8-13-2024 Posting Date **SUM-State Road Widening** PID No. 121863 City of Cuyahoga Falls

Response Due Date: 8-29-2024

Communications Restrictions

Please note the following policy concerning communication between Consultants and the City of Cuyahoga Falls during the announcement and selection process:

During the time period between advertisement and the announcement of final consultant selection, communication with consultants (or their agents) shall be limited as follows:

Communications which are strictly prohibited:

Any discussions or marketing activities related to this specific project.

Allowable communications include:

Technical or scope of services questions specific to the project or RFP requirements.

Project Description

The City of Cuyahoga Falls is requesting Letters of Interest (LoI) from Consultants for engineering services. The services involve completion of an abbreviated ODOT Project Development Process (PDP) for the reconstruction of State Road in the City. Staged submittals to ODOT for review will be abbreviated as is typical for LPA-Let projects such as this one. The improvements are anticipated to include the widening and replacement of pavement from Quick Road to Boulder Boulevard. Services include construction detailed drawings involving pavement replacement, sidewalks and ramps where needed, signage, pavement markings, light poles, and traffic signals including interconnect and pre-emption. This project will be an LPA Let project. Improvements will be in accordance with recommendations presented in the attached traffic study from October 2023 for this corridor, and will also include considerations for pedestrian and bicycle facilities.

Estimated Construction Cost: \$15,000,000.00

Prequalification Requirements

Prequalification requirements for this agreement are listed below. For all prequalification categories other than Cost Accounting - Unlimited the requirement may be met by the prime consultant or a subconsultant.

Also, please note that only individuals (not firms) are prequalified for right of way acquisition and construction inspection. In instances where prequalification for these services is required, a prequalified individual, either employed by the prime consultant or a subconsultant, must be named in order to meet the requirement.

For agreements that require prequalification in Cost Accounting - Unlimited the prime consultant and all subconsultants that provide engineering and design related services must be prequalified in this category. Engineering and Design Related Services are defined as follows:

Program management, construction management, feasibility studies, preliminary engineering, design engineering, surveying, mapping, or architectural related services with respect to a highway construction project subject to 23 U.S.C. 112(a) as defined in 23 U.S.C 112(b)(2)(A); and

Professional services of an architectural or engineering nature, as defined by State law (ORC 5526), which are required to or may logically or justifiably be performed or approved by a person licensed, registered, or certified to provide the services with respect to a highway construction project to 23 U.S.C. 112(a) and defined in 40 U.S.C. 1102(2).

DESIGN SERVICES:

Complex Roadway Design; Complex Right of Way Plan Development; Title Research; Subsurface Utility Engineering; Geotechnical Engineering Services; Geotechnical Testing Laboratory; Geotechnical Field Exploration Services; Geotechnical Drilling Inspection Services; Limited Highway Lighting Design

ENVIRONMENTAL SERVICES:

Environmental Document Preparation - CE; Environmental Document Preparation - Section 4(f); Ecological Surveys; Waterway Permits; Air Quality Analyses; Noise Analyses and Abatement Design; Archaeological Investigations; History/Architectural Investigations; ESA Screening, Phase I ESA and Phase II ESA

COST ACCOUNTING SYSTEM
Unlimited (Prime Consultant Only)

Selection Subfactors

There are no selection subfactors for this project.

Contract Type and Payment Method

This contract will be administrated by the City, and the contract type and payment method will be determined during the scope of services and negotiation process.

Estimated Date of Authorization

It is anticipated that the selected Consultant will be authorized to proceed by September 2024.

Completion Schedule

It is anticipated that City of Cuyahoga Falls will submit PS&E Package to ODOT District 4 by August 17, 2027.

Suspended or Debarred Firms

Firms included on the current Federal list of firms suspended or debarred are not eligible for selection.

Terms and Conditions

The City of Cuyahoga Falls terms and conditions will be included in all agreements selected under this request for letters of interest.

Compliance with Title VI of the Civil Rights Act of 1964

The City of Cuyahoga Falls, in accordance with Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this advertisement, all bidders including disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin, sex, age, disability, low-income status, or limited English proficiency in consideration for an award.

Selection Procedures

The LPA will directly select a consultant based on the Letter of Interest (LoI). The requirements for the LoI and the Programmatic Consultant Selection Rating Form that will be used to select the consultant are shown below.

Firms interested in being considered for selection should respond by submitting Eight (8) copies of the Letter of Interest to the following address by 4:30 PM on the response due date listed above. Alternatively, an electronic version may be submitted via email to the City Engineer, Tony Demasi, at demasitv@cityofcf.com. The electronic version shall be a PDF attachment and follow the same guidelines as the hard copy requirements. It is the responsibility of the consultant to follow up after electronic submission, prior to the deadline, to verify the email and the attachments were received. (Main Office: 330-971-8180, or demasitv@cityofcf.com)

Tony Demasi, City Engineer City of Cuyahoga Falls 2310 Second Street Cuyahoga Falls, Ohio 44223

Responses received after 4:30 PM on the response due date will not be considered.

Scope of Services

The Scope of Services document is included below.

Requirements for Letters of Interest, Programmatic Selection Process

- A. Instructions for Preparing and Submitting a Letter of Interest
 - 1. Provide the information requested in the Letter of Interest Content (Item B below), in the same order listed, in a letter signed by an officer of the firm. Do not

send additional forms, resumes, brochures, or other material.

- 2. Letters of Interest shall be limited to ten (10) 8½" x 11" single sided pages plus two (2) pages for the Project Approach (Item B.5 below).
- 3. Please adhere to the following <u>requirements</u> in preparing and binding letters of interest:
 - a. Please use a minimum font size of 12-point and maintain margins of 1" on all four sides.
 - b. Page numbers must be centered at the bottom of each page.
 - c. Use $8\frac{1}{2}$ " x 11" paper only.
 - d. <u>Bind letters of interest by stapling at the upper left hand corner only</u>. Do not utilize any other binding system.
 - e. <u>Do not</u> provide tabbed inserts or other features that may interfere with machine copying.

B. Letter of Interest Content

- 1. List the types of services for which your firm is currently prequalified by the Ohio Department of Transportation.
- 2. List significant subconsultants, their current prequalification categories and the percentage of work to be performed by each subconsultant.
- List the Project Manager and other key staff members, including key subconsultant staff. Include project engineers for important disciplines and staff members that will be responsible for the work, and the project responsibility of each.
 - Address the experience of the key staff members on similar projects, and the staff qualifications relative to the selection subfactors noted.
- 4. Describe the capacity of your staff and their ability to perform the work in a timely manner, relative to present workload, and the availability of the assigned staff.
- 5. Provide a description of your Project Approach, not to exceed two pages. Confirm that the firm has visited the site and address your firm's: 1) Technical approach; 2) Understanding of the project; 3) Qualifications for the project; 4) Knowledge and experience concerning relevant ODOT and local standards, procedures and guidance documents; 5) Innovative ideas; 6) Project specific plan for ensuring increased quality, reduced project delivery time and reduced project costs.

Items 1 thru 4 must be included within the 10-page body of the LoI. Remaining space within the ten (10) pages may be utilized to provide personnel resumes or additional information concerning general qualifications.

Consultant Selection Rating Form	1
for	
Programmatic Selections	

Project:	
PID:	
Project Type:_	
District:	
Selection Con	nmittee Member

Firm Name:

Category	Total Value	Scoring Criteria	Score
Management & Team			
Project Manager	10	See Note 1, Exhibit 1	
Strength/Experience of Assigned Staff including Subconsultants	25	See Note 2, Exhibit 1	
Firm's Current Workload/ Availability of Personnel	10	See Note 4, Exhibit 1	
Consultant's Past Performance	30	See Note 3, Exhibit 1	
Project Approach	25		
Total	100		

If Applicable: Adequate good faith efforts made to meet DBE goal Y/N

Exhibit 1 - Consultant Selection Rating Form Notes

1. The proposed project manager for each consultant shall be ranked, with the highest ranked project manager receiving the greatest number of points, and lower ranked project managers receiving commensurately lower scores. The rankings and scores should be based on each project manager's experience on similar projects and past performance for the LPA and other agencies. The selection committee may contact ODOT and outside agencies if necessary. Any subfactors identified should be weighed heavily in the differential scoring.

Differential scoring should consider the relative importance of the project manager's role in the success of a given project. The project manager's role in a simple project may be less important than for a complex project, and differential scoring should reflect this, with higher differentials assigned to projects that require a larger role for the project manager.

2. The experience and strength of the assigned staff, including subconsultant staff, should be ranked and scored as noted for Number 1 above, with higher differential scores assigned on more difficult projects. Any subfactors identified in the project notification should be weighed heavily in the differential scoring.

As above, other agencies may be contacted.

3. The consultants' past performance on similar projects shall be ranked and scored on a relative, differential scoring type basis, with the highest ranked consultant receiving a commensurately greater number of points. The selection team should consider ODOT CES performance ratings if available, and consult other agencies as appropriate. The use of CES ratings shall place emphasis on the specific type of services requested.

The differential scoring should consider the complexity of the project and any subfactors identified in the project notification.

4. The consultant's workload and availability of qualified personnel, equipment and facilities shall be ranked and scored on a relative, differential scoring type basis. The scoring shall consider quantifiable concerns regarding the ability of a firm (or firms) rated higher in other categories to complete the work with staff members named in the letter of interest.

