



April 12, 2023

Ryan Trunko, PE
Project Manager
GPI / Greenman-Pederson, Inc.
80 Wolf Road Suite 300
Albany, NY 12205
rtrunko@gpinet.com

Michael Wieszchowski
Vice President / Director of Traffic Engineering
GPI / Greenman-Pederson, Inc.
80 Wolf Road Suite 300
Albany, NY 12205
mwieszchowski@gpinet.com

RE: Response to TDE Review – Emergency Vehicle Turning Movements: Intersections and Roadways Around the Proposed Costco Facility
JMT Job No. 20-02057-001

Dear Mr. Trunko,

JMT is in receipt of GPI's letter dated April 5, 2023, to Mr. Kovalchik of the Town of Guilderland regarding your review of emergency vehicle turning movements around the proposed Costco facility. JMT in coordination with Colliers has reviewed GPI's comments and recommendations and offers the following in response:

TRAFFIC COMMENTS SUMMARY:

1. Street trees will not be placed in a way that would limit sight distance.
2. Acknowledged. No further action.
3. The referenced signal timings at the new Gabriel Terrace intersection at Crossgates Mall Road will be designed in coordination with existing signals at the Crossgates Mall Road / Rapp Road intersection to the west and the Mall's main entrance driveway to the east. This has been committed to for detailed design per Note 3 on Page 3 of 3 for Site 2 – Special Use Permit Submission concept plans.
4. Acknowledged. No further action.
5. The revised layout agreed upon in GPI's 12/7/2022 letter has been shown on the most recent Site 2 – Special Use Permit Submission concept plans and attached to this letter.
6. Acknowledged. No further action.

ROADWAY TURNING MOVEMENT COMMENTS:

1. Acknowledged. No further action.
2. Acknowledged. No further action.
3. Acknowledged. No further action.
4. Acknowledged. The optimal pavement edge radius will be finalized in detailed design to allow the fire truck to remain in the turning lane.

5. Acknowledged. The striping configuration will be finalized in detailed design to allow the fire truck to remain in the turning lane.
6. Acknowledged. No further action.
7. Acknowledged. This has been committed to for detailed design per Note 2 on Page 3 of 3 for Site 2 – Special Use Permit Submission concept plans.
8. Turning movements for eastbound left turns on to Gabriel Terrace have been shown to demonstrate access for emergency vehicles only. The proposed right in / right out access point at Gabriel Terrace will be adequately signed with no left turns permitted for eastbound traffic on Western Ave.
9. Acknowledged. The optimal pavement edge radius will be finalized in detailed design.
10. Acknowledged. The optimal pavement edge radius will be finalized in detailed design.

INTERNAL SITE TURNING MOVEMENT COMMENTS:

1. Special Use Permit Plans have been updated to show updates to surrounding roadways.
2. See Page 1 of Colliers Turning movements for continuous vehicle path of the Westmere Aerial Truck through the site.
3. Turning movements have been shown to demonstrate the ability of the Westmere Aerial Truck to navigate within the paved roadway section.
4. Confirmed. The intended truck route to the highway consists of exiting south on Gabriel Terrace, right onto Western Ave, north on Crossgates Mall Road, and east towards the roundabout.
5. A heavy-duty concrete section, in lieu of heavy-duty pavement, has been included outside the mountable curb to accommodate large vehicle turning motions.

Additional Turning Movements Required:

The following turning movements have been simulated with the Westmere Aerial Truck to demonstrate the ability to navigate within the paved roadway for the subject area. The roadway design takes into consideration control vehicles, which are larger trucks and emergency access vehicles. Exact intersection and roadway configurations will be finalized in detailed design.

