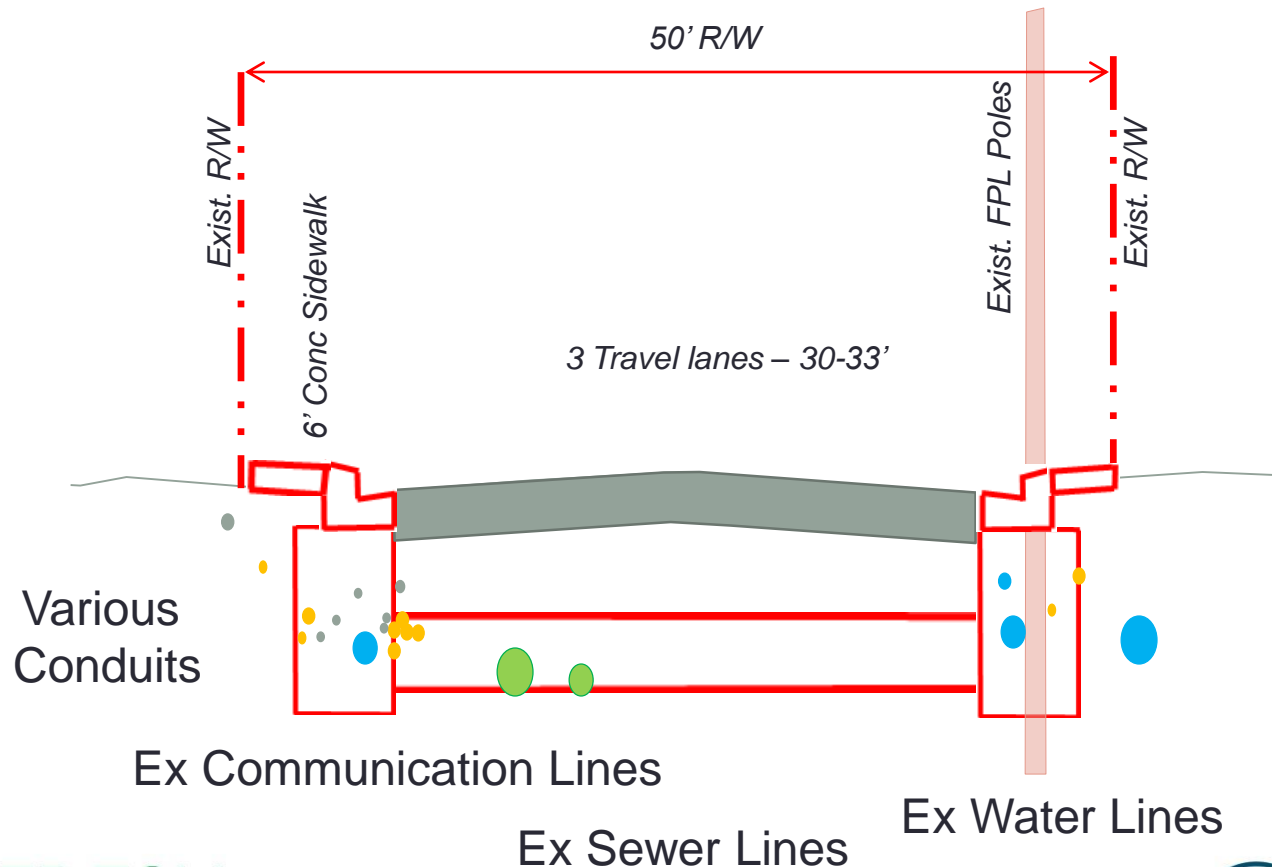


# Conventional Cross-section Curb & Gutter

