

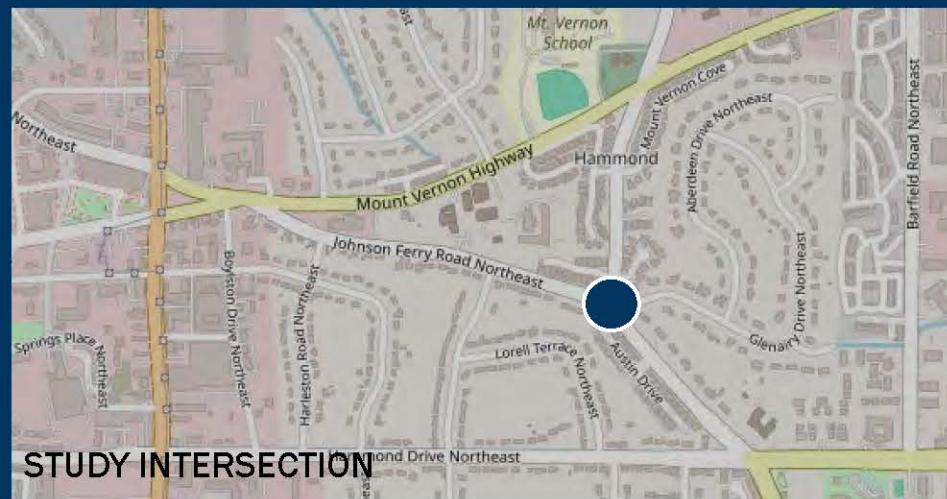
# T-7249 - Intersection Concept Study

## Johnson Ferry Road at Glenridge Drive & Glenairy Drive

City of Sandy Springs Public Meeting  
February 6, 2025



**SANDY SPRINGS**  
GEORGIA





## EXISTING CONDITIONS & CONCERNS

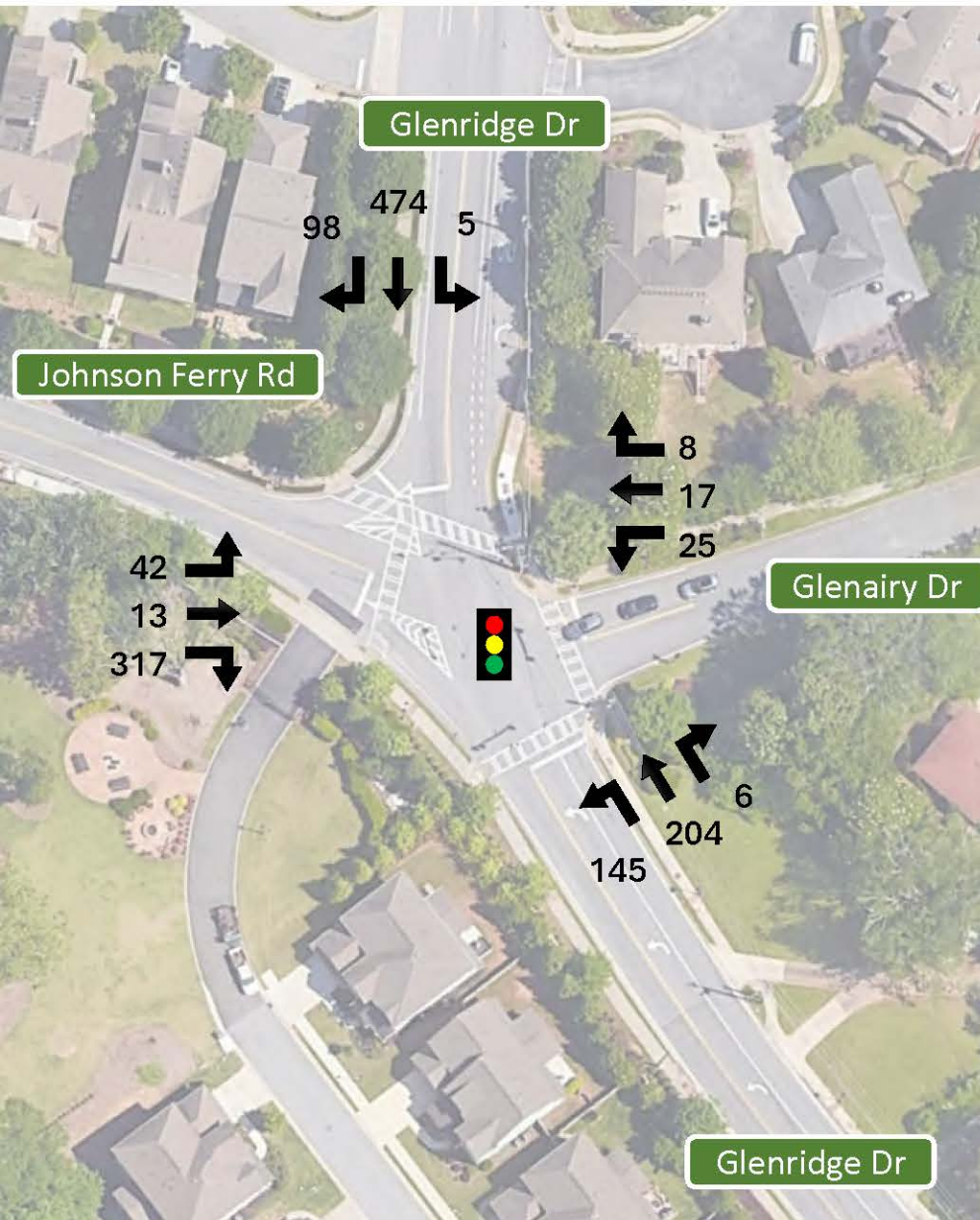


- Traffic signal at four-leg intersection
- Intersection has skewed eastbound and westbound approaches
- The traffic signal phasing (split phasing) increases delay for the eastbound and westbound approaches
- Approximately 10 crashes per year; with 75% rear end crashes and 12% angle crashes
- Vehicles turning right from Johnson Ferry Road often yield instead of making a full stop
- Pedestrian crosswalks do not meet current design standards

