







Public Works Department

NW 8TH AVENUE SEGMENT B DESIGN

Stefan Broadus Public Works December 4, 2014





- 1. History
- 2. Limits
- 3. Section A
- 4. Section C
- 5. Section B Trial
- 6. Section B Options
- 7. Cost Estimates
- 8. Schedule

HISTORY



- March 8, 2011 Fifth Avenue neighborhood association
- March 29, 2011 University Park neighborhood association
- April 10, 2011 Landmark Woods HOA
- April 14, 2011 Woodland Terrace HOA
- April 21, 2011 Bicycle Pedestrian Advisory Board (BPAB)
- May 11, 2011 Public Meeting at Westside Park
- March 22, 2012 Bicycle Pedestrian Advisory Board (BPAB)
- July 25, 2012 Technical Advisory Committee (TAC)
- July 25, 2012 Citizens Advisory Committee (CAC)
- July 26, 2012 Bicycle Pedestrian Advisory Board
- October 30, 2012 City Commission Public Workshop





December 11th, 1995

- Recommendation: The Public Works Committee recommended the City Commission authorize the City Management (Traffic Engineering) to contract with JHK and Associates to perform the analysis of traffic lane reductions on NW 8th Avenue and in the Gainesville Central City District at their fixed fee amount of \$2,700.
- Motion: A motion was made by Commissioner Delaney, seconded by Commissioner Delaney, that this matter be Approved and Remain in Committee. The motion carried unanimously.



HISTORY



Prepared by Arnall Downs and Larkin M. Sullivan Drawn by Larkin M. Sullivan City Beautification Board May 23rd, 1995





October 1, 2008

 NW 8th Avenue added to the FY 2009-2013 Capital Improvement Plan with \$4M allocated funding from the Local Option Gas Tax.

<u>December 3, 2009</u>

 City of Gainesville enters into a contract Comprehensive Engineering Services for design. Original scope defined as "...milling and resurfacing and providing ADA accessibility upgrades."





September 21, 2011

- Creek fills existing triple 10' x 7' box culvert structure at ~2400
 NW 8th Avenue with sediment incurring \$100,000+ cost to clean periodically.
- EC Driver was retained to evaluate alternative solutions.
- Recommended upgrading existing structure to a quadruple 10' x 5.5' structure at estimated \$1.7M.
- Unfunded and not included in current scope (funding was proposed through transportation surtax).





May 2nd 2013

- Recommendation:
 - Section A: Mill & resurface then re-stripe to current lane configuration: Est. Cost: \$325,220.
 - Section B: Reconstruct and re-stripe to 2 travel lanes including a painted median and bike lanes. A trial period is proposed to determine if the new lane configuration should be made permanent and a raised median be constructed
 - Alt Section B: Reconstruct and re-stripe to 2 travel lanes including a raised median and bike lanes.
 - Alt Section B: Reconstruct and re-stripe to existing 4 lane configuration.
 - Section C: Reconstruct and re-stripe including bike Lanes and parking along south side (NW 18th Terr. To NW 15th St.).





May 2nd 2013

Motion:

- Commissioner Hinson-Rawls moved with Commissioner Bottcher seconding to Approve Sections A and C as recommended.
- Commissioner Hinson-Rawls moved with Commissioner Bottcher seconding to approve Section B (reconstruct and re-stripe to 2 travel lanes including a painted median and bike lanes) with modified trail with Option 1, Option 2 without irrigation, and Option 3 just conduit.
- Motion carried 6-1 with Commissioner Chase voting no.





December 5, 2013

Subject:

• This item is presentation regarding the data collected during the trial testing of NW 8th Avenue between NW 31st Drive and NW 23rd Street as a two lane facility with on-street bike lanes.

Recommendation:

• The City Commission hear a presentation regarding the data collected during the NW 8th Avenue lane reduction trial.

Motion:

• Two Lane Configuration (with current configuration to stay until construction), include raised median and plan for bike lanes. Aye vote by Bottcher, Poe, Hawkins, & Wells. Nay vote by Braddy, Chase, and Hinson-Rawls.