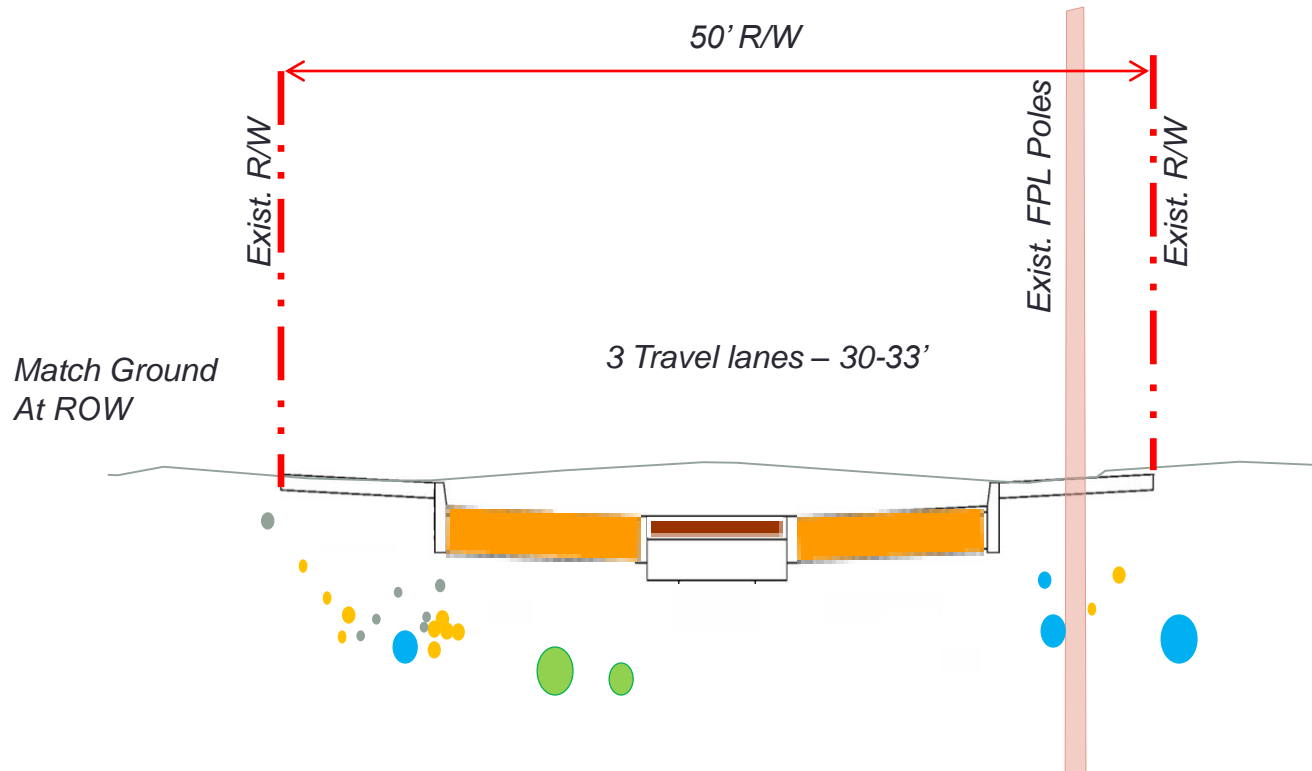




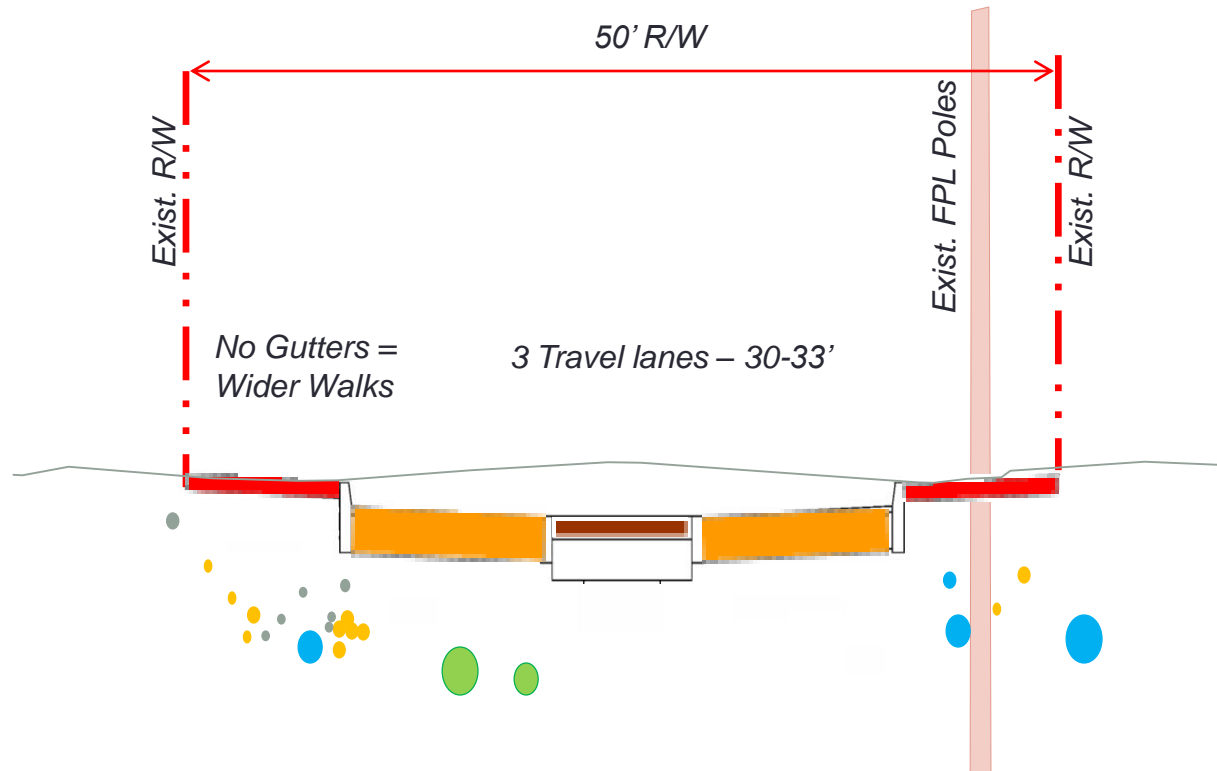
