



Boggy Creek Road Improvements Alternatives Study

Simpson Road (C.R. 530)
to Narcoossee Road

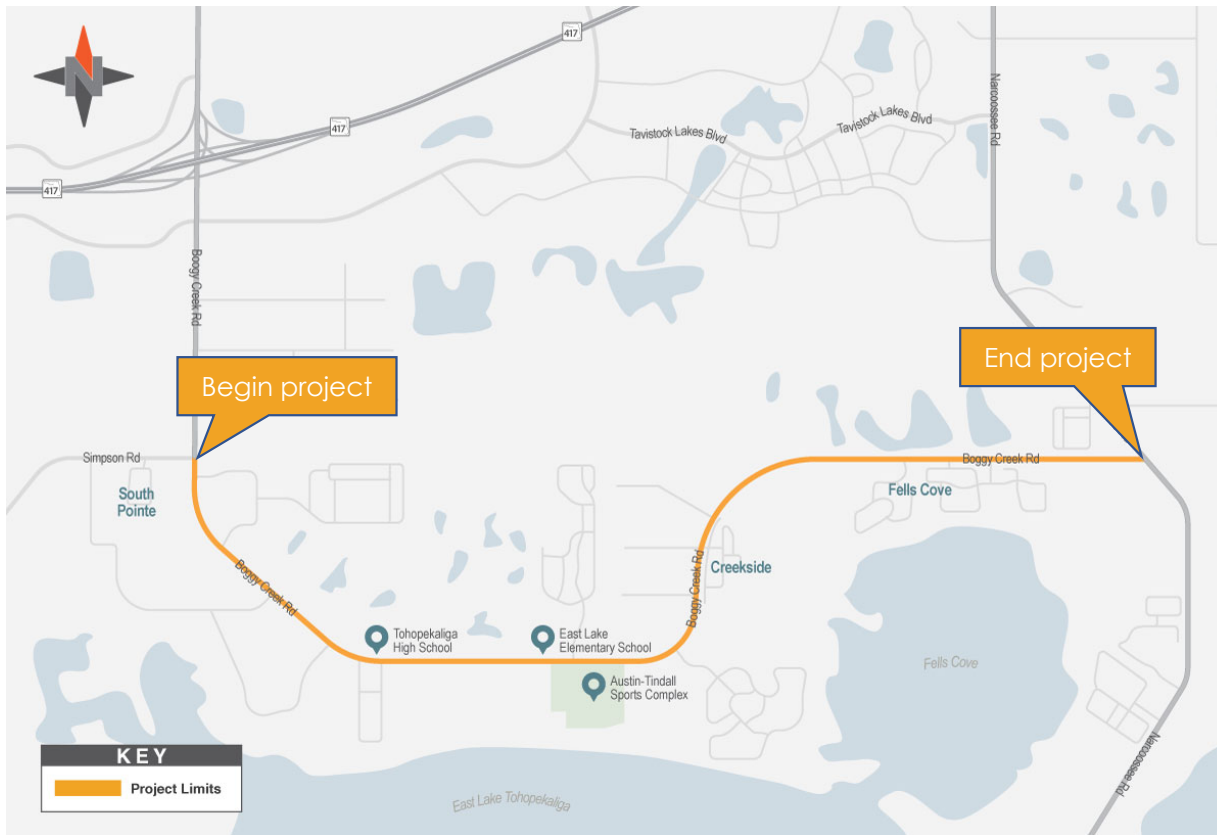
Board of County Commissioners Meeting
April 5, 2021

