

NW 7th Avenue & NW 9th Avenue Connector Roadway

For:



Presented By:



R.J. Behar & Company, Inc.
Engineers • Planners

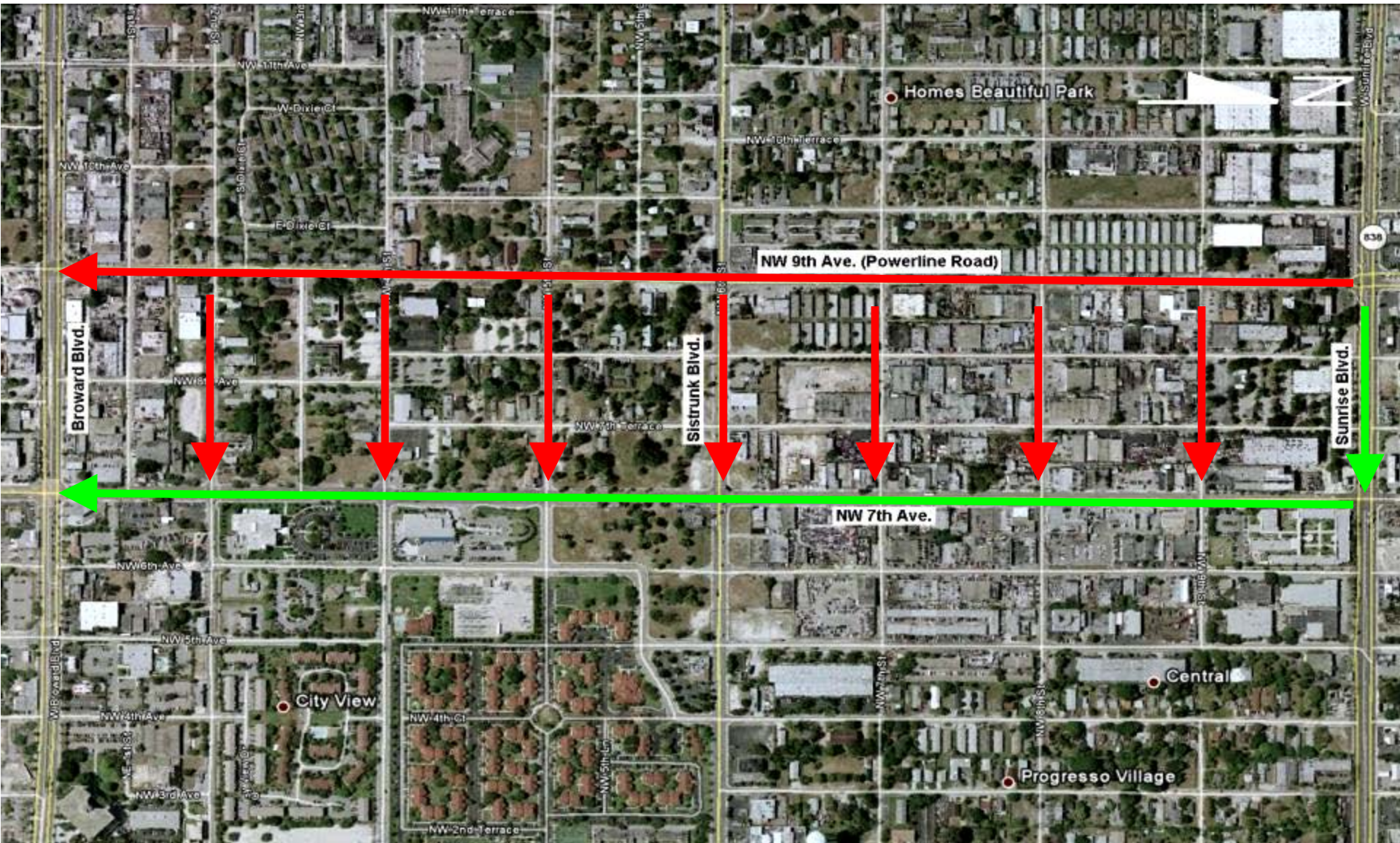
PROJECT LIMITS



Purpose - Skewed Traffic Flow



Purpose - Neighborhood Cut-Through Traffic



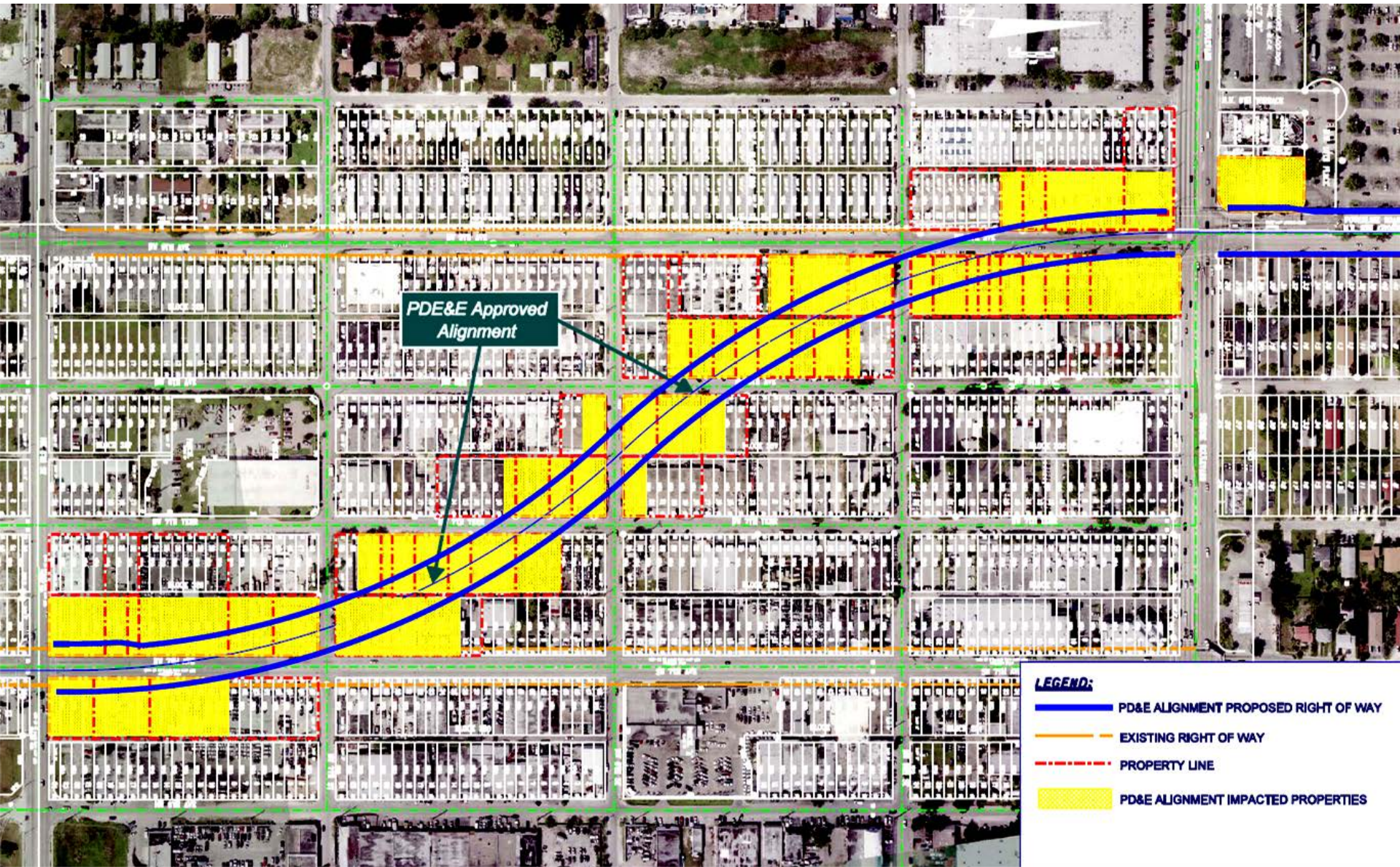
History of Project

- PD&E was completed in 2003.
- In 2008, RJB was issued NTP to produce 60% plans based on approved PD&E.
- Based on PD&E, FDOT estimated ROW costs to be approximately \$110 million.
- City requested that the footprint be re-aligned & reduced to decrease ROW cost.
- New alignment shown in 60% plans has reduced ROW cost from \$110 million to \$34 million.