Scope of Services

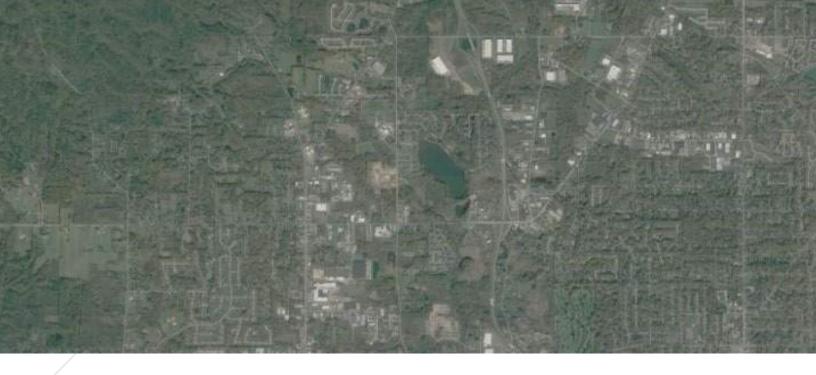
This project includes widening State Road (CR 16) between Quick Road (CR 41) and Boulder Boulevard. The project will be constructed based on the recommendations in the "State Road Corridor Study" completed by GPD Group in October, 2023. Widening will occur by constructing a center two way left turn lane between Quick Road and Boulder Boulevard, approximately 1.5 miles. In addition to the two way left turn lane, a single lane roundabout will be constructed at the State Road and Quick Road intersection. A sidewalk will be built on the west side of State Road from Quick Road to Boulder Boulevard.

The road is classified as a Minor Arterial and has a variable Right of Way between widths of 80 - 120 feet. The existing road has graded shoulders and limited underground storm sewer.

The State Road corridor (between Quick Road and Boulder Boulevard) in the City of Cuyahoga Falls has an ADT of approximately 10,063 vehicles. This project proposes to eliminate the operational, safety and congestion deficiencies identified in the October 2023 traffic study by adding a center two-way left turn lane to provide turning traffic a way to exit the travel lane to allow thru motorists to continue traveling with no delay, and improve the operation of the State Road/Quick Road intersection by use of a roundabout.

Current project schedule

07/01/2024
07/01/2026
09/10/2027
08/17/2027
09/17/2027
11/12/2027
12/17/2027
04/01/2028
08/31/2029



CORRIDOR STUDY

CITY OF CUYAHOGA FALLS, SUMMIT COUNTY, OHIO

STATE ROAD CORRIDOR STUDY

PREPARED BY GPD GROUP FOR: CITY OF CUYAHOGA FALLS
OCTOBER 2023



STATE ROAD CORRIDOR STUDY

City of Cuyahoga Falls, Summit County

Prepared For:

City of Cuyahoga Falls 2310 Second Street Cuyahoga Falls, Ohio 44221

Prepared By:

GPD Group 520 South Main Street, Suite 2531 Akron, Ohio 44311

October 2023

Prepared
Under The Responsible Charge of:

MICHAEL

HOBBS
E-60713
Charge of:

November

Michael A. Hobbs, P.E., PTOE

Registration No. 68713

Date

Certification No. 1346

urtis 🖊 Deibel, P.E., RSP2 Registration No. 81305 Certification No. 299

Prepared By:



November 3, 2023

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I. Purpose:

At the request of the City of Cuyahoga Falls, GPD Group was tasked with completing a Corridor Study for the State Road Corridor, between Quick Road and Boulder Boulevard. The purpose of this study is to investigate possible improvements to improve the State Road corridor from both an operations and safety perspective throughout the study area. This study will determine if any operational or safety deficiencies exist within the study area and what improvements are necessary to correct any deficiencies that are identified.

II. Project Setting:

Study Area

The limits of the corridor encompass State Road with a southern terminus of Quick Road and a northern terminus of Boulder Boulevard. The land uses surrounding the study corridor are primarily residential land uses with some commercial and industrial land uses. See **Figure 1** for the project location map and **Figure 2** for an aerial photograph.

Existing Roadway System

State Road currently exists as a two-lane asphalt roadway with one travel lane in each direction with left turn lanes at some intersections throughout the study area. The current posted speed limit on State Road is 35 miles per hour (mph). According to information obtained from the Ohio Department of Transportation's (ODOT) website, State Road is classified as a minor arterial roadway.

Quick Road currently exists as a two-lane asphalt roadway with one travel lane in each direction throughout the study area. The current posted speed limit on Quick Road is 35 mph. According to information obtained from ODOT's website, Quick Road is classified as a local roadway.

Ten existing intersections are currently located within the study area that are of special interest to this project. The ten existing intersections included in this study are as follows:

Quick Road / State Road Connector Intersection:

This intersection is currently unsignalized with the State Road Connector approach operating under stop control. The intersection consists of three approaches with the following lane configurations: WB State Road Connector – one lane (left-right), NB Quick Road – one lane (left-thru), and SB Quick Road – one lane (thru-right).



State Road / Quick Road / Audi Dealership Southern Drive Intersection:

This intersection is currently unsignalized with the approaches of Quick Road and Audi Dealership Southern Drive operating under stop control. The intersection consists of four approaches with the following lane configurations: EB Quick Road – one lane (thru-right), WB Audi Dealership Northern Drive – one lane (left-thru-right), NB State Road – two lanes (left, thru-right), and SB State Road – two lanes (left, thru-right).

State Road / Quick Road Connector / Audi Dealership Northern Drive Intersection:

This intersection is currently unsignalized with the approaches of Quick Road Connector and Audi Dealership Northern Drive operating under stop control. The intersection consists of four approaches with the following lane configurations: EB Quick Road Connector – one lane (left-thru-right), WB Audi Dealership Northern Drive – one lane (left-thru-right), NB State Road – one lane (left-thru-right), and SB State Road – two lanes (left, thru-right).

State Road / Falls Industrial Parkway Intersection:

This intersection is currently unsignalized with the Falls Industrial Parkway approach operating under stop control. The intersection consists of three approaches with the following lane configurations: WB Falls Industrial Parkway – one lane (left-right), NB State Road – one lane (left-thru), and SB State Road – one lane (thru-right).

State Road / Woodridge Elementary School Southern Drive Intersection:

This intersection is currently unsignalized with the Woodridge Elementary School Southern Drive approach operating under stop control. The intersection consists of three approaches with the following lane configurations: EB Woodridge Elementary School Southern Drive – one lane (left-right), NB State Road – one lane (left-thru), and SB State Road – one lane (thru-right).

State Road / Woodridge Elementary School Northern Drive Intersection:

This intersection is currently unsignalized with the Woodridge Elementary School Northern Drive approach operating under stop control. The intersection consists of three approaches with the following lane configurations: EB Woodridge Elementary School Northern Drive – one lane (left-right), NB State Road – two lanes (left, thru), and SB State Road – one lane (thru-right).



State Road / Salt Creek Run Intersection:

This intersection is currently unsignalized with the Salt Creek Run approach operating under stop control. The intersection consists of three approaches with the following lane configurations: EB Salt Creek Run – one lane (left-right), NB State Road – one lane (left-thru), and SB State Road – one lane (thru-right).

State Road / Buckeye Sports Drive / Storr-it Drive Intersection:

This intersection is currently unsignalized with the approaches of Buckeye Sports Drive and Storr-it Drive operating under stop control. The intersection consists of four approaches with the following lane configurations: EB Buckeye Sports Drive – one lane (left-thru-right), WB Storr-it Drive – one lane (left-thru-right), NB State Road – one lane (left-thru-right), and SB State Road – one lane (left-thru-right).

State Road / Falls Commerce Parkway / J&K Lawn Equipment Drive Intersection:

This intersection is currently unsignalized with the approaches of Falls Commerce Parkway and J&K Lawn Equipment Drive operating under stop control. The intersection consists of four approaches with the following lane configurations: EB J&K Lawn Equipment Drive – one lane (left-right), WB Falls Commerce Pkwy – one lane (left-right), NB State Road – one lane (left-thru-right), and SB State Road – one lane (left-thru-right).

State Road / Boulder Boulevard Intersection:

This intersection is currently unsignalized with the Boulder Boulevard approach operating under stop control. The intersection consists of three approaches with the following lane configurations: EB Boulder Boulevard – one lane (left-right), NB State Road – one lane (left-thru), and SB State Road – one lane (thru-right).

III. Traffic Volumes:

For this study, GPD performed turning movement traffic counts at nine (9) study intersections from 7:00 AM – 7:00 PM. These traffic counts were conducted between 08/30/2023 and 09/14/2023. Based on the turning movement counts, the AM peak hour of the State Road corridor was found to occur from 7:15 AM – 8:15 AM, while the PM peak hour was found to occur from 4:30 PM – 5:30 PM. See **Appendix A** for printouts of the turning movement counts.



'No-Build' Traffic Volumes

Design hour volumes (DHVs) were developed for the study area using the peak hour to design hour factors that are published by the ODOT Office of Statewide Planning and Research. The design hour factors utilized to develop the DHVs are dependent upon the roadway's functional classification as well as the day of the week and month the count was performed. These design hour factors were then applied to the raw turning movement counts to convert the existing volumes to design hour volumes. For this study, the following design hour factors were used, based on the date the intersection was counted:

- August Wednesday DHV = 1.12
- August Thursday DHV = 1.10
- September Tuesday and Wednesday DHV = 1.13
- September Thursday DHV = 1.10

Future traffic projections were obtained from ODOT's Traffic Forecast Modeling System (TFMS) tool which is contained in **Appendix B**. Based on the results from the TFMS, surrounding land uses and engineering judgment a +1.00% annual growth rate was determined to be appropriate for the study area. The +1.00% growth rate was then applied to the design hourly volumes to develop the Opening Year 2028 and Design Year 2048 volumes. **Figure 3** shows the Opening Year 2028 peak hour traffic volumes while **Figure 4** shows the Design Year 2048 peak hour traffic volumes.

