



ATKINS

SANDY LANE

BICYCLE AND PEDESTRIAN IMPROVEMENTS PROJECT

SEPTEMBER 8, 2022

Project Overview

¾ Mile North – South two-lane undivided road

60-foot-wide right of way south of Estero River; 80-foot-wide north of the river

Narrow Estero River bridge

East side of road
Colonnade, Estates at Estero, Groves

West side of road
Single family residential parcels along

Overhead utilities along the east side of road

No bike or pedestrian features



Alignment Options

West side of Sandy Lane

- Less right of way width
- More parcels impacted
- Numerous driveways

On Road Bike Lanes

- Existing bridge too narrow for bike lanes

East side of Sandy Lane

- Colonnade to build path
- Narrow right of way adjacent to Estates at Estero
- Right of way expands 20 foot along the east side adjacent to The Groves



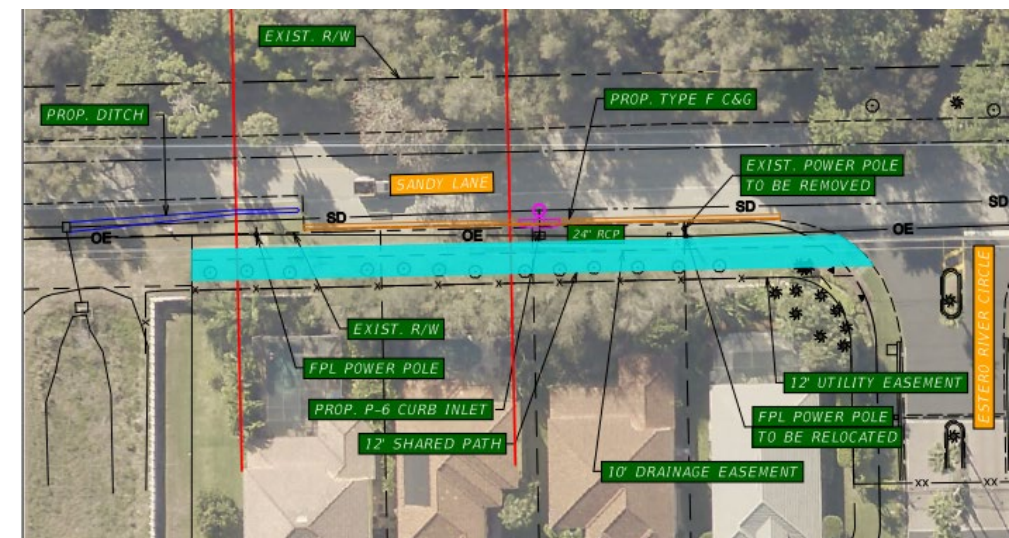
Options South of Estero River Circle

Option 1S (south):

- 12-foot-wide path adjacent to existing right turn lane
 - Pros; turn lane remains
 - Cons; impacts all of the existing oak trees, existing swale replaced with closed drainage, relocate one overhead utility poles same side of road.

Option 2S:

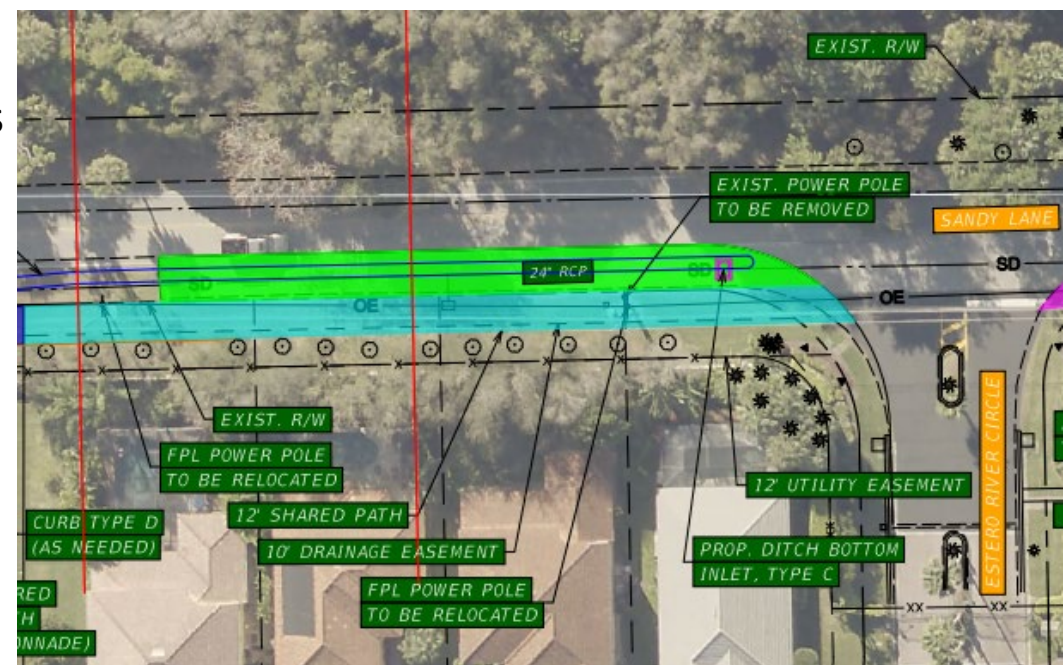
- 12-foot-wide path adjacent to existing right turn lane
 - Pros; turn lane remains, relocate all of the overhead utility poles – buried or to the other side of the road.
 - Cons; impacts all of the existing oak trees, existing swale replaced with closed drainage



Options South of Estero River Circle

Option 3S

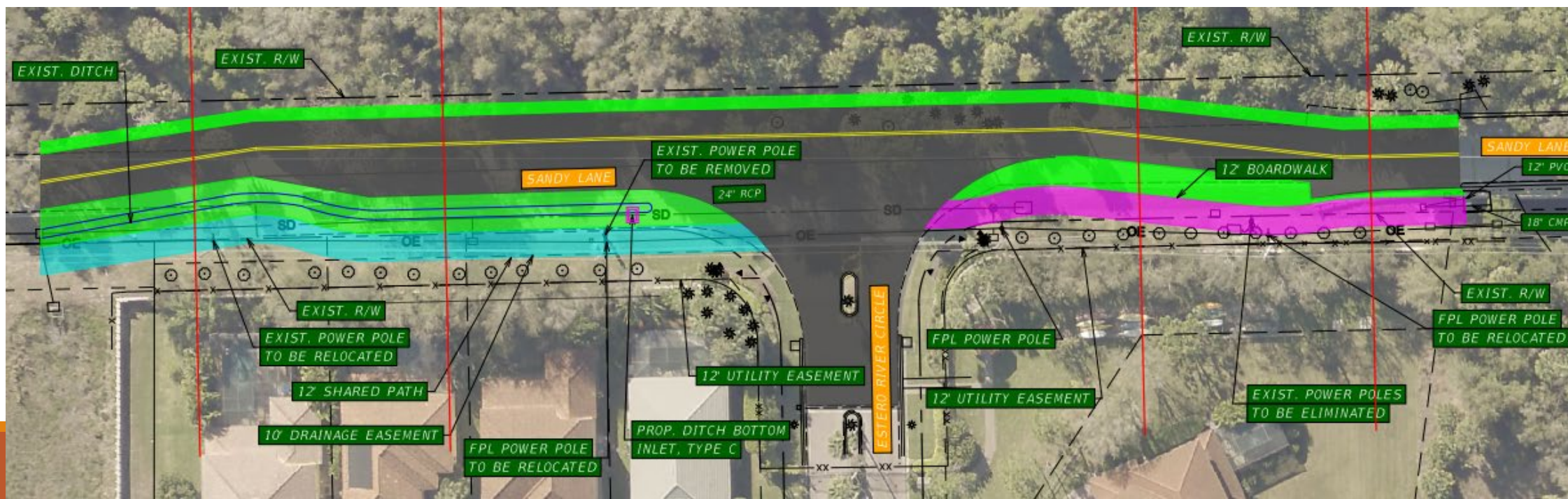
- Eliminate existing right turn lane to construct 12-foot-wide path
 - Cons; turn lane is removed, relocate 2 overhead utility poles same side of road
 - Pros; less impacts to existing oak trees, existing swale remains



