



PINE ISLAND ROAD FROM GRIFFIN ROAD TO NOVA DRIVE

Roadway Capacity Expansion Project

Public Meeting No. 2 Old Davie School House

6650 Griffin Road

Davie, Florida 33314

October 20, 2022

from 6:30 pm to 8:30 pm





BROWARD COUNTY

Senator Steven Geller
Currently Serving as the Broward County District 5 Commissioner including portions of the Broward Municipal Services District,
Davie, Plantation, Southwest Ranches, Sunrise and all of Cooper City



R.J. BEHAR & COMPANY, INC. (COUNTY DESIGN CONSULTANT)

PRESENTER

Robert J. Behar, P.E. Design Project Manager





BROWARD COUNTY PUBLIC WORKS

Trevor Fisher, P.E., Director, Public Works Department

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING STAFF

Richard Tornese, P.E., Director, Highway Construction & Engineering Carolina Bustamante, P.E., Project Manager Manuel Fontan, P.E., P.T.O.E., Project Manager Supervisor

BROWARD COUNTY TRAFFIC ENGINEERING STAFF

Scott Brunner, P.E., Director, Traffic Engineering Carmelo Caratozzolo, P.E., Traffic Operations Engineer

R.J. BEHAR & COMPANY, INC. SUPPORTING STAFF

Juan Vazquez, P.E.

Paola Riveros, P.E.

John Izquierdo, P.E.

Nanette Akyaz-Gomez, LEED AP ND

Dereth Behar

METRIC ENGINEERING, INC. – SUPPORTING STAFF (NOISE WALL)
Sergio Rios





PRESENTATION AGENDA

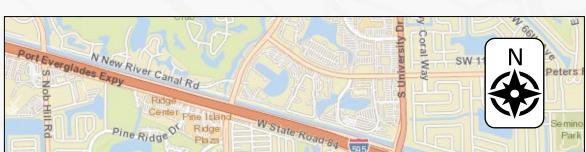
- 1. MAP Broward Video
- 2. Project Location
- 3. Project Justification
- 4. Project Scope
- 5. Typical Sections Status of Plans
- 6. Signalization
- 7. Right-of-Way Dedication
- 8. Noise Walls
- 9. Landscaping
- 10. Project Schedule













PROJECT LOCATION

Pine Island Road

from Griffin Road to Nova Drive

Communities and Other Landmarks

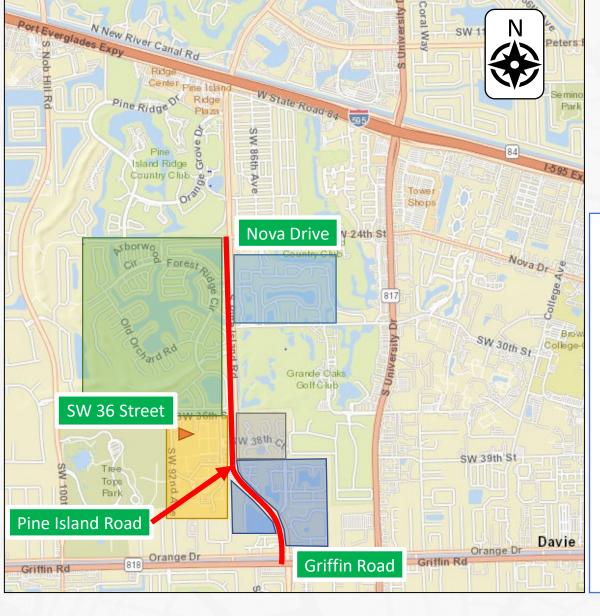
Forest Ridge

Bamford Park

Silver Ridge **Elementary School**

- The Harvest
- **Arrowhead Country** Homes
- Rolling Hills Lake **Estates**
- Oak View Estates
- Isla Merita

- Reflections
- **Old Country Manor**
- Woods of Rolling Hills **Alpine Woods**
 - Calico Country
 - Pine Island Bay
 - Cimarron





PROJECT JUSTIFICATION





Transportation Improvement Program

FY 2018/2019 - FY 2022/2023

Note: Revisions / amendments to this document can be found at the website below.