Presentation Contents



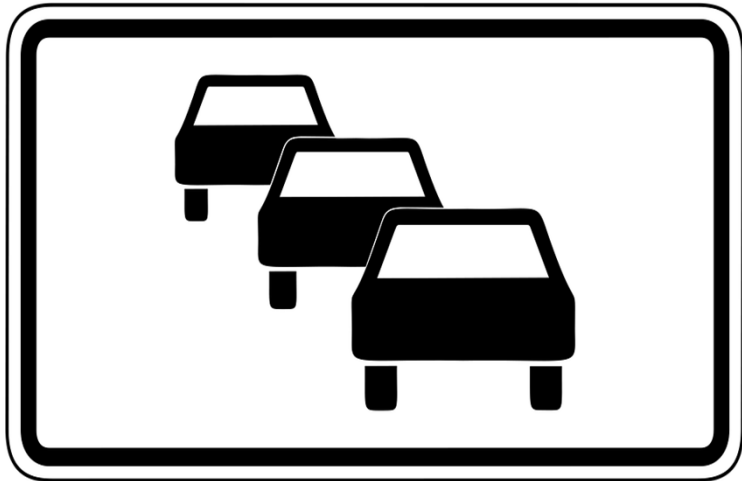
- Project overview, purpose and need
- Current traffic and future demands
- Public involvement activities
- Proposed typical section alternatives
- Recommended alternative
- Benefits of recommended alternative
- Project schedule and estimated costs

Project Location



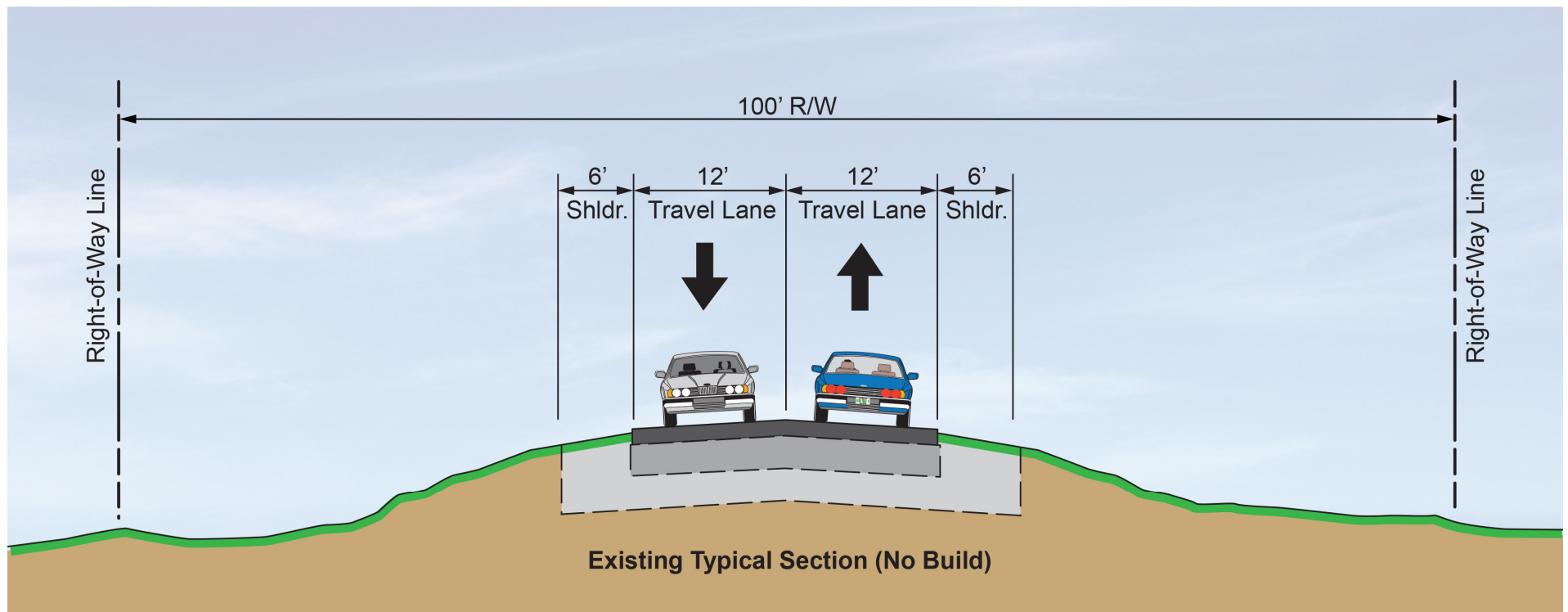
- Boggy Creek Road from Simpson Road to Narcoossee Road
- South of S.R. 417
- 5.9 miles