LIMITS





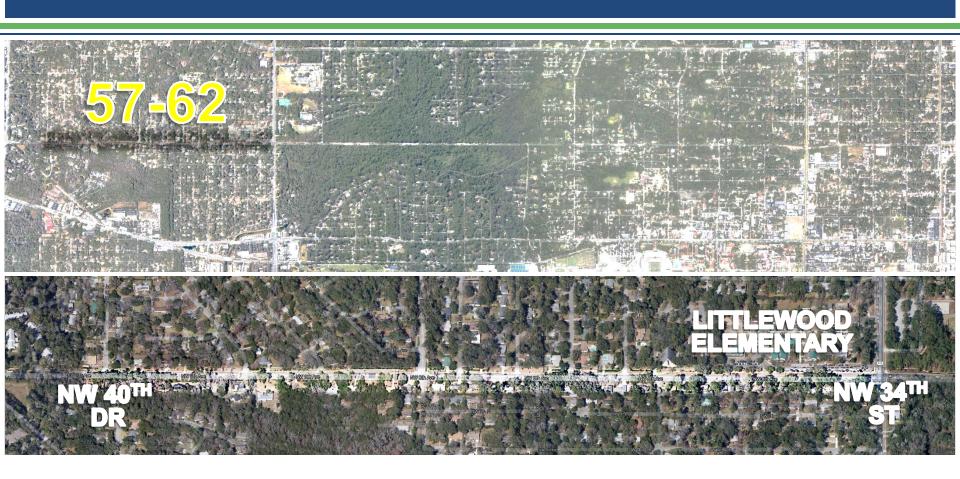




Mill & Resurface / Reconstruct NW 40th Dr. to NW 8th St.



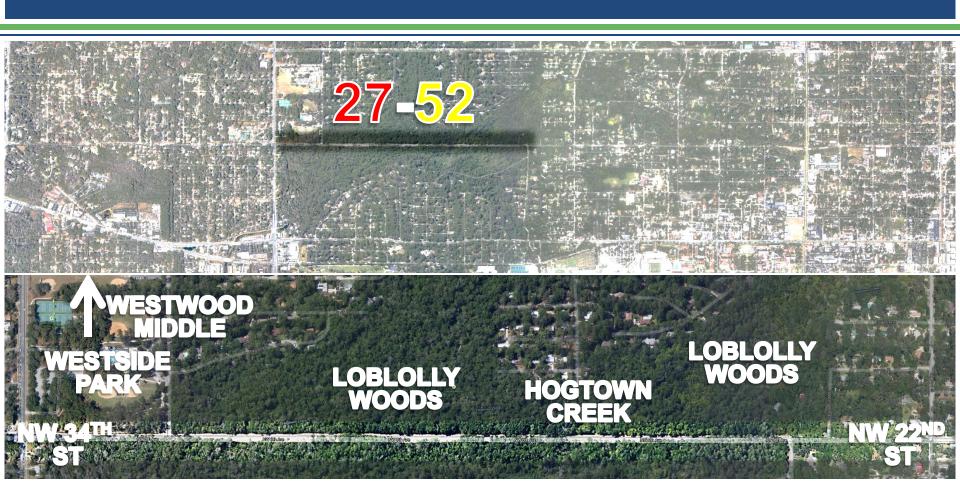




Section A – NW 40th Drive to NW 34th Street



LIMITS



Section B - NW 34th Street to NW 23rd Street



LIMITS



Section C -NW 22nd Street to NW 7th Street



SECTION A



Section A - Mill & Resurface Existing



SECTION C



Section C -Bike Lanes w/ Center Turn Lane



SECTION C



Section C -Bike Lanes w/ On Street Parking (1800-1500)





Section B Sub-Agenda

- Comprehensive Plan Elements Guiding Design
- Crash & Traffic Statistics
- GPD & GFR Comments
- NW 31st Drive Merge Evaluation & Proposals
- Illustration of Current Conditions
- Typical Section Options
- Capital Cost Estimates
- Life Cycle Cost Estimates





COG Comprehensive Plan, Transportation Mobility Element

- **Overall Goal:** "The transportation system shall provide equal attention to pedestrian, bicycle, auto and public transit needs."
- **Goal 1:** "Develop and maintain a safe, convenient and energy efficient motorized and non-motorized transportation system to accommodate the special needs of the service population..."
- Goal 2: "Provide a safe, convenient, efficient, continuous, comfortable, and aesthetically pleasing transportation environment that promotes walking..."
- Goal 3: "Provide a safe, convenient, efficient, continuous, and aesthetically pleasing transportation environment that is conducive to bicycling"





COG Comprehensive Plan, Urban Design Element

- **Objective 1.3.:** "Any additions of changes to the existing city street pattern shall be designed to provide interconnected patterns that promote effective circulation of car, transit, bicycle and foot traffic..."
- **Policy 3.1.6.:** "In general, physical improvements undertaken by the City shall be designed to encourage travel by transit, foot, bicycle, as well as by car..."