IV. Traffic Analysis:

Safety Analysis

Crash data was obtained from ODOT's GIS Crash Analysis Tool (GCAT) for the calendar years of 2018-2022 for the entire study area. A total of 26 crashes were reported within the study area and were analyzed as part of this project. These crashes include 13 rear-end, 4 left turn, 2 sideswipe – passing, 2 angle, 1 sideswipe – meeting, 1 right turn, 1 fixed object, 1 backing, and 1 head-on related crash. 73% of the crashes occurred in daylight, 65% occurred on dry pavement, and 35% of the crashes were injury crashes. See **Appendix C** for collision diagrams of the study area and **Appendix D** for crash data summary and charts.

The leading crash types within the study area are the 13 rear-end related crashes. Crash diagrams included in **Appendix C** show that most of the rear-end related crashes occur at nearby minor roads/driveways, the rear-end crashes in the study area may be contributed to vehicles stopped to make a left or a right turn from the single-lane major road approach onto the minor road/driveway. The addition of the two-way left turn lane (TWLTL) may mitigate this issue by providing a turning lane to separate turning vehicles from through traffic until turning vehicles find a gap in the opposing traffic. No other identifiable crash patterns were noted along the corridor.



Traffic Signal Warrant Analysis

Utilizing the existing and proposed traffic volumes, as specified in Section 402-2 of the ODOT Traffic Engineering Manual (TEM), traffic signal warrant analyses were performed for each of the study intersections along the corridor. The nine (9) traffic signal warrants provided in the 2012 Ohio Manual of Uniform Traffic Control Devices (OMUTCD) define the minimum conditions under which installing traffic control signals is justified. Due to the availability of 12-hour traffic volumes, OMUTCD Warrant #'s 1,2 and 3 were deemed applicable and were analyzed as part of this study. Detailed descriptions of each of these warrants are described as follows.

Warrant #1 Eight-Hour Vehicular Volume

The Eight-Hour Vehicular Volume warrant is intended for application where the volume of intersection traffic is the principal reason for consideration of the signal installation. Three conditions are possible to satisfy this particular warrant. Condition A applies specifically to minimum vehicular volume requirements. Condition B deals with the interruption of continuous traffic flow. Condition C represents a combination of Conditions A and B being met at reduced volume requirements.

Warrant #2 Four-Hour Vehicular Volume

The Four-Hour Vehicular Volume warrant is satisfied when for four hours of an average day, minimum volumes are reached on both the major street (total of both approaches) and the highest volume minor street approach (one direction only).

Warrant #3 Peak Hour Vehicular Volume

The Peak Hour Vehicular Volume warrant is intended for application when traffic conditions are such that for one hour of the day, minor street traffic suffers undue delay in entering or crossing the major street. The Peak Hour Vehicular Volume warrant is satisfied when the minimum required volumes on the major and highest volume minor approach are met for any one hour (any four consecutive 15-minute periods) on an average day.

To determine whether the current traffic conditions of the study intersections warrant a traffic signal, the existing traffic volumes were compared to the 100% volume thresholds for the above warrants as well as other criteria. The results of the Existing Year 2023 traffic signal warrant analysis are shown in **Table 1**. See **Appendix E** for the traffic signal warrant analysis.



Table 1: Traffic Signal Warrant Analysis Summary – Existing Year 2023 Conditions						
	Signal Warrant					
Intersection	Warrant #1 (Eight-Hour Vehicular Volume)	Warrant #2 (Four-Hour Vehicular Volume)	Warrant #3 (Peak Hour Vehicular Volume)			
State Road / Boulder Boulevard	Not Satisfied	Not Satisfied	Not Satisfied			
State Road / Falls Commerce Pkwy / J&K Lawn Equipment Drive	Not Satisfied	Not Satisfied	Not Satisfied			
State Road / Buckeye Sports Drive / Storr-It Drive	Not Satisfied	Not Satisfied	Not Satisfied			
State Road / Salt Creek Run	Not Satisfied	Not Satisfied	Not Satisfied			
State Road / Woodridge Elementary School Northern Drive	Not Satisfied	Not Satisfied	Not Satisfied			
State Road / Woodridge Elementary School Southern Drive	Not Satisfied	Not Satisfied	Not Satisfied			
State Road / Falls Industrial Parkway	Not Satisfied	Not Satisfied	Not Satisfied			
State Road / Quick Road Connector / Audi Dealership Northern Drive	Not Satisfied	Not Satisfied	Not Satisfied			
State Road / Quick Road / Audi Dealership Southern Drive	Not Satisfied	Satisfied	Satisfied			

As shown in **Table 1**, the Existing Year 2023 'No-Build' traffic signal warrant analysis determined that a traffic signal is warranted at the State Road / Quick Road / Audi Dealership Southern Drive intersection based on signal warrants #2 and #3. The remaining study intersections did not meet any volume-based warrants under the Existing Year 2023 'No-Build' conditions.

Future traffic projections along the State Road corridor show a 1.00% per year anticipated growth rate, therefore, Opening Year 2028 traffic signal warrant analyses were performed to determine if a traffic signal would be warranted in the future condition. The results are shown in **Table 2**. See **Appendix E** for the traffic signal warrant analysis.



Table 2: Traffic Signal Warrant Analysis Summary – Opening Year 2028 Conditions						
Signal Warrant						
Intersection	Warrant #3 (Peak Hour Vehicular Volume)					
State Road / Boulder Boulevard	Not Satisfied					
State Road / Falls Commerce Pkwy / J&K Lawn Equipment Drive	Not Satisfied					
State Road / Buckeye Sports Drive / Storr-It Drive	Not Satisfied					
State Road / Salt Creek Run	Not Satisfied					
State Road / Woodridge Elementary School Northern Drive	Not Satisfied					
State Road / Woodridge Elementary School Southern Drive	Not Satisfied					
State Road / Falls Industrial Parkway	Not Satisfied					
State Road / Quick Road Connector / Audi Dealership Northern Drive	Not Satisfied					
State Road / Quick Road / Audi Dealership Southern Drive	Not Satisfied					
Quick Road / State Road Connector	Satisfied					

As shown in **Table 2**, the signal warrant analysis results for the Opening Year 2028 'Build' conditions determined that the anticipated volume do not meet the minimum thresholds to warrant traffic signals at these intersections.

Auxiliary Turn Lane Warrants

Auxiliary turn lane warrant analyses were performed for the unsignalized study intersections to determine whether a right turn lane or left turn lane will be warranted under the Design Year 2048 traffic conditions. ODOT publishes the <u>Location & Design Manual (L&D)</u>, <u>Volume 1</u> which includes warrant charts for auxiliary turn lanes. These warrant charts were utilized as an initial screening to determine if auxiliary turn lanes will be required at the unsignalized study intersections. The results of the Design Year 2048 auxiliary turn lane analyses are summarized in **Table 3**. See **Appendix F** for the auxiliary turn lane warrant charts.



Table 3: Auxiliary Turn Lane Warrant Analysis Summary - Design Year 2048 Conditions					
Intersection	Auxiliary Turn Lane Warrant				
State Road / Boulder Boulevard					
Northbound Left Turn Lane	Satisfied				
Southbound Right Turn Lane	Not Satisfied				
State Road / Falls Commerce Pkwy / J&K Lawn Equipment Drive					
Northbound Left Turn Lane	Not Satisfied				
Northbound Right Turn Lane	Not Satisfied				
Southbound Left Turn Lane	Not Satisfied				
Southbound Right Turn Lane	Not Satisfied				
State Road / Buckeye Sports Drive / Storr-It Drive					
Northbound Left Turn Lane	Not Satisfied				
Northbound Right Turn Lane	Not Satisfied				
Southbound Left Turn Lane	Satisfied				
Southbound Right Turn Lane	Not Satisfied				
State Road / Salt Creek Run					
Northbound Left Turn Lane	Satisfied				
Westbound Right Turn Lane	Satisfied				
State Road / Woodridge Elementary School Northern Drive					
Northbound Left Turn Lane	Not Satisfied				
Southbound Right Turn Lane	Not Satisfied				
State Road / Woodridge Elementary School Northern Drive					
Northbound Left Turn Lane	Not Satisfied				
Southbound Right Turn Lane	Not Satisfied				
State Road / Falls Industrial Parkway					
Northbound Right Turn Lane	Not Satisfied				
Southbound Left Turn Lane	Satisfied				

As shown in **Table 3**, the auxiliary turn lane warrant analysis determined that northbound left turn lanes are anticipated to be warranted during the Design Year 2048 at the intersections of State Rd / Boulder Blvd and State Rd / Salt Creek Run. Also, southbound left turn lanes were also determined to be warranted at the intersection of State Road / Falls Industrial Pkwy and State Road / Buckeye Sports Drive / Storr-It Drive. Additionally, a southbound right turn lane at the intersection of State Rd / Salt Creek Run was found to be warranted. However, the addition of the southbound right turn lane at this intersection will have a minimal impact on the analysis results and no crashes were associated with this southbound right turning movement. Therefore, the construction of this turn lane is not recommended.