ADOPTED July 12, 2018
EVISED November 16, 2018
ase find us at:

owardmpo.org/index.php/core-products/



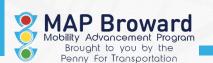
Move People & Goods | Create Jobs | Strengthen Communities

100 West Cypress Creek Road, 6th Floor, Suite 650 Fort Lauderdale, FL 33309-21122

For complaints, questions or







BROWARD COUNTY FLORIDA

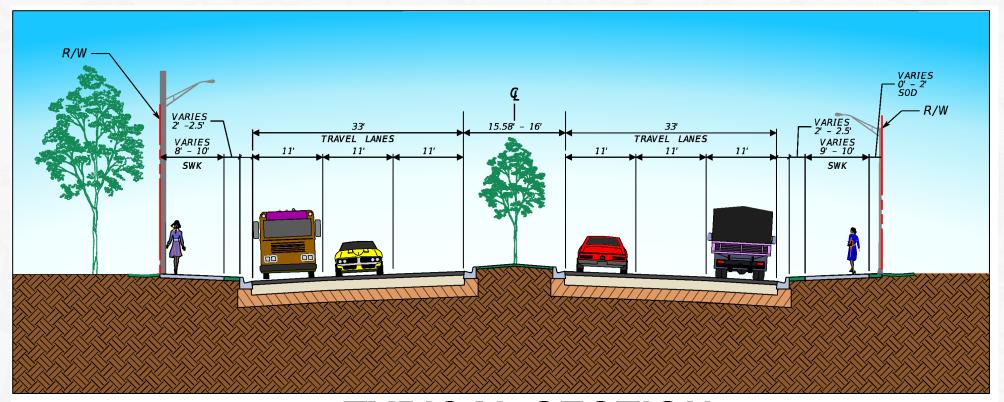
PROJECT SCOPE

- **➤ Widen Pine Island Road from 4 Lanes to 6 Lanes**
- New Drainage System
- > Accessibility Improvements
- Shared-Use Path
- ➤ Modify Signalized Intersection at Griffin Road, Orange Drive, SW 30th Street, SW 36th Street, and Nova Drive
 - Signal Warrant Study at: Forest Ridge Boulevard & Alpine Woods Road
- ➤ New Bulkhead Wall Along the Existing Canal to the East
- New Signing & Pavement Marking
- > Potential Noise Wall
- > New Lighting
- > Landscaping





