



North Richland Hills City Council
Work Session Meeting

September 9, 2024

Traffic Discussion North College Circle



City Council Work Session
September 9, 2024

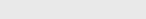


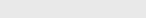
North College Circle: Brief History

Circa 1963

 North College Circle (Platted 1959/60: Smithfield)

 Fort Worth Christian Campus (Est. 1958)

 College Hills Neighborhood

 Early Connections to FM 1938 Davis
Boulevard & Future Holiday Lane



North College Circle - Overview

Designation:

Minor Collector

Length: 2,850 LF

Width: +/- 36'

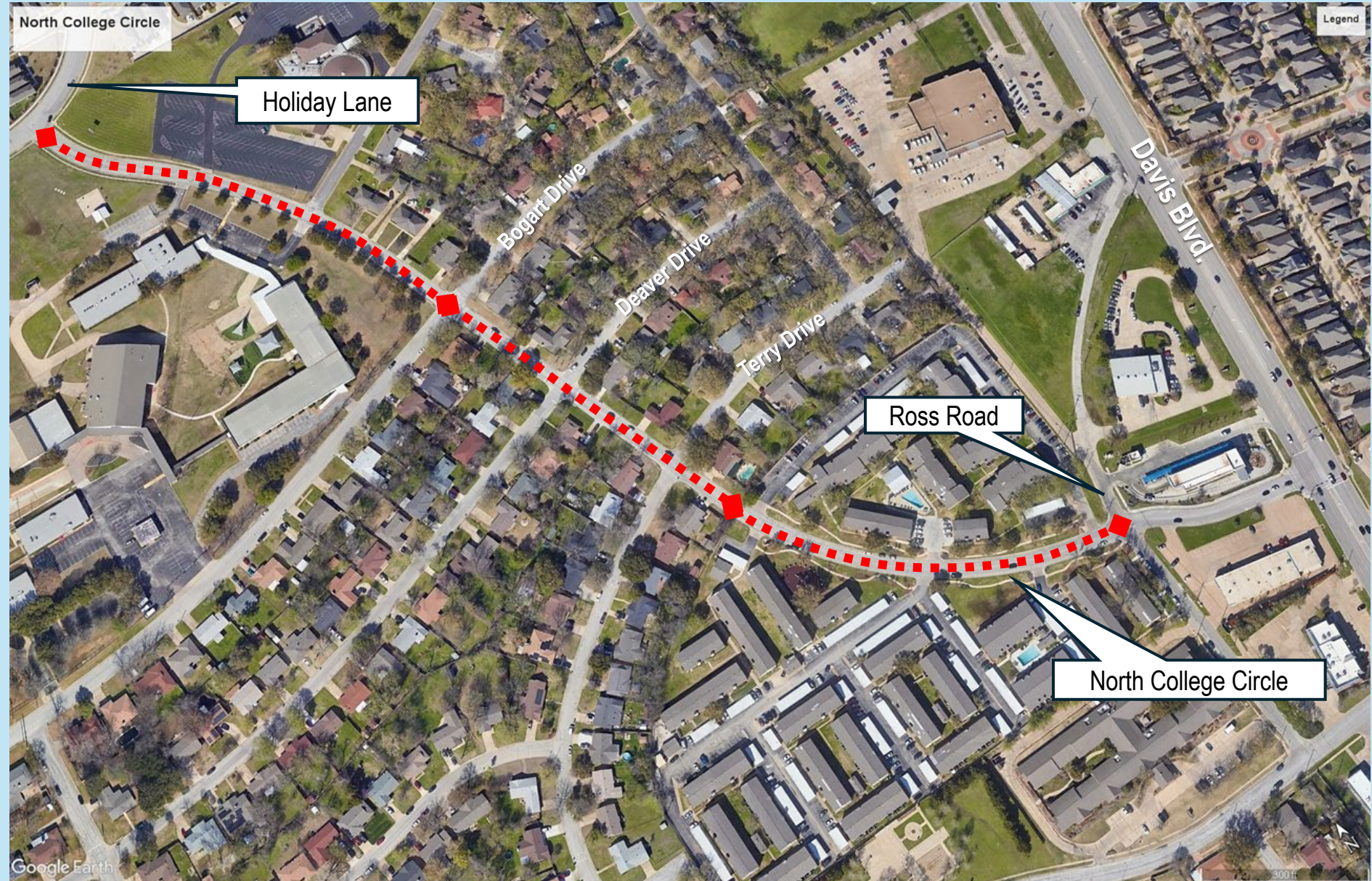
Segment includes:

5 Intersections; 2 of which are controlled by multiway stops and 22 private driveways

Traffic Types: School(s), Churches, Car Wash, Neighborhood, Shopping Center, Apartment and Post Office