HCS Intersection Capacity Analysis

Intersection capacity analyses were performed for the Opening Year 2028 and Design Year 2048 'No-Build' and 'Build' scenarios to determine the operating conditions that would be expected at the study intersections. The quality of the operating conditions experienced by an intersection is measured in terms of Level-of-Service (LOS). Levels-of-Service can range from LOS A to LOS F.

Level-of-Service A, B, C, D and E are considered acceptable in an area within the Metropolitan Planning Organization (MPO) for movements and approaches while the overall intersection must operate at LOS D or better. This intersection is located within the Akron Metropolitan Area Transportation Study (AMATS) MPO area. Level-of-Service F is considered unacceptable with significant levels of delay experienced by vehicles. The thresholds related to average control delay for unsignalized intersections are as follows:

Level-of- Service	Delay Threshold – Unsignalized and Roundabout (Sec)
A	< 10
В	> 10 - 15
С	> 15 - 25
D	> 25 - 35
E	> 35 - 50
F	> 50

The analysis is performed utilizing the computer program <u>HCS 2023</u> which is developed by McTrans Corporation and based on the <u>Highway Capacity Manual</u>, 7th Edition. Based on criteria established by ODOT, Highway Capacity Software (HCS) is used to determine the required number of lanes and the lane assignments at intersections (i.e. the needed intersection capacity). The existing peak hour factors and heavy vehicle percentage were utilized throughout the capacity analysis.

Opening Year 2028 Capacity Analysis

Table 4 summarizes the HCS Intersection Capacity Analysis and details the Levels-of-Service and delay experienced for the Opening Year 2028 'No-Build' and 'Build' traffic conditions for the unsignalized study intersections. See **Appendix G** for the HCS analysis printouts.



Table 4: HCS Intersection Capacity Analysis Summary Opening Year 2028 'No-Build' vs. 'Build' Conditions – <i>Unsignalized Intersections</i>								
	'No-Build' Condition		`Build' Condition					
Intersection / Movement	AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour	
	LOS	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)
State Road / Boulder								
Boulevard								
Eastbound Left-Right	D	25.2	D	30.4	С	16.6	С	18.1
Eastbound Approach	D	25.2	D	30.4	С	16.6	С	18.1
Northbound Left	А	9.8	А	9.3	А	9.8	А	9.3
Northbound Approach	Α	0.0	Α	0.5	Α	0.0	Α	0.2
State Road / Falls Commerce Pkwy / J&K Lawn Equipment Drive								
Eastbound Left-Thru-Right	A*	0.0	С	19.4	A*	0.0	С	15.6
Eastbound Approach	Α	0.0	С	19.4	Α	0.0	С	15.6
Westbound Left-Thru-Right	С	18.1	С	17.3	С	18.0	В	14.2
Westbound Approach	С	18.1	С	17.3	С	18.0	В	14.2
Northbound Left-Thru-Right	А	8.1	А	9.0	А	8.1	А	9.0
Northbound Approach	Α	0.0	Α	0.0	А	0.0	Α	0.0
Southbound Left-Thru-Right	В	10.9	В	10.1	В	10.9	В	10.1
Southbound Approach	Α	0.5	Α	0.3	Α	0.3	Α	0.1
State Road / Buckeye Sports Drive / Storr-It Drive								
Eastbound Left-Thru-Right	С	15.4	С	22.4	С	15.3	С	22.3
Eastbound Approach	С	15.4	С	22.4	С	15.3	С	22.3
Westbound Left-Thru-Right	С	16.5	С	15.9	С	16.5	С	15.9
Westbound Approach	С	16.5	С	15.9	С	16.5	С	15.9
Northbound Left-Thru-Right	А	8.3	А	9.0	А	8.3	Α	9.0
Northbound Approach	Α	0.3	Α	0.2	А	0.1	Α	0.1
Southbound Left-Thru-Right	А	9.2	А	9.4	А	9.2	А	9.4
Southbound Approach	Α	0.1	Α	0.2	Α	0.1	Α	0.1
State Road / Salt Creek Run								
Eastbound Left-Right	D	25.4	D	30.4	С	16.6	С	17.7
Eastbound Approach	D	25.4	D	30.4	С	16.6	С	17.7
Northbound Left	А	8.6	А	9.2	А	8.6	А	9.2
Northbound Approach	А	0.1	Α	0.6	А	0.1	Α	0.3

*Zero volume approach



Table 4: HCS Intersection Capacity Analysis Summary Opening Year 2028 'No-Build' vs. 'Build' Conditions – Unsignalized Intersections (Cont.)										
	'No-Build' Condition					'Build' Condition				
Intersection / Movement	AM Pe	ak Hour	PM Pe	ak Hour	AM Pea		PM Pea			
Intersection / Florement	LOS	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)		
State Road / Woodridge										
Elem. Northern Drive										
Eastbound Left-Right	С	18.6	С	20.5	В	14.5	В	14.9		
Eastbound Approach	С	18.6	С	20.5	В	14.5	В	14.9		
Northbound Left	А	8.0	А	8.5	А	8.0	А	8.5		
Northbound Approach	Α	0.2	Α	0.0	Α	0.2	Α	0.0		
State Road / Woodridge Elem. Southern Drive										
Eastbound Left-Right	В	12.9	В	12.3	В	11.5	В	12.3		
Eastbound Approach	В	12.9	В	12.3	В	11.5	В	12.3		
Northbound Left	А	8.0	А	8.6	А	8.0	А	8.6		
Northbound Approach	Α	0.4	Α	0.0	Α	0.2	Α	0.0		
State Road / Falls Industrial Pkwy										
Westbound Left-Right	С	21.6	D	27.0	С	15.8	С	17.1		
Westbound Approach	С	21.6	D	27.0	С	15.8	С	17.1		
Southbound Left	А	9.6	А	9.2	А	9.6	А	9.2		
Southbound Approach	Α	1.1	Α	0.4	Α	0.7	Α	0.2		

As shown in **Table 4**, all movements and approaches are anticipated to operate with acceptable LOS D or better under the Opening Year 2028 'No-Build' and 'Build' traffic conditions for both AM peak and PM peak. The 'Build' traffic conditions analysis results show improvements in the level of service and delays experienced at the study corridor, this indicates that the addition of the TWLTL will have a positive impact on both the operational and safety conditions throughout the corridor.

Table 5 summarizes the HCS Intersection Capacity Analysis and details the Levels-of-Service and delay experienced for the Opening Year 2028 'No-Build' traffic conditions for the existing unsignalized intersections at the State Road / Quick Road triangle of intersections. **Table 6** summarizes the HCS Intersection Capacity Analysis and details the Levels-of-Service and delay experienced for the Opening Year 2028 'Build' traffic conditions for the proposed roundabout at the State Road / Quick Road triangle of intersection. See **Appendix G** for the HCS analysis printouts.



Table 5: HCS Intersection Capacity Analysis Summary Opening Year 2028 'No-Build' Conditions – State Rd / Quick Rd Triangle								
	'No-Build' Condition			`Build' Condition				
Intersection / Movement	AM Pe	ak Hour	PM Pe	ak Hour	AM Pea		PM Peak Hour	
	LOS	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)
State Road / Quick Road								
Connector / Audi North Drive	_		_					
Eastbound Left-Thru-Right	С	23.9	D	26.2				
Eastbound Approach	С	23.9	D	26.2				
Westbound Left-Thru-Right	В	12.6	С	16.8				
Westbound Approach	В	12.6	С	16.8				
Northbound Left-Thru-Right	Α	8.0	Α	8.8				
Northbound Approach	Α	0.0	Α	0.0				
Southbound Left	А	8.8	А	8.3				
Southbound Approach	Α	0.1	Α	0.0				
State Road / Quick Road / Audi South Drive								
Eastbound Left-Thru-Right	С	15.6	С	17.3				
Eastbound Approach	С	15.6	С	17.3				
Westbound Left-Thru-Right	В	13.3	Е	39.6				
Westbound Approach	В	13.3	E	39.6				
Northbound Left	А	9.6	В	10.0				
Northbound Approach	Α	3.4	Α	2.9				
Southbound Left	А	9.1	А	8.3				
Southbound Approach	Α	0.2	Α	0.0				
Quick Road / State Road Connector								
Westbound Left-Right	В	10.5	А	9.5				
Westbound Approach	В	10.5	Α	9.5				
Southbound Left	А	8.1	А	7.7				
Southbound Approach	Α	0.9	Α	0.2				

As shown in **Table 5**, all movements and approaches at the State Road / Quick Road triangle are anticipated to operate with acceptable LOS E or better under the Opening Year 2028 'No-Build' traffic conditions for both AM and PM Peak Hours.



Table 6: HCS Intersection Capacity Analysis Summary Opening Year 2028 'Build' Conditions – State Rd / Quick Rd - Roundabout								
	'	No-Build'	Condition	on		`Build' C	ondition	
Intersection / Movement	AM Pea	ak Hour	PM Pe	ak Hour	AM Pea	k Hour	PM Pea	k Hour
Intersection / Movement	LOS	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)
State Road / Quick Road								
Connector / Audi North Drive								
Eastbound Left-Thru-Right					А	8.0	А	8.1
Eastbound Approach					Α	8.0	Α	8.1
Westbound Left-Thru-Right					А	8.1	А	5.8
Westbound Approach					Α	8.1	Α	5.8
Northbound Left-Thru-Right					С	17.0	А	8.2
Northbound Approach					С	17.0	Α	8.2
Southbound Left-Thru-Right					А	9.7	В	11.3
Southbound Approach					Α	9.7	В	11.3
Intersection Total					С	13.9	A	9.5

As shown in **Table 6**, all movements and approaches at the proposed State Road / Quick Road roundabout are anticipated to operate with acceptable LOS C or better under the Opening Year 2028 'Build' traffic conditions for both AM and PM Peak Hours. This indicates that the construction of the proposed roundabout would reduce the delay associated with the heavy left-turning movement from State Road into Quick Road.