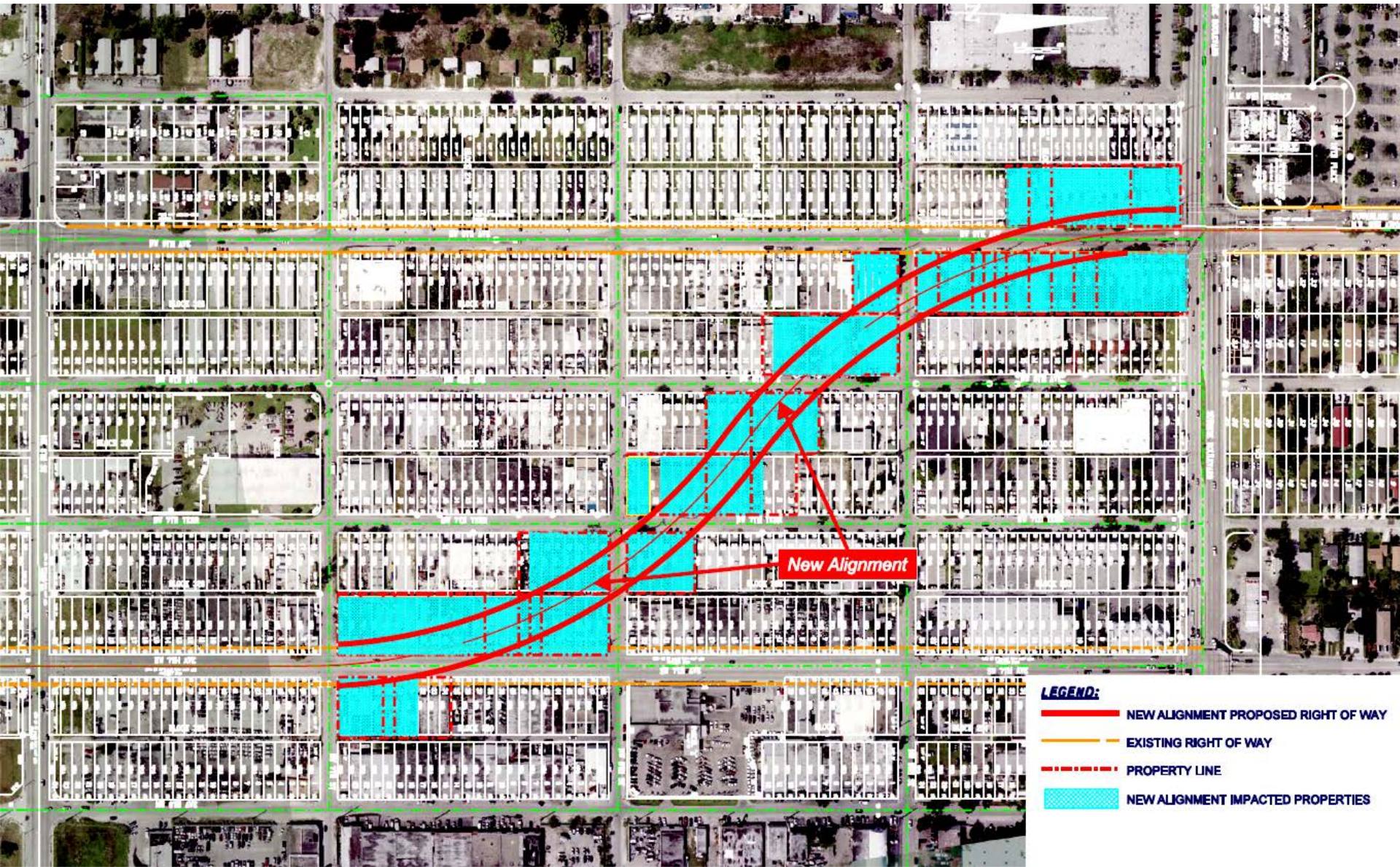
NW 7TH AVE



Alignment Comparisons



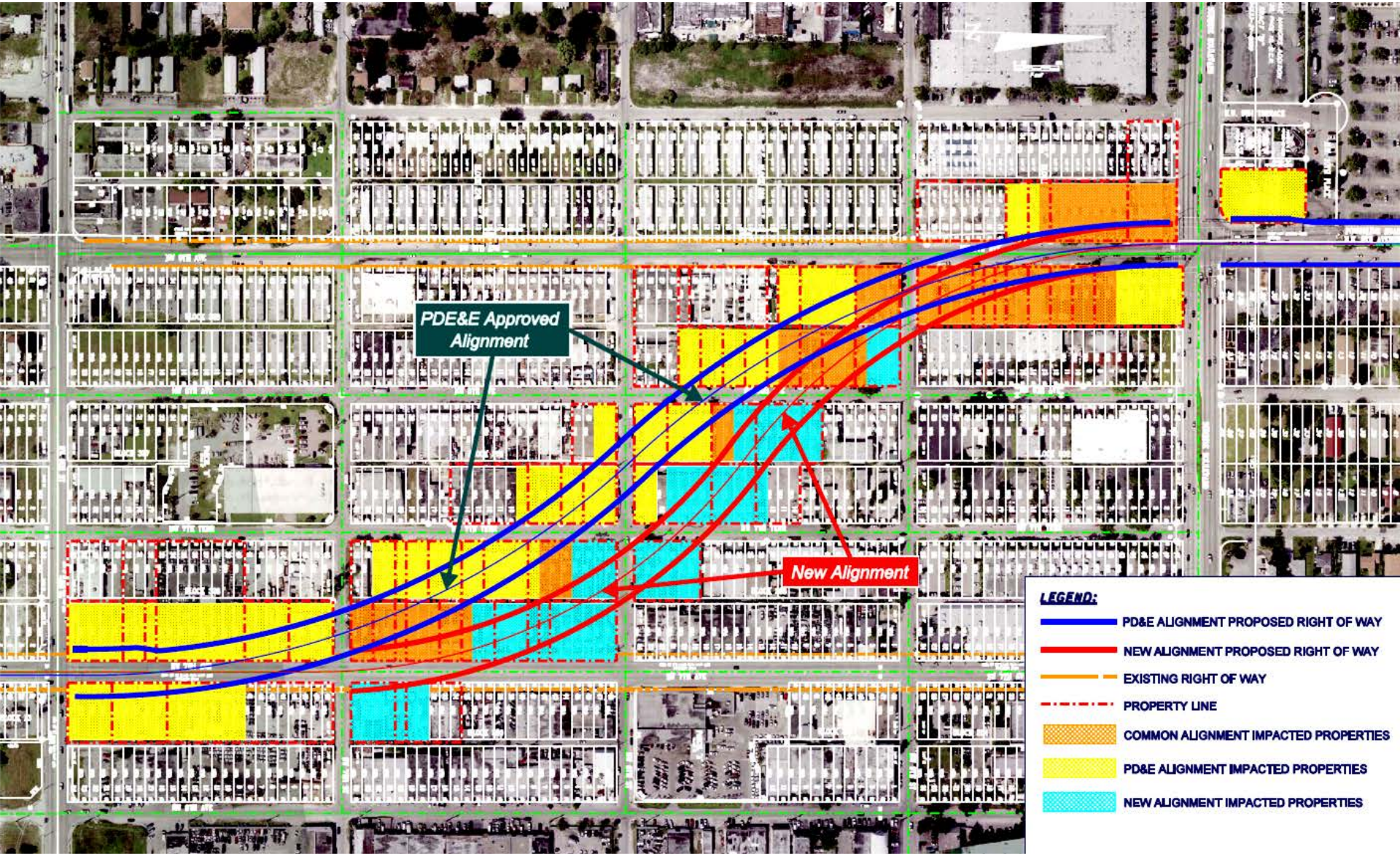
Alignment Comparisons



- LEGEND:**
- NEW ALIGNMENT PROPOSED RIGHT OF WAY
 - - - EXISTING RIGHT OF WAY
 - - - PROPERTY LINE
 - NEW ALIGNMENT IMPACTED PROPERTIES



Alignment Comparisons



R/W Estimate Comparisons

DISTRICT 4 2009 RIGHT OF WAY COST ESTIMATE

DISTRICT 4 2011 RIGHT OF WAY COST ESTIMATE

Date: November 4, 2009
To: Ron Wallace/Arleen Dano Project Managers
From: Thomas Stepp, Cost Estimate Manager
By: John Panos
Copies: S. Miller-Novello, J. Wolf, D. Forte, A. Adams
 C. Balogh, W. Taylor, V. Neilly, V. Ramos, M. Rodwell, C. Balderes, Records

Date: June 24, 2011
To: Ron Wallace/Arleen Dano Project Managers
From: Thomas Stepp, Cost Estimate Manager
By: Thomas Stepp
Copies: S. Miller-Novello, J. Wolf, D. Forte, A. Adams, Leslie Wetherell, Cassandra Lamey
 C. Balogh, W. Taylor, V. Neilly, V. Ramos, M. Rodwell, C. Balderes, Records

FM Number: 2307261
Fed. Project No.: n/a
County: Broward
State Road No.: NW 7th Ave/NW 9th Ave
Local Description: Realignment Connector

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Totals > **\$107,725,962**

Totals > **\$33,807,950**

The current estimate, the previous estimate, and the phase differentials are listed below:

R/W Phase	* New * * Estimate *	Previous Est 08/20/07	Estimate Difference
4B	8,516,500	8,000,500	516,000
41	1,088,000	1,088,000	0
42	4,780,804	4,055,095	725,709
43	92,103,658	92,154,544	-50,883
45	1,237,000	1,207,000	30,000
Totals >	\$107,725,962	\$106,505,136	\$1,220,826

R/W Phase	Option 1 Flat Curve	Previous Est. 06/30/10	Estimate Difference	Feature	Count
4B	3,282,300	4,884,300	-1,602,000	Acquisition sf	286,933
41	672,000	600,000	72,000	Bsn Dmg Prcls	14