Regional Transportation Goals, MTPO LRTP: "Plan and invest to develop and maintain a comprehensive, multimodal transportation network for the Gainesville Urbanized Area that promotes economic vitality, community livability and increased housing-employment proximity."







Crash Statistics for 12 Month Evaluation Period

Location	Before Trial 2009 (4 Lanes)			Before Trial 2012 (4 Lanes)			During Trial 9/2013-9/2014 (2 Lanes)		
	#	\$!	#	\$!	#	\$!
NW 23 rd St.	2	\$701	2	2	\$5,350	0	1	\$5,500	0
NW 31st Dr.	2	\$10,500	0	4	\$30,900	6(2)	5	\$11,550	0
NW 34 th St.	11	\$67,225	5	6	\$7,400	5	8	\$10,700	2
Other	1	\$1,500	0	6	\$34,800	4	2	\$8,200	0
Total	16	\$79,926	7	18	\$78,450	15(2)	16	\$35,950	2

! = Injuries (Incapacitating Injuries)





Traffic Statistics for 12 Month Evaluation Period

Date	Volume (Daily)	85% Speed (MPH)	50% Speed (MPH)	
Before Trial				
2/8/2011	15,159	<i>55.7</i>	N/A	
During Trial				
9/17/2013	14,007	49.4	43.8	
10/23/2013	14,195	50.6	45	
10/30/2013	14,306	50.6	45.2	
10/21/2014	14,754	57.5	44.1	
10/29/2014	N/A	50	45	
10/30/2014	N/A	51	46	
Average ('13-'14)	14,316	51.5	44.9	





Bicycle Statistics during Evaluation Period

Date	Date Bikes on Sidewalk		Total
Before Trial			
Wed. 4/13/2011	126	5	131
During Trial			
Thurs. 9/19/2013	115	43	158
Wed. 9/24/2014	121	47	168
Thurs. 9/25/2014	94	43	137



GPD Survey of Officers:

- Question: Have the changes on 8th Avenue impeded any emergency response to calls for service?
- 50 Votes Yes.
- 10 Votes No.
- 8 Skipped Question.



GFR Comments:

- 1. As a general statement, GFR would rarely be in favor of a reduction or narrowing of travel lanes in a roadway because it always impedes emergency response.
- 2. Reducing travel lanes along this section of 8th Ave, where there is already little opportunity to get around traffic on this roadway during emergency response, acts to reduce our ability to meet response time goals. The plan to have mountable medians while better than the alternative, still slows emergency response.
- 3. While no current study has been completed of the impact of travel lane reductions on emergency response in Gainesville, the study that was completed on the effect of traffic calming devices, presented evidence of how the slowing of emergency vehicles to navigate these devices increased response times.
- 4. The question that will always be raised is; to what degree does it affect emergency response and without a specific study it will always be up for debate.



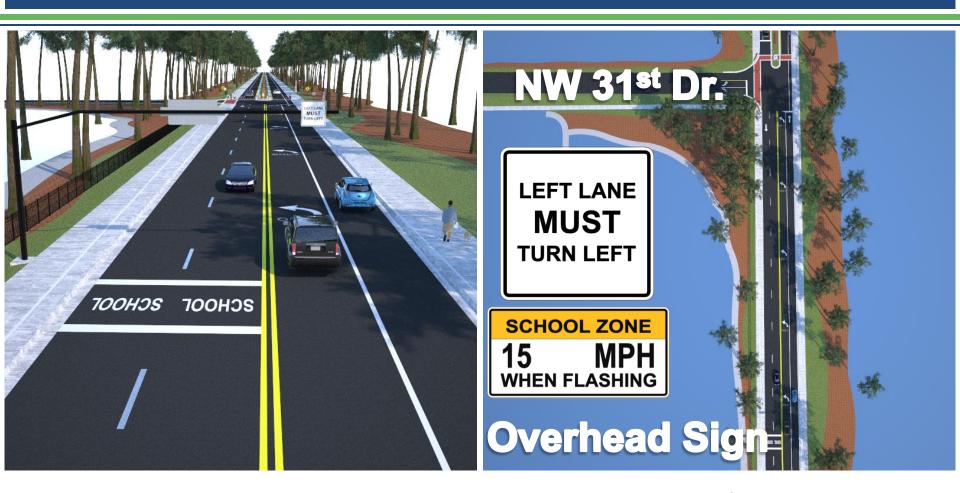
 Commission requests recommendations for improvements to the merge point at NW 31st Drive.