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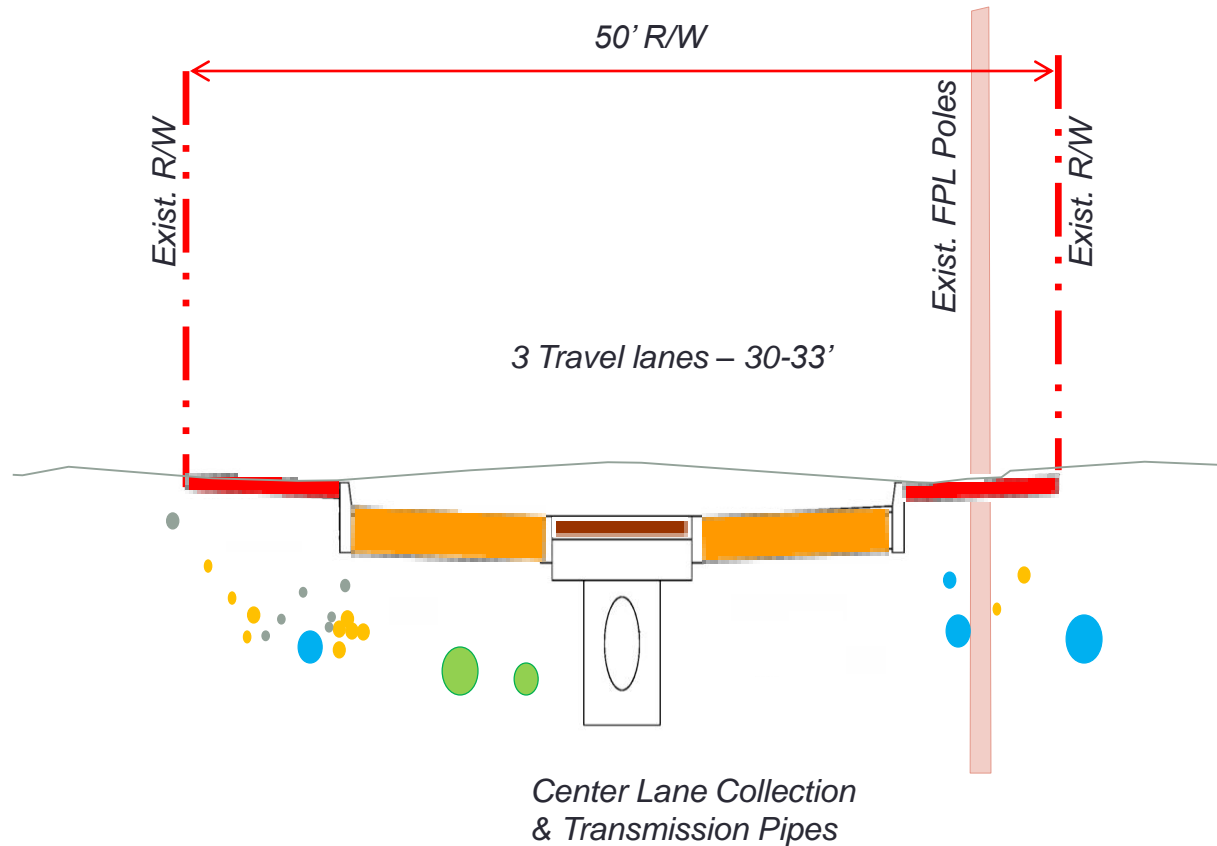
# Inverted Cross-section



