



Preliminary Engineering Study

from CR 209 to C-466A



462

C-462 Preliminary Engineering Study from CR 209 to C-466A



Location Map

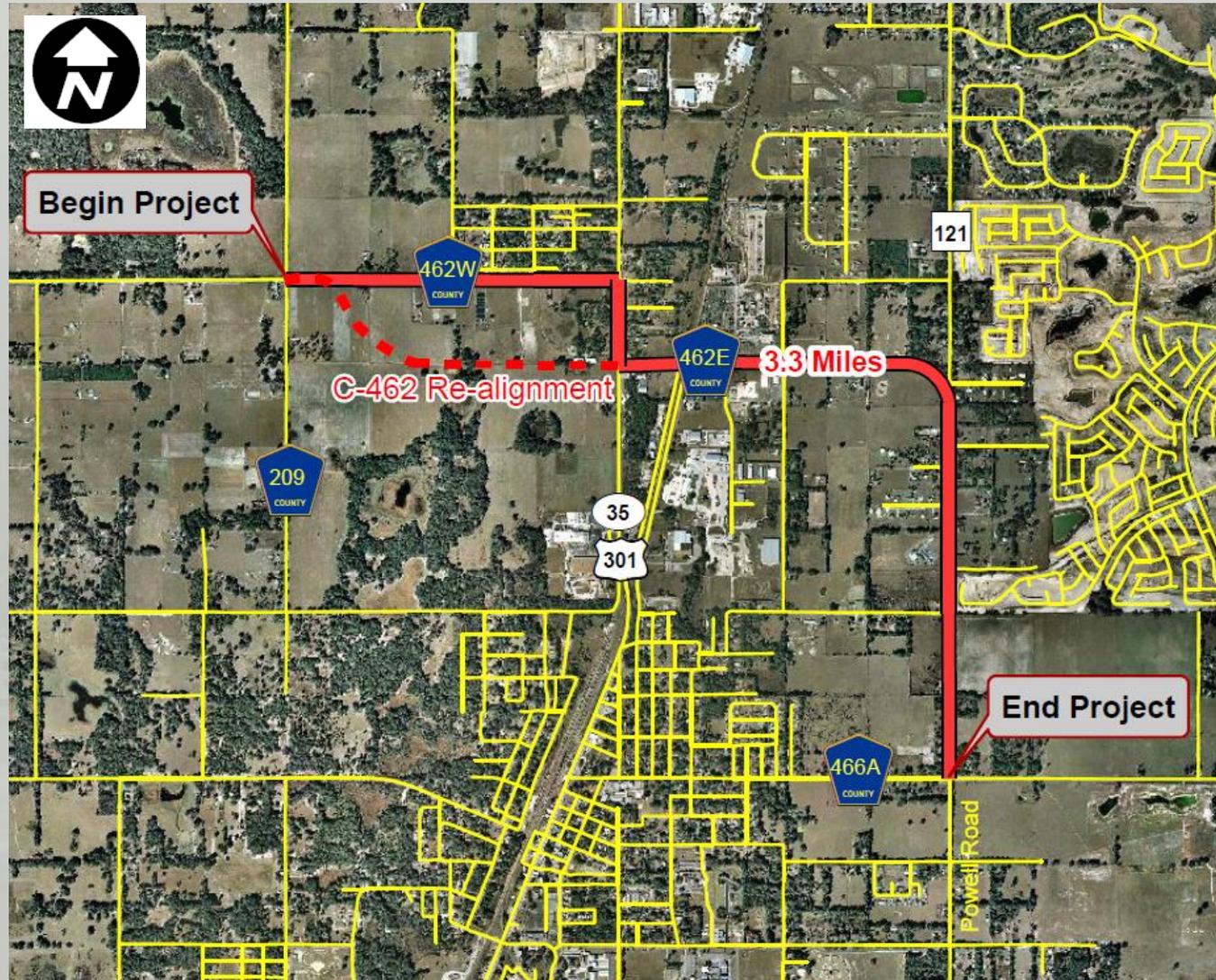


Project Objectives:

- Correct the mis-alignment of C-462 west and east of US 301
- Correct existing roadway deficiencies
- Provide the appropriate roadway typical section for future traffic demand