Project Purpose & Need



- Address congestion
- Improve traffic operations and safety
- Provide additional options for pedestrians and bicyclists
- Improve drainage
- Identify access management opportunities
- Minimize impacts to the environment and adjacent properties

Existing Typical Section



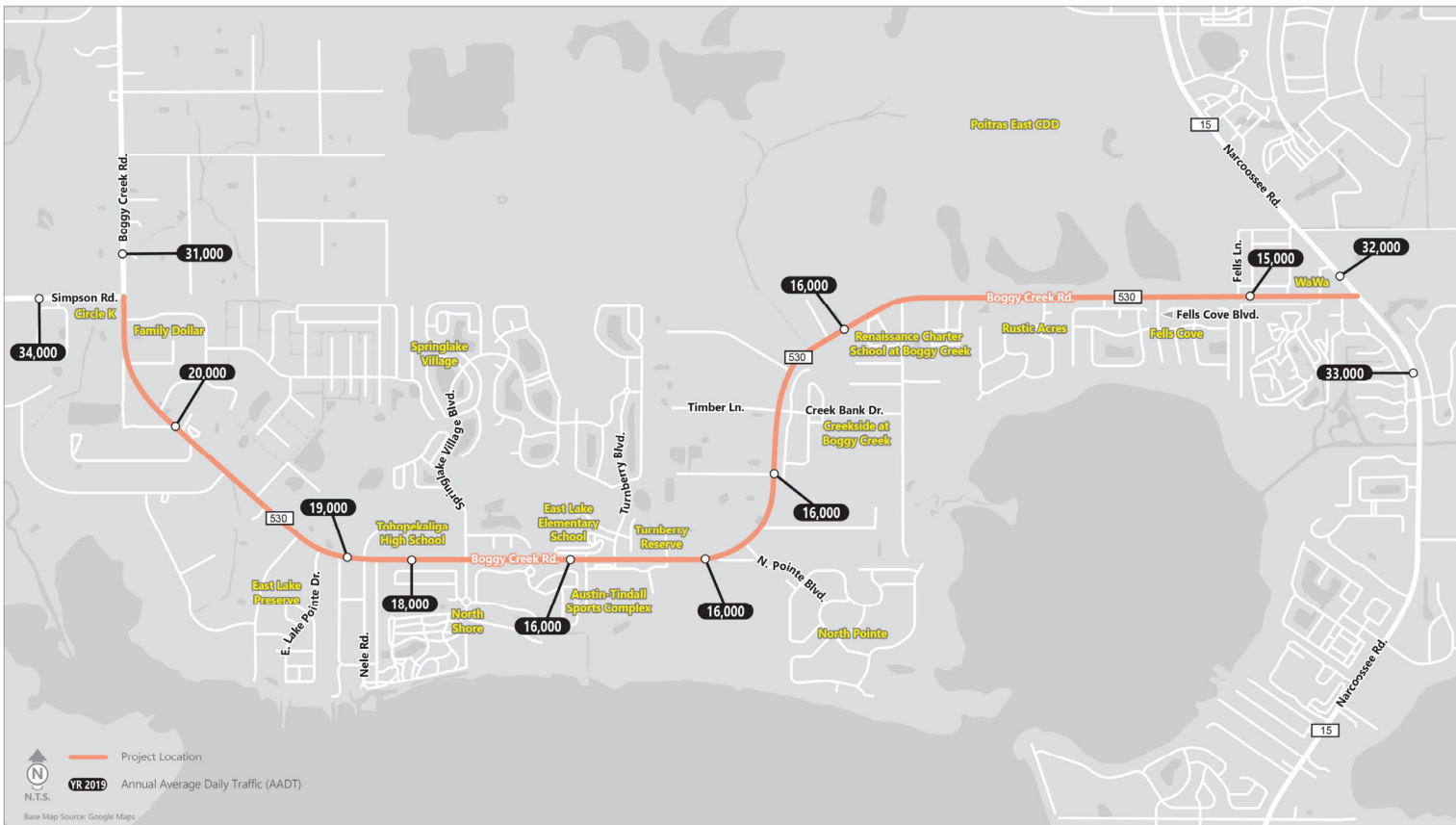
Existing Conditions



- Turn lanes at some locations
- Intermittent sidewalks
- No bicycle lanes
- Open drainage ditches