Options South of Estero River Circle

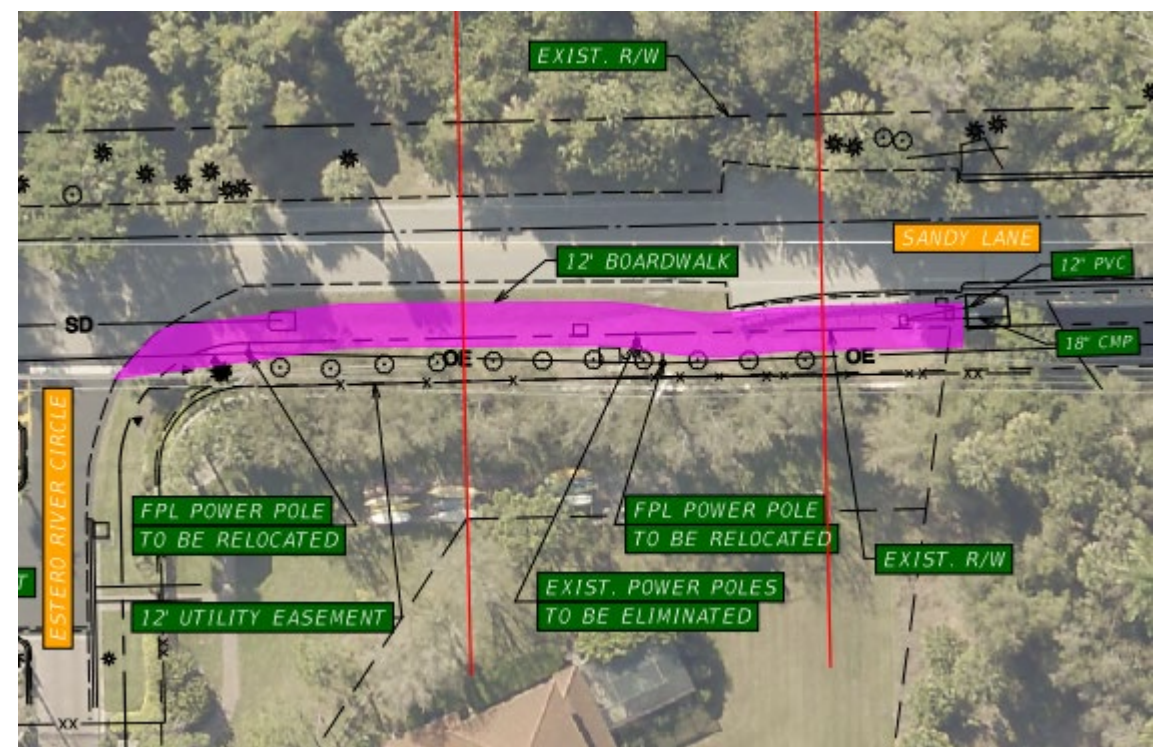
Option 4S

- Shift Sandy Lane roadway alignment
 - Cons; added roadway costs, relocate 2 overhead utility poles on same side of road, safety concerns with road shift before bridge
 - Pros; less impacts to existing oak trees, existing swale remains, right turn lane remains



Estero River Circle to Estero River

- 12-foot-wide boardwalk results in constrained access.
(Detail engineering to determine starting point of boardwalk)
- less impacts to existing oak trees
- existing swale remains
- relocate 1 overhead utility poles on same side of road.

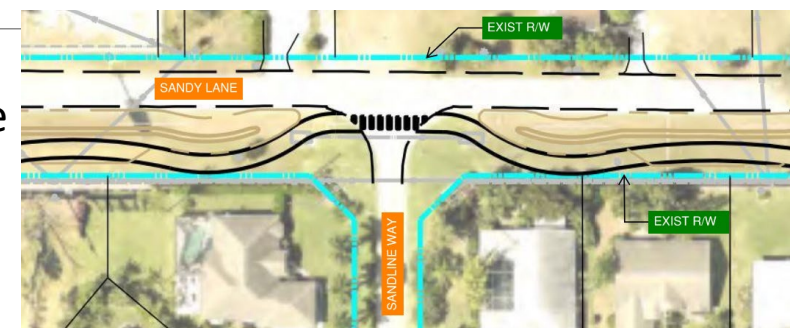


Options North of the Estero River

Partial Plan Views

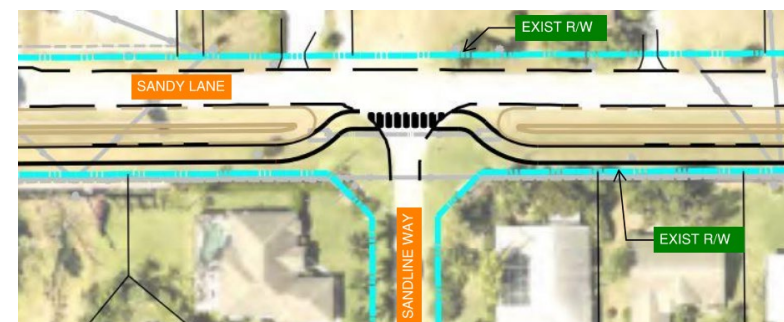
Option 1N (north): 12-foot-wide meandering path along existing privacy fence

- meandering alignment
- swale located between road and path



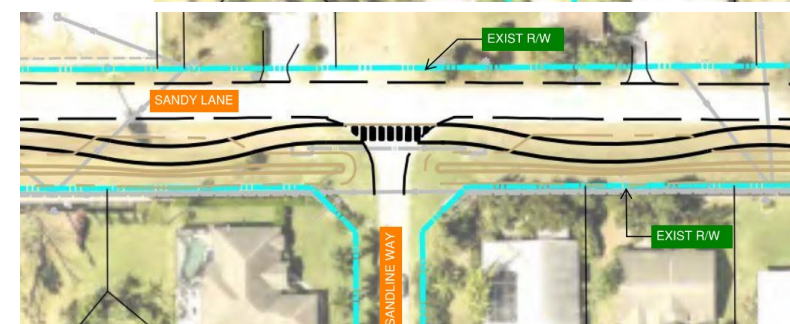
Option 2N: 12-foot-wide straight path along existing privacy fence