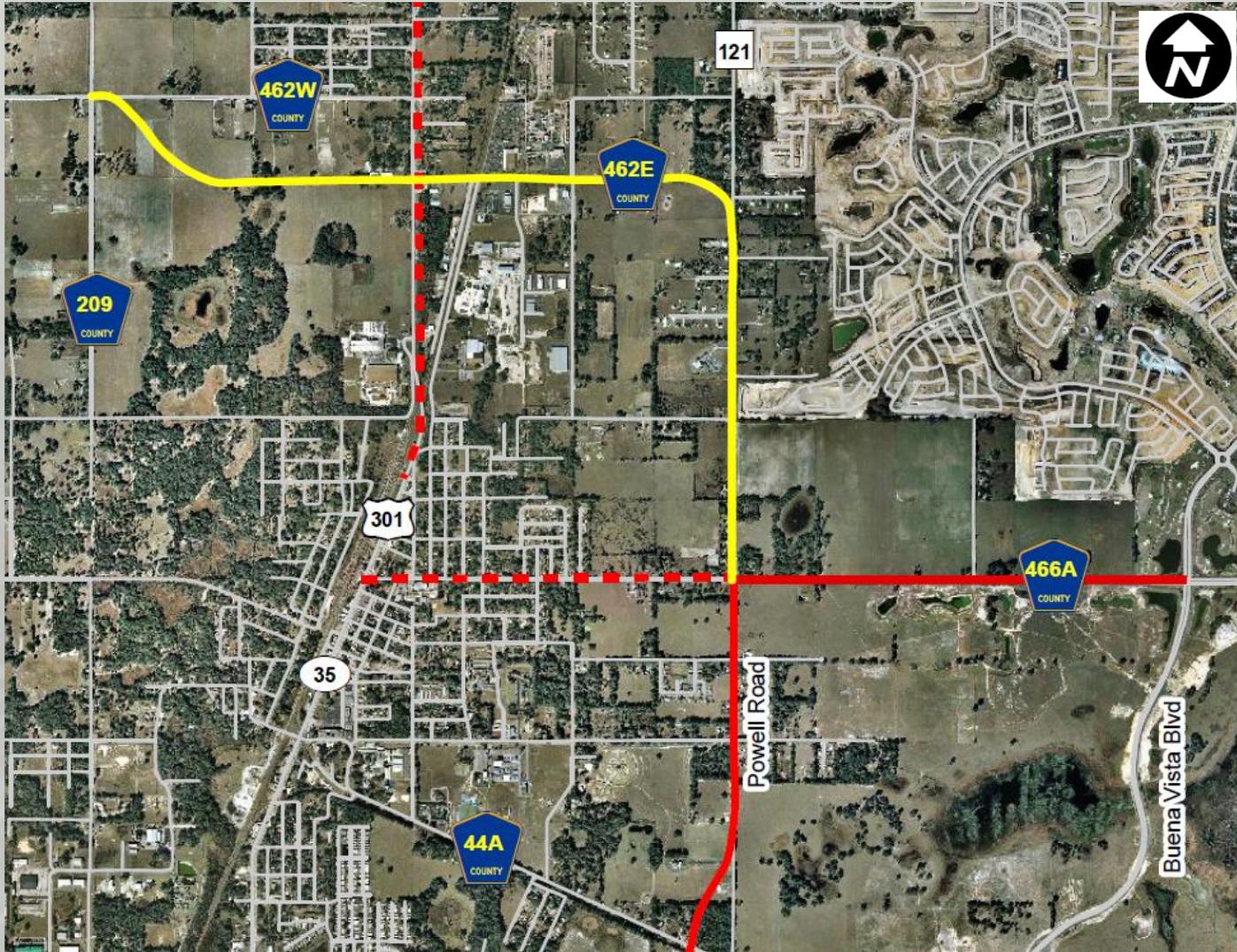


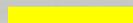
Location Map





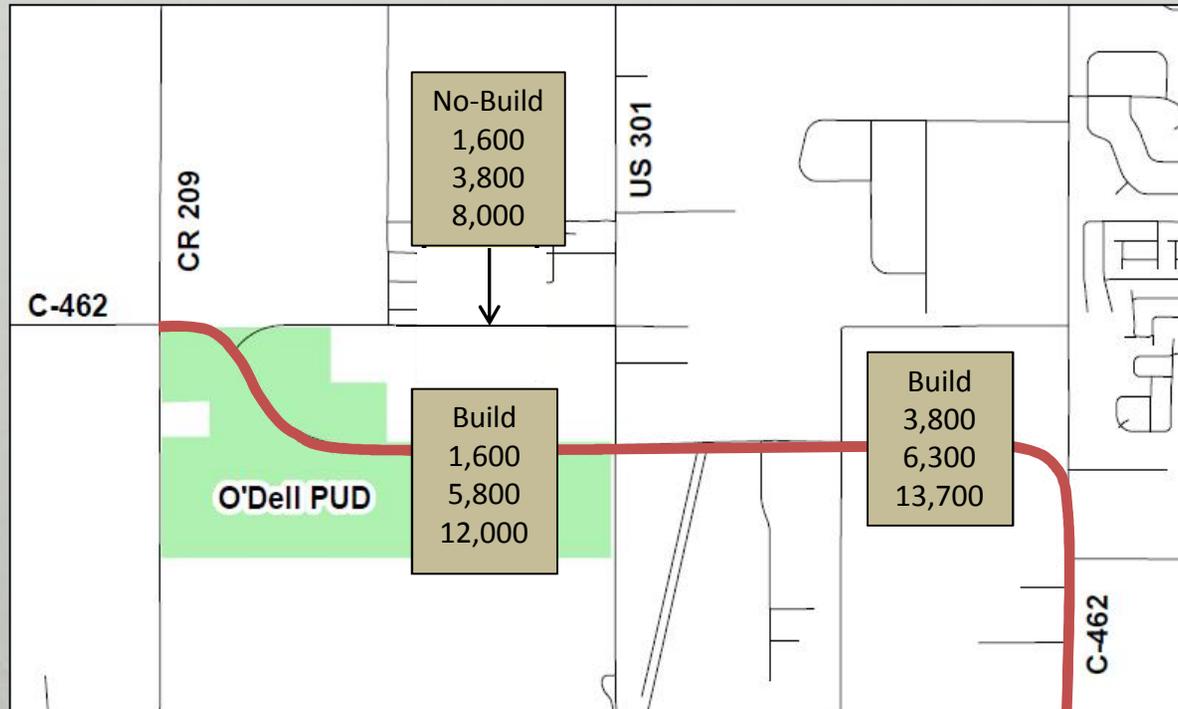
Adjacent Roadway Improvements



-  Recent Roadway Widening
-  Future Roadway Widening
-  Study Roadway