- A. See Pages 1 & 2 of the attached JMT Turning Movements for left and right turning movements for the Westmere Aerial Truck from Crossgates Mall Road into the “main” northerly entrance for emergency vehicles. It is noted that the emergency vehicle may track over the driveway median where mountable curb will be utilized.
- B. See Page 2 of Colliers Turning Movements for updated Westmere Aerial Truck site movements.
- C. See Page 3 of the attached JMT Turning Movements for left turn movement for the Westmere Aerial Truck onto Gabriel Terrace.
- D. See Pages 4 & 5 of the attached JMT Turning Movements for turning movements for the Westmere Aerial Truck at the Gabriel Terrace and Western Ave intersection. It is noted that emergency vehicles may track over the median island where mountable curb will be utilized.
- E. See Page 6 of the attached JMT Turning Movements for southbound movement for the Westmere Aerial Truck through the “S” curve on Gabriel Terrace. It is noted that emergency vehicles will require the full paved width of the roadway to navigate through this area.

In conclusion, JMT believes all GPI comments stated herein have been adequately addressed and considered resolved. If you have any questions or need further information, please do not hesitate to contact me at 518-218-5949 or cminkler@jmt.com.

Very truly yours,

JMT of New York, Inc.



Christina M. Minkler, PE

Enclosures: Site 2 – Special Use Permit Submission Concept Plans (3 pages)
JMT Turning Movement Exhibits (6 pages)
Colliers Turning Movement Exhibits (2 pages)

Cc: Ken Kovalchik, Town of Guilderland
James Soos, Pyramid Management Group, LLC
David Aitken, Pyramid Management Group, LLC
Matthew Collingwood, PE, JMT
Chris Riggle, PE, Colliers

Site 2 - Special Use Permit Submission

Town of Guiderland, Albany County, New York



APRIL 10, 2023



End Limits of Road Diet
10' Wide Multi Use Trail Completed in Site 1 Work
Island Landscaping Completed in Site 1 Work
CDTA Bus Stop Completed in Site 2 Work
10' Wide Multi Use Trail Completed in Site 2 Work

Westmere Terrace
5' Wide Sidewalk Completed in Site 1 Work
Crossgates Mall Road "Road Diet" Completed in Site 2 Work
Northernly Driveway
Southernly Driveway
Lawton Terrace

10' Wide Multi Use Trail Completed in Site 2 Work
Crossgates Mall Road "Road Diet" Completed in Site 2 Work
Gabriel Terrace
CHANNELIZED MOUNTABLE ISLAND COMPLETED IN SITE 2 WORK

US 20 (Western Ave)
Alton Road

Legend

- Modify or Install New Traffic Signal
- Final Pavement Marking Configuration
- Final Pavement Configuration
- 5' Wide Sidewalk
- 10' Wide Multi Use Trail

Not To Scale



Site 2 - Special Use Permit Submission - Crossgates Mall Road

Town of Guilderland, Albany County, New York



APRIL 10, 2023



Notes:

1. Mountable curbs will be installed around the center landscaped islands along Crossgates Mall Road to accommodate design vehicle turning movements.
2. The curb to curb width at Crossgates Mall Road NEB approach to Crossgates Mall Road is 37' wide. At the approach, a 12' wide center median will be striped to allow for fire truck turning maneuvers.

Crossgates Mall Road - Road Diet

Scale: 1" = 30'

Legend

-  Modify or Install New Traffic Signal
-  Final Pavement Marking Configuration
-  Final Pavement Configuration
-  5' Wide Sidewalk
-  10' Wide Multi Use Trail