42	2,289,435	2,042,074	247,361	Bsn Dmg Claims	21
43	26,624,215	27,303,701	-4,679,486	Resdntl Relos	1
45	940,000	828,000	120,000	Business Relos	24
Totals >	\$33,807,950	\$39,650,075	-\$5,842,125	Demolitions	22

History: 08/20/99 11/24/04 08/21/06 08/20/07 07/31/08 11/04/09

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Confidence Level: Below Average. Old preliminary plans have been used.

Confidence Level: Below Average. Acquisition sizes have not been provided - scaled calculations have been used.

Comments: Phase 43 Land values for the majority of the parcels have been adjusted downward to reflect current economic conditions. This has been offset by the increased costs of the improvements. Phase 4B and Phase 42 have been increased due to the rising costs of these services.

Comments: The projected costs have been reduced since the previous estimate dated 06/03/10. Recent market data has indicated lower unit costs and some cost estimate factors have also been reduced. Hazardous waste costs have been removed from the project's Phase 4B category. Approximately 3.3 acres of water retention are included in the project. The pond design has been modified since the previous report. This has caused the parcel count to increase and it also has resulted in higher costs for Phase 41, Phase 42, and Phase 45.

PD&E APPROVED ALIGNMENT

VS. PROPOSED MODIFIED ALIGNMENT



Progress Made to Date

1. Created re-evaluation report for the PD&E approved corridor
2. Set ground targets for photogrammetric survey
3. Collected photogrammetric survey
4. Coordinated with the utility companies
5. Performed public meeting
6. Performed alignment analysis
7. Produced 60% plans
8. Prepared construction cost estimates
9. Performed environmental assessment for some properties
10. Performed public meeting