Design Year 2048 Capacity Analysis

Table 7 summarizes the HCS Intersection Capacity Analysis and details the Levels-of-Service and delay experienced for the Design Year 2048 'No-Build' and 'Build' traffic conditions for the unsignalized study intersections. See **Appendix G** for the HCS analysis printouts.

Table 7: HCS Intersection Capacity Analysis Summary Design Year 2048 'No-Build' vs. 'Build' Conditions – Unsignalized Intersections							ns		
'No-Build' Condition					`Build' Condition				
Intersection / Movement	AM Pea	ak Hour	PM Pe	ak Hour	AM Pea		PM Pea		
Intersection / Florement	LOS	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)	
State Road / Boulder Boulevard									
Eastbound Left-Right	Е	38.5	Е	49.4	С	19.8	С	21.9	
Eastbound Approach	Е	38.5	Е	49.4	С	19.8	С	21.9	
Northbound Left	В	10.3	А	9.9	В	10.3	А	9.9	
Northbound Approach	А	0.0	Α	0.6	Α	0.0	Α	0.3	
State Road / Falls Commerce Pkwy / J&K Lawn Equipment Drive									
Eastbound Left-Thru-Right	A*	0.0	С	23.2	A*	0.0	С	17.6	
Eastbound Approach	Α	0.0	С	23.2	Α	0.0	С	17.6	
Westbound Left-Thru-Right	С	21.5	С	23.0	С	19.7	С	16.4	
Westbound Approach	С	21.5	С	23.0	С	19.7	С	16.4	
Northbound Left-Thru-Right	Α	8.3	А	9.5	А	8.3	А	9.5	
Northbound Approach	Α	0.0	Α	0.0	Α	0.0	Α	0.0	
Southbound Left-Thru-Right	В	11.9	В	10.8	В	11.9	В	10.8	
Southbound Approach	Α	0.7	Α	0.4	Α	0.3	Α	0.1	
State Road / Buckeye Sports Drive / Storr-It Drive									
Eastbound Left-Thru-Right	С	17.3	D	30.4	С	17.2	D	30.1	
Eastbound Approach	С	17.3	D	30.4	С	17.2	D	30.1	
Westbound Left-Thru-Right	С	19.3	С	18.8	С	19.3	С	18.7	
Westbound Approach	С	19.3	С	18.8	С	19.3	С	18.7	
Northbound Left-Thru-Right	А	8.5	А	9.5	А	8.5	А	9.5	
Northbound Approach	Α	0.4	А	0.2	Α	0.1	А	0.1	
Southbound Left-Thru-Right	Α	9.8	А	9.9	Α	9.8	Α	9.9	
Southbound Approach	Α	0.1	Α	0.3	Α	0.1	А	0.1	

^{*}Zero volume approach



Table 7: HCS Intersection Capacity Analysis Summary Design Year 2048 'No-Build' vs. 'Build' Conditions – Unsignalized Intersections (Cont.)								Cont.)	
	۱'	No-Build'			`Build' Condition				
Intersection / Movement	AM Pe	ak Hour	PM Pe	ak Hour	AM Pea		PM Pea		
	LOS	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)	
State Road / Salt Creek Run									
Eastbound Left-Right	Е	41.6	F	52.6	С	20.3	С	21.6	
Eastbound Approach	E	41.6	F	52.6	С	20.3	С	21.6	
Northbound Left	А	8.9	А	9.8	А	8.9	Α	9.8	
Northbound Approach	Α	0.2	Α	0.7	Α	0.1	Α	0.3	
State Road / Woodridge Elem. Northern Drive									
Eastbound Left-Right	С	23.0	D	26.5	С	16.1	С	16.8	
Eastbound Approach	С	23.0	D	26.5	С	16.1	С	16.8	
Northbound Left	А	8.2	А	8.9	А	8.2	А	8.9	
Northbound Approach	Α	0.2	Α	0.0	Α	0.2	Α	0.0	
State Road / Woodridge Elem. Southern Drive									
Eastbound Left-Right	В	13.6	В	13.5	В	11.9	В	13.5	
Eastbound Approach	В	13.6	В	13.5	В	11.9	В	13.5	
Northbound Left	А	8.2	А	9.0	А	8.2	А	9.0	
Northbound Approach	Α	0.5	Α	0.0	Α	0.2	Α	0.0	
State Road / Falls Industrial									
Pkwy Westhound Left Dight		20.5	Е	47.0	-	18.1	С	21.2	
Westbound Left-Right	D	28.5		47.9	С		C	21.3	
Westbound Approach	D	28.5	E	47.9	С	18.1		21.3	
Southbound Left	В	10.3	A	9.6	В	10.3	A	9.6	
Southbound Approach	Α	1.4	Α	0.5	Α	0.8	Α	0.2	

As shown in **Table 7**, under the 'No-Build' traffic conditions, all movements and approaches are anticipated to operate with acceptable LOS E or better for both AM peak and PM peak, except for the eastbound approach at the State Road / Salt Creek Run intersection which is anticipated to operate with an unacceptable LOS F during the PM peak hour. Under the 'Build' traffic conditions, all movements and approaches are anticipated to operate with acceptable LOS D or better for both AM peak and PM peak. When compared to the 'No-Build' traffic conditions analysis results, the implementation of the TWLTL will provide better operations and safety conditions along State Road as it provides refuge for vehicles trying to make left turning maneuvers which will help improve safety and reduce delays.



Table 8 summarizes the HCS Intersection Capacity Analysis and details the Levels-of-Service and delay experienced for the Design Year 2048 'No-Build' traffic conditions for the existing unsignalized intersections at the State Road / Quick Road triangle of intersections. **Table 9** summarizes the HCS Intersection Capacity Analysis and details the Levels-of-Service and delay experienced for the Design Year 2048 'Build' traffic conditions for the proposed roundabout at the State Road / Quick Road triangle of intersections. See **Appendix G** for the HCS analysis printouts.

Table 8: HCS Intersection Capacity Analysis Summary Design Year 2048 'No-Build' Conditions – <i>Unsignalized</i>								
2 33.3.1.10		No-Build'					ondition	
Intersection / Movement		ak Hour		ak Hour	AM Pea		PM Peak Hour	
Intersection / Movement	LOS	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)
State Road / Quick Road Connector / Audi North Drive								
Eastbound Left-Thru-Right	D	32.9	Е	35.9				
Eastbound Approach	D	32.9	Е	35.9				
Westbound Left-Thru-Right	В	13.9	С	21.7				
Westbound Approach	В	13.9	С	21.7				
Northbound Left-Thru-Right	А	8.2	А	9.2				
Northbound Approach	Α	0.0	Α	0.0				
Southbound Left	А	9.2	А	8.6				
Southbound Approach	Α	0.1	Α	0.0				
State Road / Quick Road / Audi South Drive								
Eastbound Left-Thru-Right	С	21.6	С	23.6				
Eastbound Approach	С	21.6	С	23.6				
Westbound Left-Thru-Right	В	15.0	F	100.7				
Westbound Approach	В	15.0	F	100.7				
Northbound Left	В	10.7	В	11.2				
Northbound Approach	Α	3.8	Α	3.2				
Southbound Left	А	9.6	А	8.6				
Southbound Approach	Α	0.3	Α	0.0				
Quick Road / State Road Connector								
Westbound Left-Right	В	11.1	А	9.8				
Westbound Approach	В	11.1	Α	9.8				
Southbound Left	А	8.4	А	7.8				
Southbound Approach	Α	1.0	Α	0.3				



As shown in **Table 8**, all movements and approaches at the State Road / Quick Road triangle are anticipated to operate with acceptable LOS E or better under the Design Year 2048 'No-Build' traffic conditions for both AM and PM Peak Hours. except for the westbound approach at the State Road / Quick Road / Audi Dealership Southern intersection which is anticipated to operate with an unacceptable LOS F during the PM peak hour. This unsatisfactory LOS should be mitigated once the proposed roundabout is constructed and fully operational.

Table 9: HCS Intersection Capacity Analysis Summary Design Year 2048 'Build' Conditions -Roundabout								
	'	No-Build'	Condition	on		`Build' C	ondition	
Intersection / Movement	AM Pe	ak Hour	PM Pe	ak Hour	AM Pea	k Hour	PM Pea	k Hour
Thtersection / Movement	LOS	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)
State Road / Quick Road								
Connector / Audi North Drive								
Eastbound Left-Thru-Right					В	10.2	В	10.4
Eastbound Approach					В	10.2	В	10.4
Westbound Left-Thru-Right					В	10.0	А	6.7
Westbound Approach					В	10.0	Α	6.7
Northbound Left-Thru-Right					Е	35.5	В	10.2
Northbound Approach					Е	35.5	В	10.2
Southbound Left-Thru-Right					В	13.2	С	16.9
Southbound Approach					В	13.2	С	16.9
Intersection Total					D	26.3	В	13.1

As shown in **Table 9**, all movements and approaches at the proposed State Road / Quick Road roundabout are anticipated to operate with acceptable LOS E or better under the Design Year 2048 'Build' traffic conditions for both AM and PM Peak Hours. This indicates that the construction of the proposed roundabout would reduce the delay associated with the heavy left-turning movement from State Road into Quick Road.