- straight alignment
- swale located between road and path

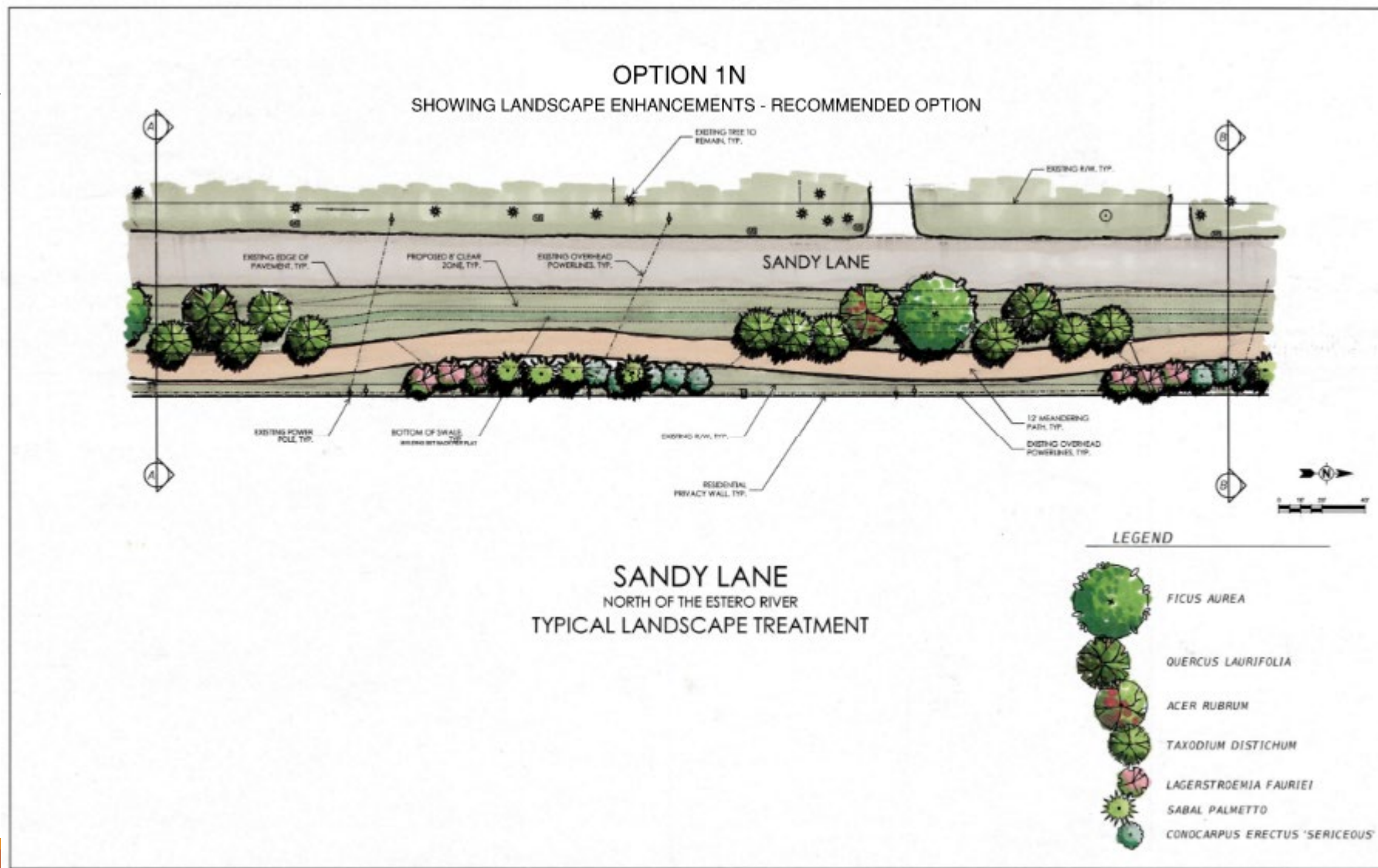


Option 3N: 12-foot-wide meandering path adjacent to road

- meandering alignment
- swale located between path and privacy fence
- further from overhead utility lines, potential for more tree canopy over path

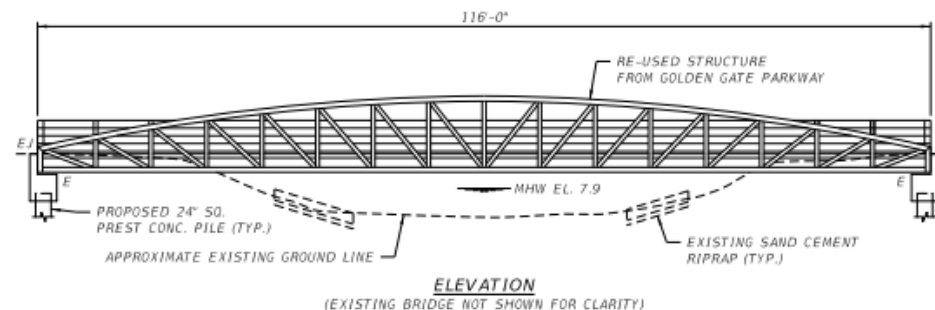
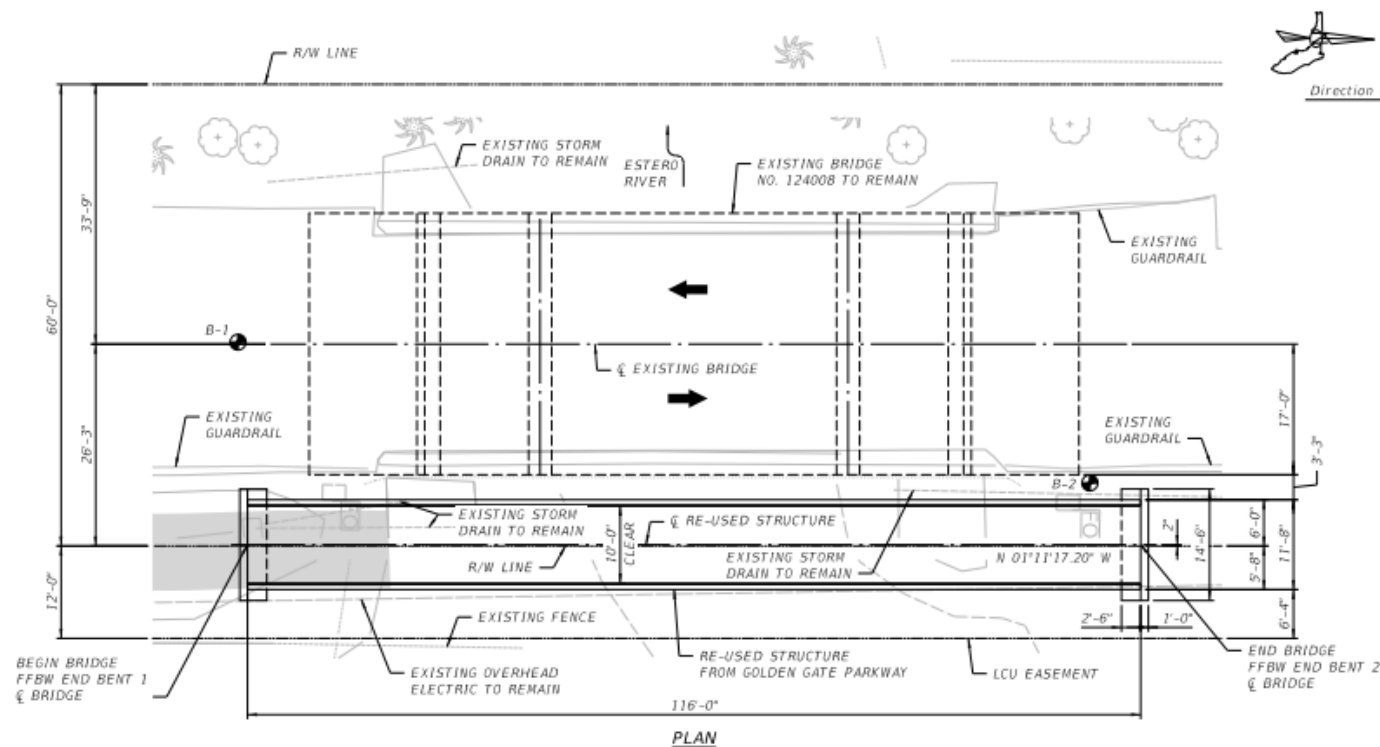