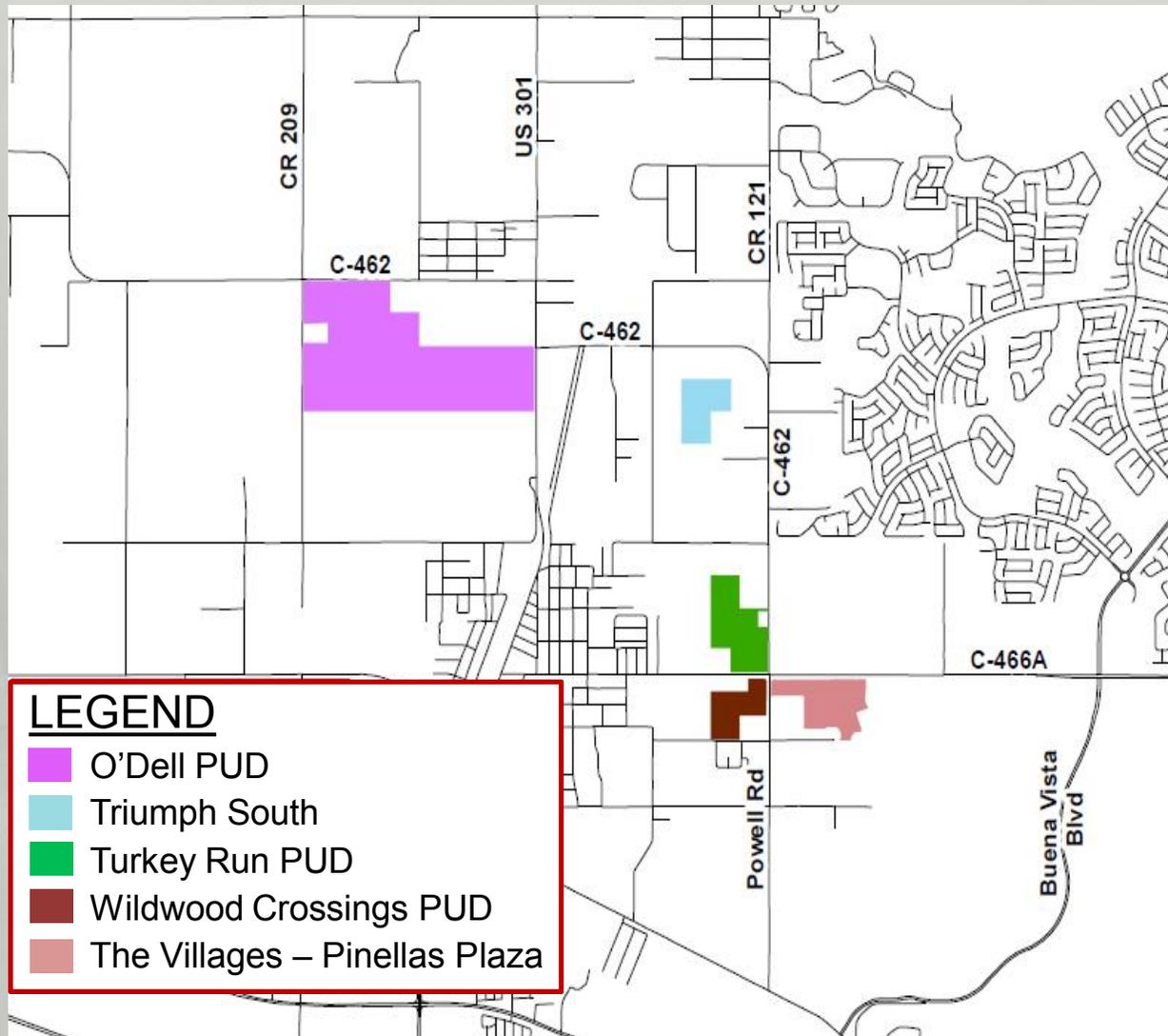
Future Daily Traffic Projections



Roadway Segment	Existing Capacity	Existing AADT	2015 AADT	2035 AADT	Build Condition Capacity
CR 209 to US 301	10,900	1,600	5,800	12,000	14,400
US 301 to C-466A	10,300	3,800	6,300	13,700	14,400