Site 2 - Special Use Permit Submission - Crossgates Mall Road and Roundabout

Town of Guilderland, Albany County, New York



APRIL 10, 2023



Crossgates Mall Road - Road Diet

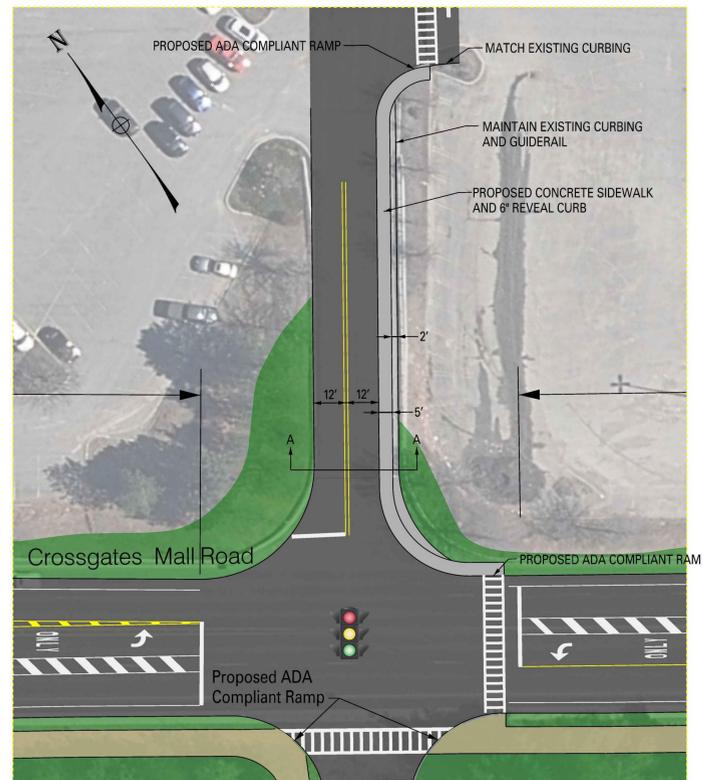
Scale: 1"=40'

Notes:

1. Mountable curbs will be installed around the center landscaped islands along Crossgates Mall Road to accommodate design vehicle turning movements.
2. Sufficient width is provided between curbing to allow for a WFD ladder truck to stage on the South side of Crossgates Mall Road and allow vehicles to pass. In addition, the 10' wide multi use trail will be designed to allow for a ladder fire truck. This will include proper grading and subbase depth and material in the area a fire truck may access.
3. The proposed signal at the Dick's entrance driveway will be designed to operate in coordination with existing signals located to the east and west along Crossgates Mall Road.

Legend

- Modify or Install New Traffic Signal
- Final Pavement Marking Configuration
- Final Pavement Configuration
- 5' Wide Sidewalk
- 10' Wide Multi Use Trail



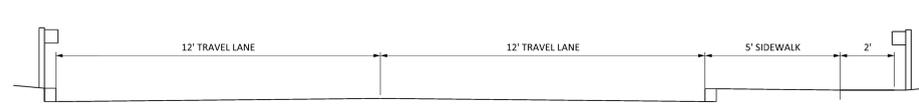
Design Detail - Sidewalk To Dick's Entrance

Scale: 1"=20'



EXISTING SECTION A-A

Scale: 1"=2'