TYPICAL SECTION PINE ISLAND ROAD

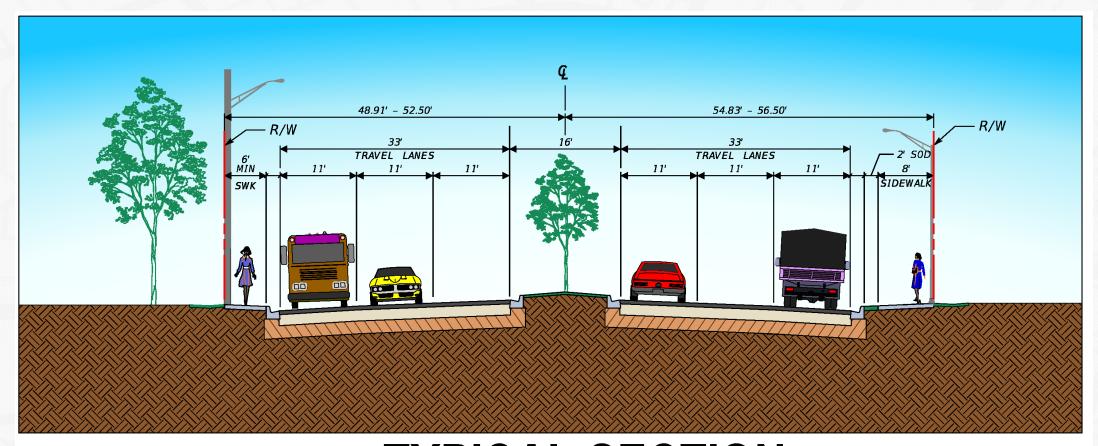


TYPICAL SECTION Griffin Road to Bamford Park & Bamford Park to SW 36th Street





TYPICAL SECTION PINE ISLAND ROAD

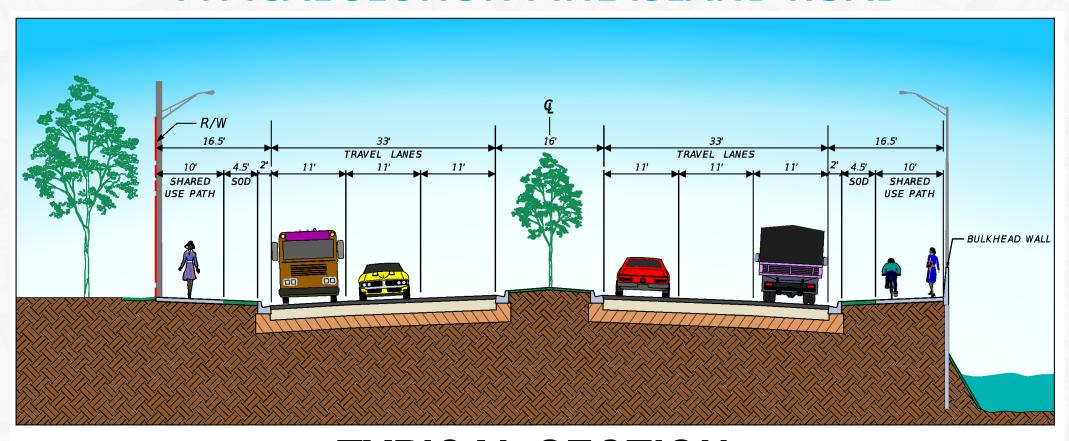


TYPICAL SECTION Vicinity of Bamford Park





TYPICAL SECTION PINE ISLAND ROAD



TYPICAL SECTION North of SW 36th Street to Nova Drive



SHARED-USE PATH NORTHBOUND







SHARED-USE PATH SOUTHBOUND

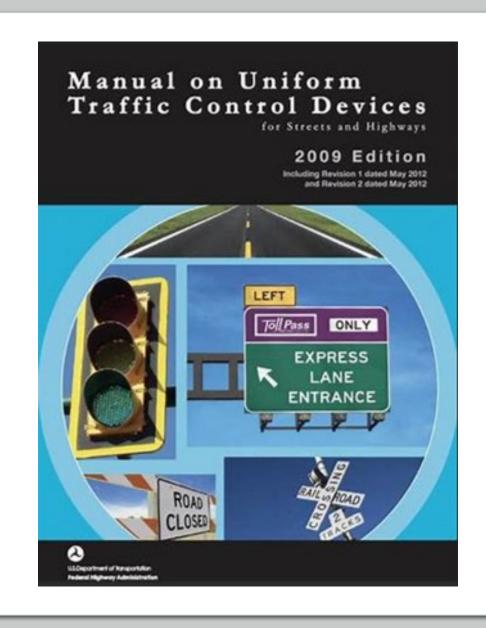






SIGNAL APPROVAL (WARRANT) PROCESS

- An engineering study shall be performed.
- Signal warrant studies are performed in accordance with the <u>Manual on Uniform</u> <u>Traffic Control Devices</u>.