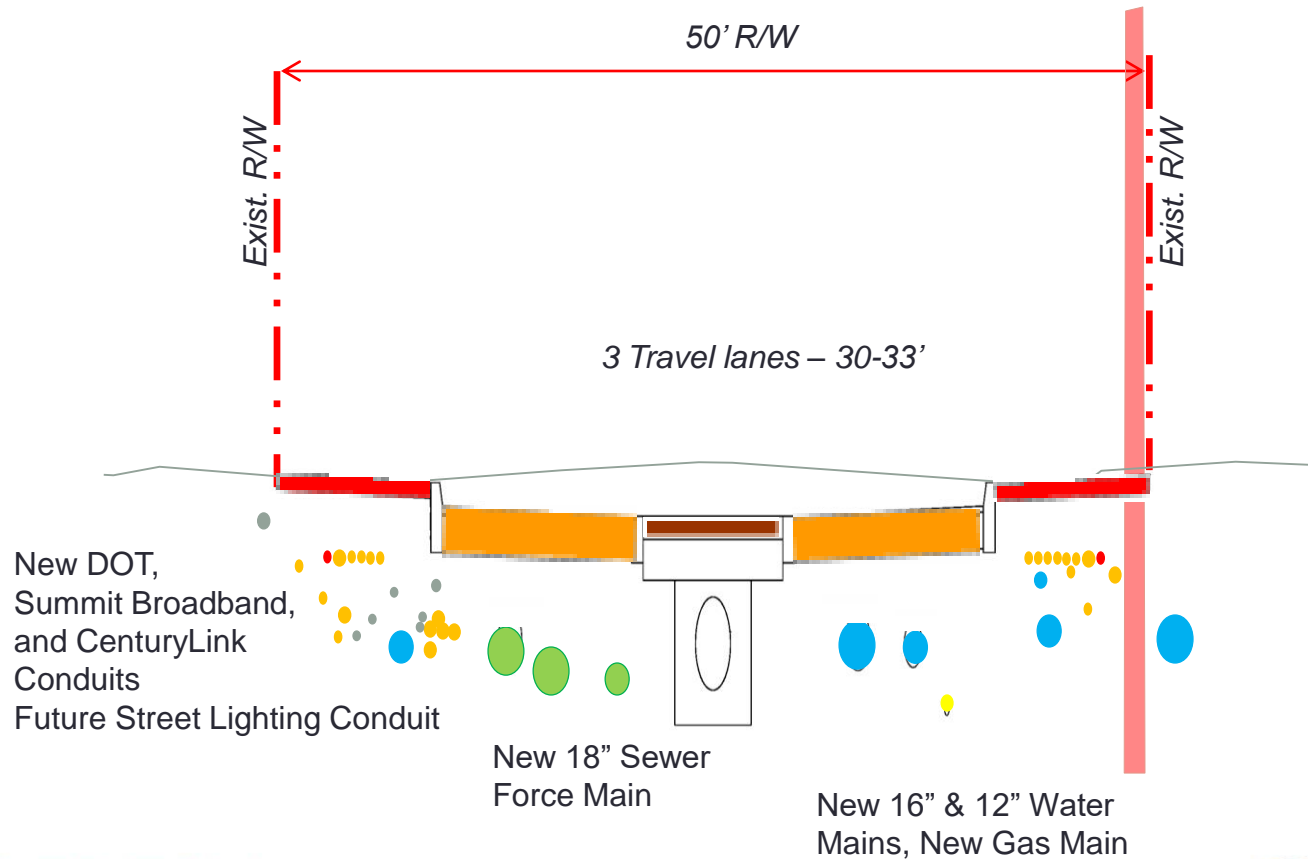
# Inverted Cross-section



# Inverted Cross-section



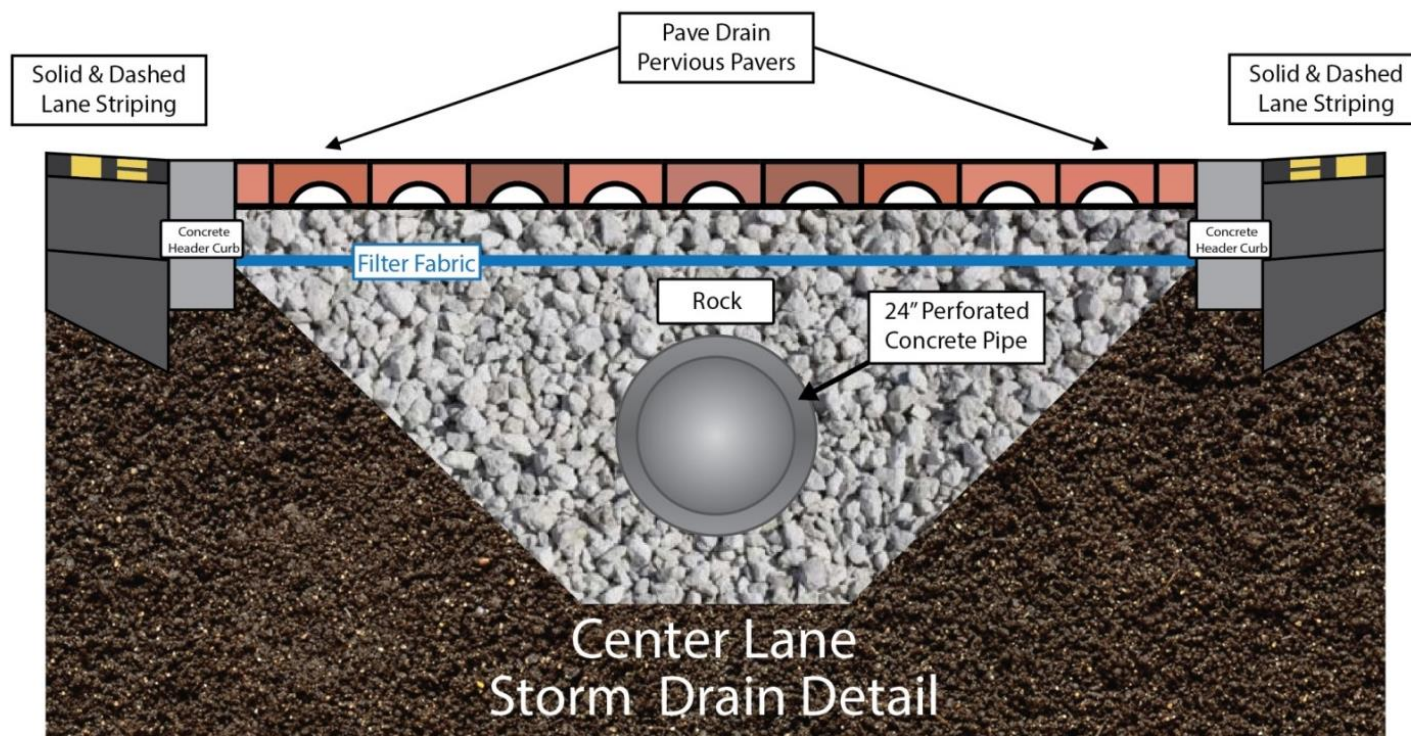
# Inverted Cross-section





# Estero Boulevard – Inverted Cross-section

## Center Lane Storm Drain Detail



# Shared Outfall Selection Process

- How were outfall streets determined?
- Which side streets will receive improvements?
- Does having an outfall on my street change the drainage on my street?

# Shared Outfall Selection Process

- Estero Island Basins
  - Independent basin delineation by Town and County engineers
  - Joint meetings to determine consensus



# How did we chose shared outfall streets?

- Town & County Input
  - Walk-throughs and input from Town staff, Engineers and County staff
  - Water main issues as reported by Town
- Stormwater Modeling
  - County performed modeling to determine number and spacing of outfalls
  - Town modeled basins and conveyance to determine pipe sizing
- Location Selection
  - Modeling results
  - Input from Town staff
  - Constructability of joint system (ROW limitations)
- Other Factors
  - 30" pipe limitation due to constructability and reporting (NPDES)
  - Large basins excluded due to high cumulative flow
- 8 mutually-agreed shared outfalls
  - Bay, Donora, Eucalyptus, Jefferson, Connecticut, Bay Mar, Hercules, Bayview
  - Town staff reviewed and council approved



# Outfall Selection Considerations

## Mid-Island Neighborhoods Segment 2

Side Street	Opportunities	Constraints
<b>Donora</b>	Existing outfall, Close proximity to receiving waters for additional outfall, identified as problem area	Large basin area, outfall in private easements, high Town flows
Voorhis		
<b>Eucalyptus</b>	Existing outfall, identified as problem area	No existing infrastructure
Madison	Existing outfall, identified as problem area	Too much flow to accommodate Estero flows
Washington		
<b>Jefferson</b>	Identified as problem area, existing infrastructure	Another outfall in vicinity
Mid Island	Existing infrastructure	Another outfall in vicinity
<b>Connecticut</b>	Sidewalk necessitates closed system, stormwater needs, existing outfall, identified as problem area	High Town flows
Andre Mar	Identified as problem area	High Town flows
Anchorage	Open right-of-way with minimal driveways	Outfall through back of lots, high Town flows
St Peters		