PROPOSED SECTION A-A

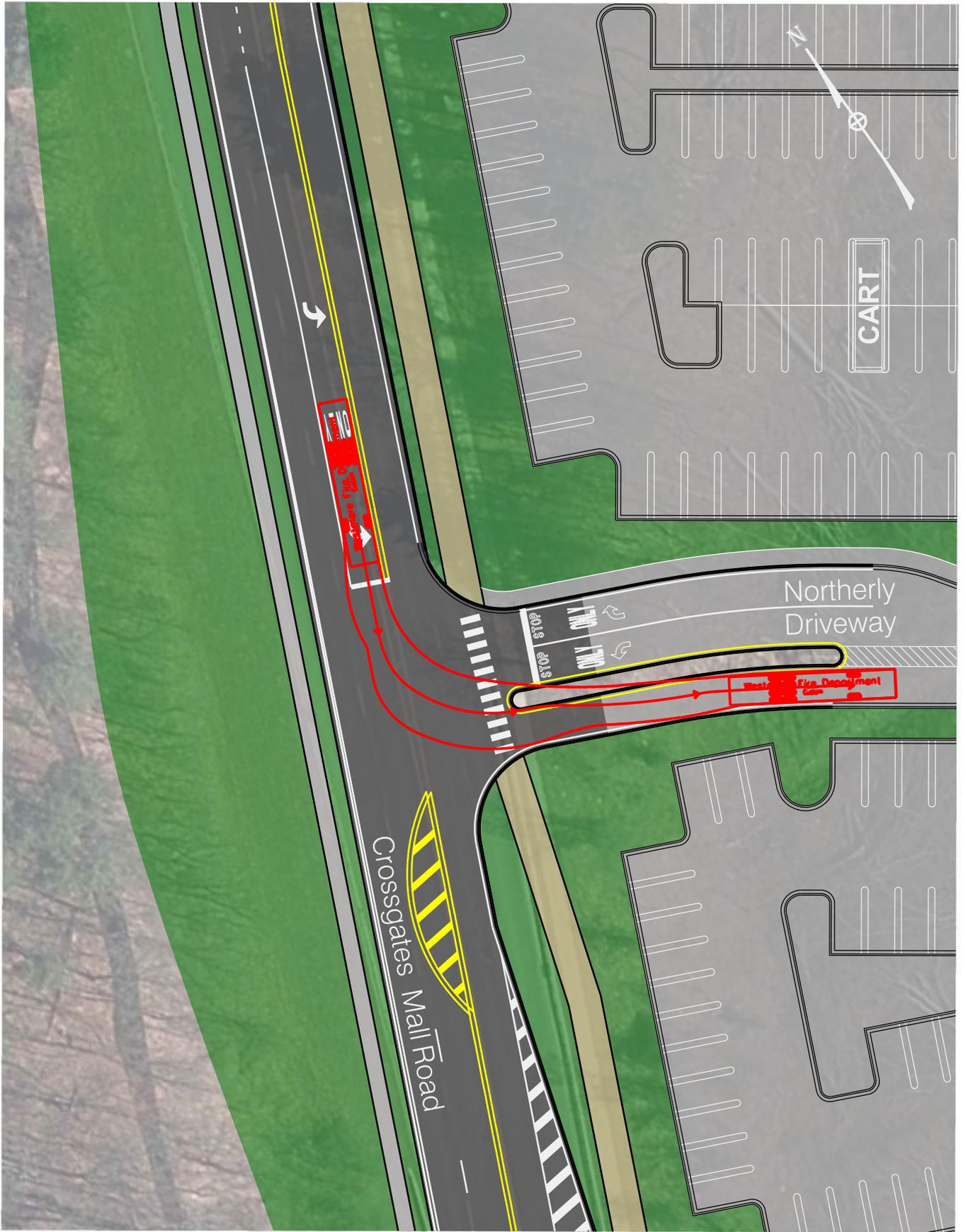
Scale: 1"=2'



Crossgates Mall Road at I-87 Ramps Roundabout (CDTA)

Note: The design of this roundabout was completed by Creighton Manning, LLP for CDTA. Construction is scheduled for Spring of 2023.