Sample Landscape North of the River



Bridge Options Reuse Structure

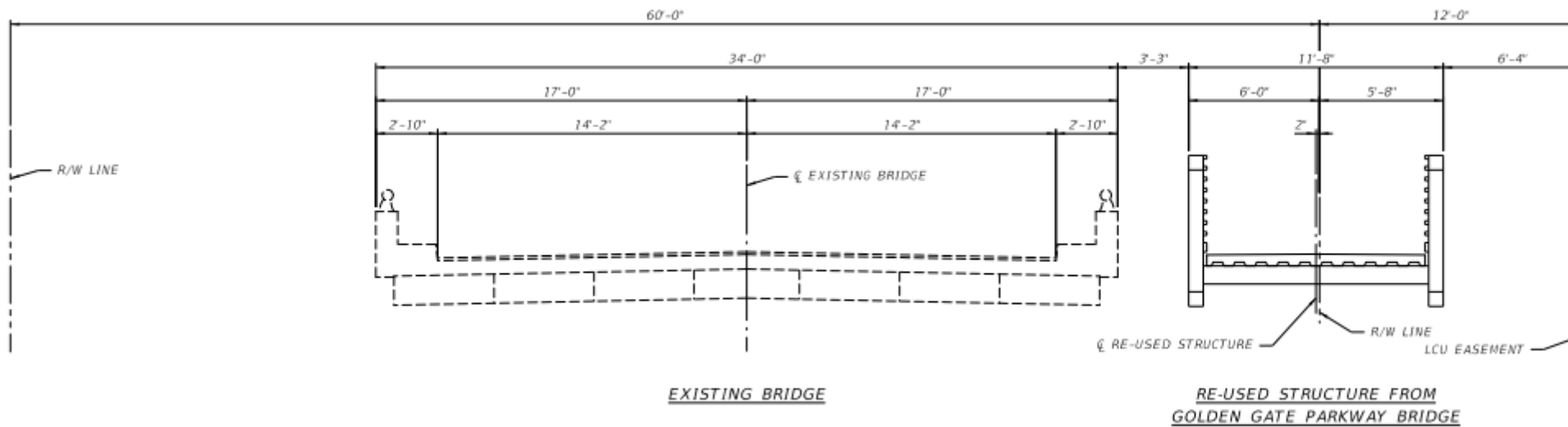
Longer Span



- LEGEND:
- - APPROXIMATE LOCATION OF SOIL BORING
 - FFBW - FRONT FACE BACKWALL
 - EJ - EXPANSION JOINT
 - ➔ - TRAVEL LANE

Bridge Options Reuse Structure

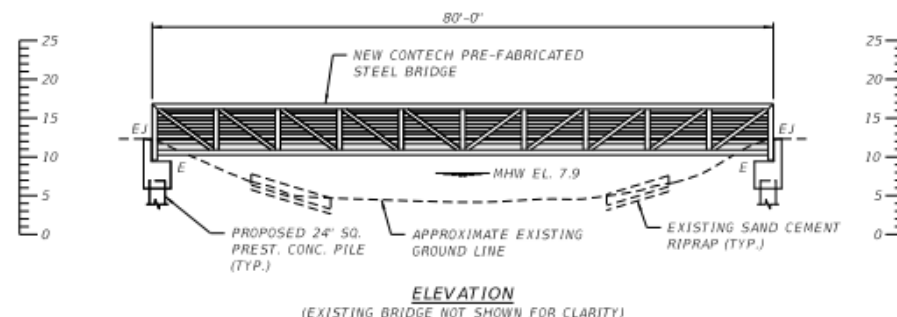
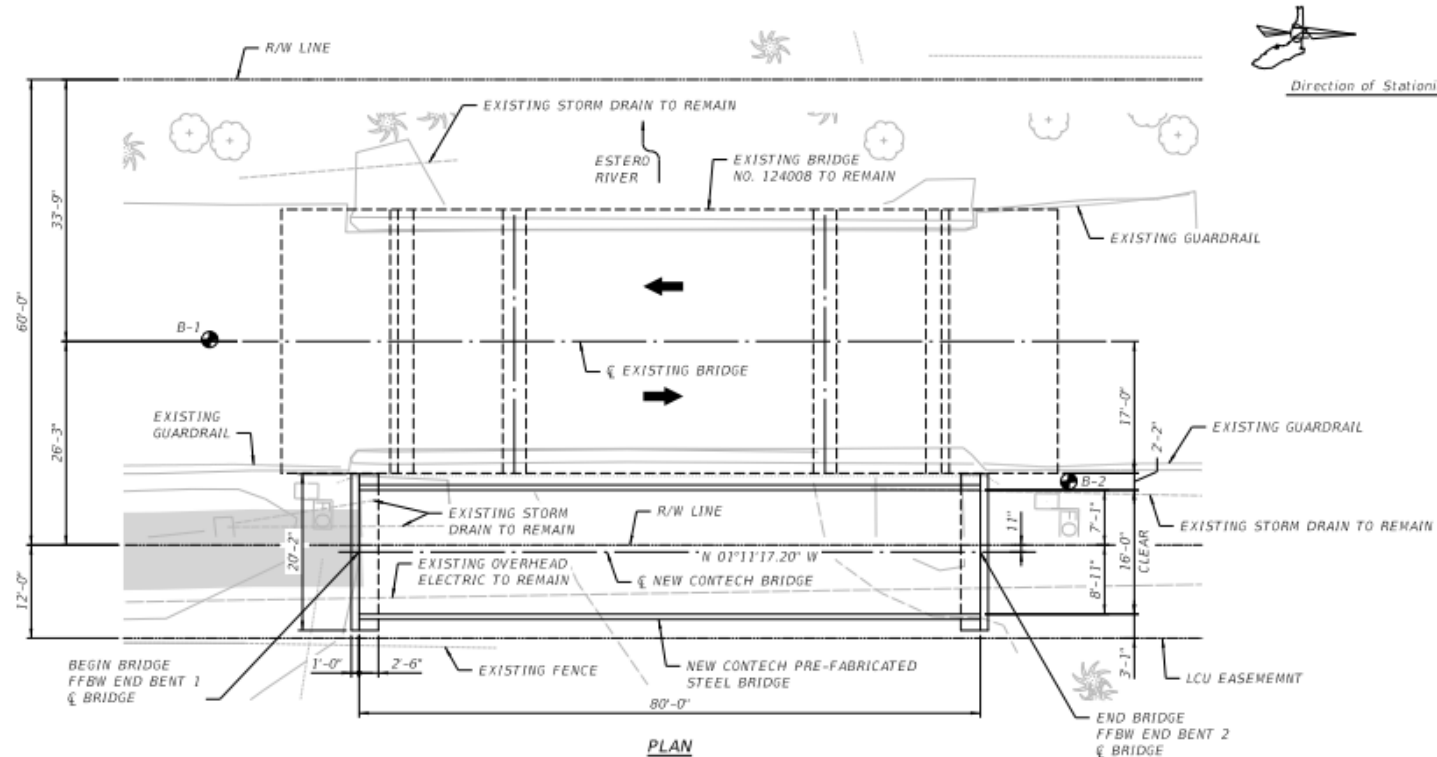
Width – 10 feet



Bridge Options New Structure

Bicycle – Pedestrian Bridge –
New Structure

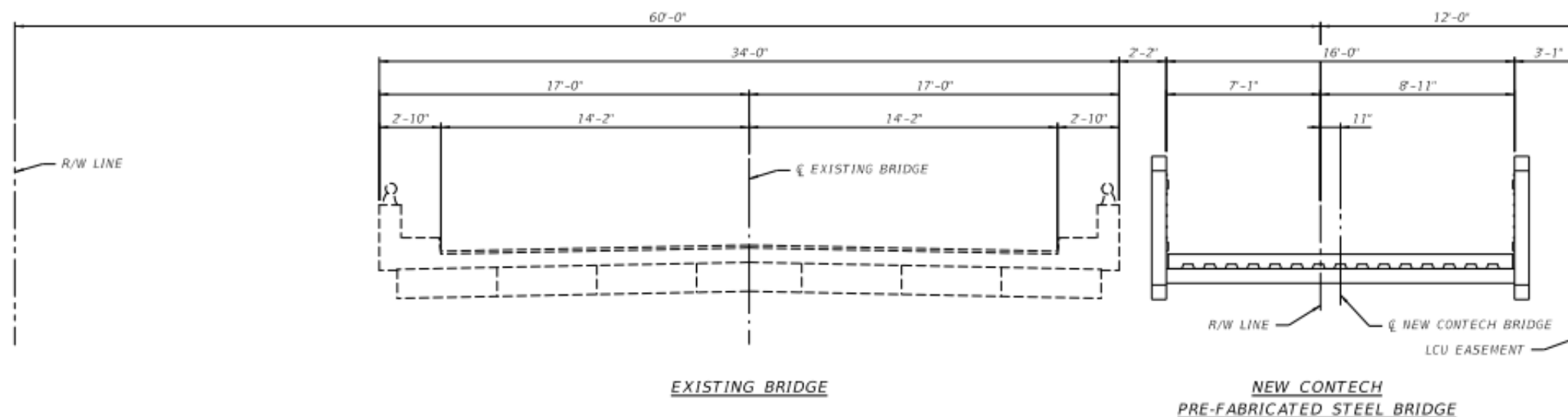
Shorter Span



- LEGEND:
- - APPROXIMATE LOCATION OF SOIL BORING
 - FFBW - FRONT FACE BACKWALL
 - EJ - EXPANSION JOINT
 - ➔ - TRAVEL LANE