SIGNAL APPROVAL (WARRANT) PROCESS

MUTCD Requires Nine Traffic Signal Warrants to be Evaluated, as Applicable:

- Warrant 1, Eight-Hour Vehicular Volume
- Warrant 2, Four-Hour Vehicular Volume
- Warrant 3, Peak Hour
- Warrant 4, Pedestrian Volume
- Warrant 5, School Crossing
- Warrant 6, Coordinated Signal System
- Warrant 7, Crash Experience
- Warrant 8, Roadway Network
- Warrant 9, Intersection Near at Grade Crossing





SIGNAL APPROVAL (WARRANT) PROCESS

- Most traffic agencies, including Broward County and FDOT, require at least Warrant 1 to be satisfied.
- If Warrant 1 is not satisfied, Warrants 2 thru 9 may be considered.
- The criteria applied to the volume-based warrants may be reduced based on engineering judgement considering such factors:
 - Crash History
 - Speed
 - Intersection Geometry
 - Other Safety and Operational Factors





PINE ISLAND ROAD & FOREST RIDGE BOULEVARD

Warrants	Satisfied?
1. Eight-Hour Vehicular Volume	Yes
2. Four-Hour Vehicular Volume	Yes
3. Peak Hour	N/A
4. Pedestrian Volume	N/A
5. School Crossing	N/A
6. Coordinated Signal System	N/A
7. Crash Experience	No
8. Roadway Network	N/A
9. Intersection Near a Grade Crossing	N/A

RESULTS:

- Posted speed = 40 MPH
- 85th % Speeds:
 - NB=48 MPH
 - SB=57 MPH
- 7 crashes in 5 years





SIGNALIZATION STUDY RESULTS PINE ISLAND ROAD & FOREST RIDGE BOULEVARD

- Warrants 1 and 2 Satisfied
- Additional Road-Characteristic Considerations Due to the Expansion Project:
 - New thru-lane increases travel distance to median for EB left turn motorists
 - Median width is reduced from 28.5 feet to 16.0 feet





RECOMMENDATION PINE ISLAND ROAD & FOREST RIDGE BOULEVARD

Install Traffic Signal at Forest Ridge Boulevard

Requires Public Right-of-Way Dedication

Operational Impacts:

- May introduce added delays on Pine Island Road in this vicinity based on operational analysis.
- Outbound traffic from Forest Ridge Boulevard may experience longer waits during off peak hours.





PINE ISLAND ROAD & ALPINE WOODS ROAD

Warrants	Satisfied?
1. Eight-Hour Vehicular Volume	No
2. Four-Hour Vehicular Volume	No
3. Peak Hour	N/A
4. Pedestrian Volume	N/A
5. School Crossing	N/A
6. Coordinated Signal System	N/A
7. Crash Experience	No
8. Roadway Network	N/A
9. Intersection Near a Grade Crossing	N/A

RESULTS:

- Posted speed = 40 MPH
- 85th % Speeds:
 - NB=43 MPH
 - SB=52 MPH
- 4 crashes in 5 years
- No Traffic Signal Warrants Satisfied