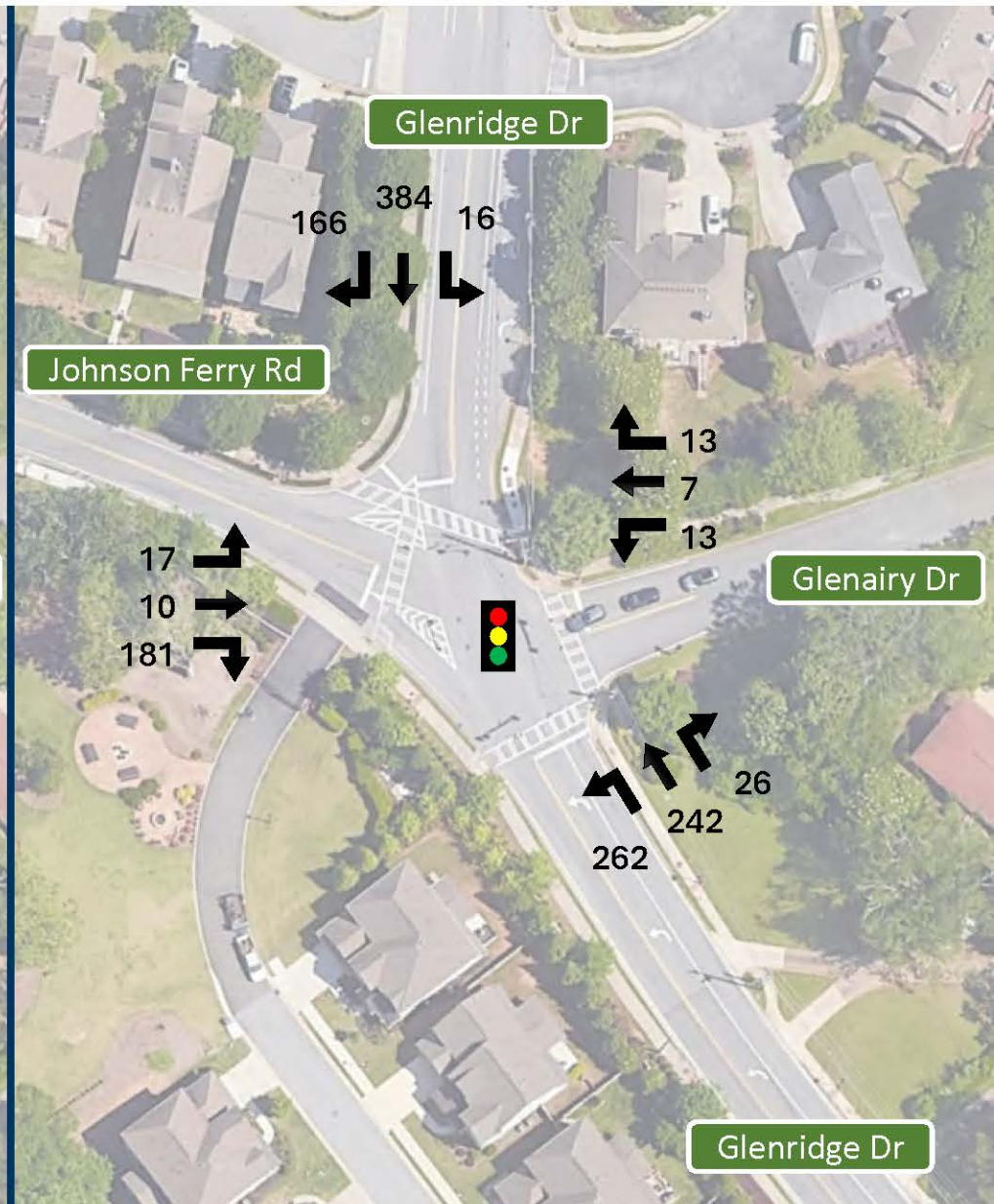


## EXISTING TRAFFIC VOLUMES

### AM HOUR



### PM HOUR



## DRONE VIDEO OF EXISTING CONDITIONS

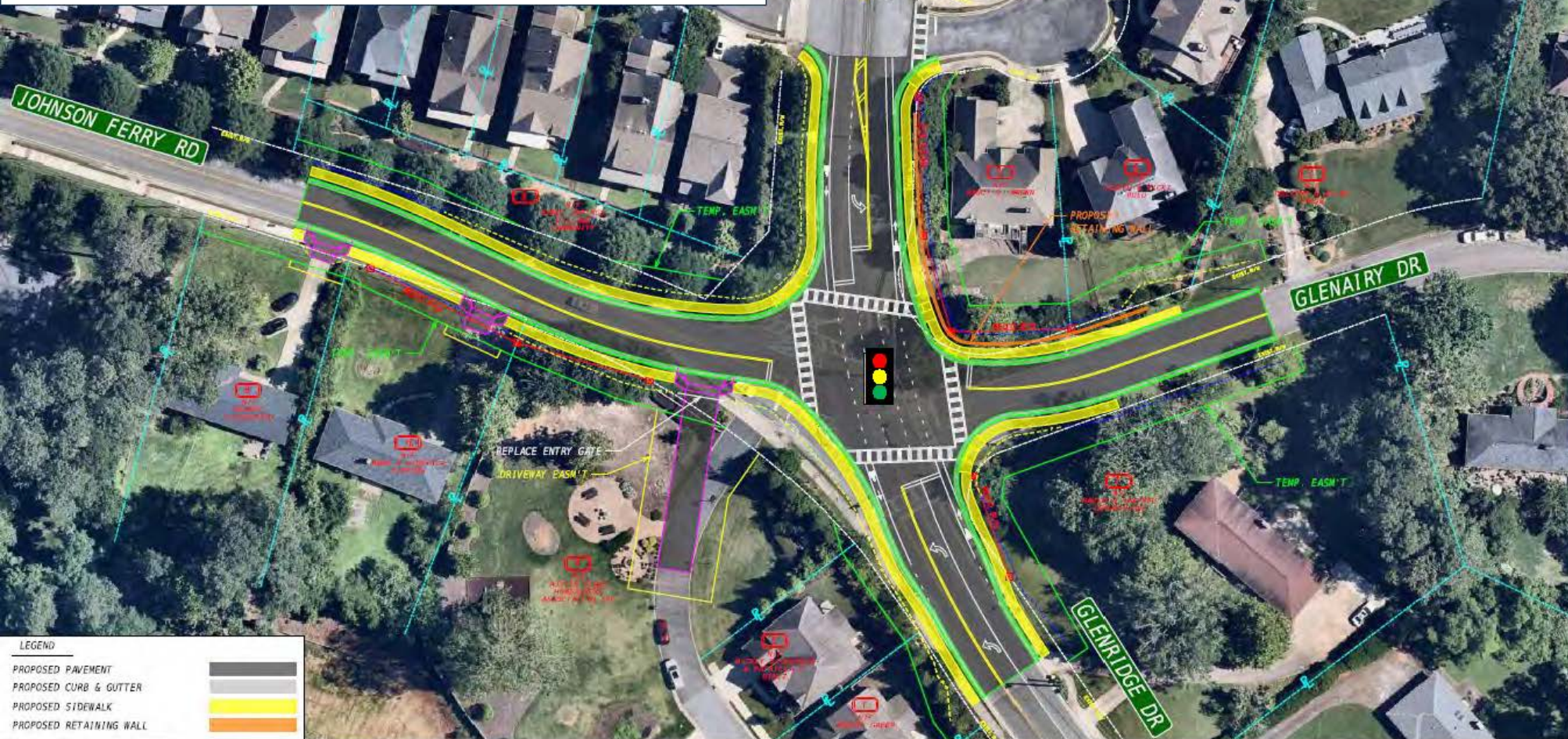




# IMPROVED TRAFFIC SIGNAL LAYOUT

## Alternative – Improved Traffic Signal:

- Improved alignment of all approaches
- Improves signal operation (removes split phasing)
- Removes the channelized islands and tightens the Johnson Ferry Road right turn radius
- ROW impacts primarily in NE corner



LEGEND	
PROPOSED PAVEMENT	
PROPOSED CURB & GUTTER	
PROPOSED SIDEWALK	
PROPOSED RETAINING WALL	
PROPOSED EDGE OF PAVEMENT	
PROPOSED CURB & GUTTER LINE	
PROPOSED SIDEWALK	
PROPOSED DRIVEWAY	
PROPOSED RETAINING WALL	
CONSTRUCTION LIMITS	

EXISTING RIGHT-OF-WAY	
EXISTING PROPERTY LINE	
PROPOSED RIGHT-OF-WAY	
TEMPORARY EASEMENT	
DRIVEWAY EASEMENT	



REVISION DATES		

SIGNAL CONCEPT LAYOUT			
JOHNSON FERRY RD @ GLENRIDGE DR AND GLENAIRY DR			
DRAWN	DATE	DRAWING NO.	
CHECKED	DATE	1 OF 2	
CORRECTED	DATE		
VERIFIED	DATE		