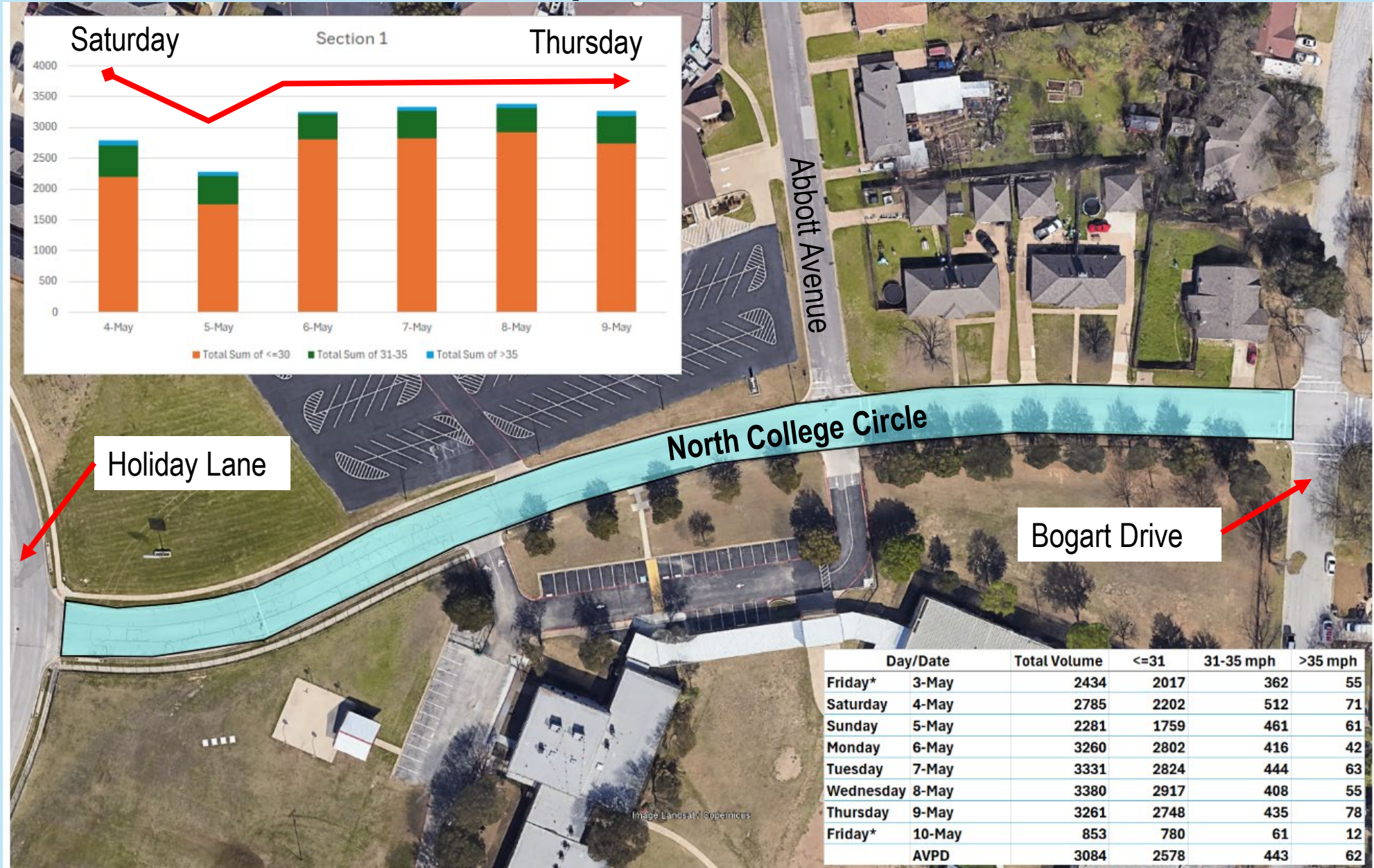
North College Circle: Volume & Speed Study



Study Sections:

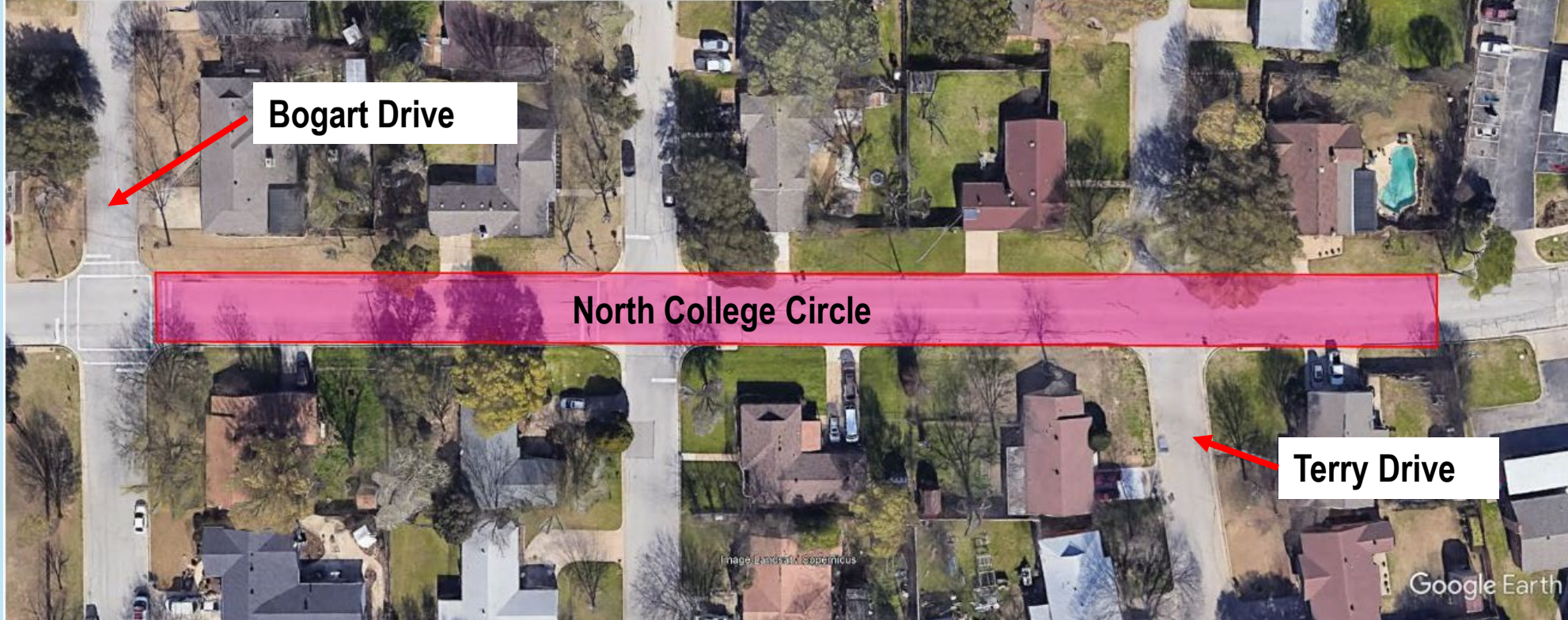
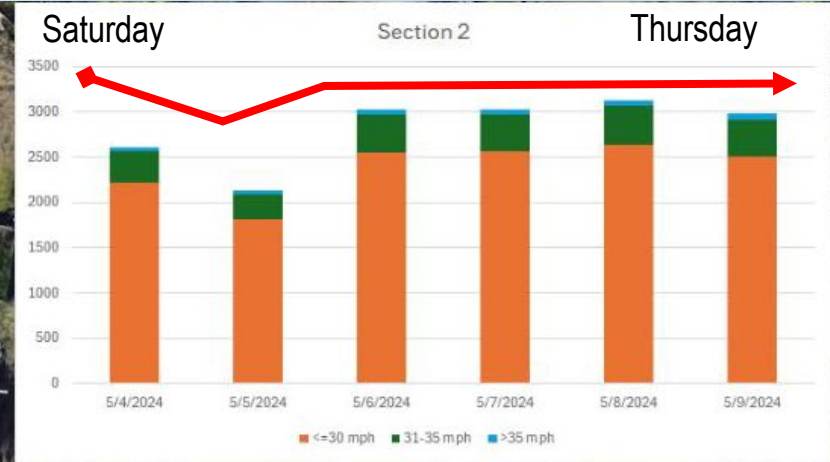
- Section 1:
 - Holiday Lane to Bogart Drive
- Section 2:
 - Bogart Drive to South of Terry Drive
- Section 3:
 - Ross Road to South of Terry Drive
- Data collected May 2024