Current Traffic Volumes



Average traffic volumes range from 15,000 to 20,000 vehicles per day

Future Traffic Projections



By 2045, traffic volumes range from 36,500 and 41,500 vehicles per day



Crash History



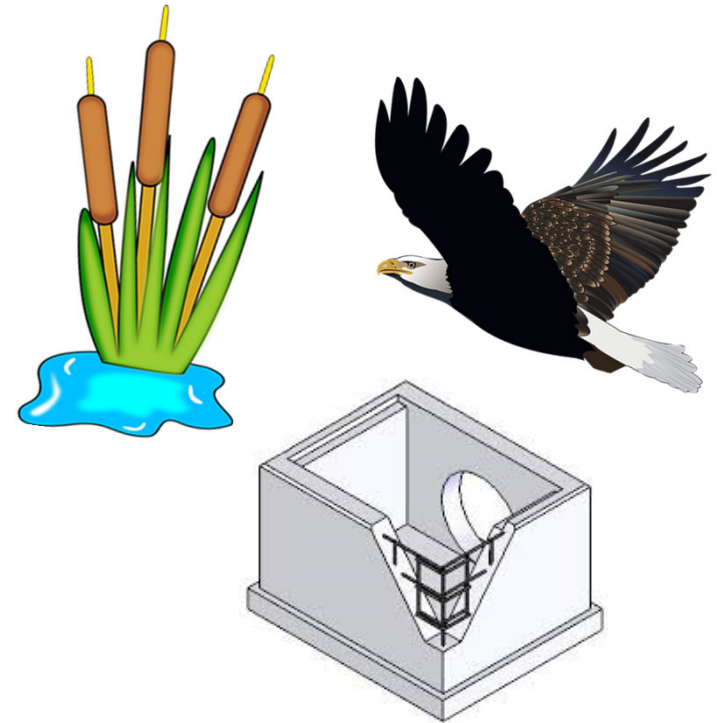
- 509 crashes (2015-2019)
- 5 fatalities
- 360 collisions at intersections
- 43% resulted in injury
- 41% rear-end crashes
- 26% involved left-turn movements



Environmental Analysis



- Project has included significant environmental analysis related to:
 - Wetlands
 - Endangered and protected species
 - Stormwater runoff
- Additional drainage infrastructure, including new water retention ponds will be needed



Public Involvement



- Public meeting held March 4, 2021
 - 74 people attended virtually
 - 20 people attended in person
- Notifications emailed to elected officials and government partners, and mailed to 3,195 property owners or tenants
- Newspaper advertisement in the Osceola News-Gazette, media release and social media post
- Meeting presentation and exhibits available to both in-person and online attendees and posted on the project web page



Public Involvement



- Close to 120 comments and questions from 52 residents have been received through the alternatives' evaluation phase so far
- None of the comments expressed opposition to the project; however, a few comments expressed concern the project does not go far enough to alleviate the congestion along the roadway
- Questions and comments generally related to concerns about impacts to specific properties, how the project will assist in improving congestion

Boggy Creek Road Improvements
Public Information Meeting
Thursday, March 4, 2021
Project Number: PS-20-11479-DG

PUBLIC COMMENT FORM

Name _____ Phone: _____
Address: _____
City: _____ State: _____ Zip: _____
Email: _____

Please use this comment form to express your opinions regarding the proposed alternatives to address capacity and safety needs on Boggy Creek Road. You may also email Osceola County Project Manager Conroy Jacobs directly at conroy.jacobs@osceola.org. Comments are always welcome. However, comments received by March 15, 2021, will become part of the record for this meeting.