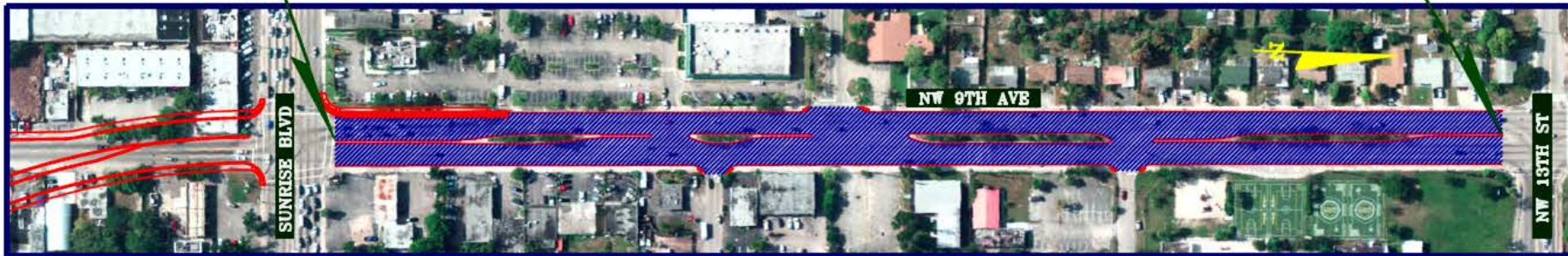
NW 7TH AVE



7th and 9th Connector (Milling & Resurfacing)

BEGIN MILLING
 STA 92+90.00

END PROJECT
 END MILLING
 STA 111+00.00



BEGIN PROJECT
 BEGIN MILLING
 STA 30+31.13

BEGIN MILLING
 STA 37+28.52



END MILLING
 STA 35+83.26

END MILLING
 STA 62+74.48

BEGIN MILLING
 STA 63+95.47

END MILLING
 STA 69+90.12

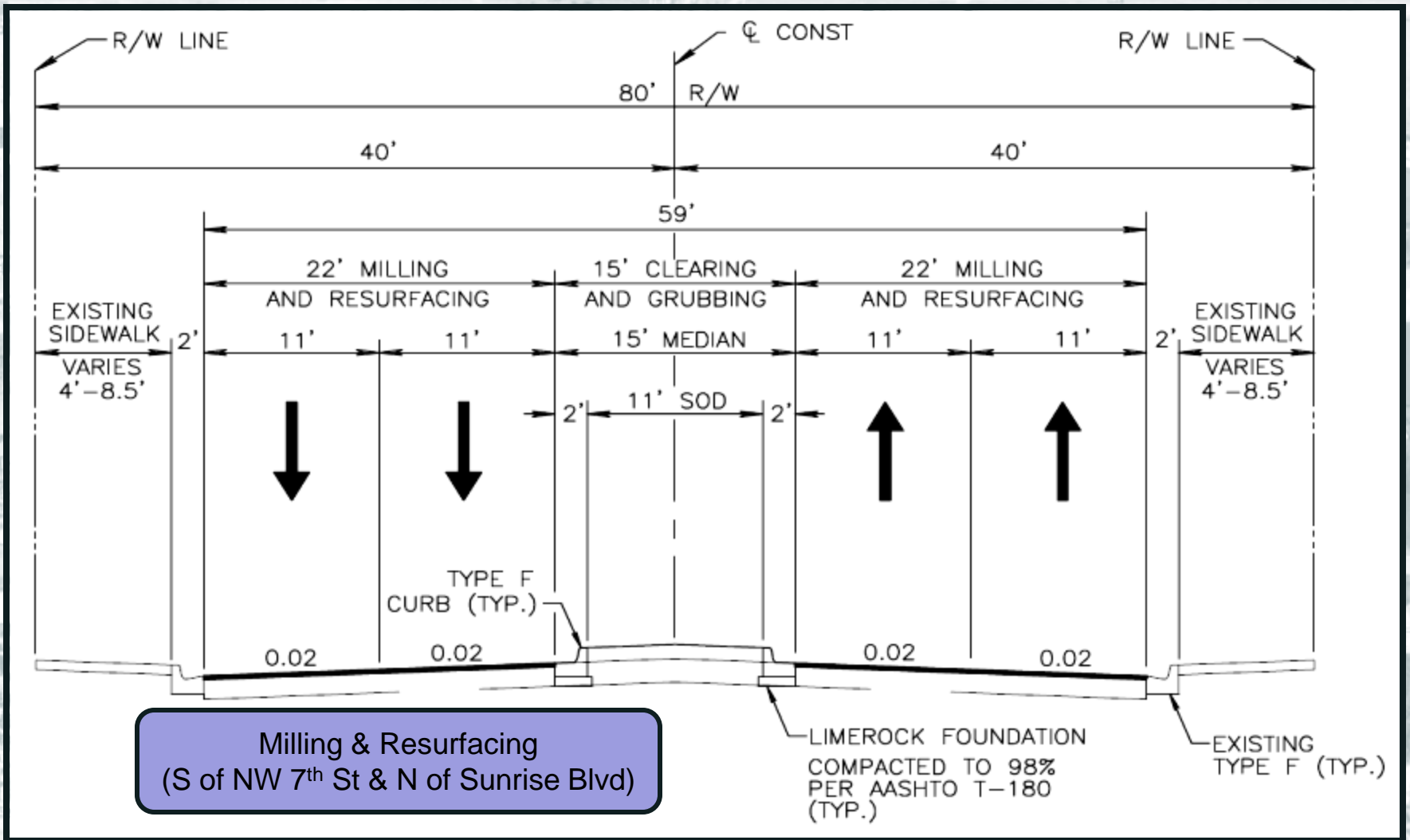


LEGEND:

- WIDENING
- MILLING



Proposed Typical Sections



Milling & Resurfacing
(S of NW 7th St & N of Sunrise Blvd)