Adjacent Future Development



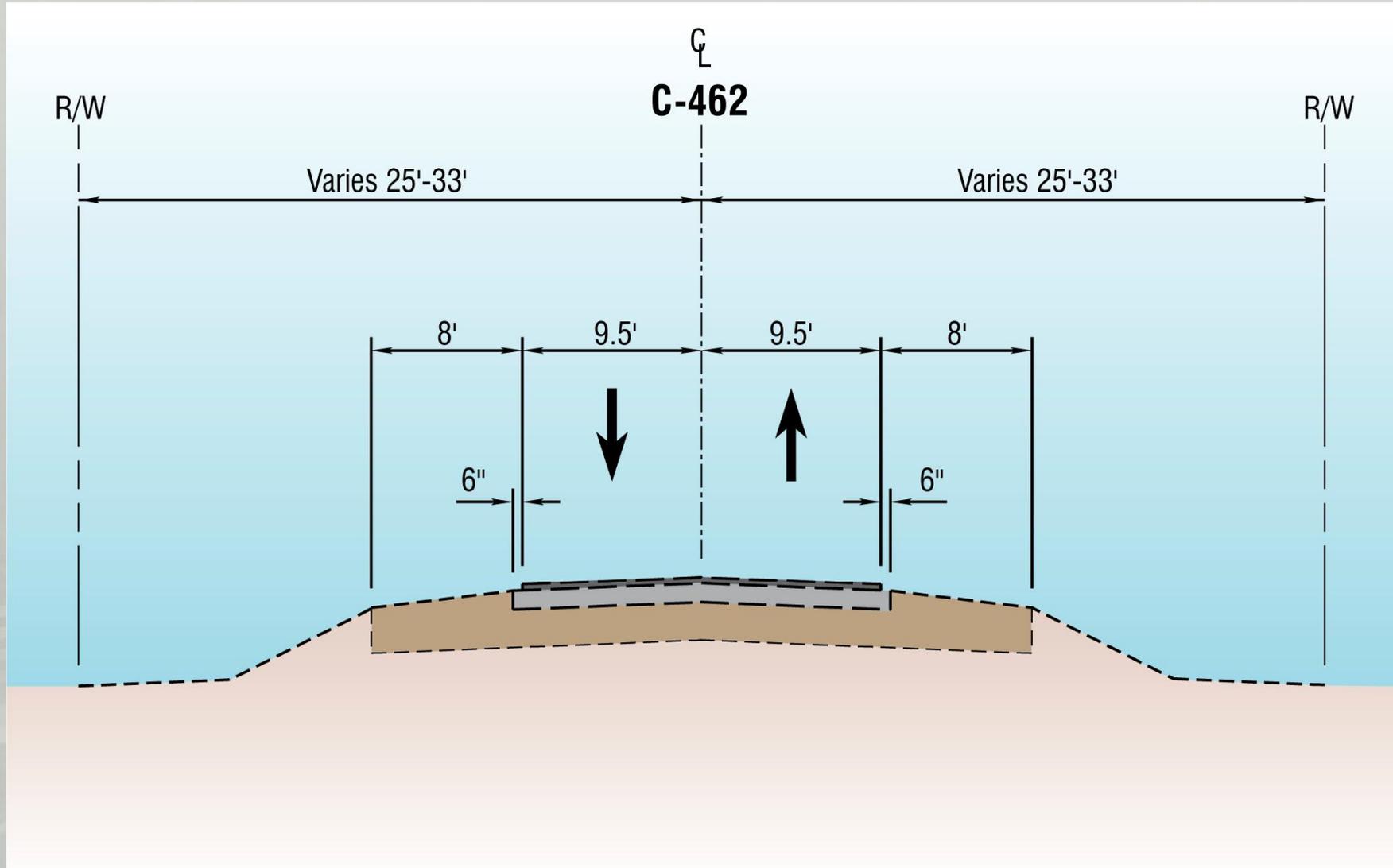


Existing Cross Section





Existing Typical Section





Recommended Build Alternative

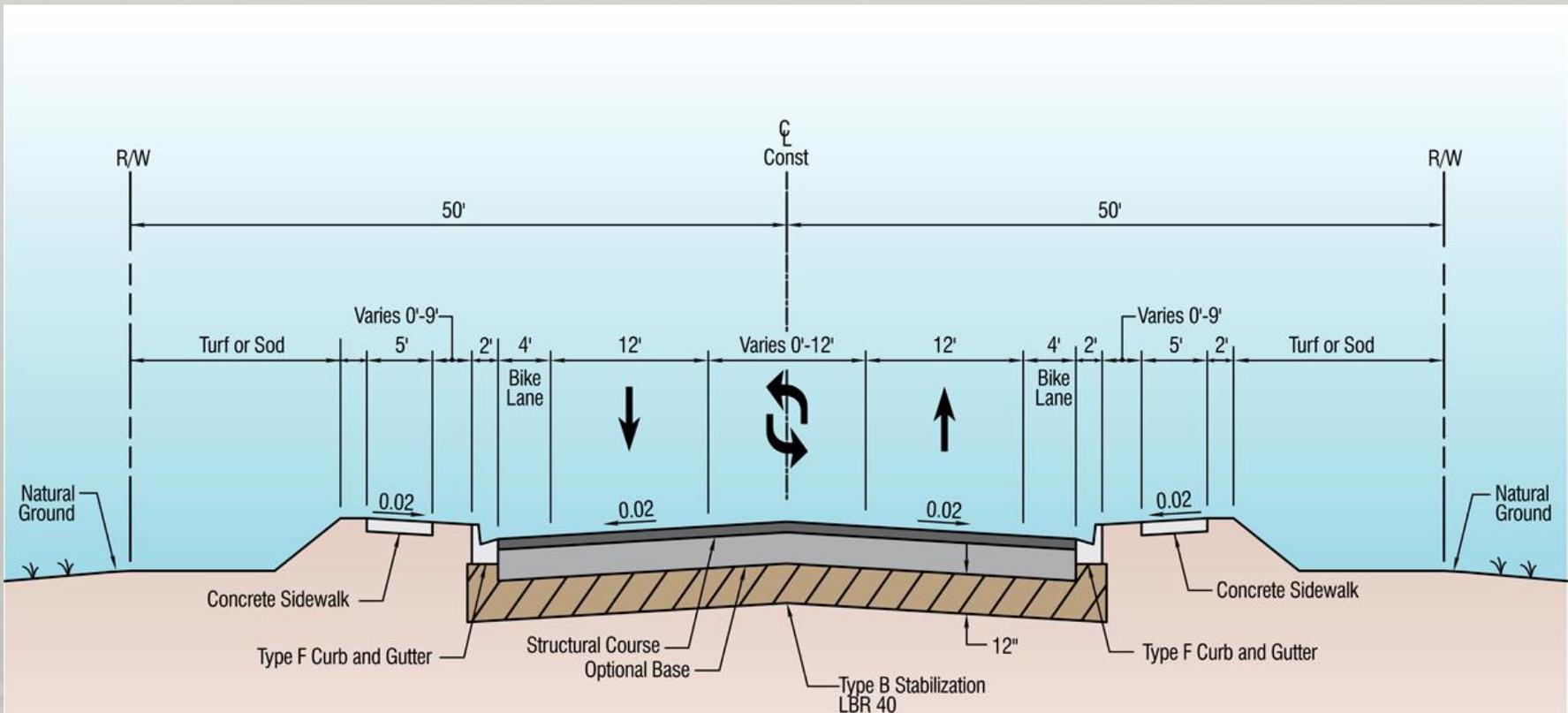
- New alignment of C-462 west of US 301 to occur within the O'Dell property (100-foot ROW provided per City of Wildwood PUD Ordinance)
- Two-lane urban (closed drainage) section with bike lanes and sidewalks
- Left turn lanes located at driveway locations west of US 301
- Two-way left turn lane east of US 301 with some raised medians
- Intersection improvements at US 301 & C-462
- Intersection improvements at C-462 & CR 121
- Project ties into the recent improvements at C-462/Powell Rd & C-466A