Volume and Speed Data – Section 1

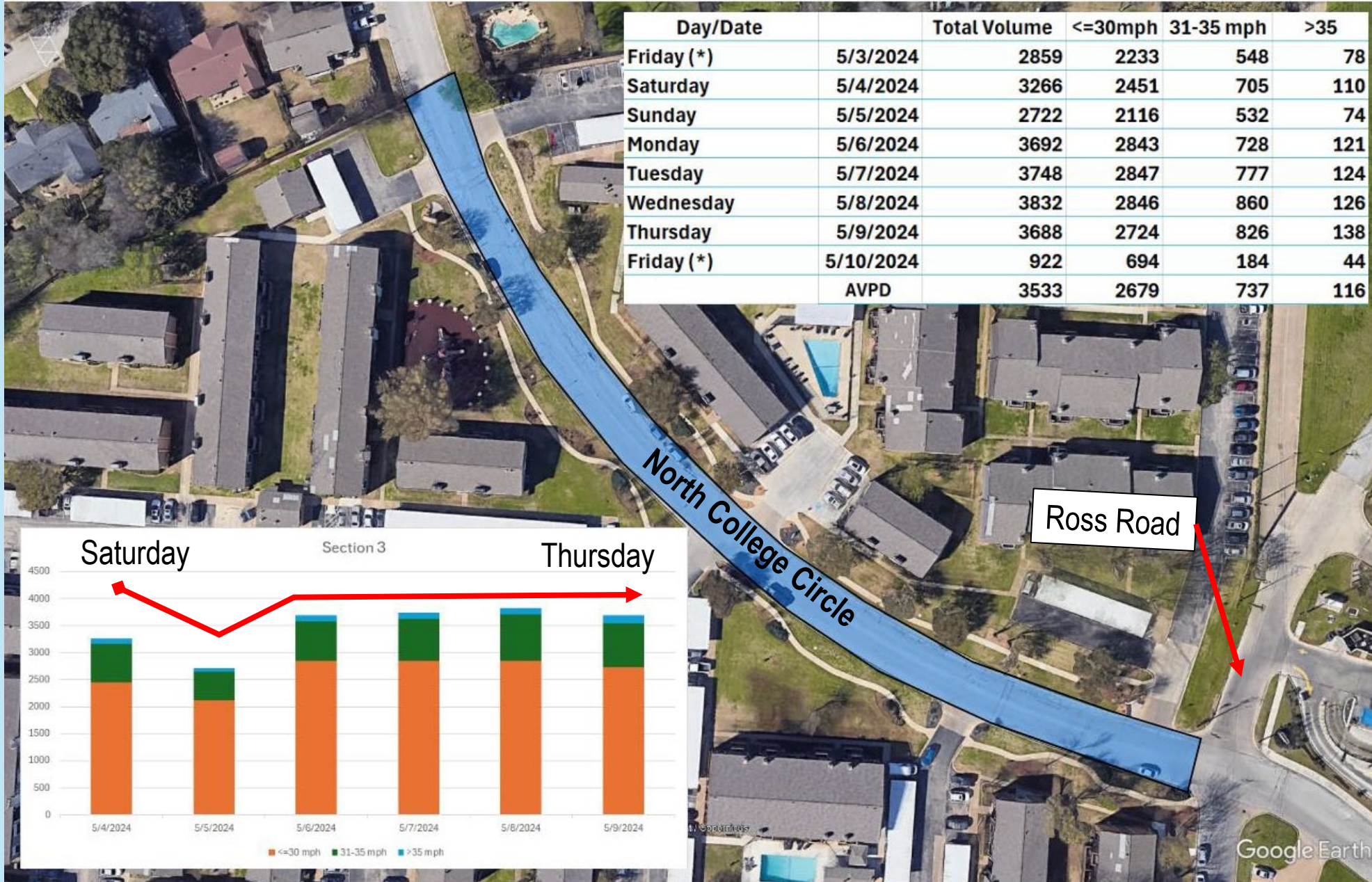


Volume and Speed Data- Section 2

Days		Total Volume	<=30 mph	31-35 mph	>35mph
Friday*	5/3/2024	2317	1970	300	27
Saturday	5/4/2024	2646	2216	345	50
Sunday	5/5/2024	2154	1813	277	38
Monday	5/6/2024	3050	2550	420	53
Tuesday	5/7/2024	3061	2560	410	55
Wednesday	5/8/2024	3166	2632	444	52
Thursday	5/9/2024	3012	2508	407	66
Friday*	5/10/2024	800	680	98	14
AVPD		2887	2418	386	51



