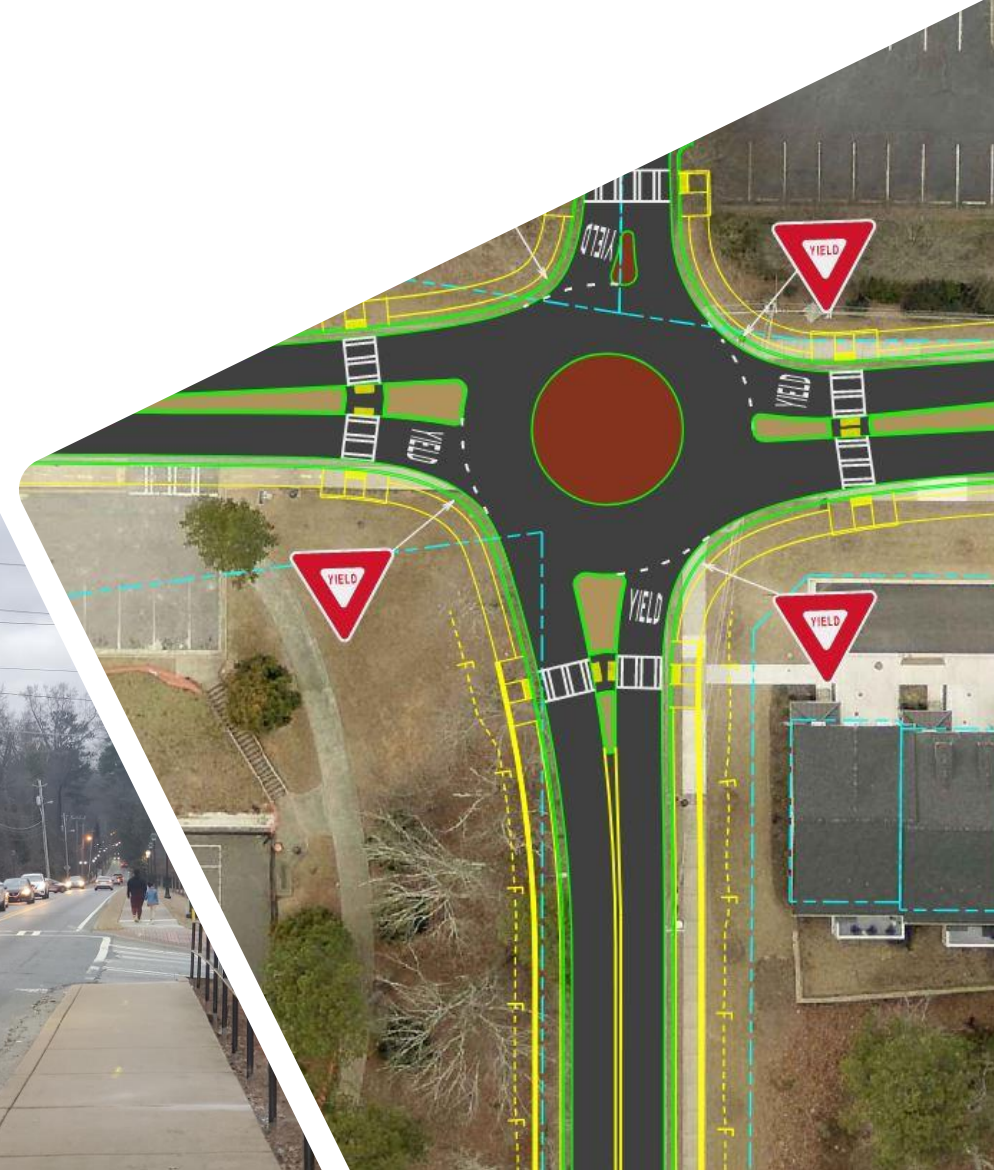


# Lake Forrest Drive at Allen Road and Northwood Drive

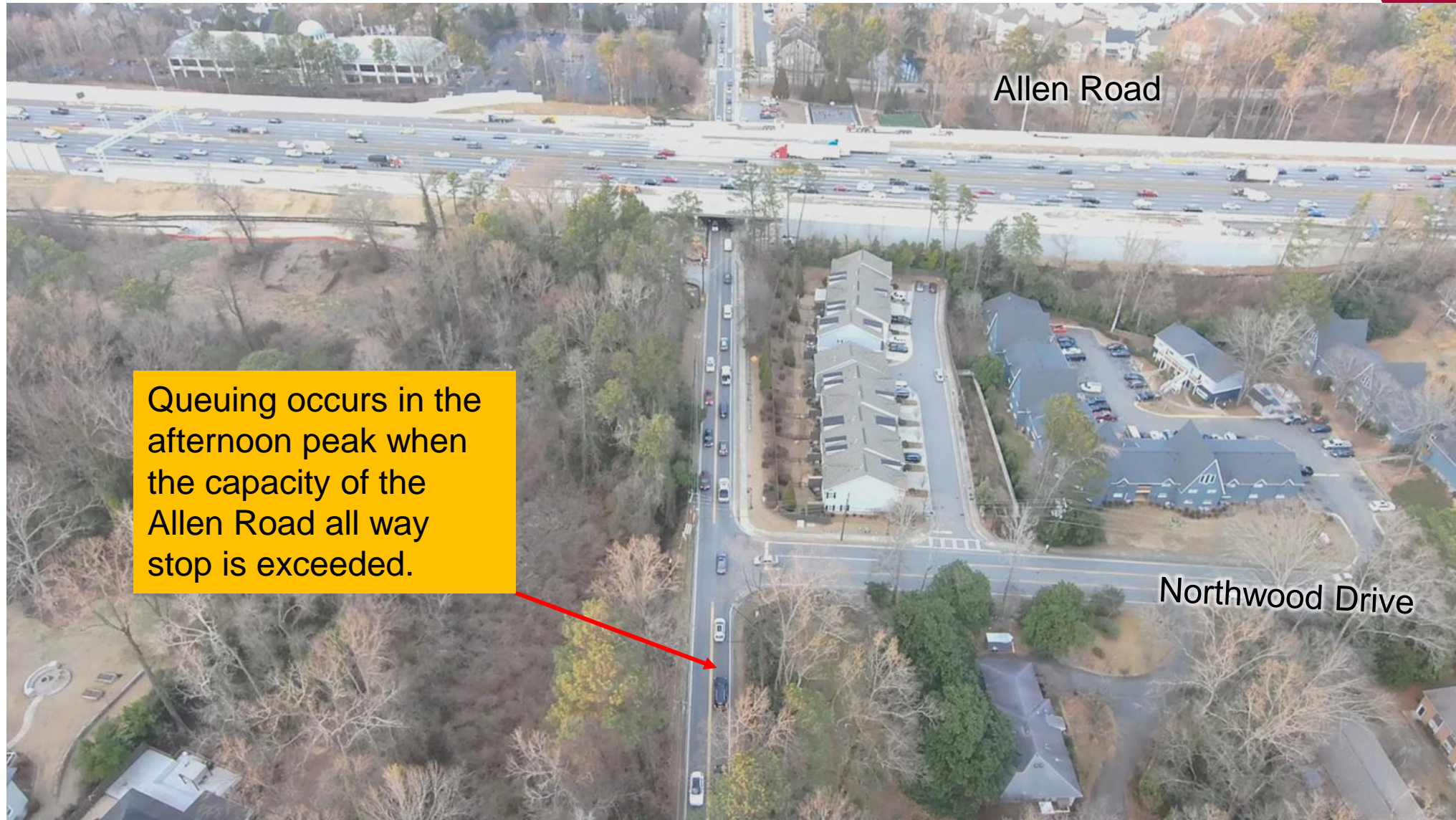