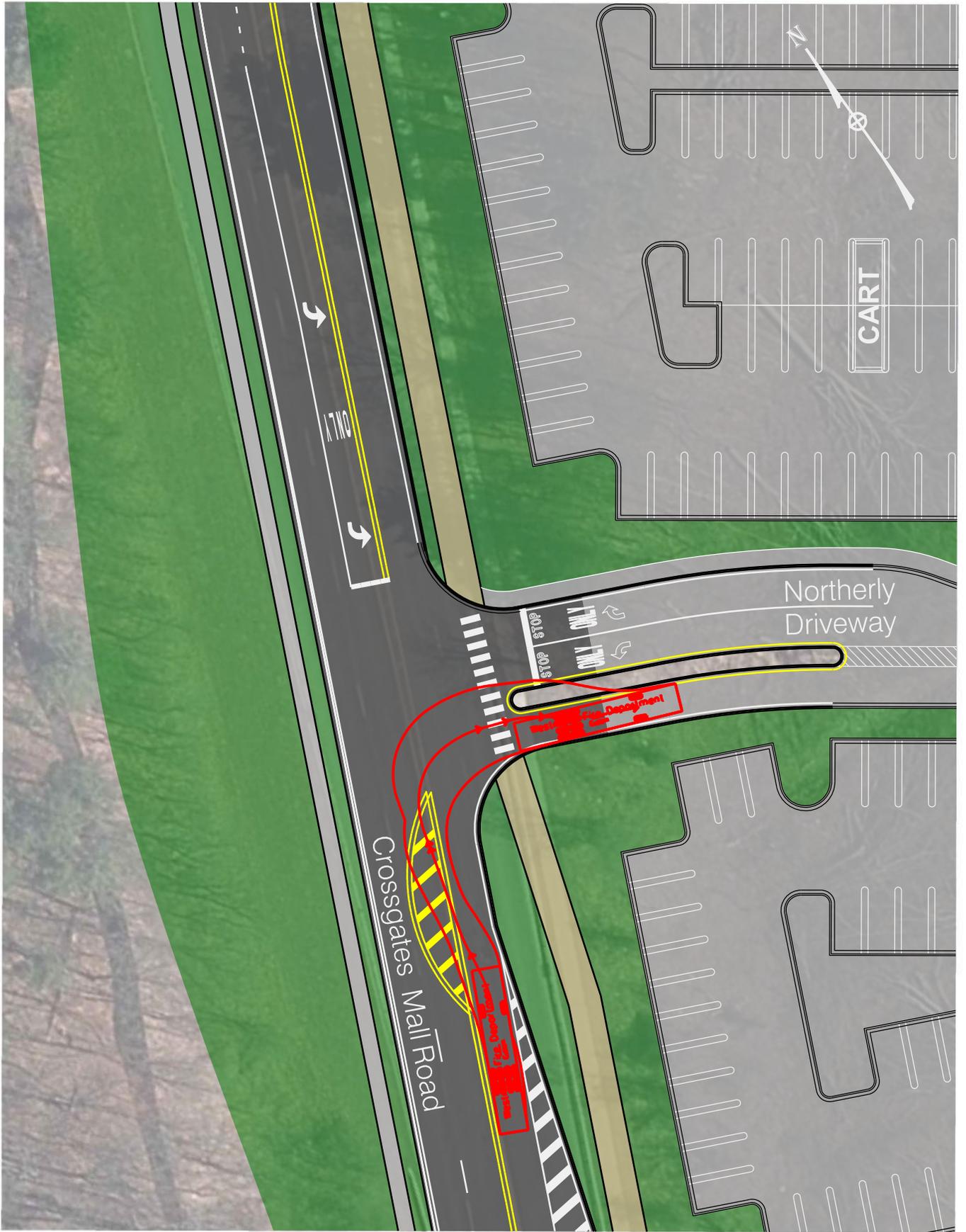
Scale: 1"=40'