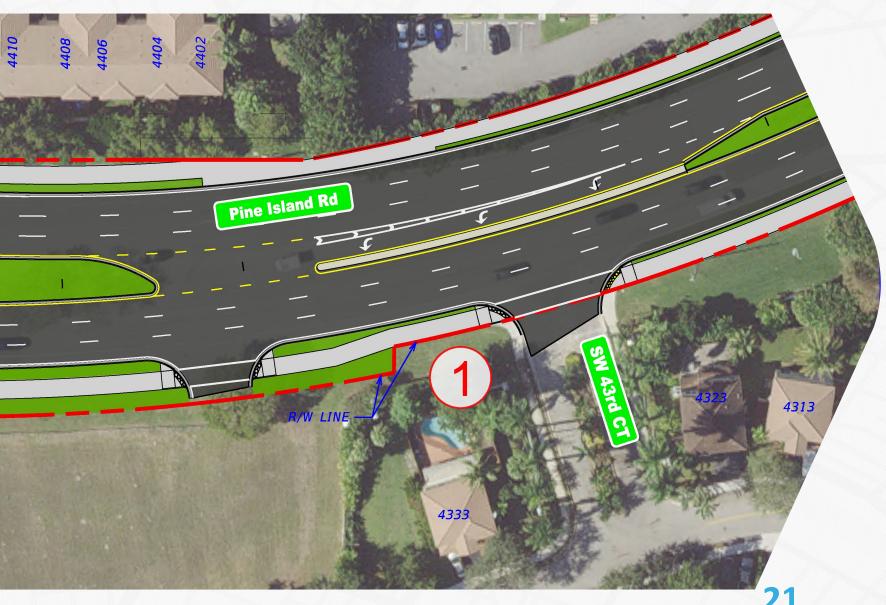


RIGHT-OF-WAY DEDICATION



REFLECTIONS SW 43rd Court

- Required to Accommodate Right Turn Lane into SW 43rd Court
- Reflections HOA to Contact Broward County HCED
- Deadline for Right-of-Way Dedication – February 2023





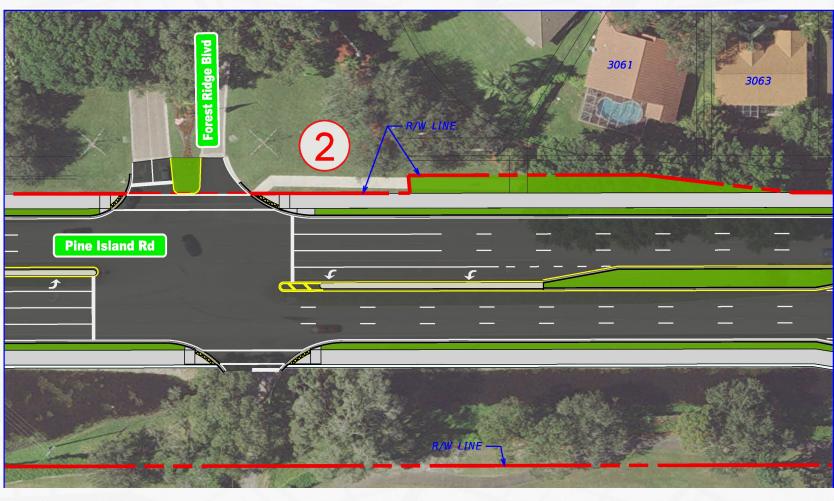
RIGHT-OF-WAY DEDICATION



FOREST RIDGE HOA

Forest Ridge Boulevard

- Required to Accommodate Right Turn Lane into Forest Ridge Boulevard
- Required for the County to Design and Construct Traffic Signal
- Forest Ridge HOA to Contact Town of Davie Engineering