- Possible Solution: Can the eastbound, outside through lane at NW 34th Street be changed to right turn only?
- **Staff Response:** Public Works reviewed the traffic impact of this configuration which caused the NW 34th Street intersection to fail during the A.M. rush hour and through the Littlewood startup. Without 2 through lanes eastbound on N.W. 8th Avenue through the intersection, the eastbound traffic would back up in the sole through lane to almost 43rd Street.





Possible Solution – Overhead Sign Structure (+\$65,000)

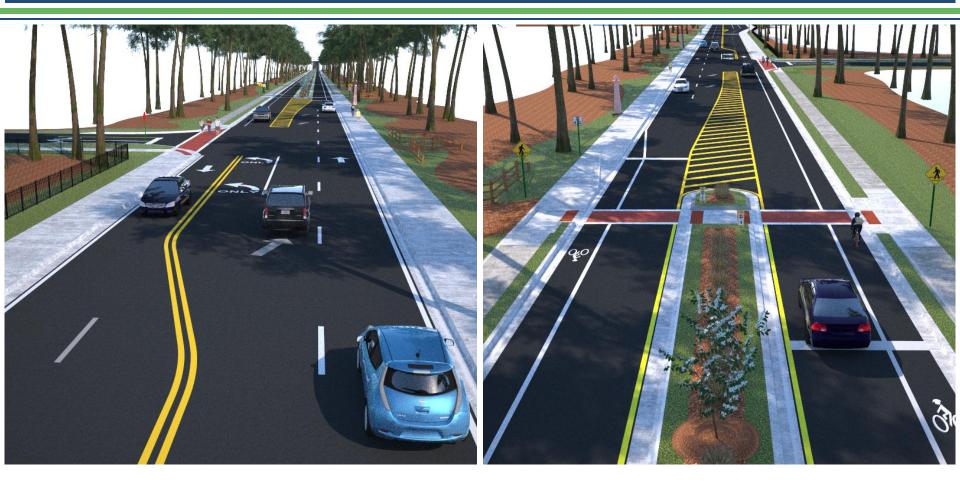




Possible Solution – Change Striping Configuration

- Pushes eastbound merge 200'+ east.
- Provides dedicated eastbound left turn lane onto NW 31st Drive.
- Provides 2 lane crossing with refuge aligned at Greenway.





Eastbound Westbound







Option	Description
#1	Two Lanes w/ Bike Lanes
#2	Two Lanes w/ Buffered Bike Lanes
#3	Two Lanes w/ Protected Bike Lanes
#4	Four Lanes w/ Multi-Use Path