*September 21, 2023*

*City of Sandy Springs Public Meeting*

Traffic Engineering Study



# Lake Forrest Northbound Congestion

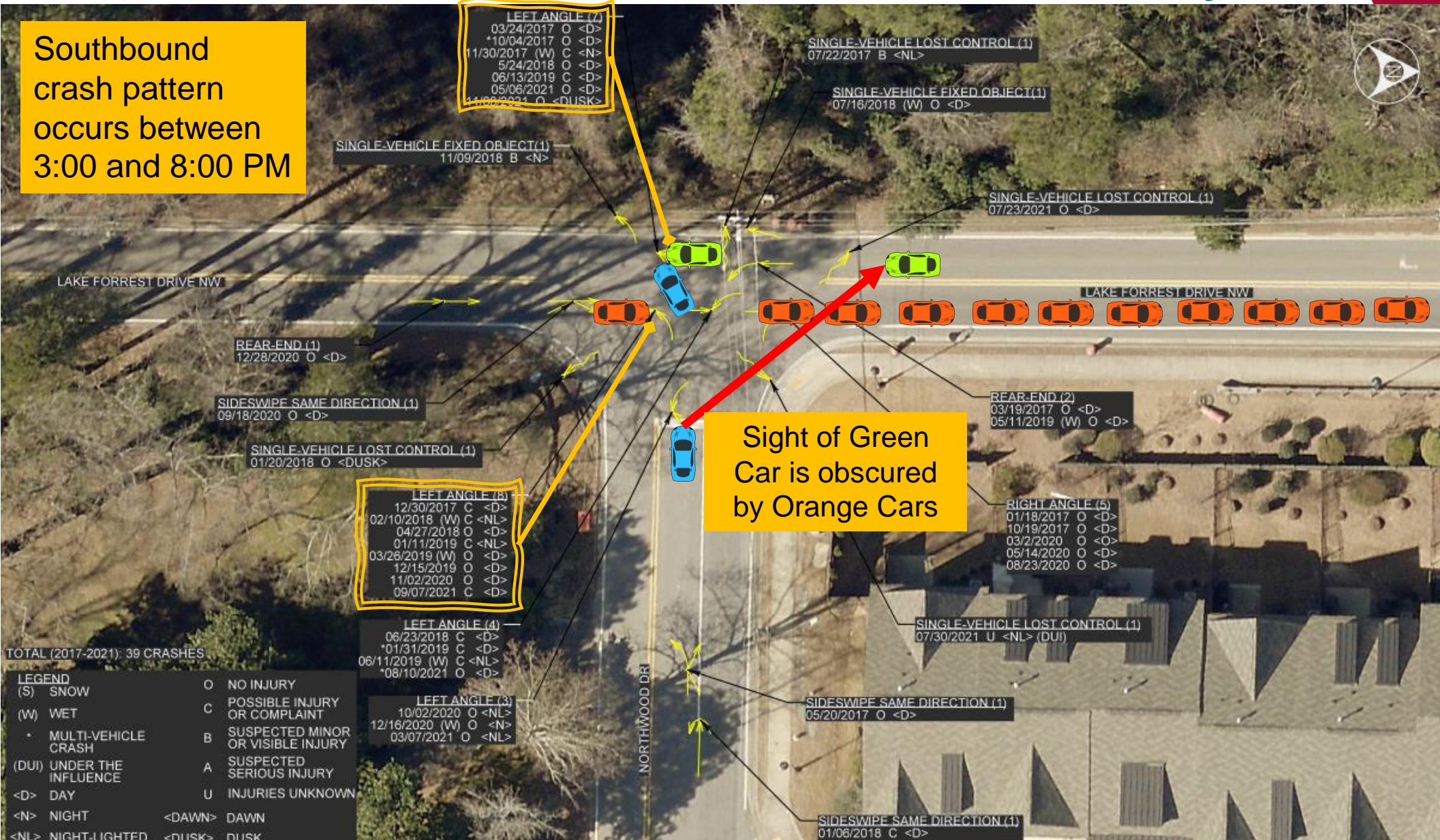


Queuing occurs in the afternoon peak when the capacity of the Allen Road all way stop is exceeded.