Turn Lane Storage Length Calculations

Turn lane storage length calculations were performed to determine the required storage length for each existing and warranted turn lane based on the Design Year 2048 peak hour traffic volumes. The required storage length is a function of site conditions, lane assignments, design speed, and the vehicular demand of the individual movement and is based on Figures 401-9 and 401-10 of the ODOT L&D Manual, Volume 1 – Roadside Design. **Table 10** shows the calculated turn lane storage lengths under the Design Year 2048 traffic conditions. See **Appendix H** for storage length calculations.



Table 10: Storage Length Calculation Summary – Design Year 2048 'Build' Conditions								
Tutana stian / Managara	Storage Length (ft.)							
Intersection / Movement	Calculated Length	Recommended Length						
State Road / Boulder Boulevard								
Northbound Left Turn Lane	100′	100′						
State Road / Salt Creek Run								
Northbound Left Turn Lane	100′	100′						
Westbound Right Turn Lane	100′	100′						
State Road / Woodridge Elementary School Northern Drive								
Northbound Left Turn Lane	100′	100′						
State Road / Falls Industrial Parkway								
Southbound Left Turn Lane	100′	100′						

As shown in **Table 10**, all turn lanes are recommended to be provided at their calculated length. It should be noted that these turn lanes can be accommodated within the proposed TWLTL. Therefore, no additional roadway widening is required to accommodate these turn lanes.

VII. Recommended Corridor Improvements:

Based on the analysis performed at the intersection, several improvement recommendations have been identified to improve the existing traffic signal. The following list outlines those improvements:

Long Term Improvements:

- 1. Create a consistent three (3) lane cross-section, including a center two-way left turn lane, along State Road within the study area.
- 2. Reconstruct the existing pavement along the State Road corridor.
- 3. Convert the State Road / Quick Road intersection into a single-lane roundabout.

All long-term improvements will occur simultaneously throughout the study area. The existing crash pattern and capacity analysis performed on State Road point to the fact that a center two-way left turn lane would be beneficial along the study corridor and the existing capacity analysis shows that there is not currently a capacity concern along the corridor. The proposed



improvement would allow for a center two-way left turn lane to be constructed while maintaining one (1) travel lane in each direction. This center two-way left turn lane will provide left turners the ability to exit a travel lane and make a left turn from a dedicated left turn lane at all intersections and driveways throughout the study corridor, reducing the identified rear-end crash pattern.

The construction of a single-lane roundabout at the State Road / Quick Road intersection will eliminate the confusing nature of the three closely spaced intersections, which will eliminate a potential safety concern. Additionally, the single-lane roundabout will provide acceptable Levels-of-Service in the future at the intersection to provide efficient traffic operations.

See **Figure 5** for the proposed improvement exhibits for the corridor. The estimated cost for this project is approximately 15.0 million dollars. See **Appendix I** for an opinion of the probable cost of the above-listed improvements.



V. Summary and Recommendations:

At the request of the City of Cuyahoga Falls, GPD Group was tasked with completing a Corridor Study for the State Road Corridor, between Quick Road and Boulder Boulevard. The purpose of this study is to investigate possible improvements to improve the State Road corridor from both an operations and safety perspective throughout the study area. This study will determine if any operational or safety deficiencies exist within the study area and what improvements are necessary to correct any deficiencies that are identified.

In Summary,

- Crash data was obtained from ODOT's GIS Crash Analysis Tool (GCAT) for the calendar years of 2018-2022 for the entire study area. A total of 26 crashes were reported within the study area and were analyzed as part of this project. These crashes include 13 rear-end, 4 left turn, 2 sideswipe – passing, 2 angle, 1 sideswipe – meeting, 1 right turn, 1 fixed object, 1 backing, and 1 head-on related crash. 73% of the crashes occurred in daylight, 65% occurred on dry pavement, and 35% of the crashes were injury crashes.
- 2. The Existing Year 2023 'No-Build' traffic signal warrant analysis determined that a traffic signal is warranted at the State Road / Quick Road / Audi Dealership Southern Drive intersection based on signal warrants #2 and #3. The remaining study intersections did not meet any volume-based warrants under the Existing Year 2023 'No-Build' conditions. The Opening Year 2028 signal warrant analysis yielded identical results as the Existing Year 2023 analysis.
- 3. The auxiliary turn lane warrant analysis determined that northbound left turn lanes are anticipated to be warranted during the Design Year 2048 at the intersections of State Rd / Boulder Blvd and State Rd / Salt Creek Run. Also, southbound left turn lanes were also determined to be warranted at the intersection of State Road / Falls Industrial Pkwy and State Road / Buckeye Sports Drive / Storr-It Drive. Additionally, a southbound right turn lane at the intersection of State Rd / Salt Creek Run was found to be warranted. However, the addition of the southbound right turn lane at this intersection will have a minimal impact on the analysis results and no crashes were associated with this southbound right turning movement. Therefore, the construction of this turn lane is not recommended.
- 4. Under Design Year 2048 'No-Build' traffic conditions, all movements and approaches are anticipated to operate with acceptable LOS E or better for both AM peak and PM peak, except for the eastbound



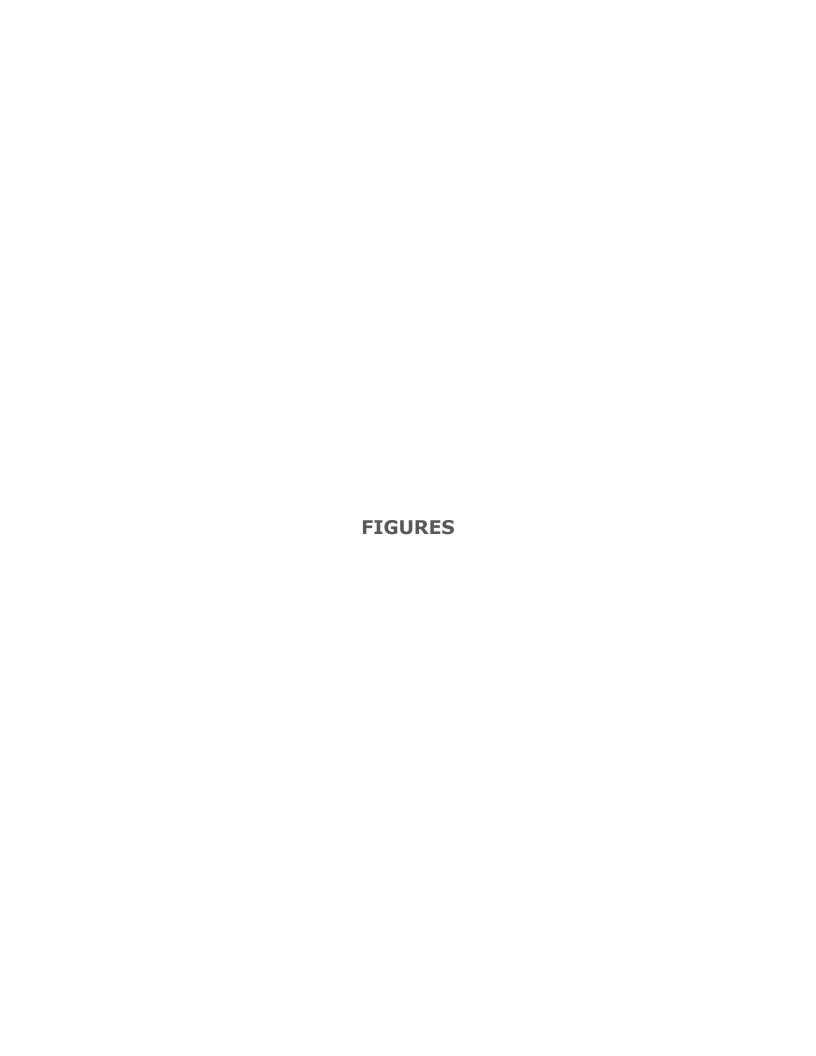
approach at the State Road / Salt Creek Run intersection which is anticipated to operate with an unacceptable LOS F during the PM peak hour. Under the 'Build' traffic conditions, all movements and approaches are anticipated to operate with acceptable LOS D or better for both AM peak and PM peak. When compared to the 'No-Build' traffic conditions analysis results, the implementation of the TWLTL will provide better operations and safety conditions along State Road as it provides refuge for vehicles trying to make left turning maneuvers which will help improve safety and reduce delays.