COMMENTS:

Please send comments or questions via email or U.S. Mail to:

Mr. Conroy Jacobs, AICP, MPA
Osceola County Project Manager
1 Courthouse Square, Suite 3100
Kissimmee, FL 34741
Conroy.Jacobs@osceola.org

Public Involvement



- Comments and questions were related to:
 - Start and completion dates for construction/Timing of construction
 - Traffic congestion/Backups from school
 - Median access to neighborhoods
 - Difficulty of getting out of neighborhoods
 - Street lighting
 - Traffic lights
 - Extension of Simpson Road to Royal Palm requested
 - Soundwall requests
 - Wanting work done at night
 - Speed limit/Speeders
 - Do not like having to do U-turns
 - Wanting 6-lanes instead of 4-lanes
 - Storm drain questions
 - Crosswalks
 - Right-of-way acquisitions
 - New fire station details/how it affects traffic
 - Tree removal
 - Separation of bike lanes wanted
 - Impact of Osceola Parkway Extension on future traffic

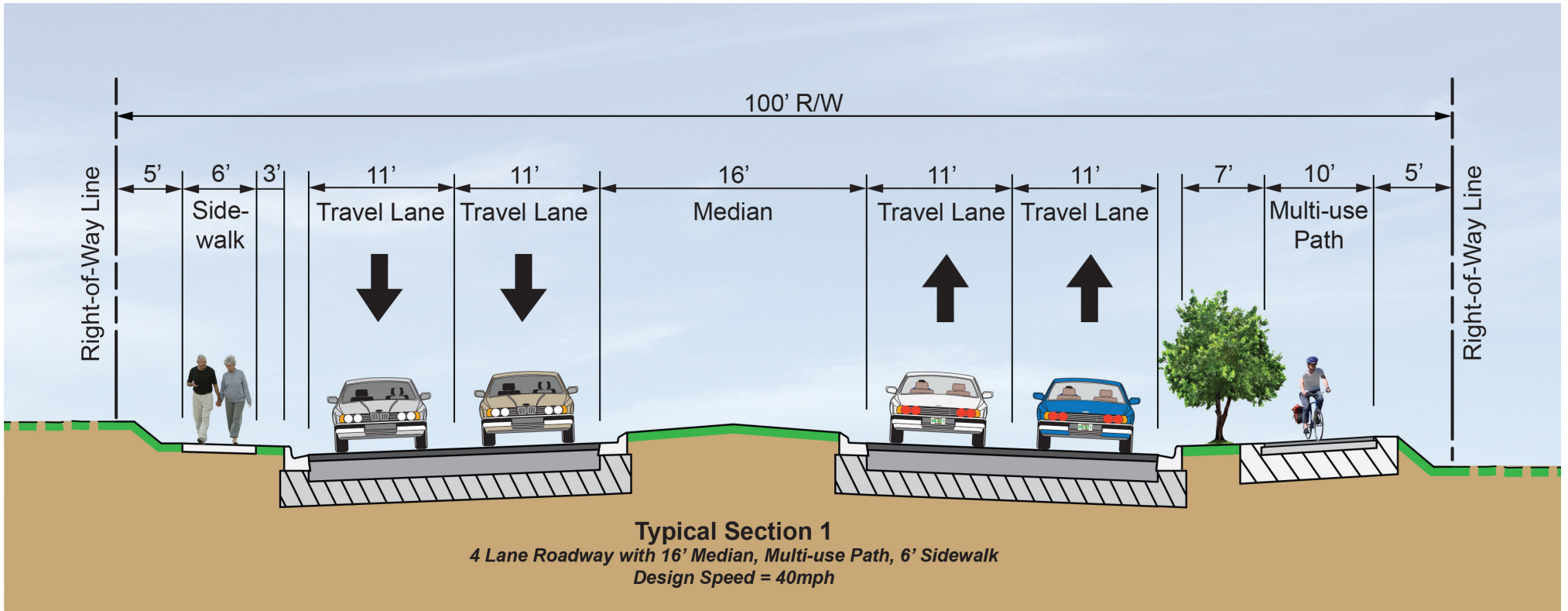
**A complete record of comments and questions is included in the comment matrix*