Video

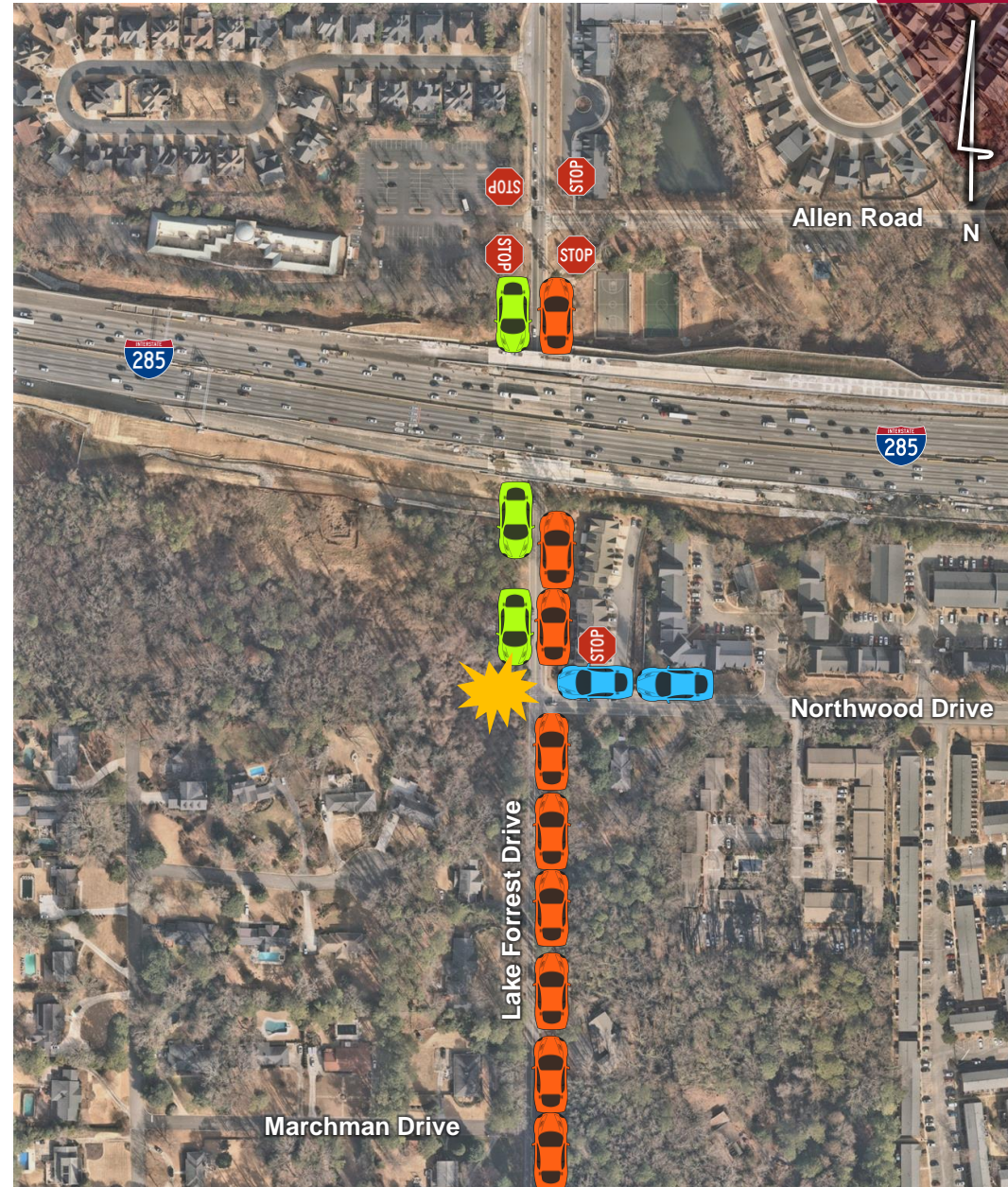
# Northwood Drive 5-Year Collision History