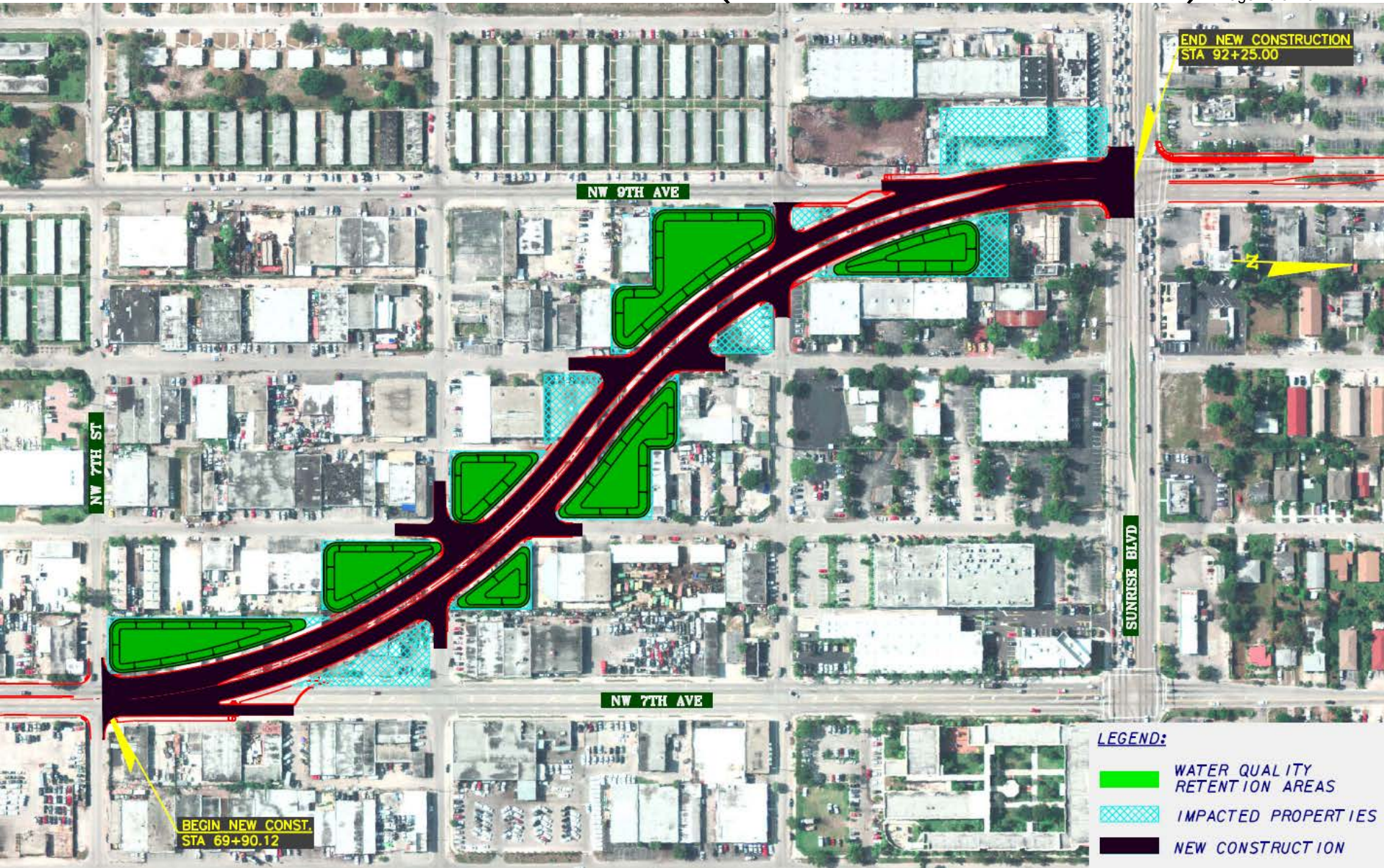
LIMEROCK FOUNDATION
COMPACTED TO 98%
PER AASHTO T-180
(TYP.)

EXISTING
TYPE F (TYP.)




NW 7TH AVE



7th and 9th Connector (New Construction)