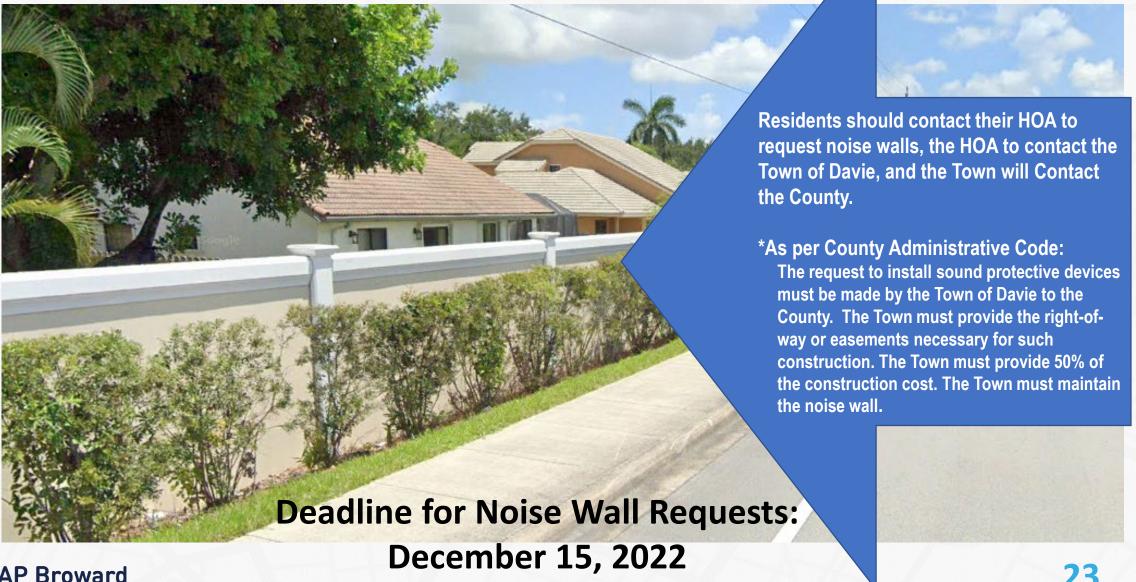


Deadline for Right-of-Way Dedication – February 2023



NOISE WALLS





Penny For Transportation



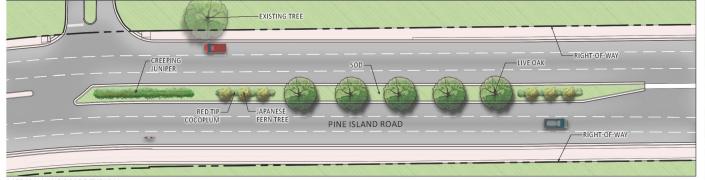
NOISE WALL POTENTIAL LOCATIONS





LANDSCAPING

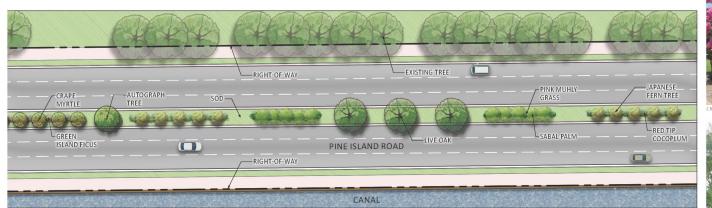






MEDIAN LANDSCAPE TYPICAL

MEDIAN LANDSCAPE TYPICAL



SOUTHERN LIVE OAR



PLANT SCHEDULE

TREES/ PALMS

SCIENTIFIC NAME * CLUSIA ROSEA FILICIUM DECIPIENS

* NATIVE SPECIES

JAPANESE FERN TREE LAGERSTROEMIA I. 'PINK CRAPE MYRTLE * QUERCUS VIRGINIANA SOUTHERN LIVE OAK

* SABAL PALMETTO SABAL PALM

COMMON NAME

AUTOGRAPH TREE

SHRUBS SCIENTIFIC NAME

* CHRYSOBALANUS I. 'RED TIP' FICUS M. 'GREEN ISLAND'

GREEN ISLAND FICUS * MUHLENBERGIA CAPILLARIS PINK MUHLY GRASS JUNIPERUS HORIZONTALIS CREEPING JUNIPER

COMMON NAME

RED TIP COCOPLUM





PROJECT SCHEDULE



PROJECT MILESTONES



Survey, Geotechnical

Public Meeting 2

Plans Development

Permit Approvals

- Complete

- October 20, 2022

- March 2022 to November 2023

- March 2022 to October 2023

★ CONSTRUCTION

Begin Tree Relocation

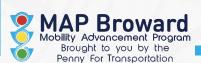
Begin Construction (Roadway)

End Construction

- Fall 2023

- Spring 2024

- Summer 2026





THANK YOU FOR ATTENDING!

Thank you for your interest in the Pine Island Road Improvements.
POINTS OF CONTACT FOR COMMENTS, QUESTIONS, OR CONCERNS:

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Design Consultant

Robert Behar, PE

Phone: 954-680-7771

Email: pineislandroad@rjbehar.com

Email: bbehar@rjbehar.com

Comment Cards are Located in the Back of the Room

Information Related to the Project Can be Found at the Link Below:

https://www.broward.org/BCEngineering/Pages/CapitalProjectsPublicInvolvement.aspx