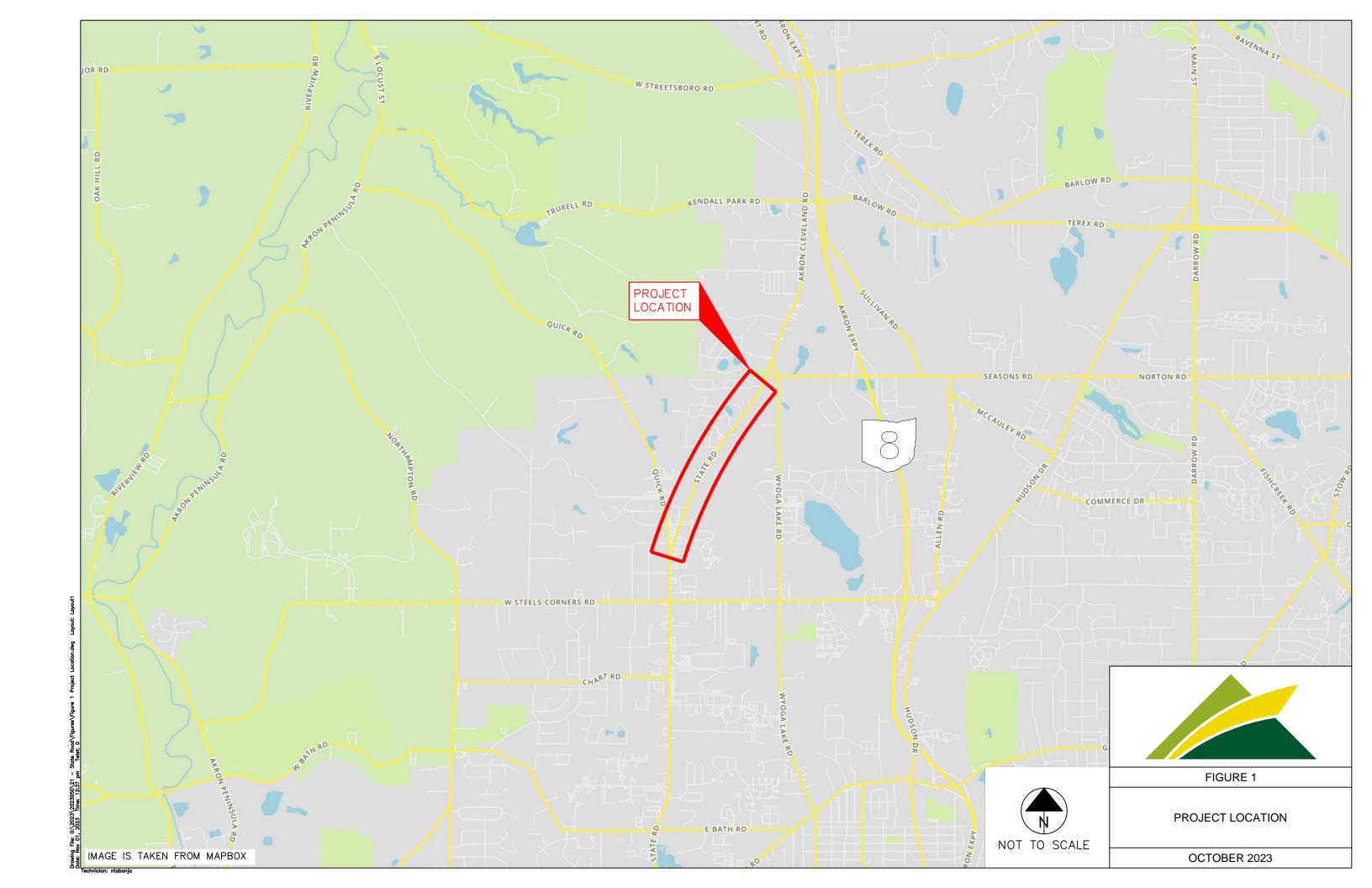
- 5. All movements and approaches at the proposed State Road / Quick Road roundabout are anticipated to operate with acceptable LOS E or better under the Design Year 2048 'Build' traffic conditions for both AM and PM Peak Hours. This indicates that the construction of the proposed roundabout would reduce the delay associated with the heavy left-turning movement from State Road into Quick Road.
- 6. All warranted turn lanes are recommended to be provided at their calculated length. It should be noted that these turn lanes can be accommodated within the proposed TWLTL. Therefore, no additional roadway widening is required to accommodate these turn lanes.

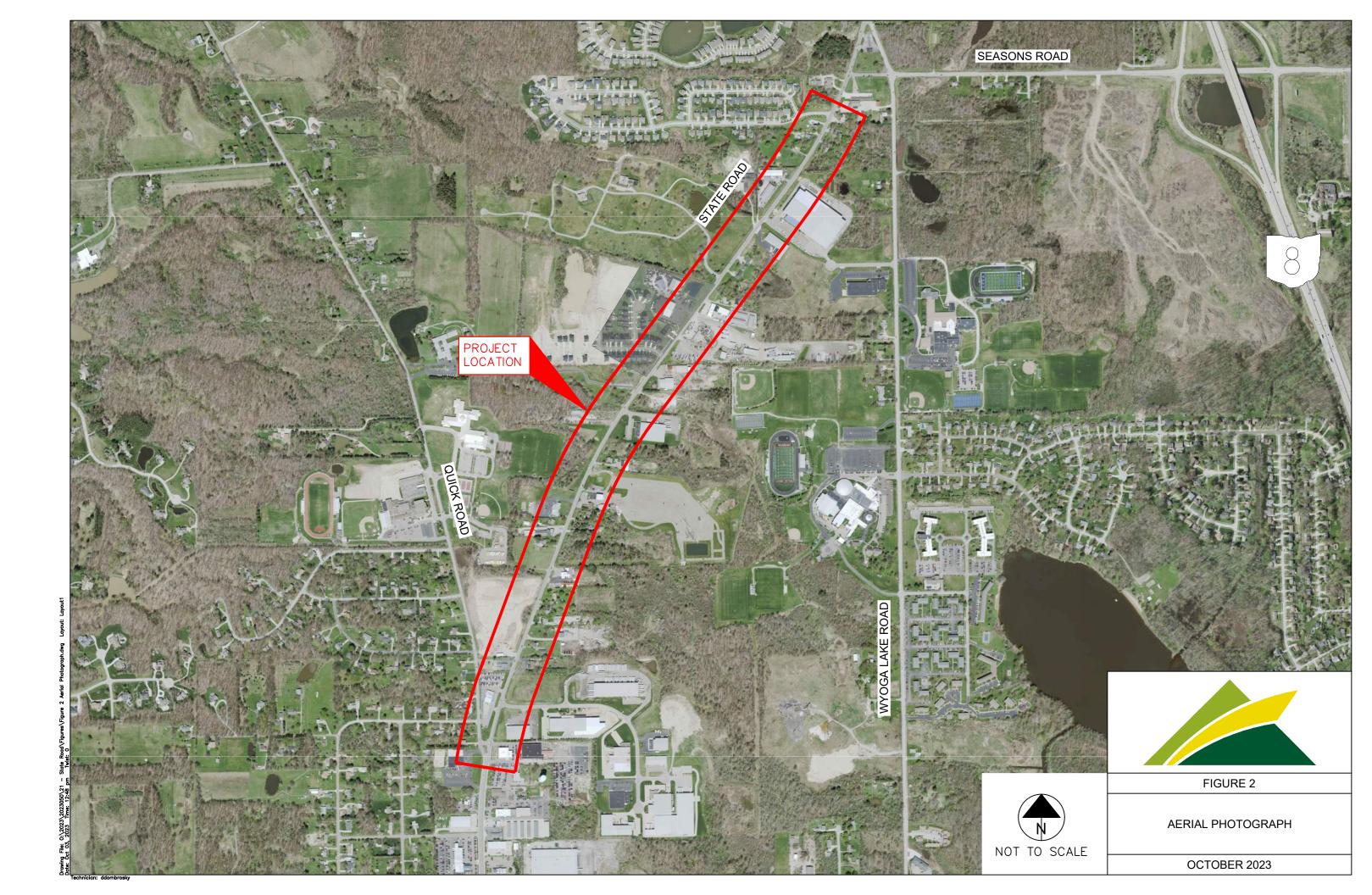
Based on the results of the analysis contained in this report, GPD Group recommends the following:

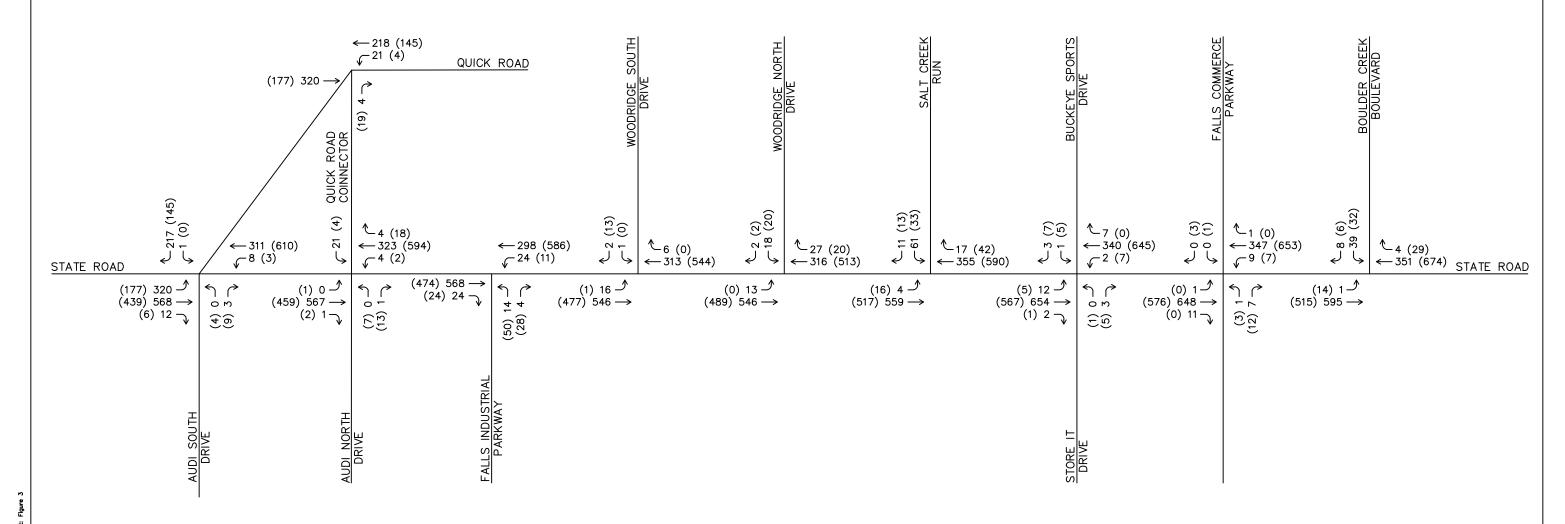
- 1. The City of Cuyahoga Falls should pursue the State Road Corridor Project outlined in this study.
- 2. The City of Cuyahoga Falls should create a financial plan and apply for safety funding to secure funds for the design and construction of the proposed improvements. The funding plan should address the funding of the entire project.