LEFT FROM CROSSGATES MALL ROAD TO MAIN ENTRANCE

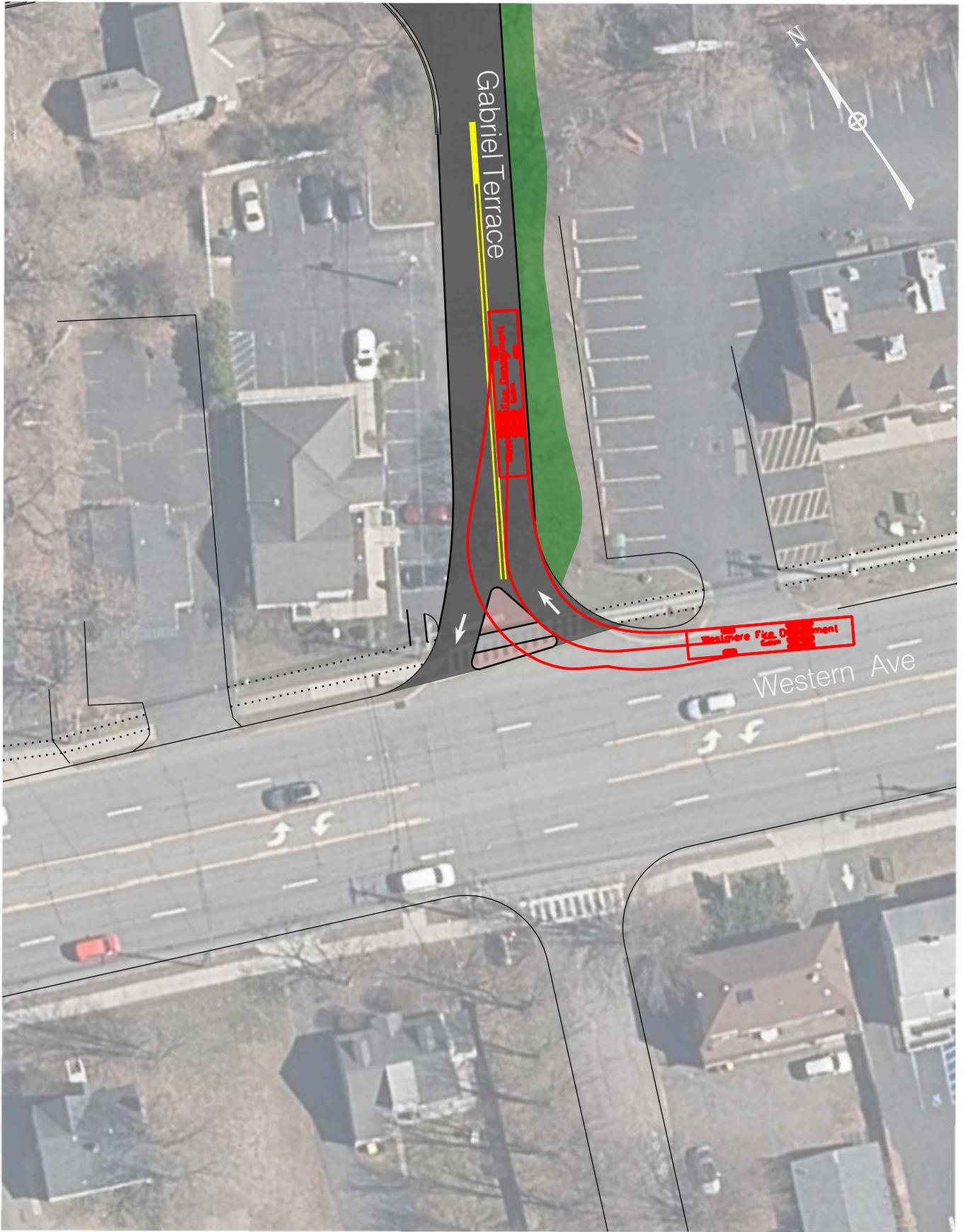


TOWN OF GUILDERLAND
ALBANY COUNTY, NEW YORK





FILE NAME = DGN\$SYTIME0123456
DATE/TIME = DGN\$USER\$NAME



FILE NAME = DGN\$SYTIME0123456
DATE/TIME = DGN\$USER\$NAME

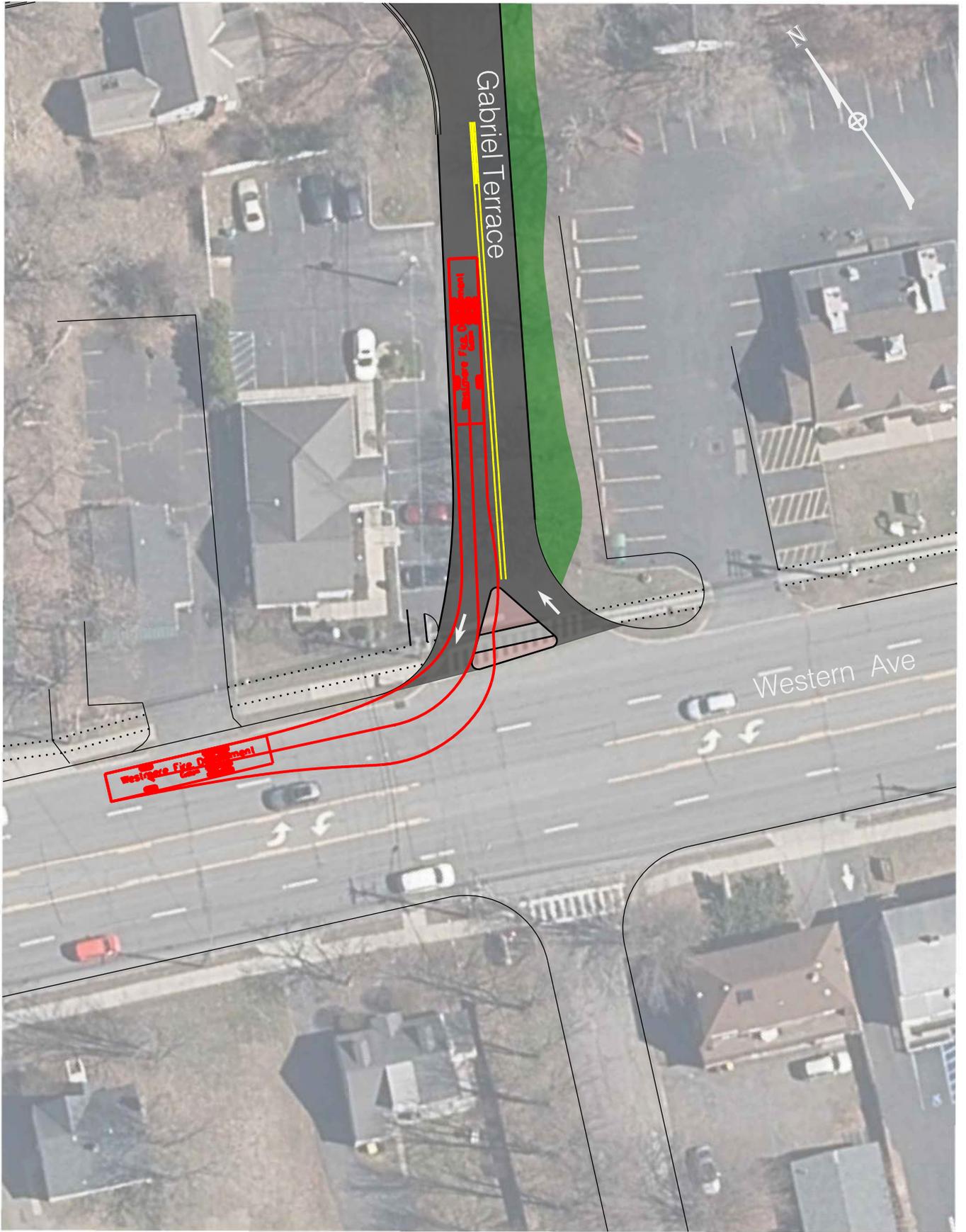