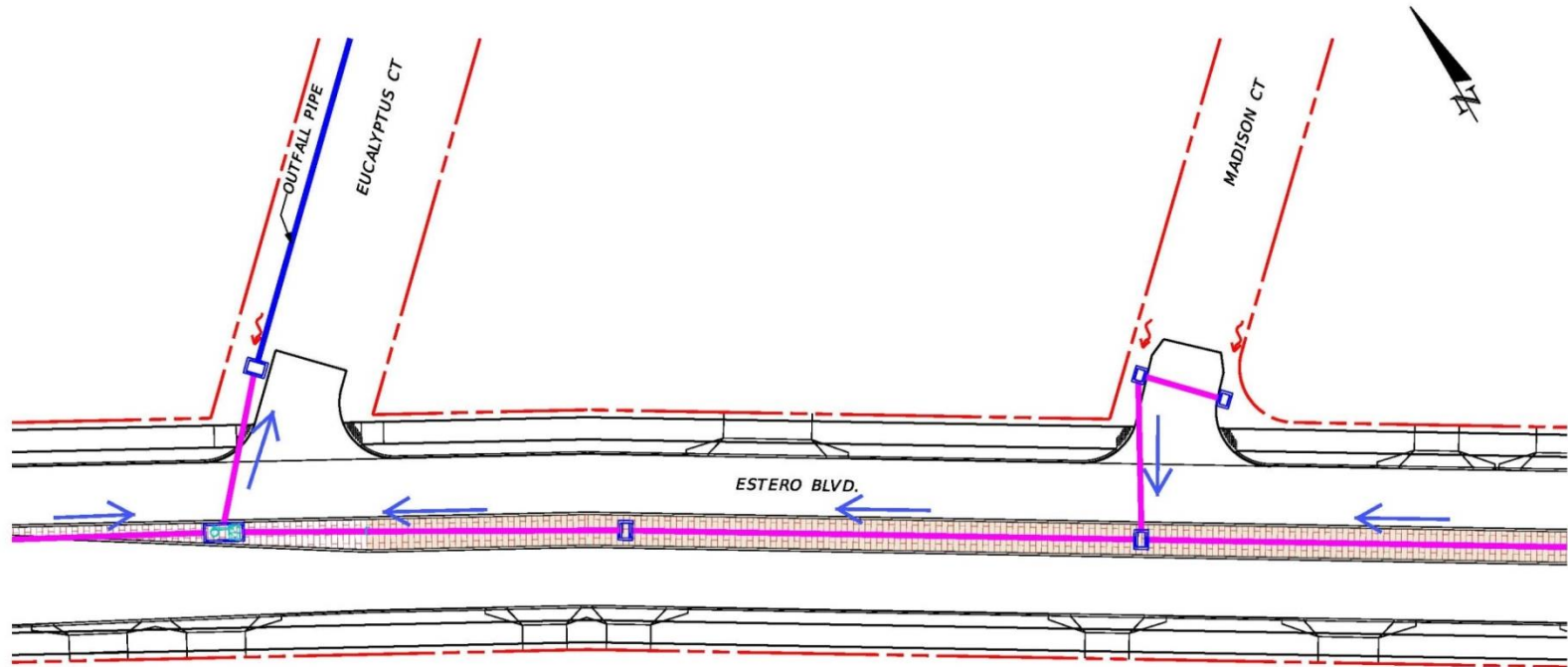


# Outfall Selection Considerations

## Mid-Island Neighborhoods Segment 2

Side Street	Opportunities	Constraints
<b>Bay Mar</b>	Identified as problem area	High flows, outfall through private easement
Hibiscus	Existing infrastructure, low Town flows	Outfall near residence
Mandalay	Existing outfall	Outfall in private easements
Gulf Island	Identified as problem area	Potential outfall through unimproved right-of-way