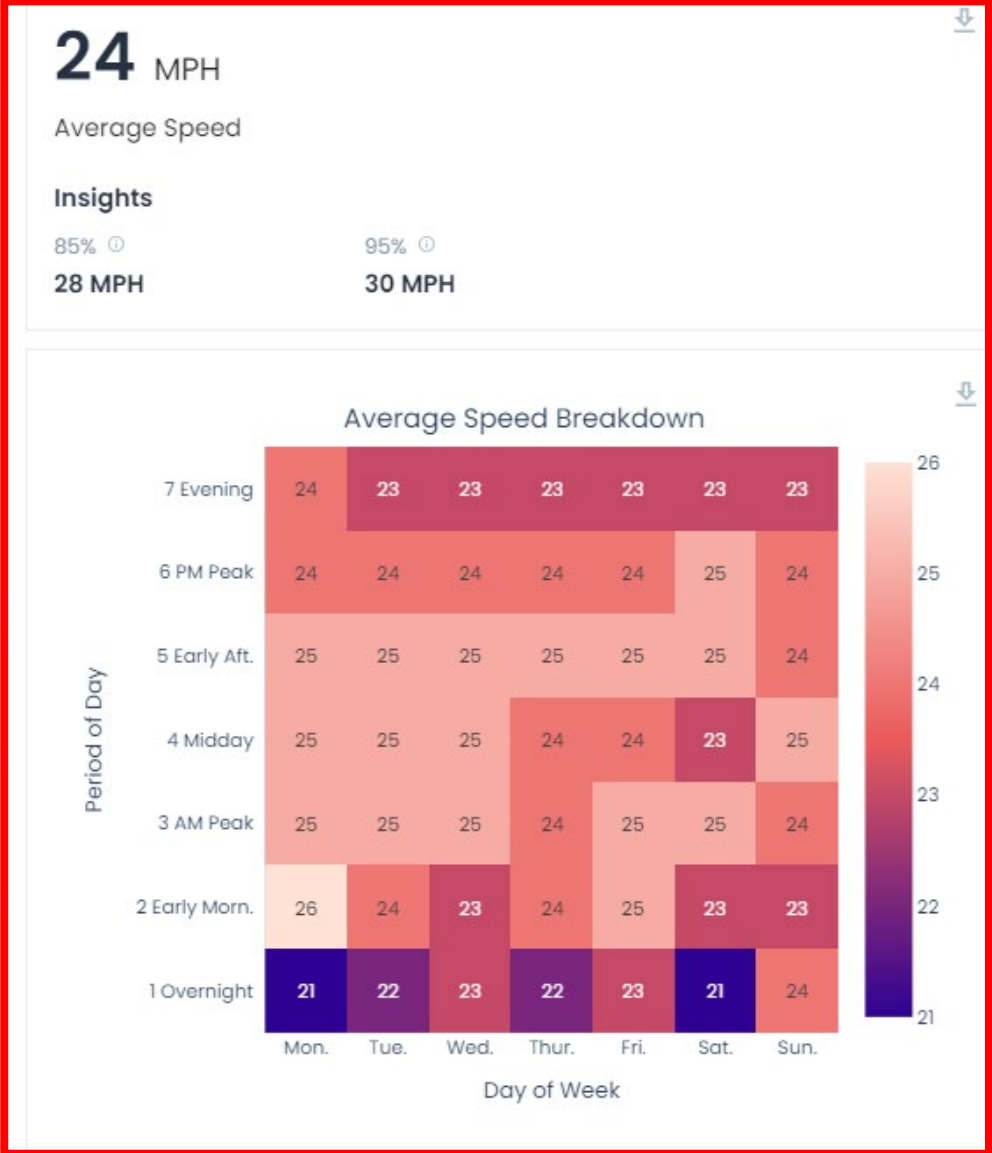
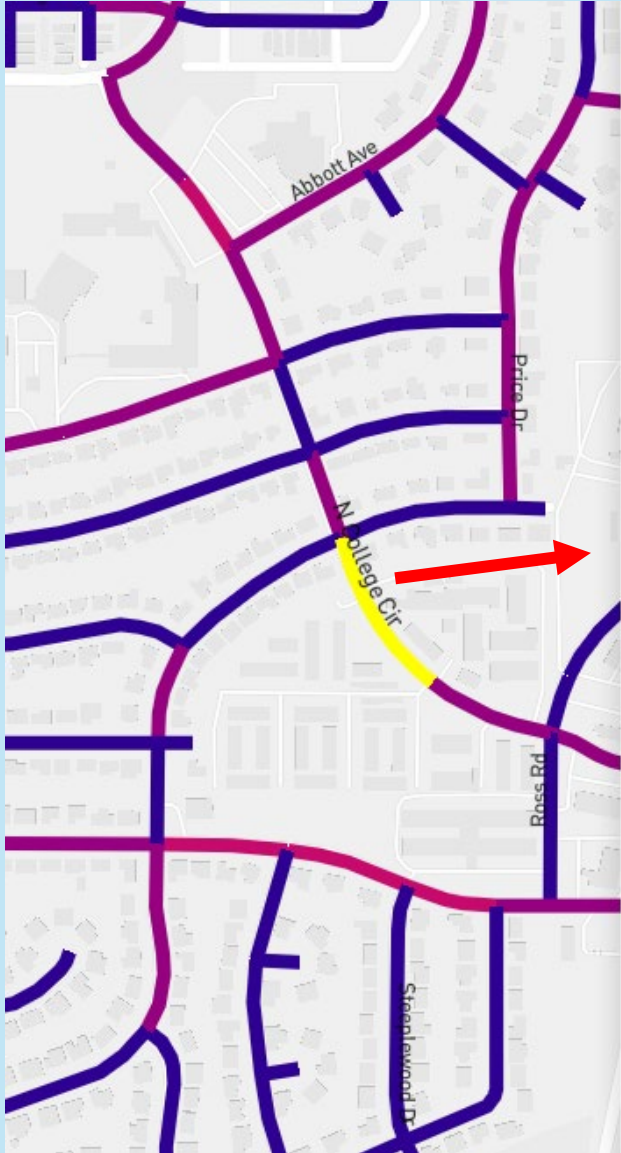
Volume and Speed Data- Section 3