Proposed Cross Section



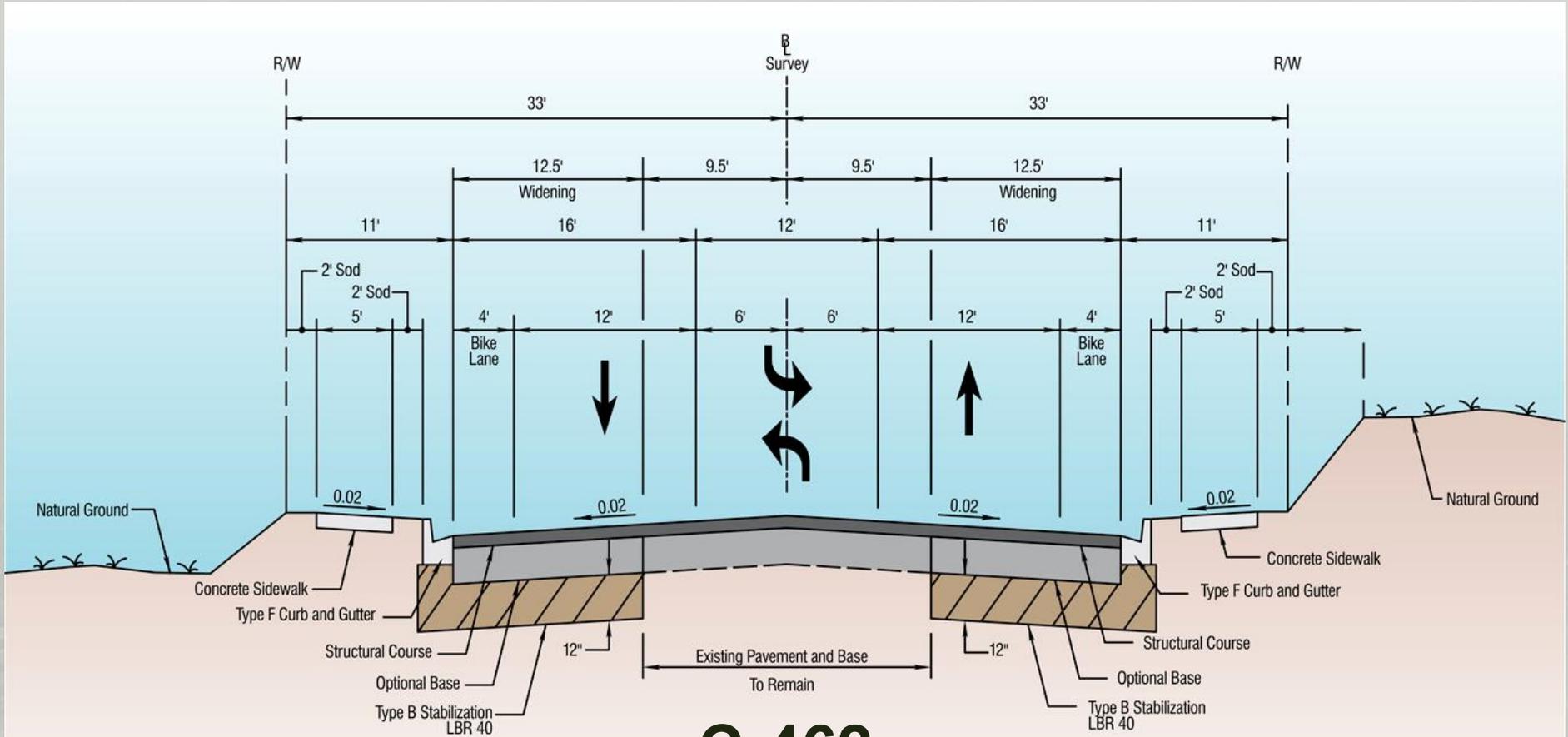
Proposed Typical Section



C-462 from CR 209 to US 301 (SR 35)