Southbound crash pattern occurs between 3:00 and 8:00 PM



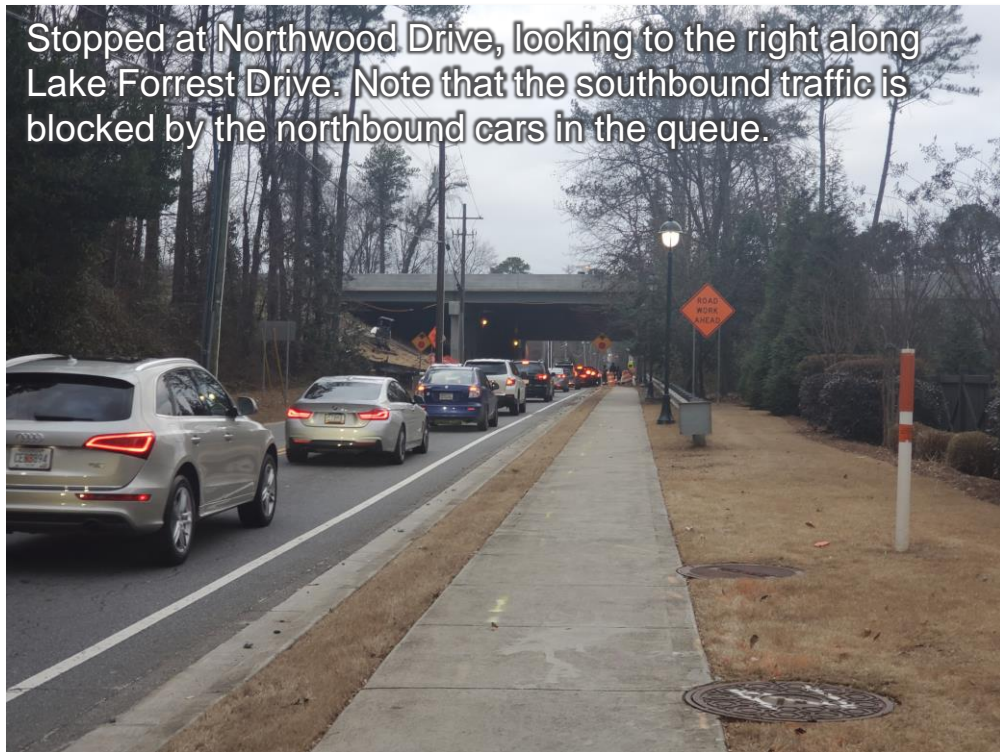
# Project Location & Problem Description

- Northbound traffic along Lake Forrest (Orange cars) backs up through the intersection at Northwood Drive
- Westbound traffic along Northwood Drive (Blue cars) that wants to turn left at the stop sign, can't see southbound traffic (Green cars)
- The Blue cars turn left even though they can't see the Green cars, and now there is a high pattern of angle crashes and this is a safety concern
- The problem is seen at Northwood Drive, but is caused by the queue that forms at Allen Road.
- Solution: Reduce congestion along Lake Forrest that is created at Allen Road.



# Excessive Congestion along Lake Forrest Drive

- Queues back up from Allen Road and block sight from drivers entering from Northwood Drive
- Goal of Traffic Study: Identify intersection alternatives that will alleviate the queueing, provide side-street access, and enhance safety for all users