<b>Hercules</b>	Existing infrastructure, low Town flows	No existing bulkhead, outfall within right-of-way
Coconut	Existing infrastructure	No existing bulkhead
Sabal	Low Town flows	Outfall through private easements
<b>Bayview</b>	Existing infrastructure, low Town flows	No existing bulkhead
Gulfview	Existing infrastructure	No direct connection to Bay, system through private easements
Strandview		

# Shared Outfall Selection



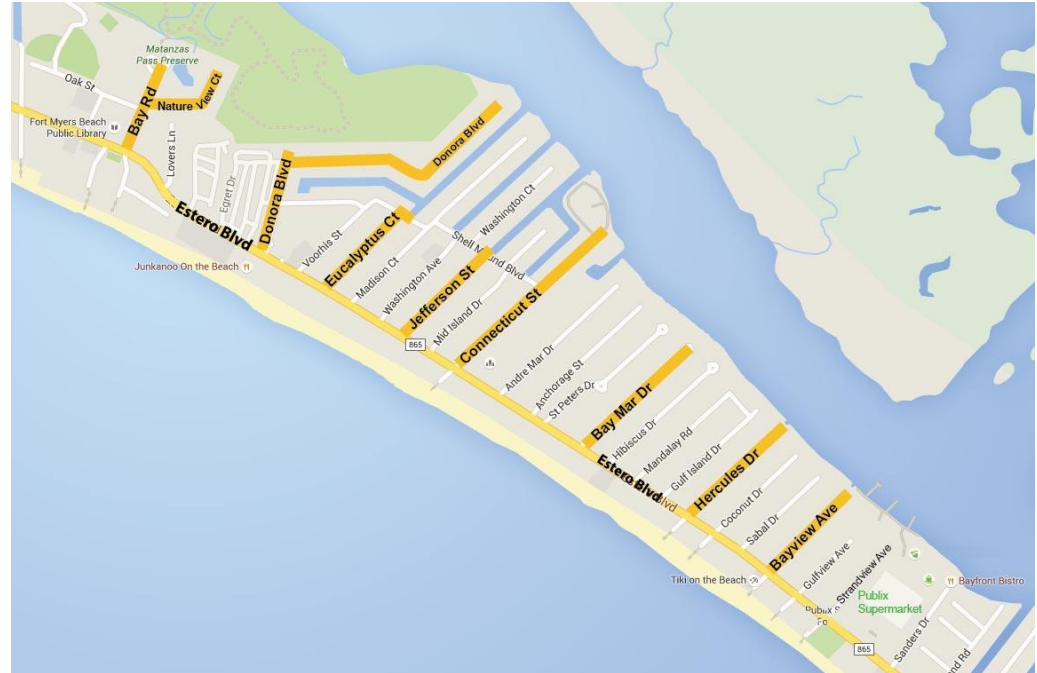
# Waterlines – Where are we now?