WESTERN AVE TO GABRIEL TERRACE RIGHT IN



TOWN OF GUILDERLAND
ALBANY COUNTY, NEW YORK

PAGE 4 of 6

DATE: 4/11/2023



Gabriel Terrace

Western Ave

Western Ave. Driveway

FILE NAME = DGN\$SYTIME0123456
DATE/TIME = DGN\$SYTIME0123456
USER = DGN\$USERNAME

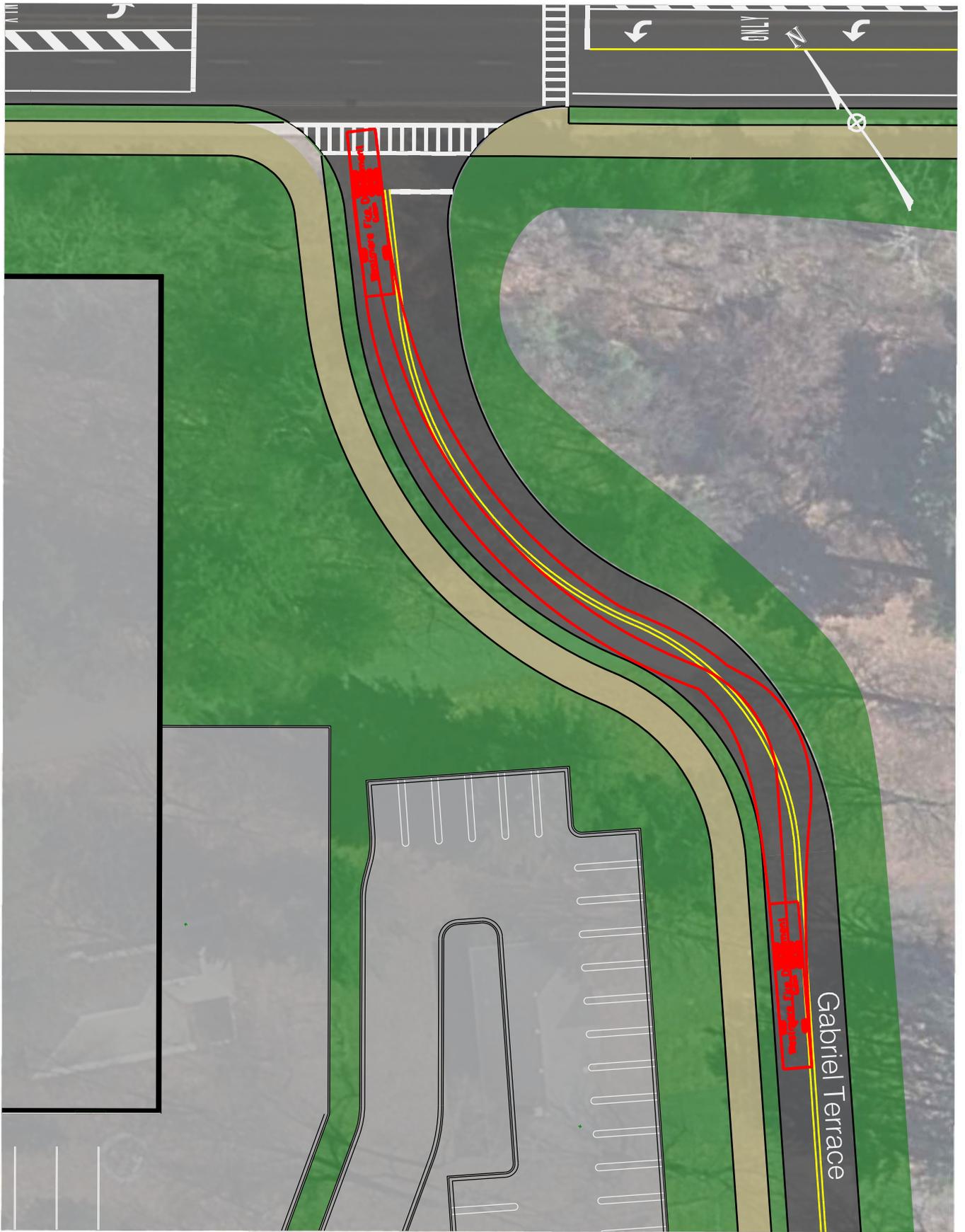
GABRIEL TERRACE TO WESTERN AVE RIGHT OUT



TOWN OF GUILDERLAND
ALBANY COUNTY, NEW YORK

PAGE 5 of 6

DATE: 4/11/2023



FILE NAME = DGN\$SYTIME0123456
 DATE/TIME = DGN\$SYTIME0123456
 USER = DGN\$USER\$NAME

GABRIEL TERRACE S-CURVE	
	TOWN OF GUILDERLAND ALBANY COUNTY, NEW YORK
PAGE 6 of 6	DATE: 4/11/2023