Bridge Options New Structure

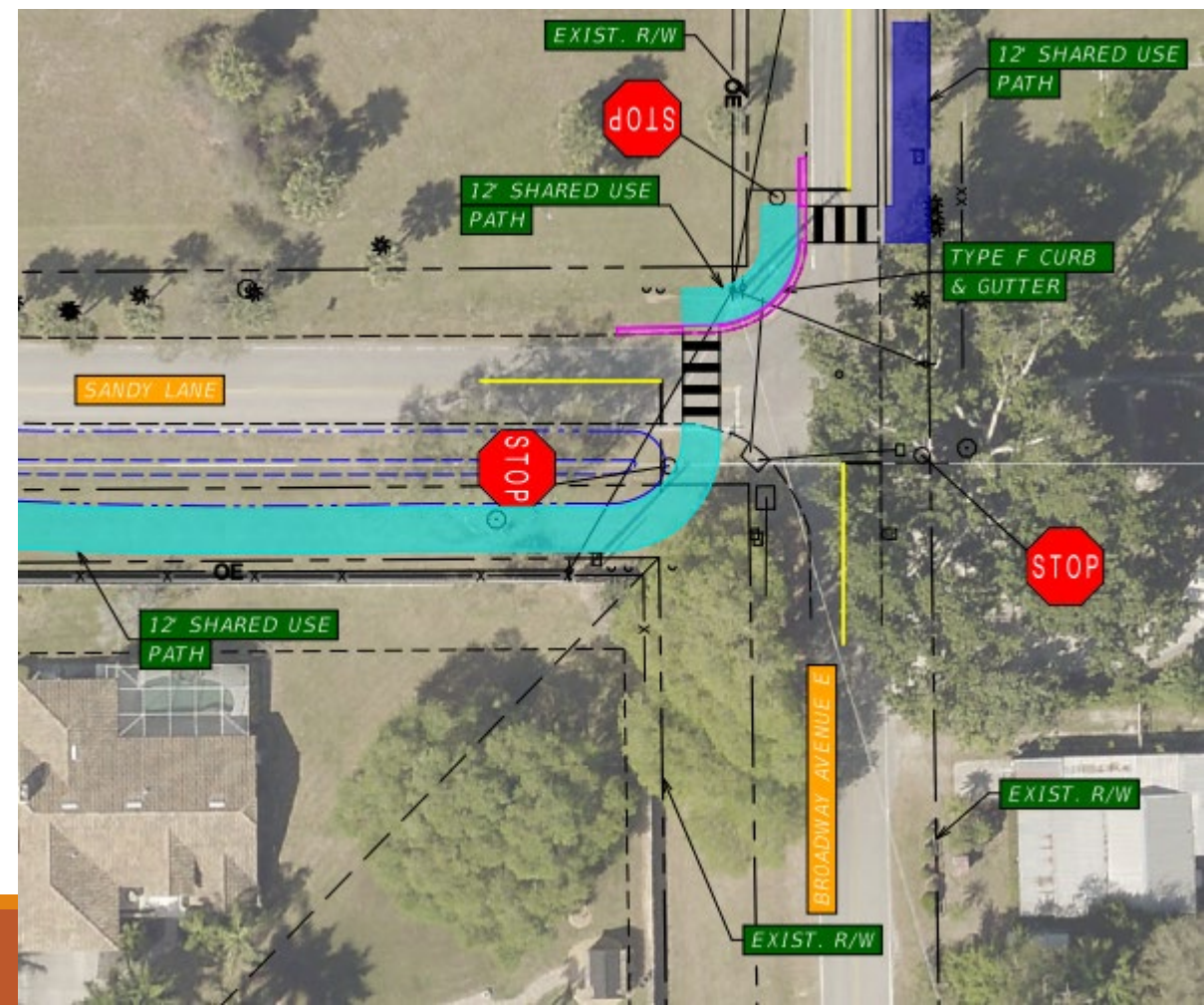
Width – 16 feet (provides recommended 2-foot buffer on each side)