Alternatives Evaluated

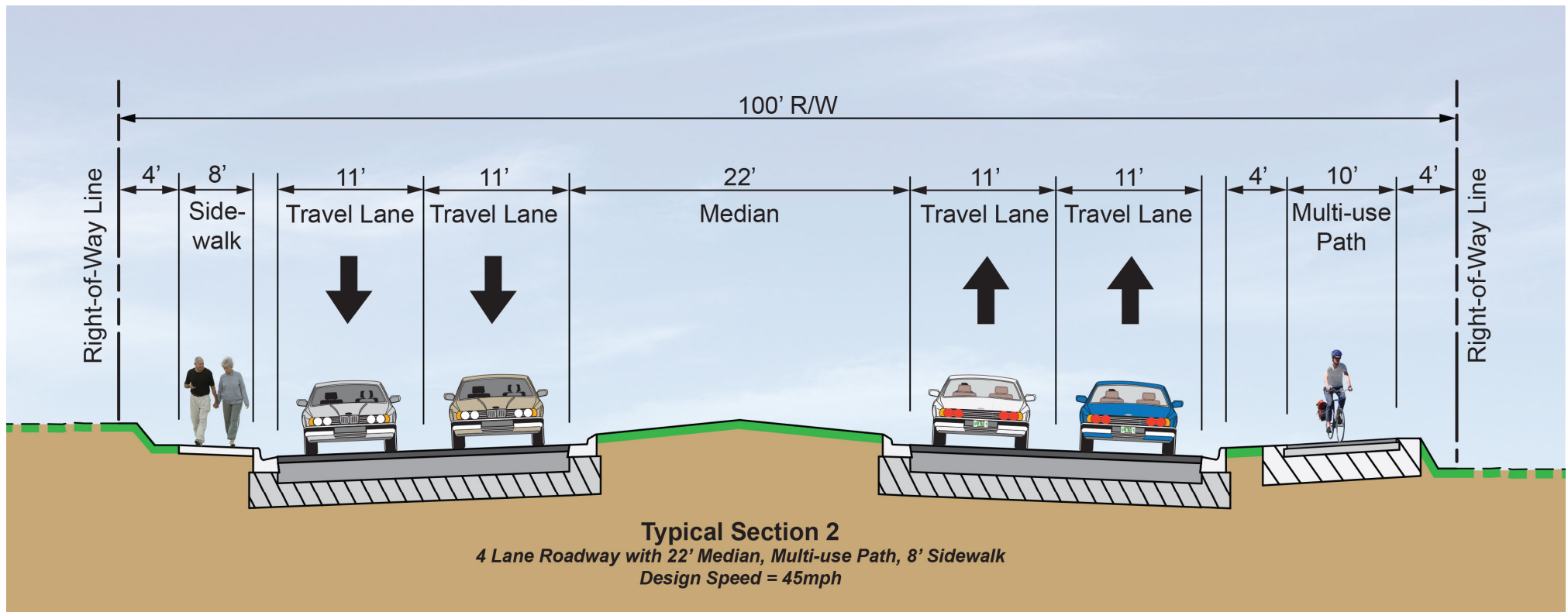


- Three typical section alternatives were evaluated
- All options provided four travel lanes with a raised center median to improve safety and reduce congestion
- All three options provided a 10-foot-wide path on the south side of the road, and either a 6-foot-wide or 8-foot-wide sidewalk on the north side of the roadway
- All alternatives provided a closed drainage system and stormwater treatment improvements
- All options provided enhancements to traffic signals and ITS operations