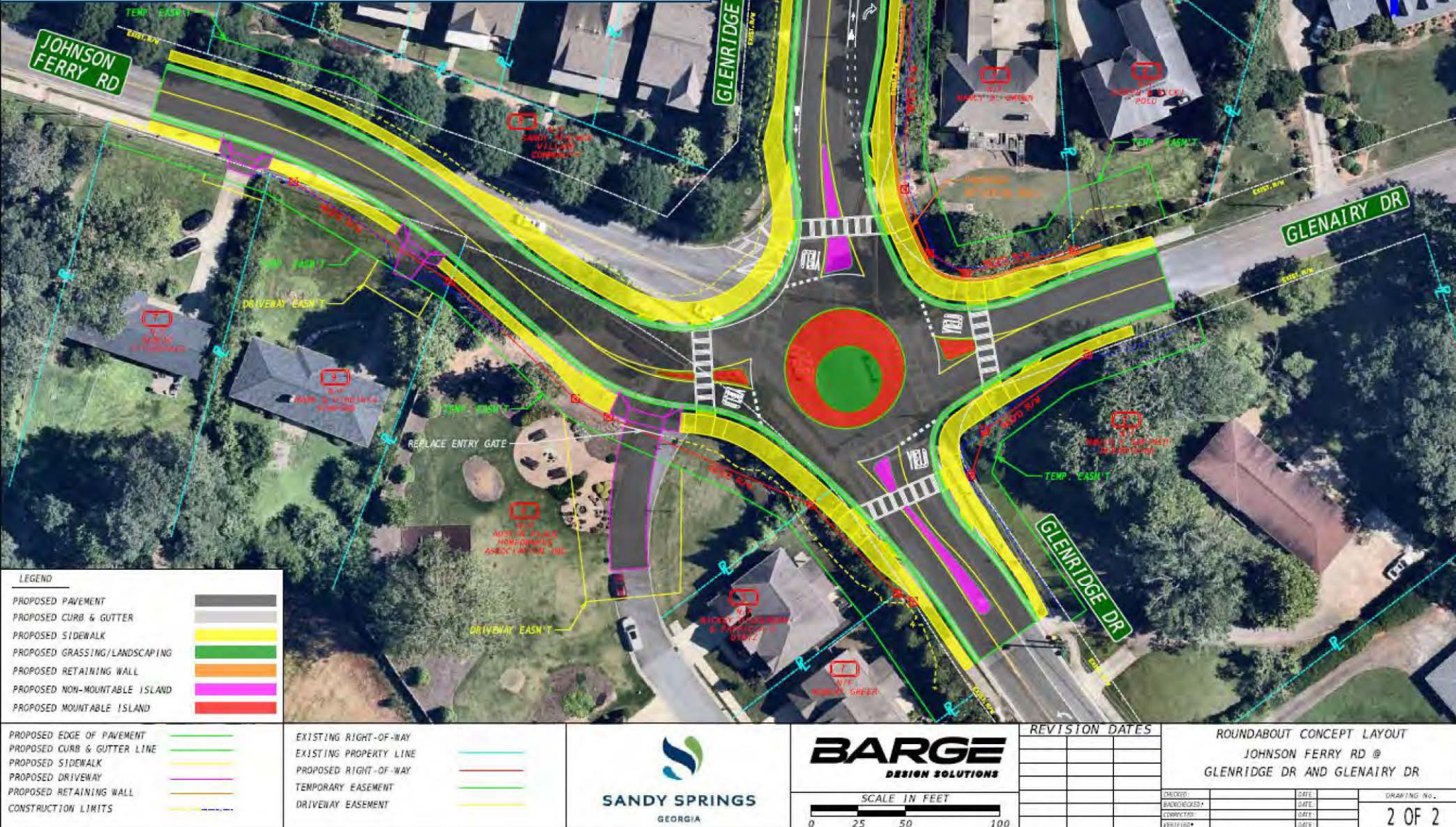




# ROUNABOUT LAYOUT

## Alternative – Roundabout:

- Provides traffic calming/speed reduction benefit
- Improved alignment of all approaches
- ROW impacts in the NE and SW corners and potential impacts tree(s) in private space for the residential community











## COMPARISON OF INTERSECTION ALTERNATIVES

Feature	Improved Traffic Signal	Roundabout
Design Year 2045 – AM Peak Hour Average Vehicle Delay (Level of Service)	30 seconds (LOS C)	17 seconds (LOS B)
Design Year 2045 – PM Peak Hour Average Vehicle Delay (Level of Service)	15 seconds (LOS B)	15 seconds (LOS B)
Safety	Reduction in crashes	Reduction in crashes
CST Cost	\$1,960,000	\$2,150,000
ROW Cost	\$990,000	\$1,250,000
Total (CST + ROW) Cost	\$2,950,000	\$3,400,000
Benefit-to-Cost Ratio	0.54	2.23

- For comparison, the Existing Year traffic operations without modifications is LOS D (38 seconds) during the AM and LOS B (20 seconds) during the PM
- For comparison, the Design Year traffic operations without modifications is LOS E (77 seconds) during the AM and LOS C (23 seconds) during the PM
- Both alternatives accommodate MARTA buses and trucks
- The benefit-to-cost ratio compares the combined operations and safety benefit versus the total project cost. The higher value indicates better performance.



**Receive Community Input**



**Finalize Study**



**Program Project Funding**