Options Sandy Lane at Broadway Ave E

Convert to a 3-way stop

- Provides safer pathway crossings
- Improves northbound traffic flow



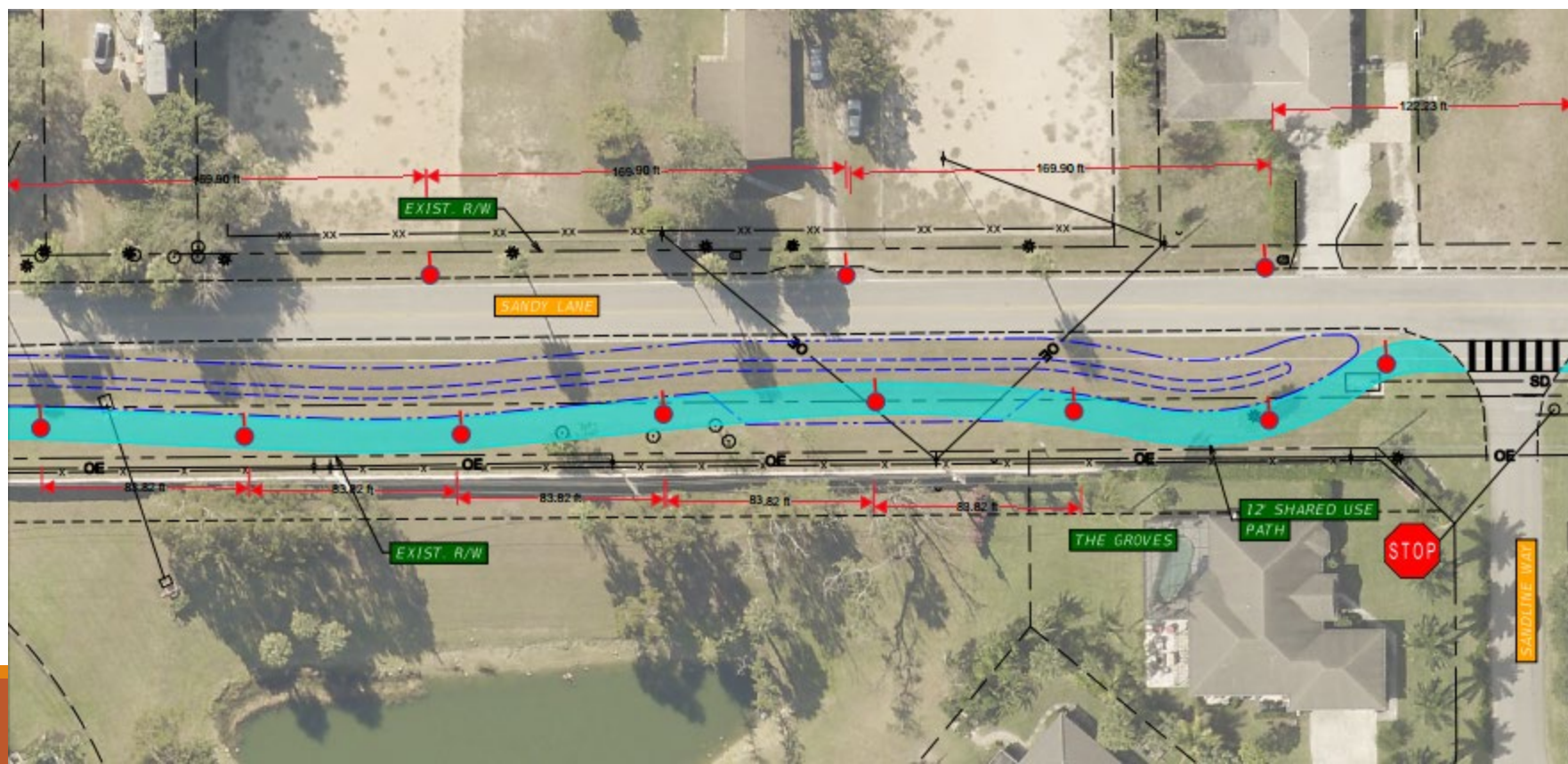
Lighting Options

Two Options

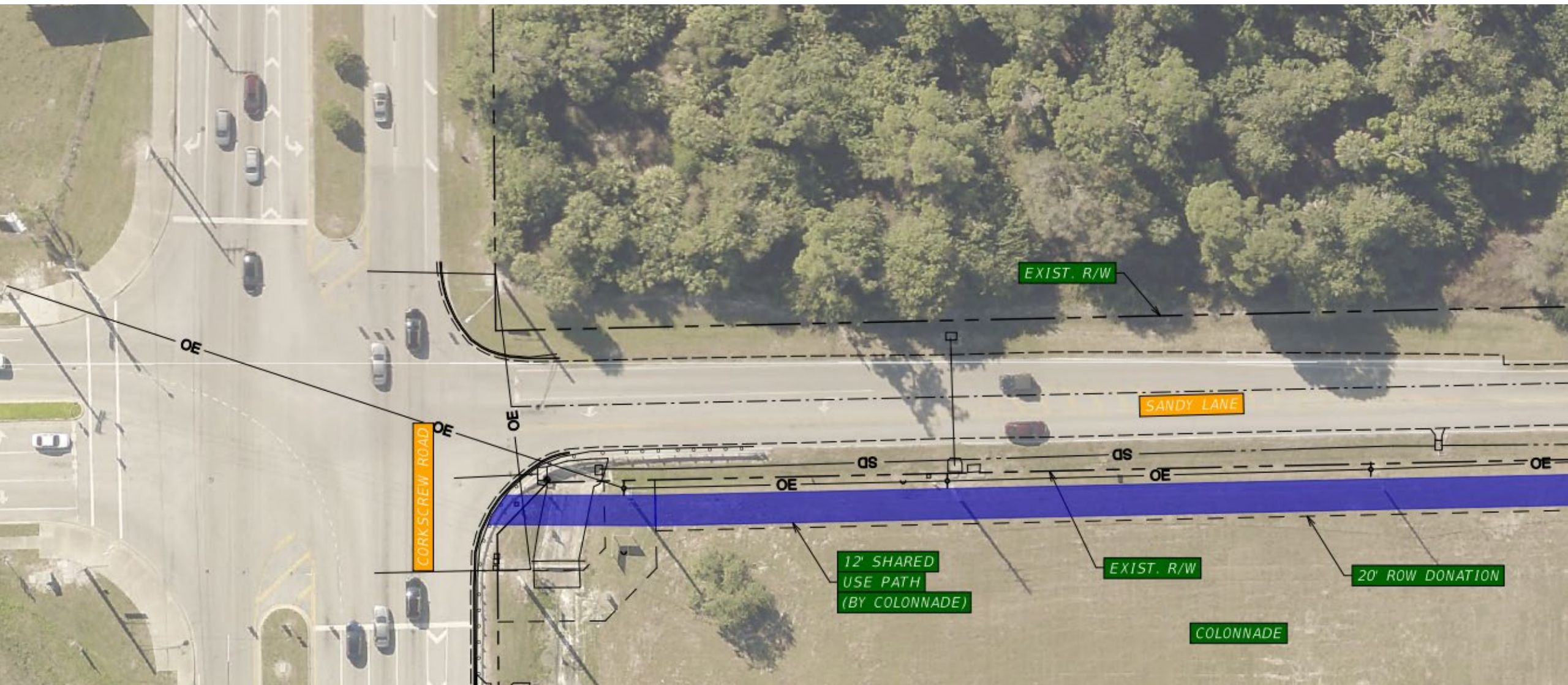
- Decorative lighting (challenging due to power poles)
- FPL lighting on power poles, with supplement intermittent path poles