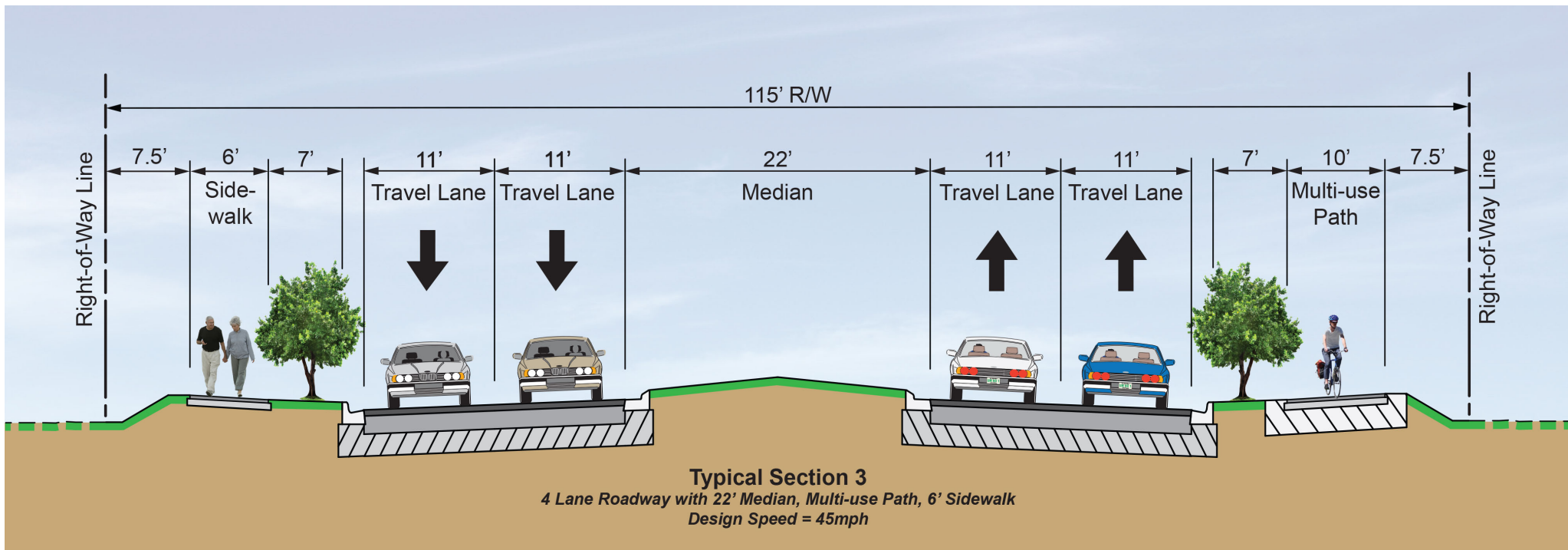
Proposed Alternative 1



Proposed Alternative 2



Proposed Alternative 3



Evaluation Matrix



	Units	No Build	Build Alternative 1	Build Alternative 2	Build Alternative 3
Right-of-Way Needs					
Right-of-Way Acreage Impacts	Acres	0	18.6	18.6	24.9
Parcel Impacts	Each	0	21	21	84
Environmental Impacts					
Floodplains	Acre-Feet	0	0.2	0.2	0.4
Wetland Impacts	Acres	0	2.1	2.1	2.2
Bald Eagle Nests	Each	0	0	0	0
Potential Contamination Sites	Each	0	2	2	6
Traffic Projections					
Level of Service	-	F	D	D	D
Preliminary Cost Estimates					
Preliminary Environmental Mitigation Cost	\$	\$0	\$264,000	\$264,000	\$336,000
Preliminary Construction and CEI Costs	\$	\$0	\$62,691,000	\$62,907,800	\$64,596,800
Preliminary Right-of-Way Costs	\$	\$0	\$4,332,000	\$4,332,000	\$8,557,000
Total Preliminary Project Cost Estimate	\$	\$0	\$67,287,000	\$67,503,800	\$73,489,800