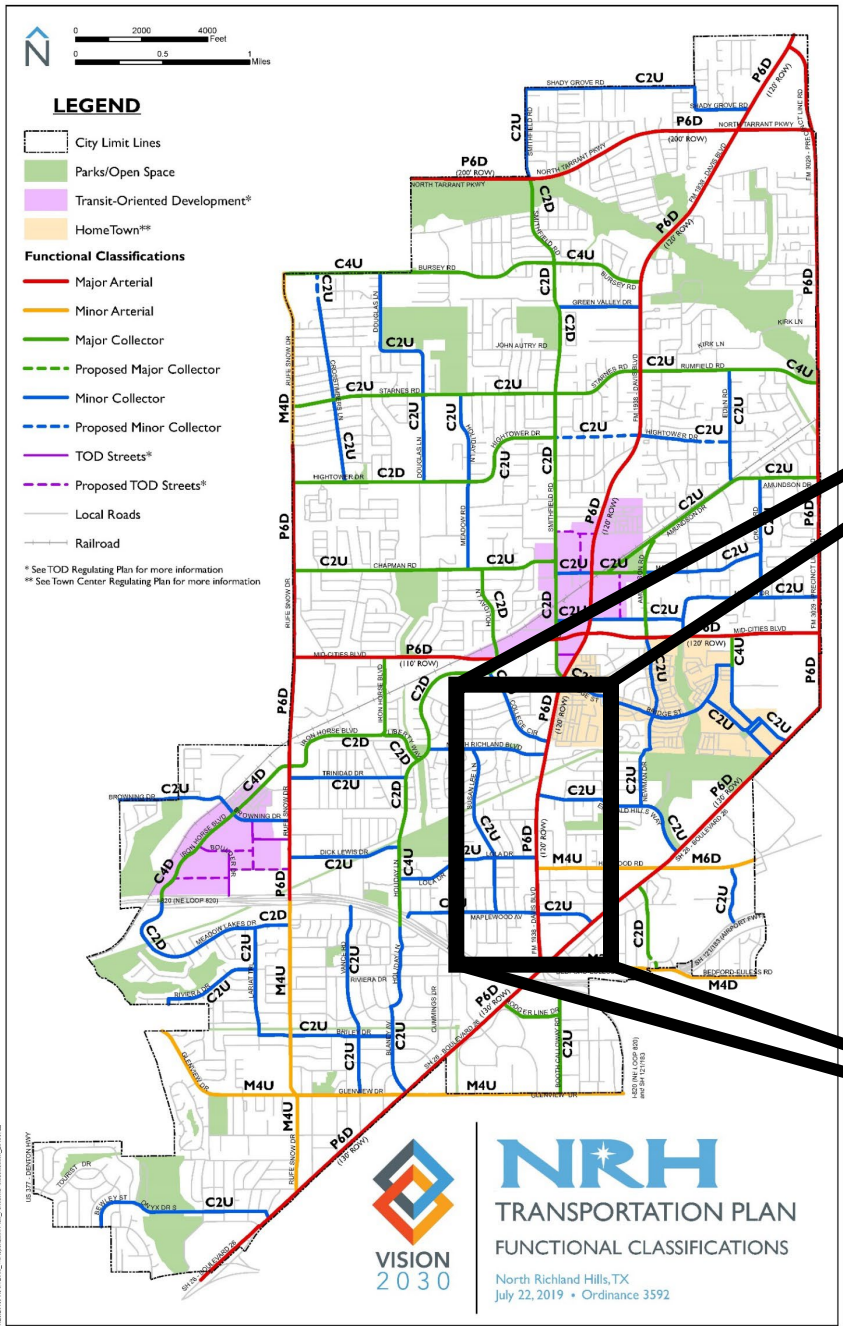
Alternative Speed Data Collection

Urban SDK:

- Connected Vehicle Data
 - Information gathered by vehicles that have internet connectivity and sensors like GPS systems
- Telematics Data
 - In-Car Electronic components and technology that collects, processes, and transmits vehicle data
- Quick Monthly Snapshot of the City with regards to speeds.