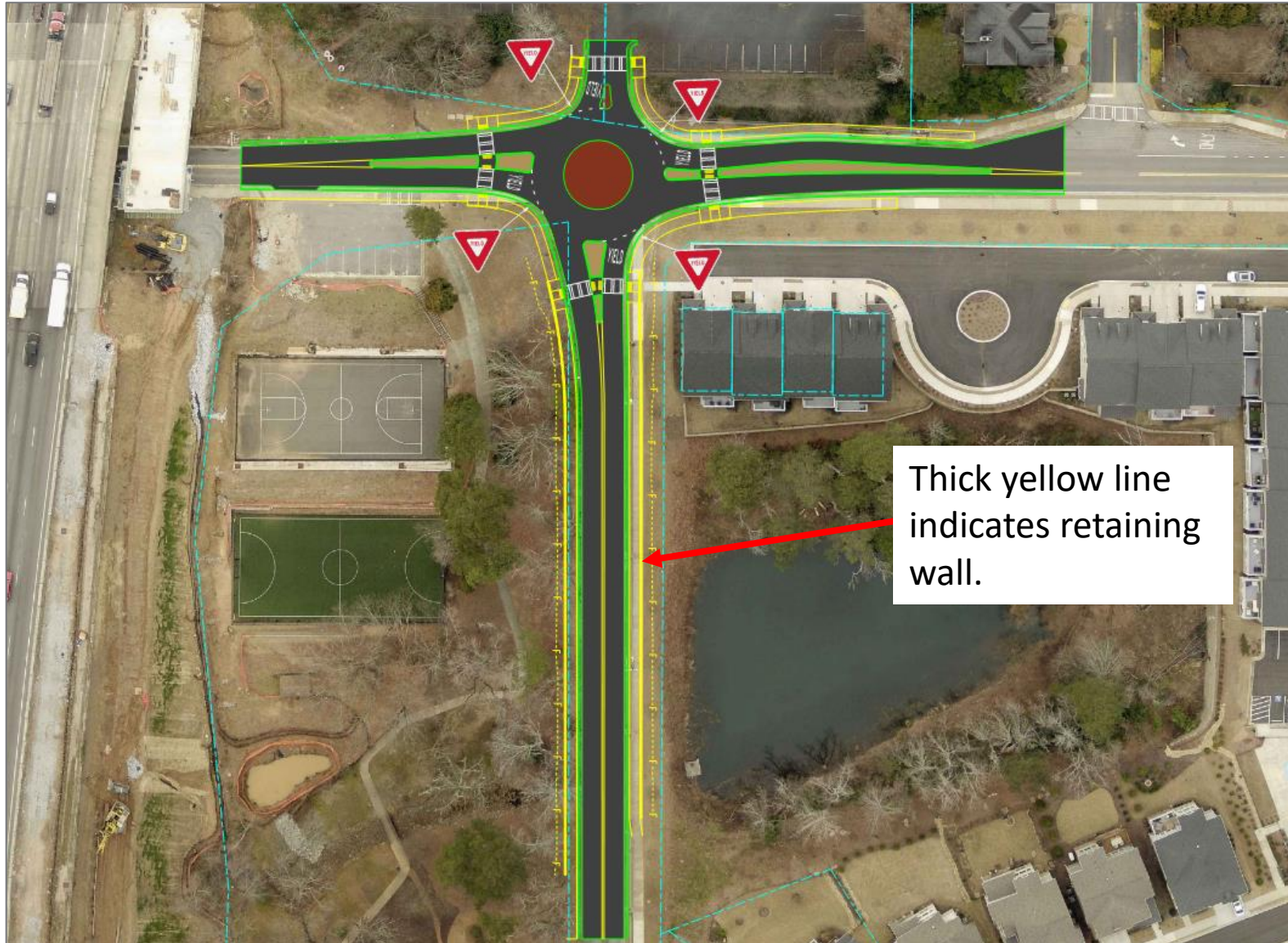


# Intersection Alternatives

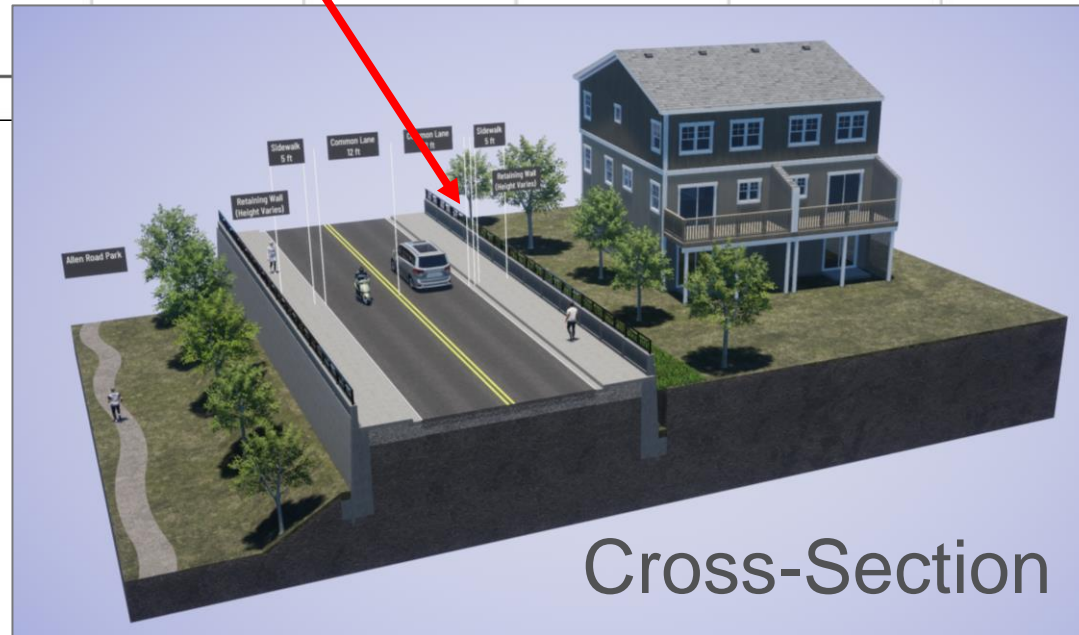
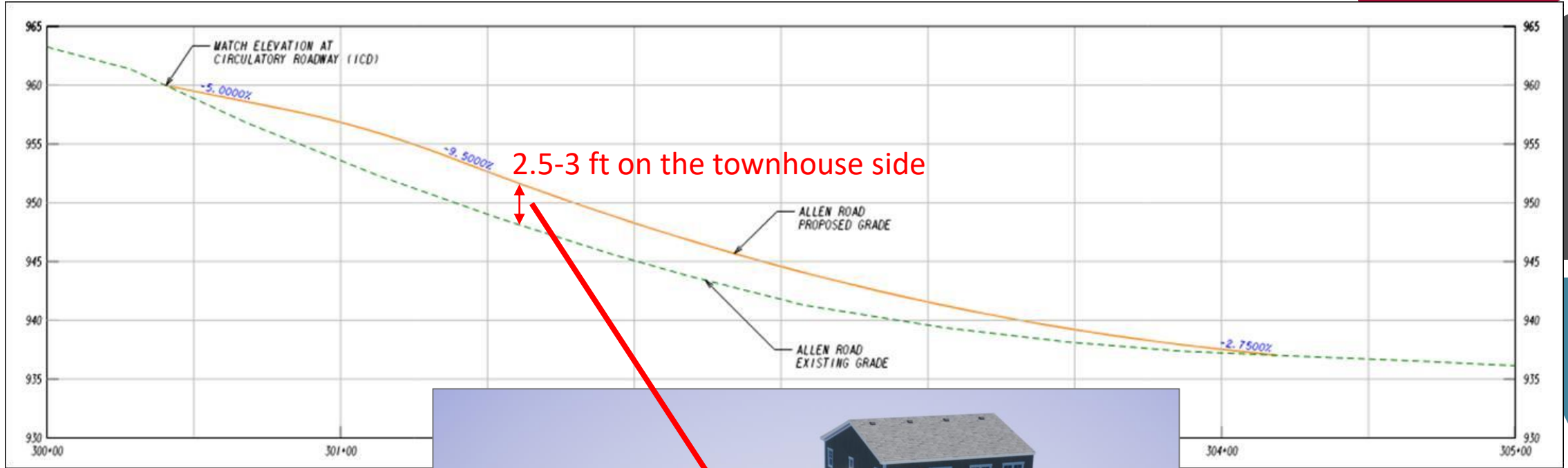
1. Two All-Way Stop Controls (AWSC)
2. Allen Road Traffic Signal & Northwood Side-street Stop
  1. Traffic Signal is not warranted
3. Two Traffic Signals (Not warranted)
4. Allen Road Mini-Roundabout & Northwood Side-street Stop
5. Two Mini-Roundabouts



# Allen Road Mini Roundabout (Est. Cost \$2.1M)



# Allen Road Mini Roundabout Elevation Profile





# Retaining Wall

## Example



View of retaining wall and handrail from side-street (Hildebrand Drive).



View of retaining wall and handrail from mainline road (Sandy Springs Circle).

[Sandy Springs Circle at Hildebrand Drive](#) – Sandy Springs, Georgia

# Example of Pedestrian Crossing

- The crosswalk will go through the Splitter Islands, creating a pedestrian refuge.
  - This can be safer because pedestrians can wait in the island if a car is coming, they do not have to cross both lanes of traffic at the same time.
- There are options to construct Rectangular Rapid Flashing Beacons (RRFB) that are push-button activated to increase pedestrian visibility.



# Traffic Simulation of Preferred Intersection Combination



# Mini Roundabouts are Becoming Quite Common



# GDOT Uses Mini Roundabouts on State Hwys.

70-ft. circle,  
open to traffic  
August 2016



# GDOT Uses Mini Roundabouts on State Hwys.



# Examples of Mini Roundabouts