two lane, two way | landscaped median

bike lanes & sidewalk | 2 lane crossing w/ refuge





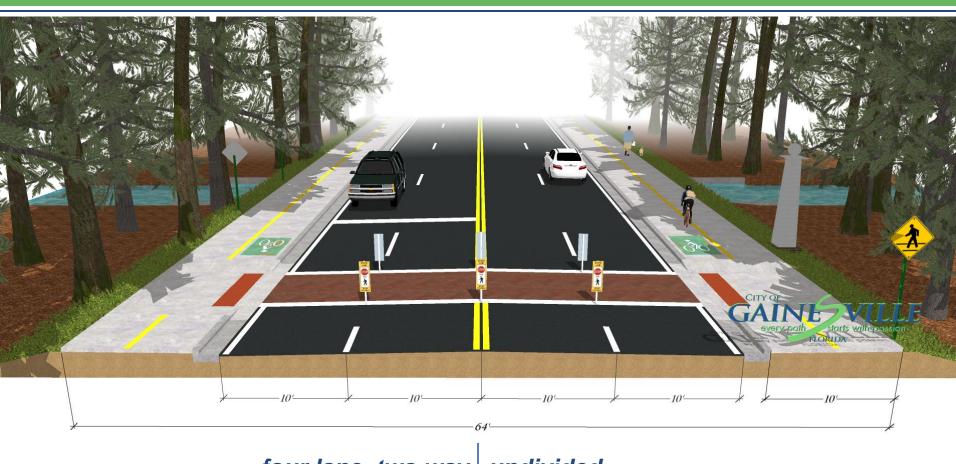
two lane, two way | landscaped median

buffered bike lanes & sidewalk | 2 lane crossing w/ refuge









four lane, two way undivided

multi-use path | 4 lane crossings w/o refuge

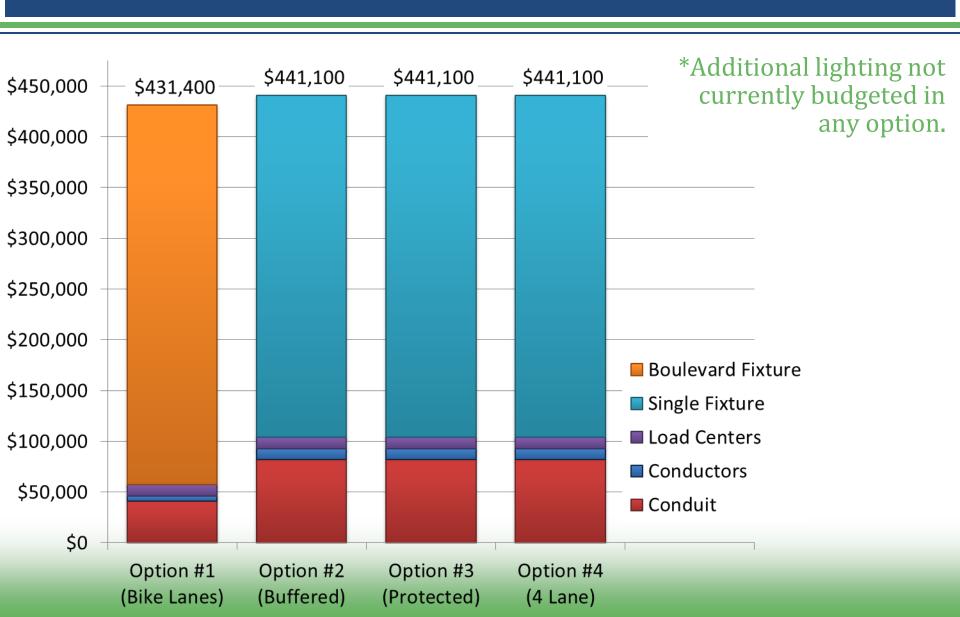


CAPITAL COST ESTIMATES





LIGHTING COST ESTIMATES





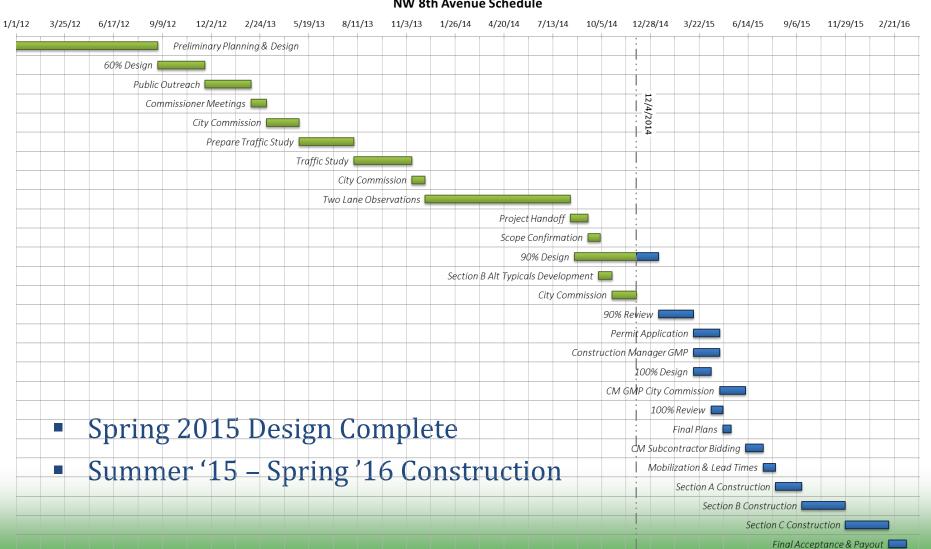
LIFE CYCLE COST ESTIMATES





SCHEDULE

NW 8th Avenue Schedule





COMMENTS & QUESTIONS

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