Proposed Typical Section



C-462 from US 301 (SR 35) to C-466A

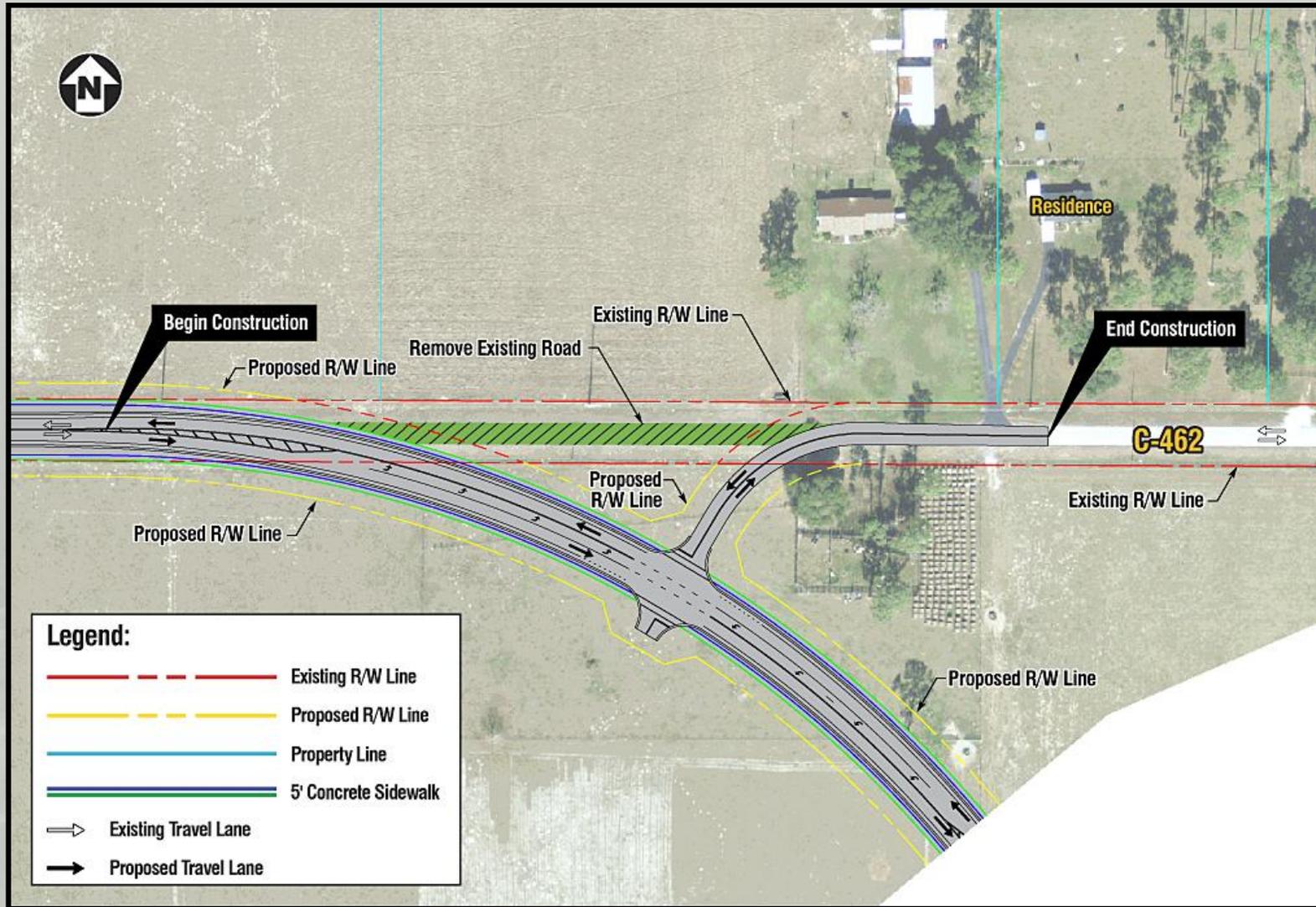


Proposed Alignment – CR 209 to US 301

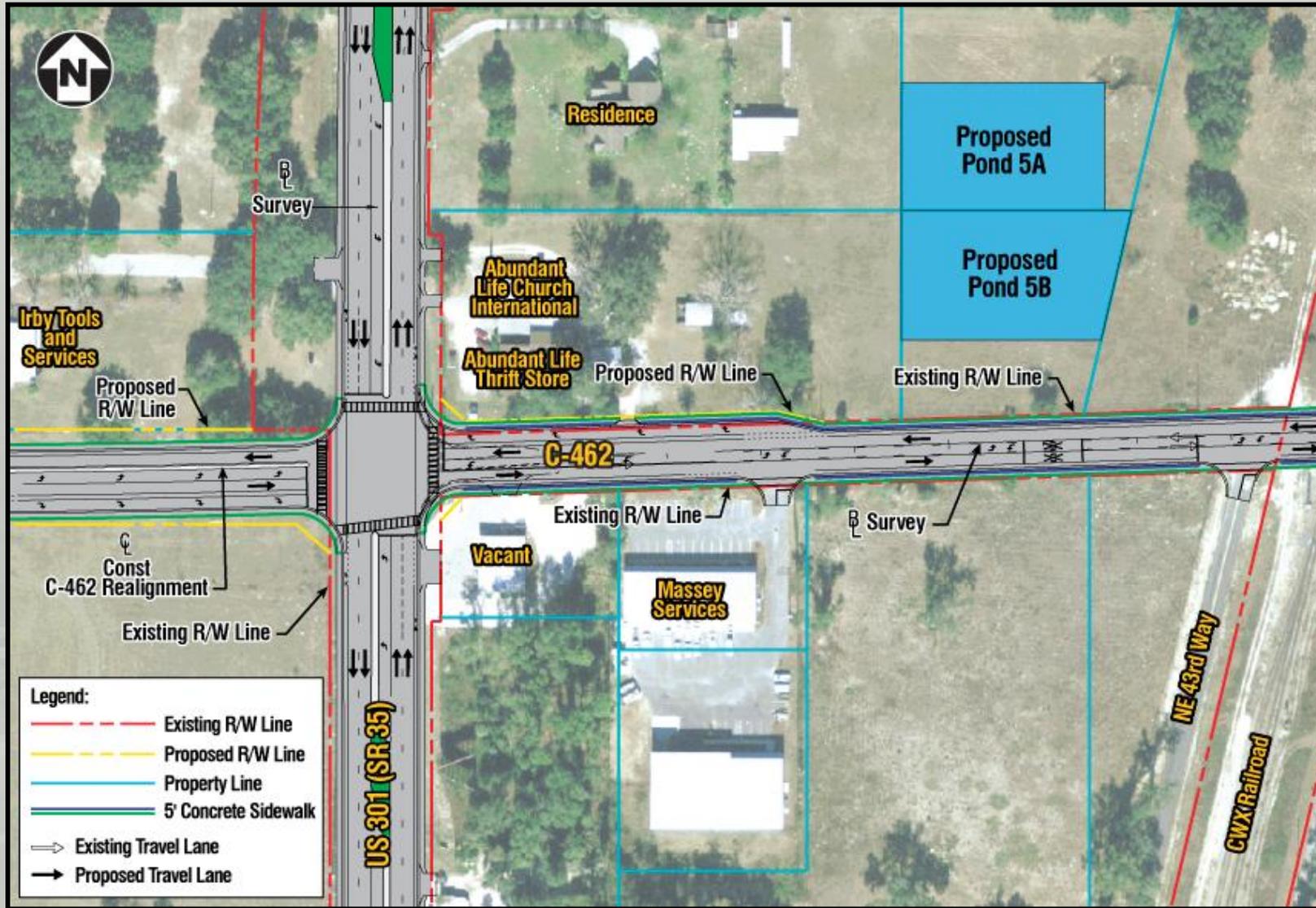




C-462 Re-alignment & C-462W Old Alignment



C-462 & US 301 - Proposed

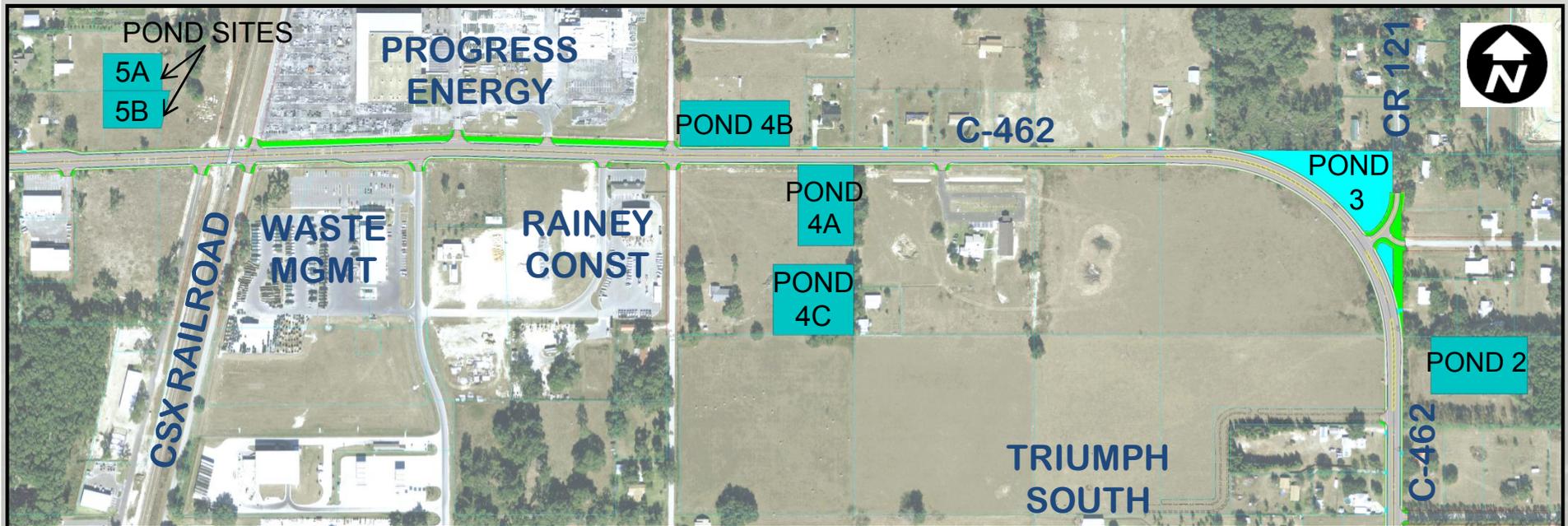


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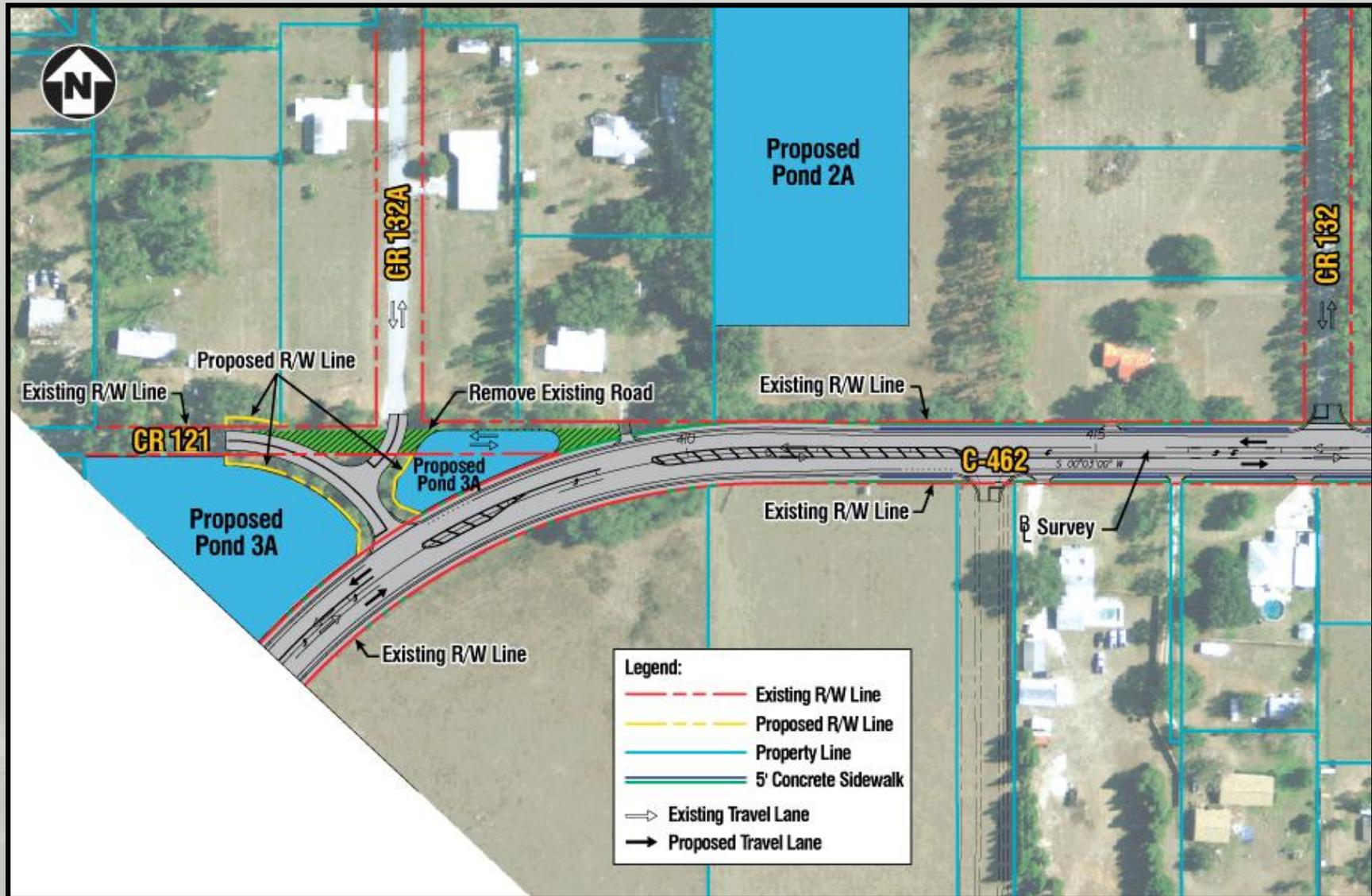
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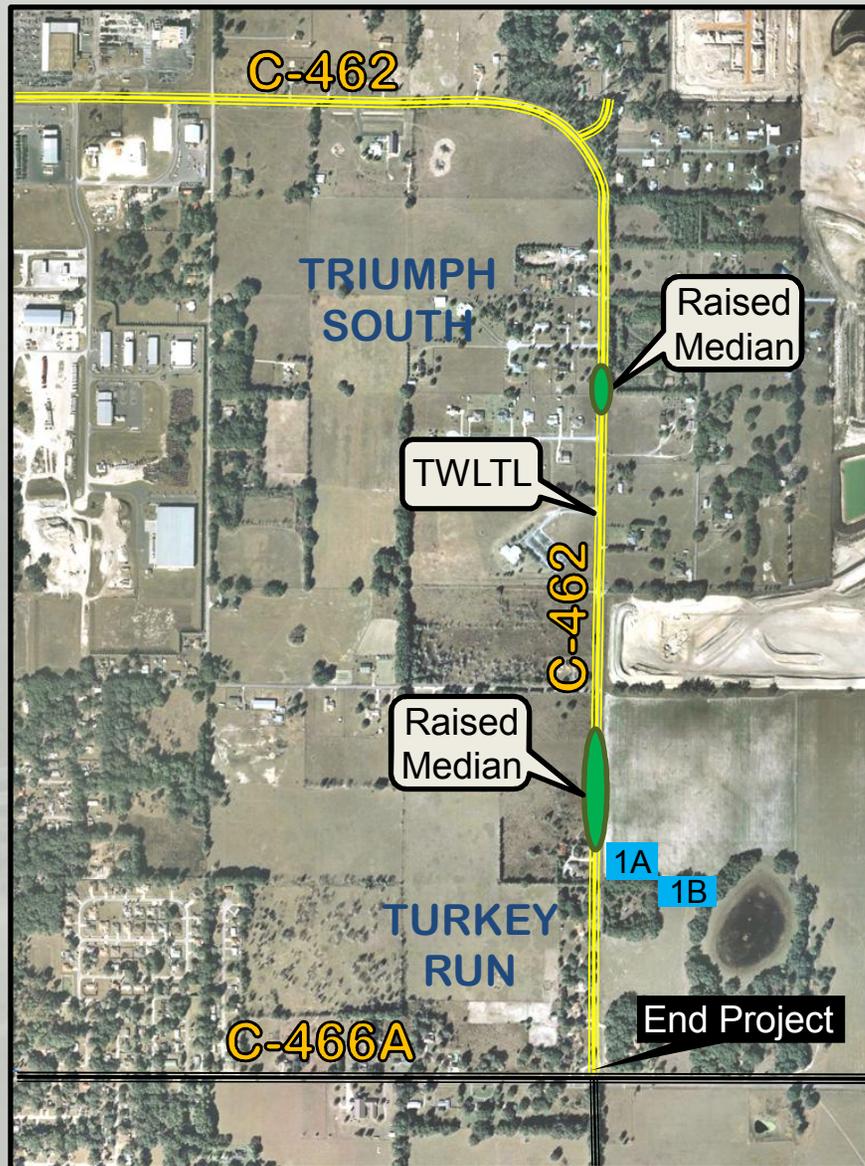
Proposed Alignment –US 301 to CR 121



CR 121 & C-462 - Proposed



Proposed Alignment – CR 121 to C-466A



- Two raised medians south of CR 121.
- Project ties into Powell Road/C-466A.



C-462 & C-466A - Proposed



Public Involvement



- Public Alternatives Meeting October 13th 2010 at the Wildwood Community Center.
- Attendance was 143 people.
- 17 comments were submitted, with a majority in favor of the project.