Benefit – added safety and use during the winter time

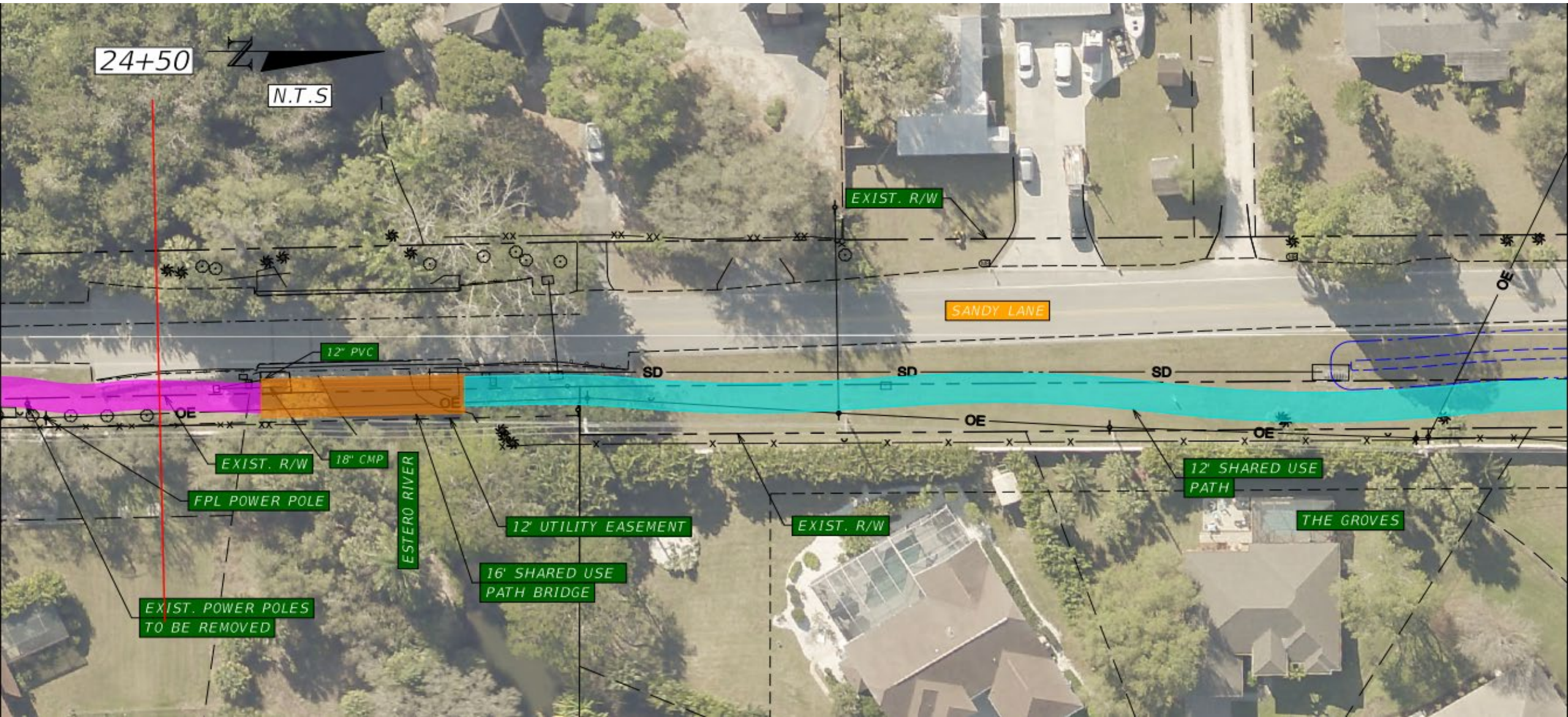
Sample layout →



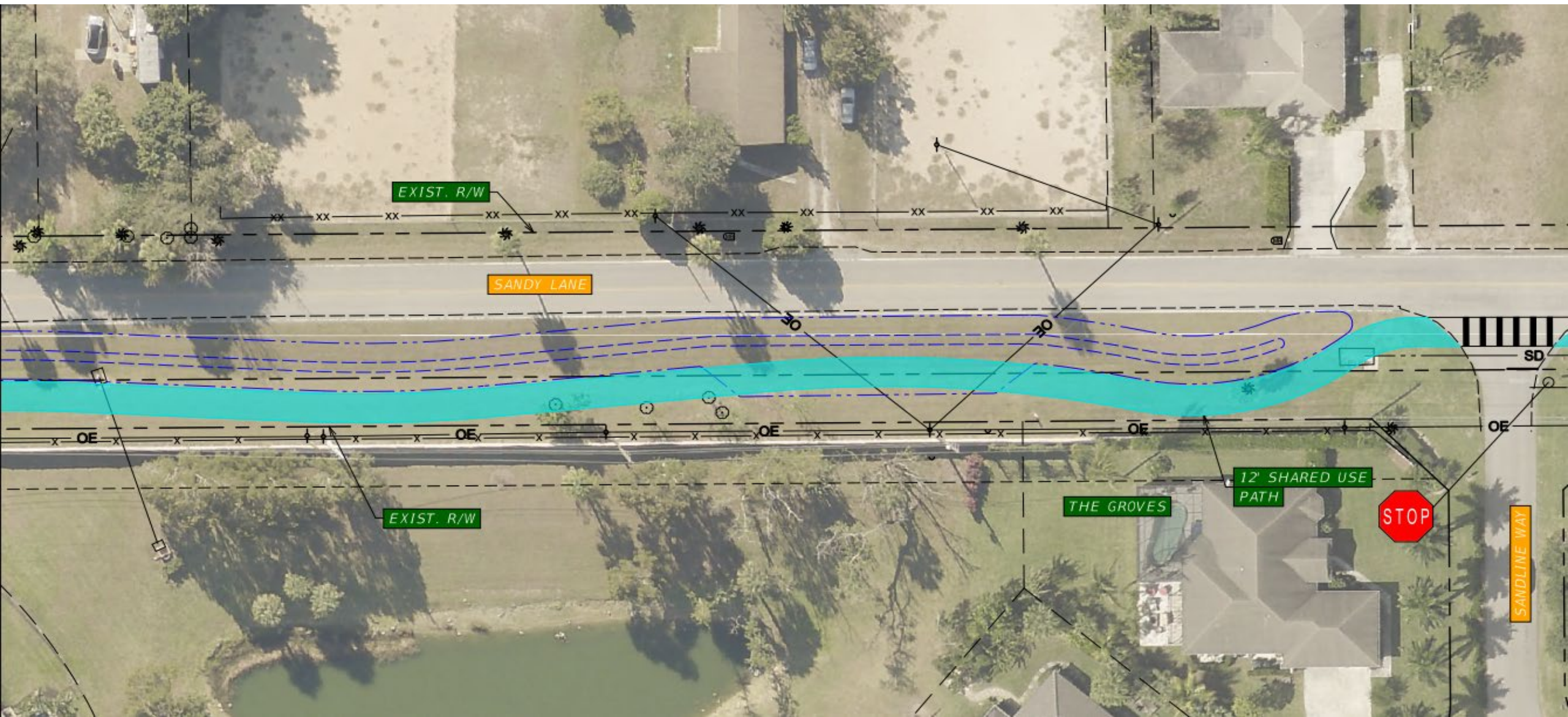
Recommended Alternative Overall Plan



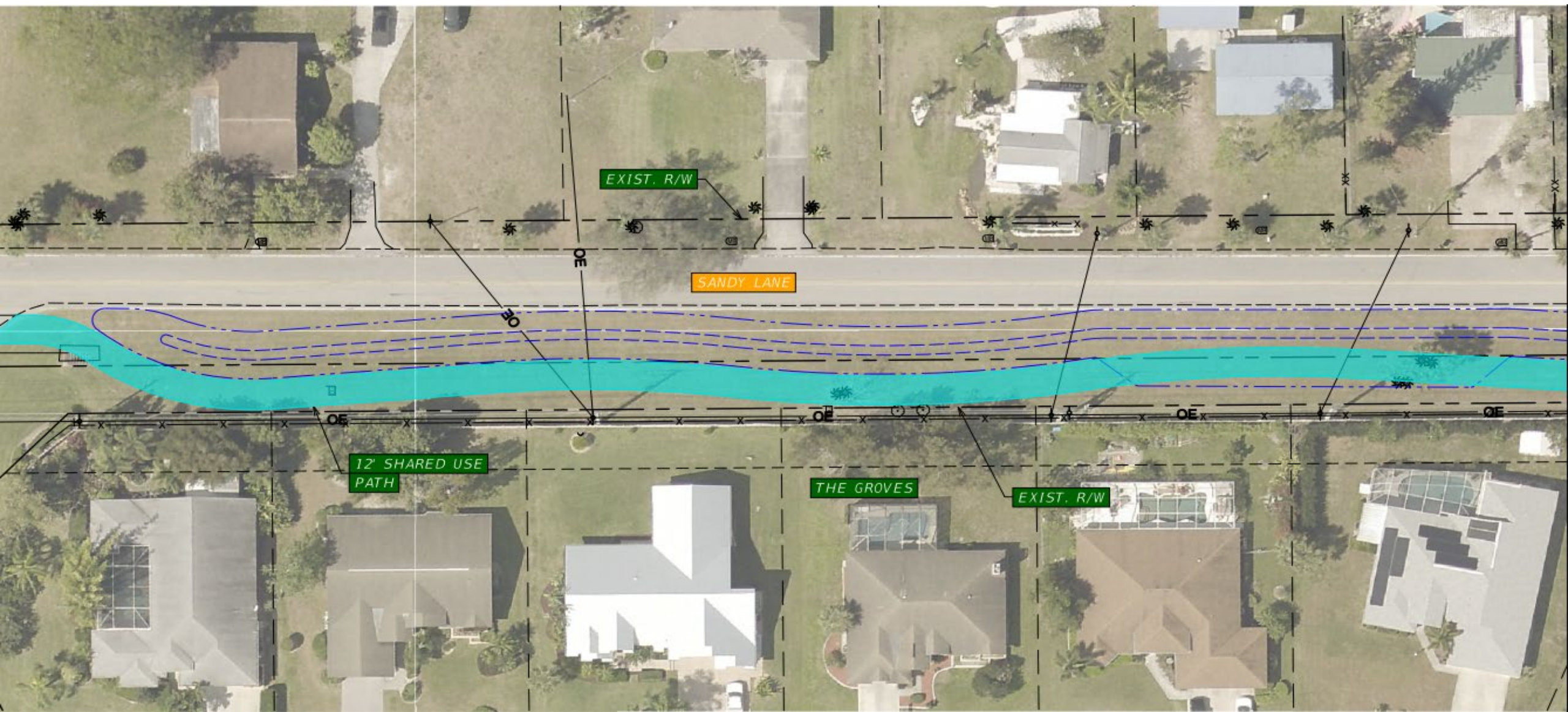
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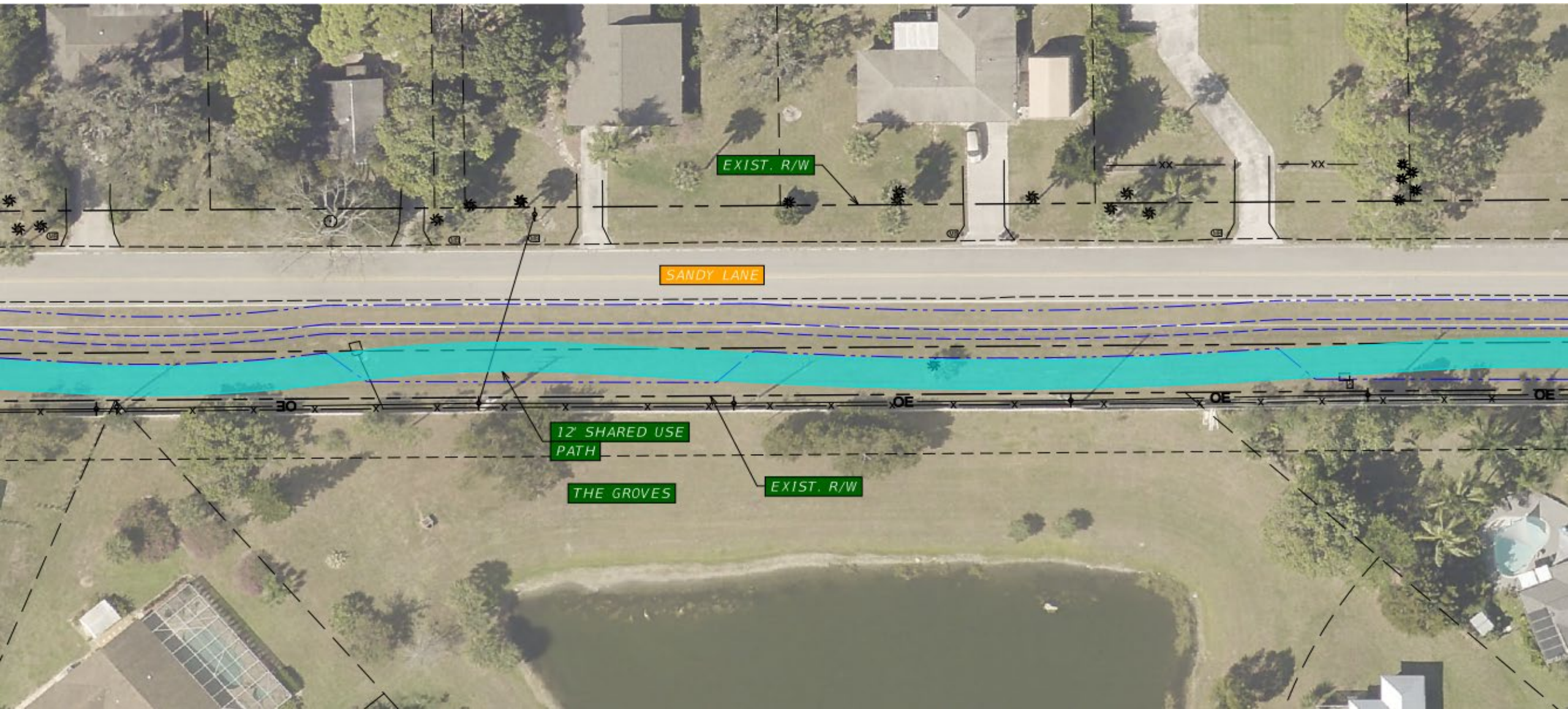
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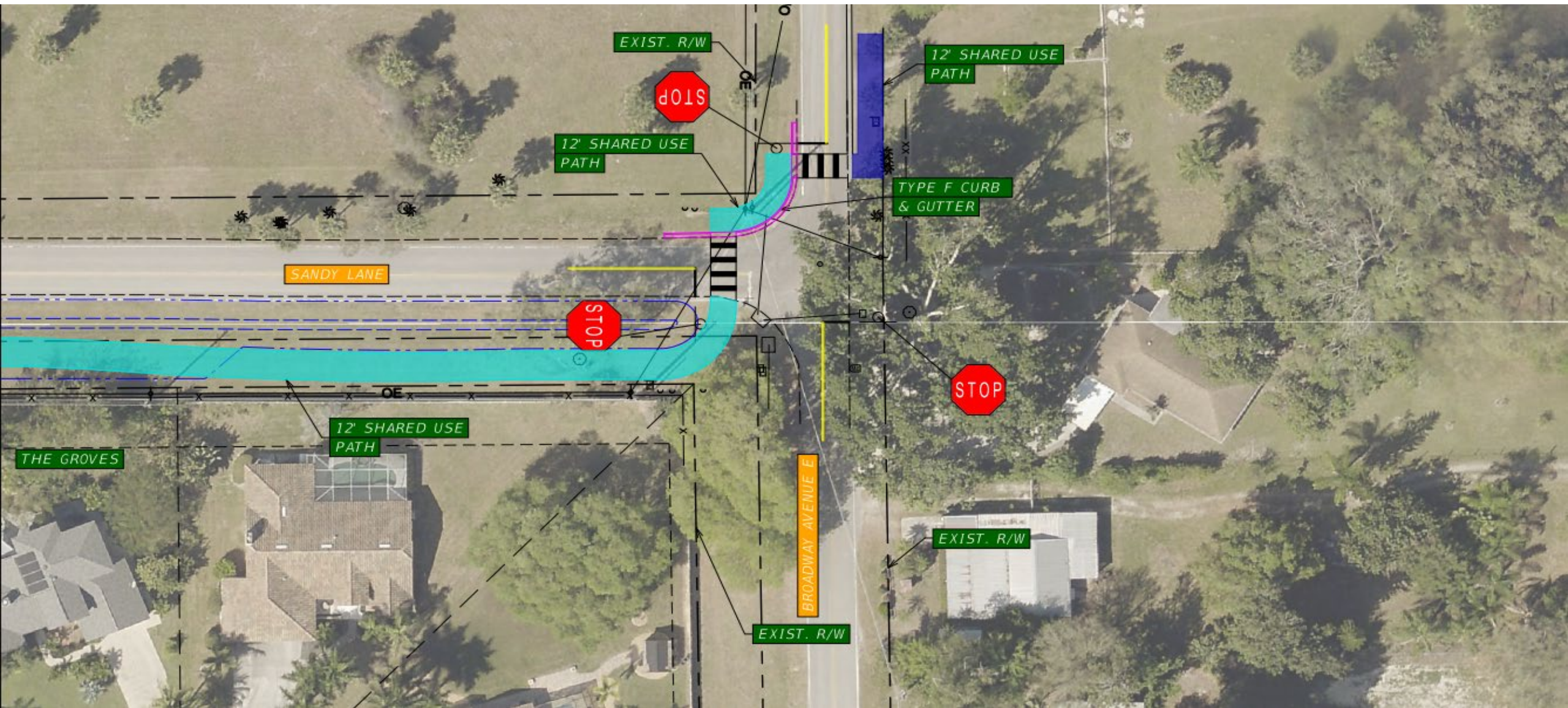
Recommended Alternative Overall Plan



Recommended Alternative Overall Plan



Recommended Alternative Overall Plan



Recommendation Summary

1. 12-foot-wide path east side of road
2. South of Estero River Circle – Option 3S (remove turn lane)
3. Estates River Circle to Estero River – 12-foot-wide boardwalk
4. Bridge – 16-foot-wide
5. North of River – Option 1N (swale between meandering path and road)
6. Sandy Lane & Broadway Ave E. Intersection – 3-way stop
7. Lighting – decorative lighting