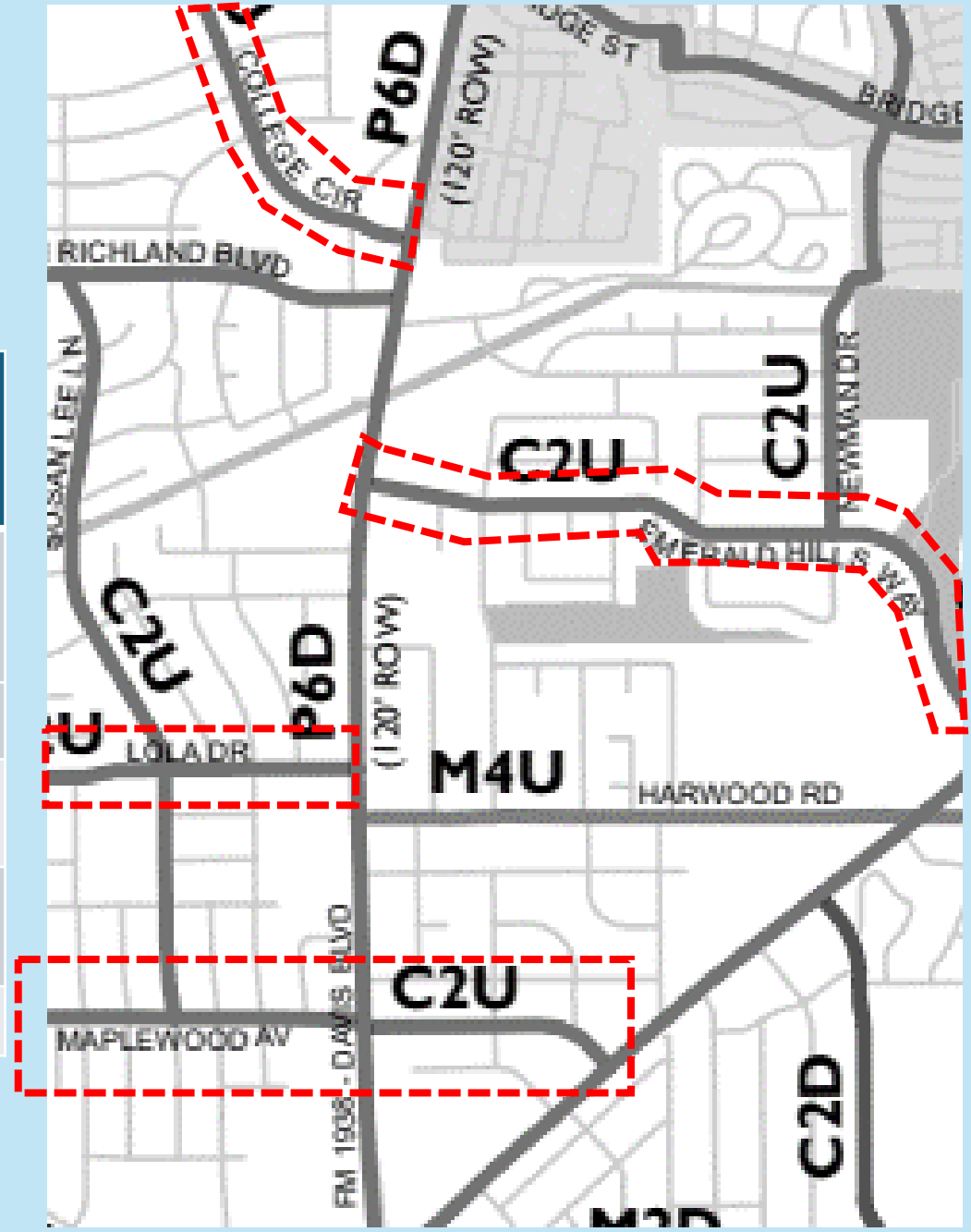
Corridor Comparisons



Intersection Comparisons

Comparable Intersection: Davis Blvd @	Traffic Volume*	% of N. College Circle	Designation
Maplewood Drive	6105 EB/day	+123%	Minor Collector
	3982 WB/day	+45%	
Lola Drive	5197 EB/day	+90%	Minor Collector
Emerald Hills	7831 WB/day	+186%	Minor Collector
N. College Circle	2733 EB/day		Minor Collector

*Volumes are from Tuesday 8/27/2024 12am to Wednesday 8/28/2024 11:59pm



Accident History



Year	Private Property	TxDOT Roadway	City Street
2021	1	3	2
2022	2	4	1
2023	3	5	1
2024 YTD	0	1	3
Totals	6	13	7

City Street Accident Information:

- 7 accidents in 3 ½ Years
- 2 of which are damage to parked vehicles
- 2 of which occurred at the intersection of Ross, unsafe speed and failed to yield ROW.
- 1 accident involving a pedestrian
- 2 accidents involving vehicles turning onto College Circle either from a parking lot or Holiday Lane