- **March 6, 2017** – Town Council approved:
  - Tetra Tech's scope & contract for 30% design of stormwater for remainder of island (to run concurrent with water design – allows savings of \$120,000)
  - Mitchell & Stark bid to install new waterlines and construct first (4) joint outfalls in Segment 2
    - Eucalyptus, Jefferson, Hercules, Bayview
- **April/May 2017** – Town to submit to Council
  - Mitchell & Stark bid to install new waterlines and construct additional (4) joint outfalls in Segment 2
    - Bay, Donora Connecticut, Bay Mar
- **Summer 2017** – Town expected to start construction of 8 side streets. Improvements include:
  - Waterlines replacement
  - Storm drain installation
  - Rebuild & repave roadway

# Waterlines Improvements on Side Streets

## Streets include:

- Eucalyptus Court
- Jefferson Street
- Hercules Drive
- Bayview Avenue
- Bay Road (including Nature View Court)
- Donora Boulevard
- Connecticut Street
- Bay Mar Drive



## Improvements include:

- Water main replacement
- Storm drainage improvements
- Roadway improvements
- Sanitary sewer adjustments (conflict areas)

# Personal Items in the Right-of-Way

- Notifications of items in construction path needing relocation or removal
  - Irrigation & Lighting
    - should be capped at the ROW
  - Decorative mailboxes
  - Fencing
  - Yard art
  - Landscaping





# Side Streets - What to Expect During Construction

- Construction will be concurrent on multiple streets and will move depending upon “shovel-ready” areas
- Minimize inconveniences
- Brief waits or flagging during some construction activities
- Driveway may not always be accessible
- Construction activities
  - Demolition
  - Install new water main and meters
  - Test and activate new water mains
  - Install drainage pipes and inlets
  - Restoration



# Public Outreach

- One point of contact through Public Information Office
  - 24-hour hotline
- Project website – [www.reFRESHFMBeach.com](http://www.reFRESHFMBeach.com)
- Email notifications
- Notifications via flyers & door hangers
  - Driveway access and temporary road closures
- Meetings
  - Small “block” meetings
  - One-on-one meetings
- Coordination with special events
- Updates/presentations to local community and civic groups, professional organizations
- Media outreach

# Water Shutoff/Boil Water Notices

- Notifications of water shut-off/boil water
- Emergency water line breaks
  - Check website for available information
  - Notices will be distributed ASAP
- Boil/use bottled water until rescission notice
  - Typically last approx. 72 hours (can be longer)



# Emergency and Public Services

- EMS, LCSO and Beach Fire notified of construction and changes to traffic plan during construction
- Continuing services
  - Business deliveries
  - USPS mail delivery
  - Garbage/recycle pick-up
  - Lawn and household services
  - Bus and paratransit services



# PIO Contact Information

Kaye Molnar, Public Information Officer  
Cella Molnar & Associates, Inc.

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Phone: 239-337-1071

Toll-Free: 877-496-1076



Visit the project website at

# [www.reFRESHFMBeach.com](http://www.reFRESHFMBeach.com)