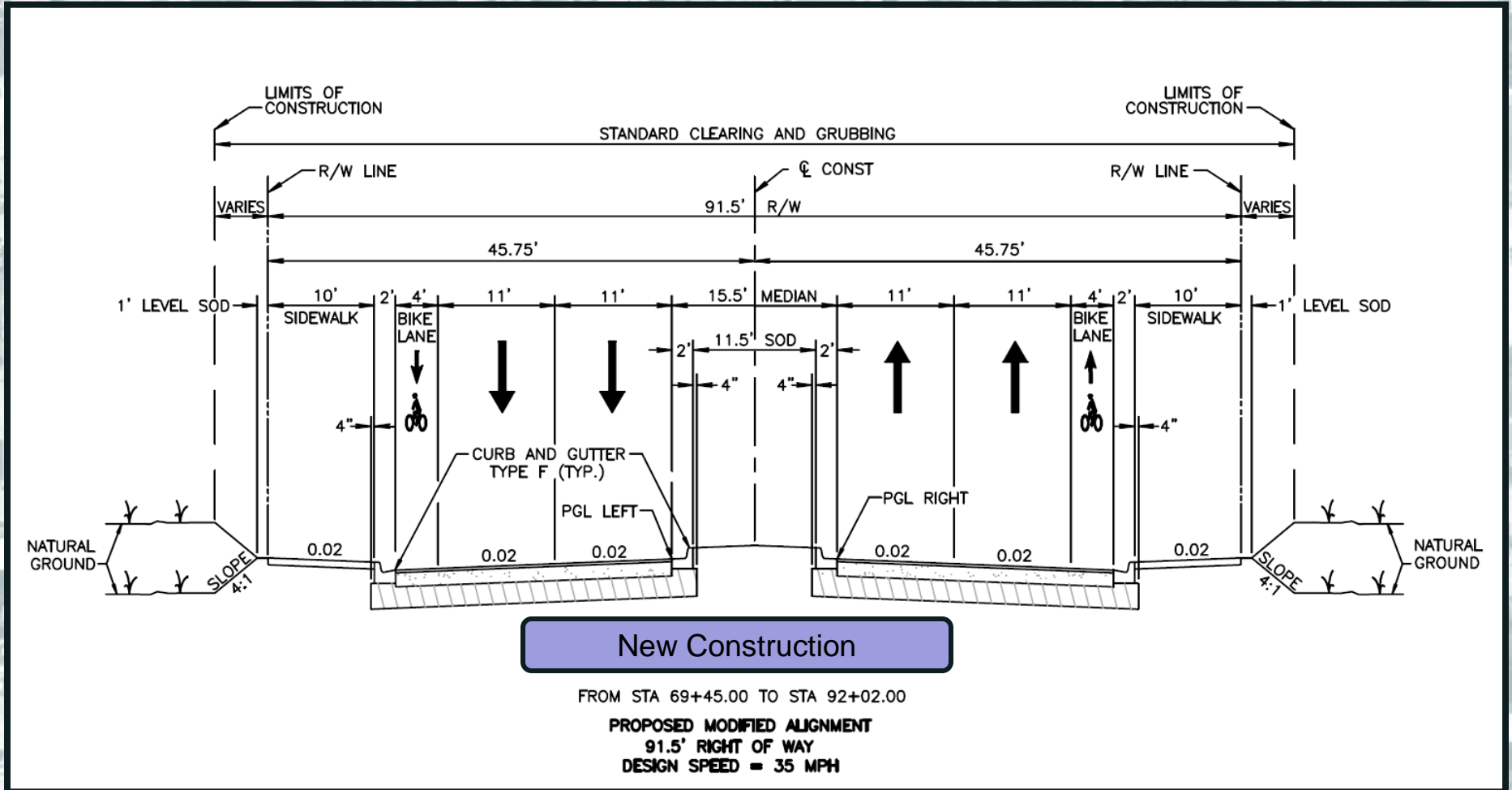


LEGEND:

-  WATER QUALITY RETENTION AREAS
-  IMPACTED PROPERTIES
-  NEW CONSTRUCTION

Proposed Typical Sections

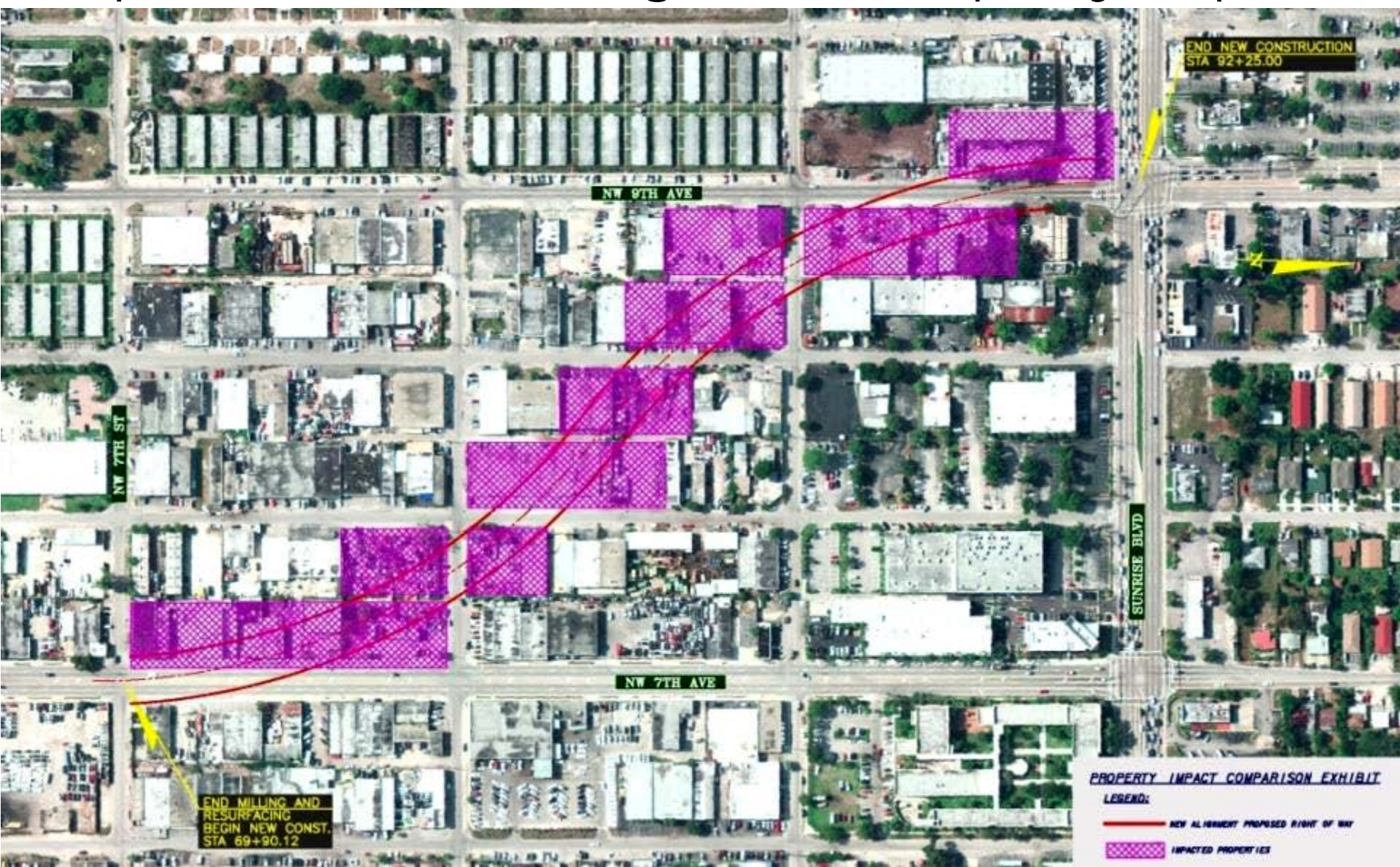
NW 9TH AVE



NW 7TH AVE



Proposed Modified Alignment Property Impacts



Remaining Work

1. Engineering

- Finalize Construction Documents
 - Reevaluation (Possible)
 - Possible need to re-survey
 - 100% Plans
- Specifications
- Utility Relocation Schedules
- FHWA Approval
- FDOT LAP Coordination
- ROW Acquisition Maps

2. Environmental

- Contamination Assessment & Remediation

3. Permitting

- Drainage
- Broward County Traffic

4. Construction

Estimated Project Cost

Engineering Design

Final Design	\$ 400,000
New Survey	\$ 25,000
Right-of-Way Acquisitions Maps	\$ 475,000
Right-of-Way Acquisition*	<u>\$ 34,000,000</u>
Total	\$ 34,900,000

Pre- Construction

Contamination Screening	\$ 325,000
Environmental Remediation (clean-up)	<u>\$ 2,000,000</u>
Total	\$ 2,325,000

Roadway Construction

\$ 6,500,000

*Note: This was based on previous analyses and needs to be reanalyzed.

Total Cost **\$ 43,725,000**

Commission Decision Points

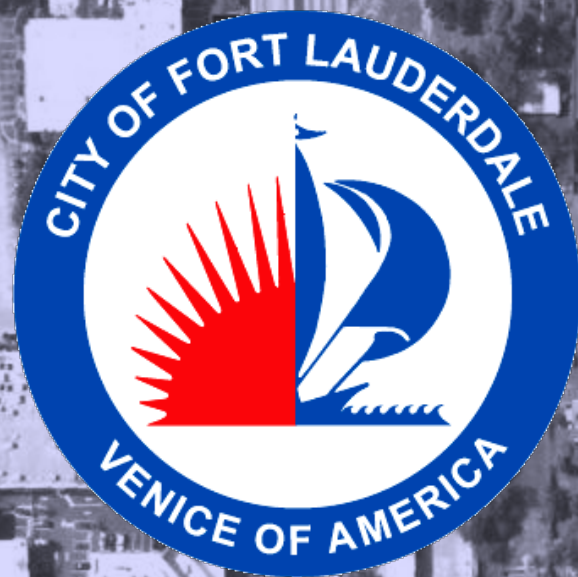
- Commission direction/support with proceeding on this project
- Continued MPO priority
- Commence 100% design
- Review environmental screening results and project viability with FDOT
- FHWA/FDOT/County approval

NW 7TH AVE



NW 9TH AVE

Questions?



NW 7TH AVE

 **R.J. Behar & Company, Inc.**
Engineers • Planners

Environmental Screening Process

- Required by FHWA / FDOT
- Conducted contamination screening evaluation of select properties along new roadway
 - Compiled Historical Uses
 - Reviewed Current Uses
 - Reviewed Regulatory Records for Contamination
- Assigned rankings “No”, “Low”, “Medium” and “High” to sites
- Conducted soil & groundwater testing, ground-penetrating radar & electromagnetic surveys on selected medium & high risk sites



SITES EVALUATED DURING CSER



SITES EVALUATED FOR CONTAMINATION



Sample Contamination Testing

Screening Requirements

- 96 - Sites evaluated during screening process
- 54 - Sites identified as “High” and “Medium” risk Sites

Performed Screening

- 24 - Sites selected for testing on 4 Sites/6 Parcels (Based on location and proximity to proposed corridor and ponds)

Results

- Contaminated soils found on 2 Sites
- Possible underground tanks/structures identified on 3 Sites