- Presentations to the Lake-Sumter MPO Technical Advisory Committee and Bicycle-Pedestrian Committee in February 2011.
- No major concerns raised by committee members.



Environmental Impacts

- Low to Moderate likelihood of endangered, threatened, and species of special concern.
- No recorded archaeological sites within corridor.
- A 0.39 acre portion of the re-alignment is located within the 100-year flood plain. The pond siting /drainage analysis takes this into consideration.
- Potential groundwater contamination from the Lil Champ Food Store and documented groundwater contamination from Progress Energy. The proposed alignment will occur outside of these sites.



Drainage / Pond Siting

- Existing roadway section has rural open drainage.
- Proposed roadway section has closed drainage system conveyed to dry retention ponds.
- Drainage / pond siting analysis performed using SCS Method and SWFWMD 100 year, 24 hour design storm.
- Seven drainage basins were delineated for the corridor.
- Alternative pond sites were identified for some basins.



Cost Estimate – Recommended Alternative

Item	Estimated Cost
Survey, Design, Permitting, Construction Administration	\$1,350,000
Right-of-Way Acquisition (approx. 12.5 Acres)	\$900,000
Construction	\$9,000,000
Total	\$11,250,000



Summary of Recommended Alternative

Disadvantages

- Inconvenience to traveling public during construction
- Cost associated with design and construction
- Limited right-of-way needed for turn lane and pond locations

Advantages

- Provides safer roadway for the traveling public
- Meets anticipated traffic demand and reduced congestion
- Corrects the mis-alignment of C-462W and C-462E at US 301
- Provides bicycle and pedestrian facilities



Questions?