LEGEND

Little/No Impacts

Medium Impacts

High Impacts

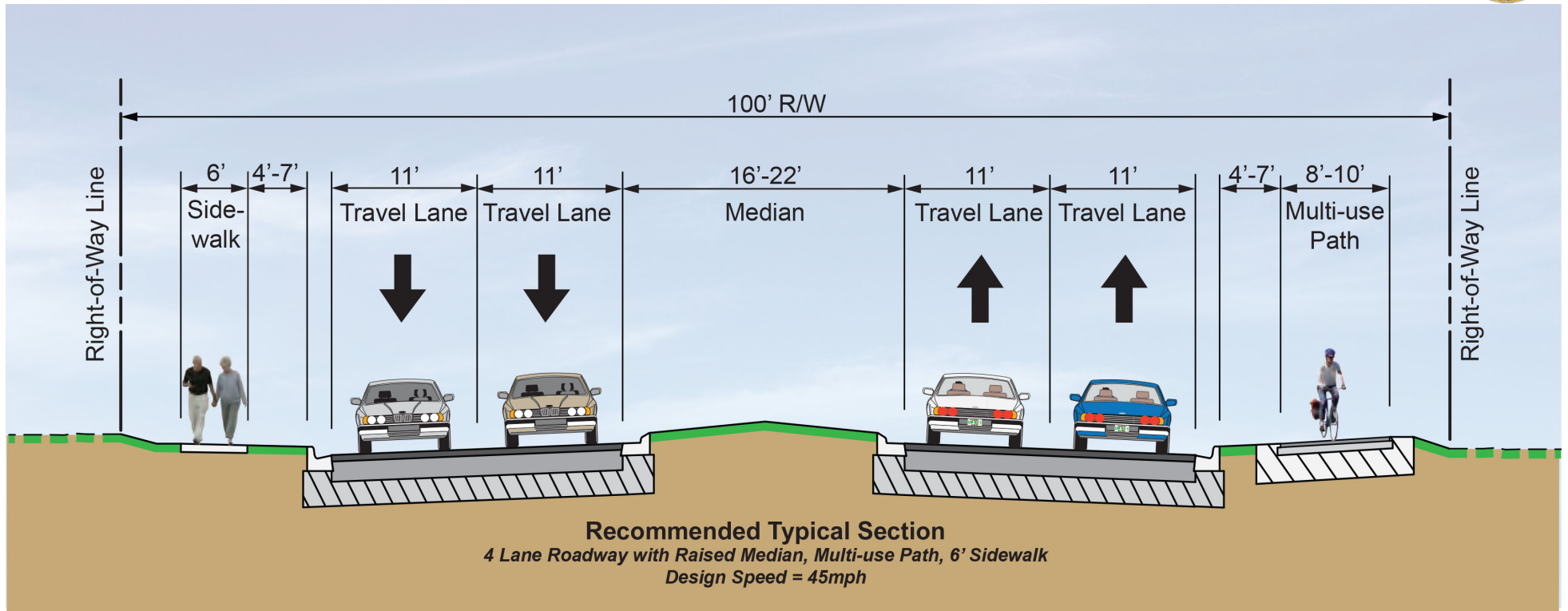
Input on Alternatives



- Few of the public comments received during the alternatives study phase favored any particular alternative
 - Three comments favored Alternative 2 as the best in the long term
 - One comment favored Alternative 1 as the lowest cost option
 - Two comments favored alternative 3 as a safer option because of the wider buffer between roadway and sidewalk
- Cost of each alternative and impacts to right-of-way were mentioned
- A few comments expressed a desire to make sure the improvements would adequately handle the future traffic needs



Alternative 2 - Refined



Recommended Alternative Dewberry®



- Recommended alternative is Alternative 2 – Refined
- Recommended Alternative features:
 - Roadway improvements to typically fit within existing ROW
 - ROW will be needed for intersection improvements and stormwater ponds
 - Sidewalk width reduced to 6 feet with a variable 4- to 7-foot-wide buffer
 - Multi-use path reduced to variable width of 8 to 10 feet wide
 - Raised median width between 16 and 22 feet
 - Two 11-foot-wide travel lanes in each direction
 - Design speed stays at 45 mph
 - Estimated overall cost remains at \$67,503,800

Project Schedule



Alternatives Evaluation

- Refine alternatives
- Staff recommendation
- BOCC to choose preferred alternative spring 2021

Final Design

- To begin spring 2021
- Completion in summer 2022

Right-of-Way

- Acquisition anticipated to begin late 2021

Construction

- Expected to begin fall 2023



Questions?