Parking Locations

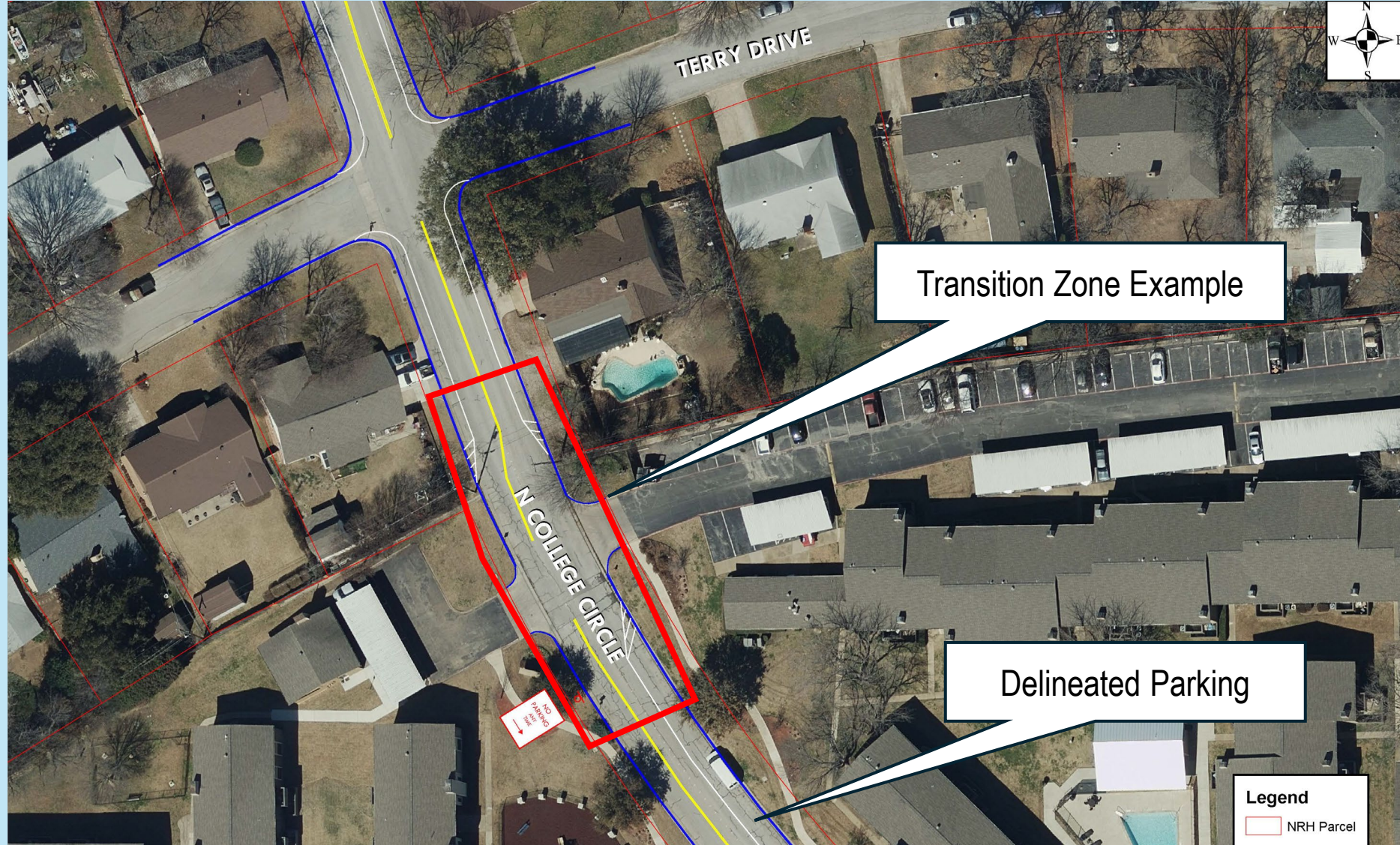
No Parking	
Parking Allowed	

- Parking and Travel Lane Widths Vary
- Lane Delineations are Faded



In-Design: Pavement Marking Plan

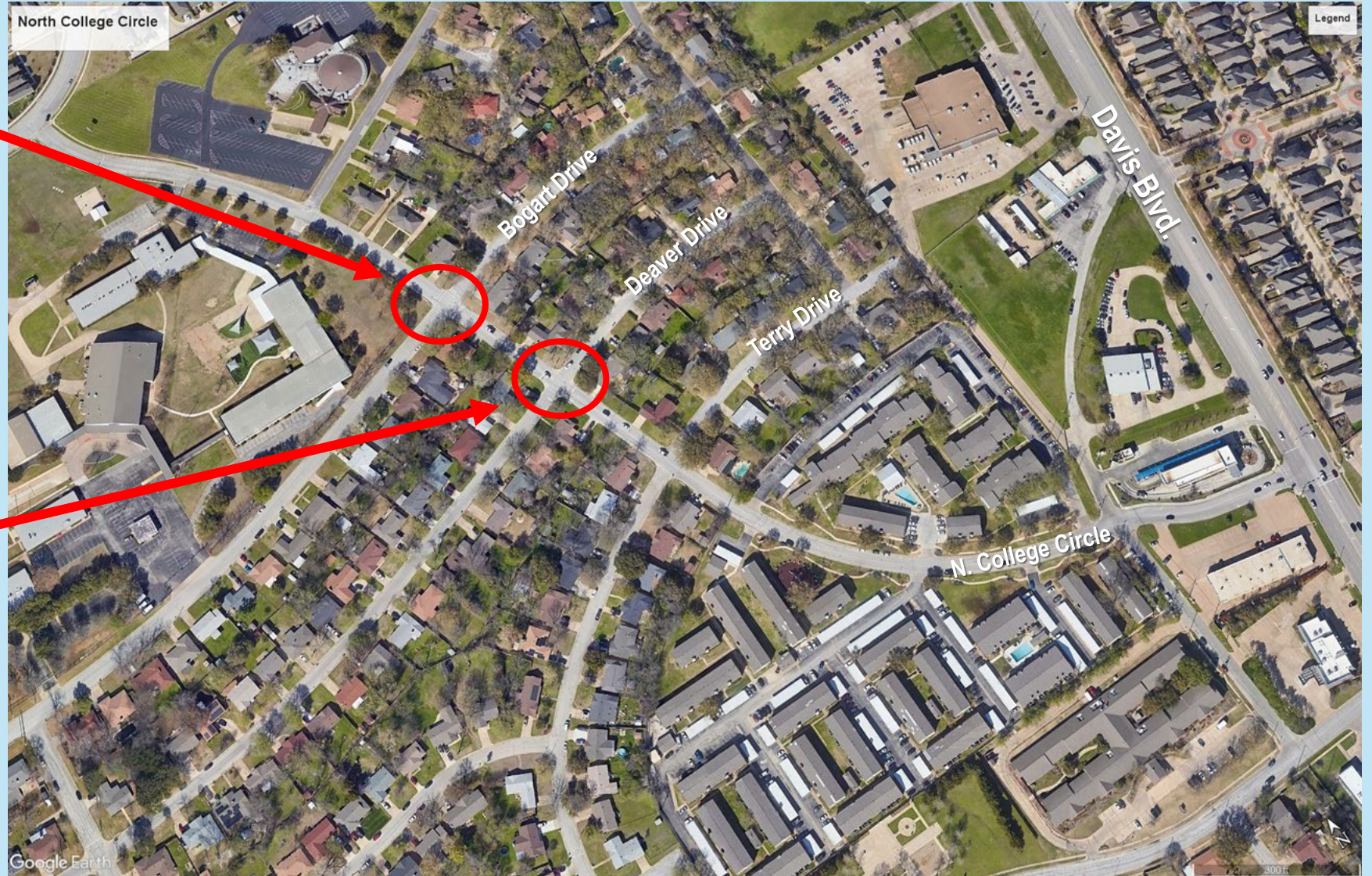
- Currently working on an in-house marking plan that incorporates consistent lane widths in parking areas.
- (2) 12' Travel Lanes
- (1) 12' Parking Lane
- Retains the on-street parking component to provide the friction that keeps travel speeds lower.



Multi-Way Stop Controlled Intersections

Intersections:

- College Circle Drive and Bogart Drive
- College Circle Drive and Deaver Drive
 - Installed as an unwarranted multiway stop control
 - Early 1990s
 - Ordinance No. 1847



Multi-Way Stop Sign Warrant Study Locations

Intersections:

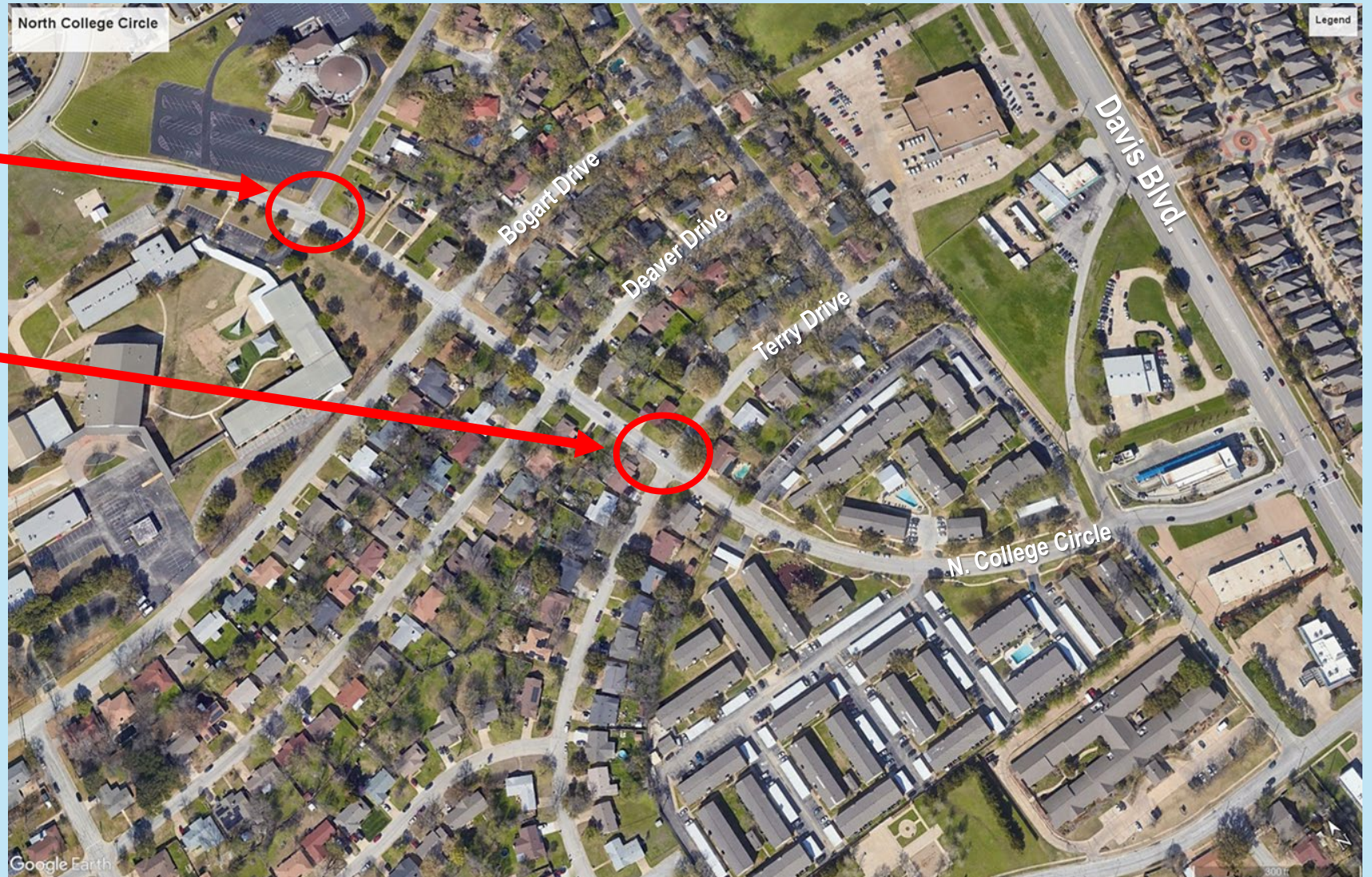
North College Circle @ Abbot Avenue

North College Circle @ Terry Drive

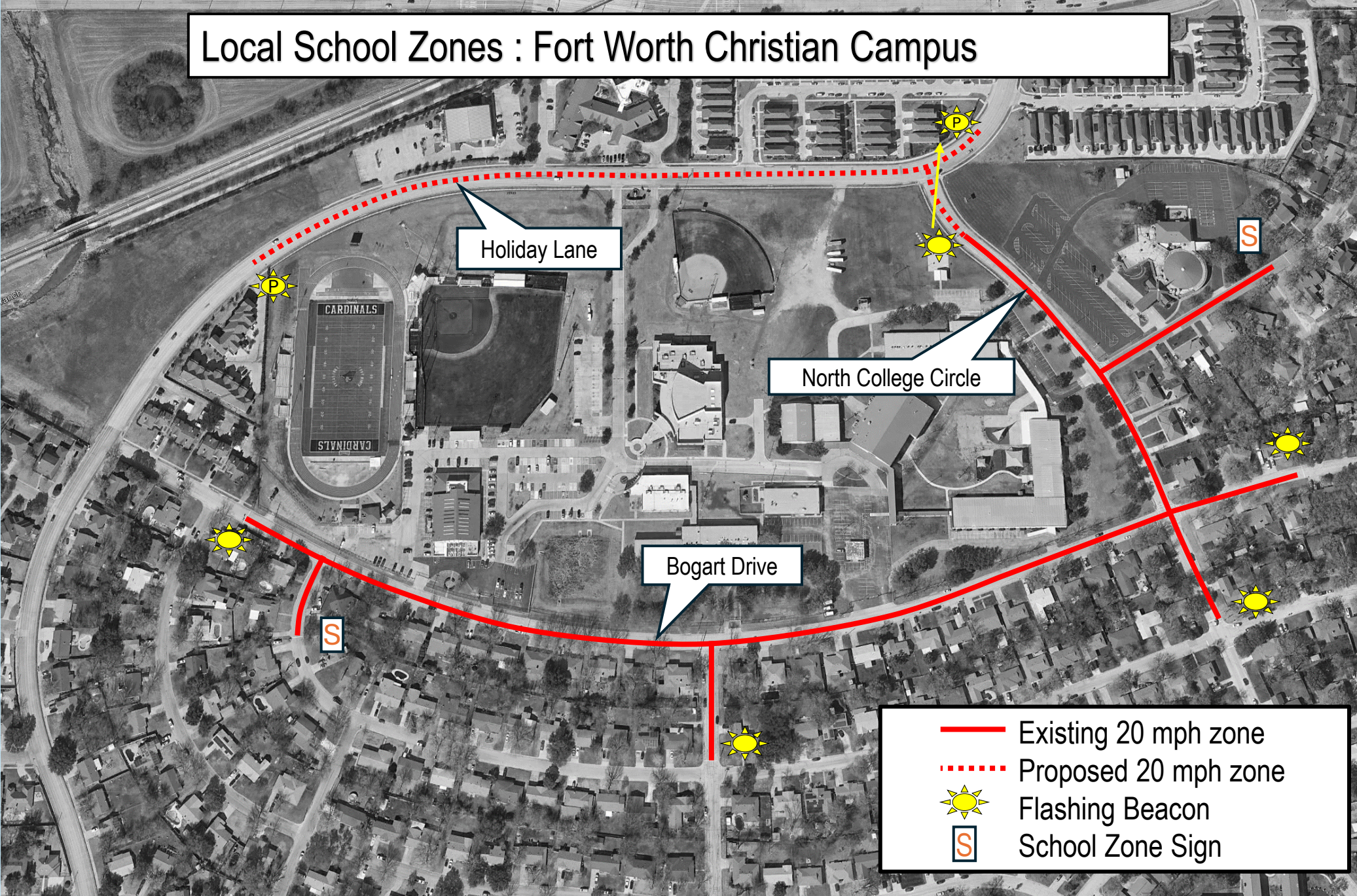
Multi-Way Stop Warrants:

- Traffic Volume
- Accident Experience
- Interim Measure

One Pager: "Stop Sign FAQs"



Local School Zones : Fort Worth Christian Campus



Holiday Lane

North College Circle

Bogart Drive

- Existing 20 mph zone
- - - Proposed 20 mph zone
- ☀ Flashing Beacon
- Ⓢ School Zone Sign

Next Steps:

- Origination/Destination (O/D) Equipment & Study
- Complete In-House Marking Design & Plan for Construction

In-Summary:

- History, Geometry, Types of Traffic and Role of North College Circle
- Volume and Speed Data is Consistent with Types of Traffic on a Minor Collector
- 3 ½ Years of Accident Experience
- On-Road Parking Marking Update
- Future Expansion of the Existing School Zone along Holiday Lane