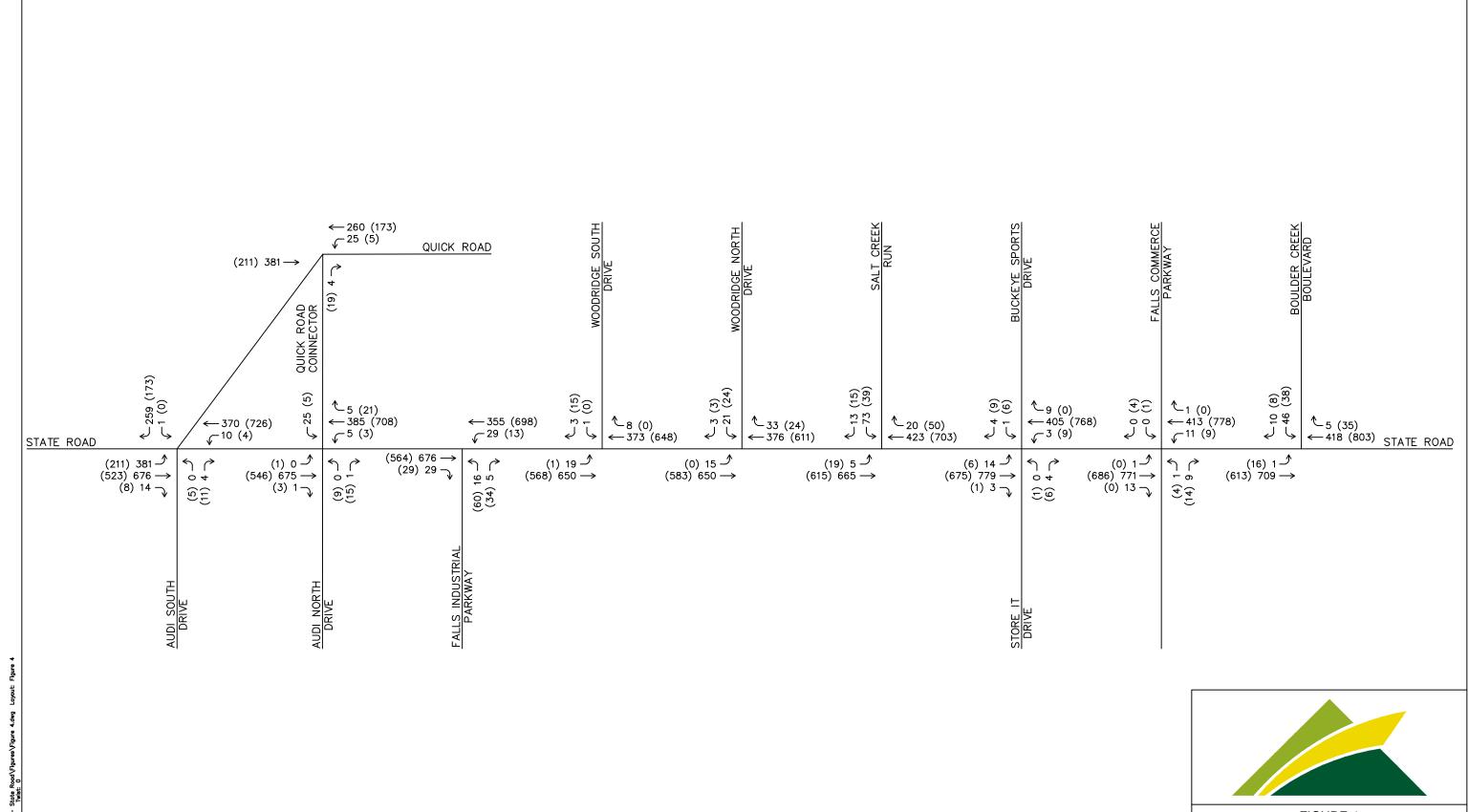


LEGEND ## - AM PEAK HOUR (##) - PM PEAK HOUR FIGURE 3

OPENING YEAR 2028
PEAK HOUR
TRAFFIC VOLUMES

OCTOBER 2023

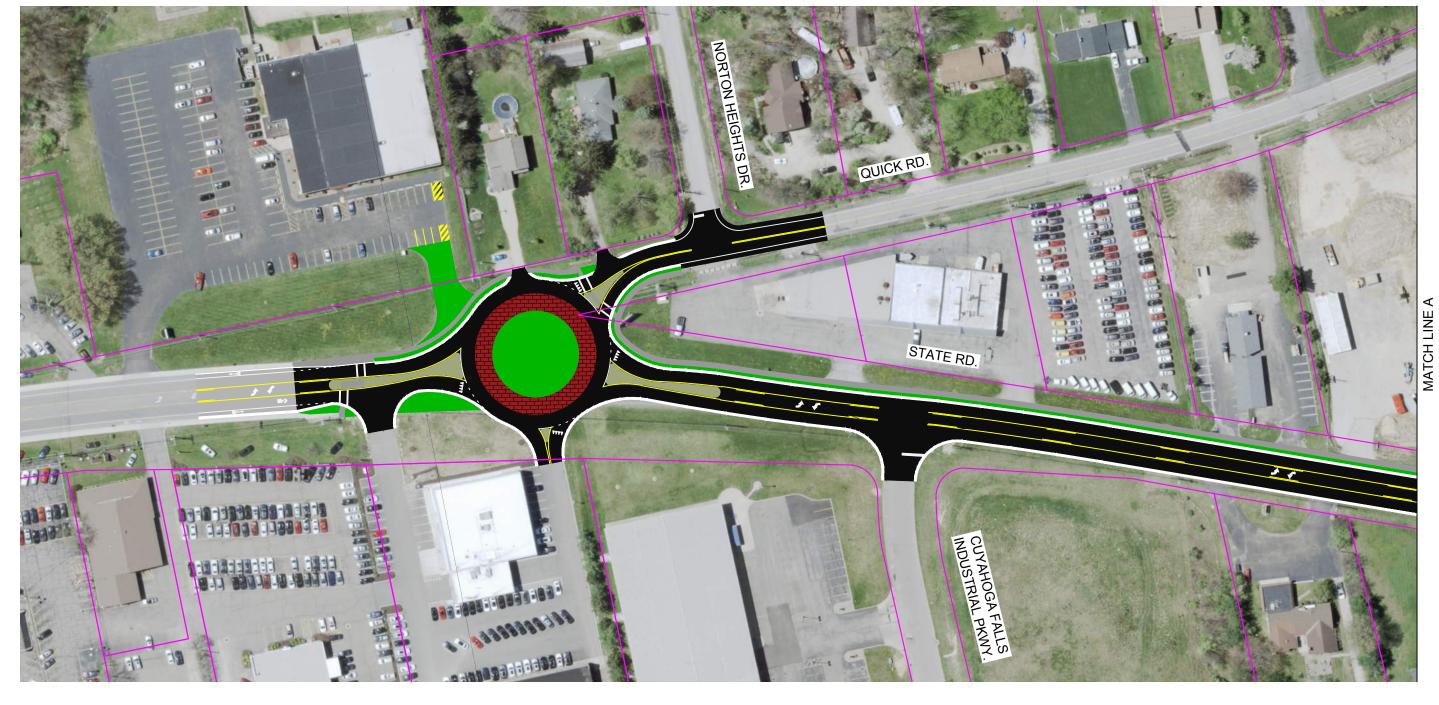
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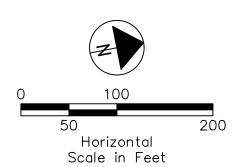


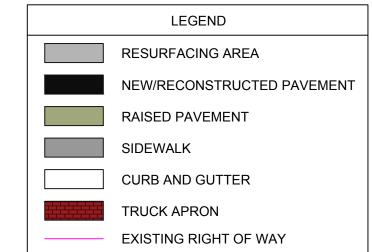
<u>LEGEND</u> ## - AM PEAK HOUR (##) - PM PEAK HOUR

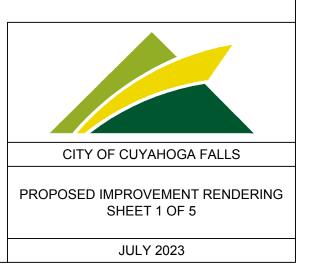


FIGURE 4 DESIGN YEAR 2048 PEAK HOUR TRAFFIC VOLUMES OCTOBER 2023

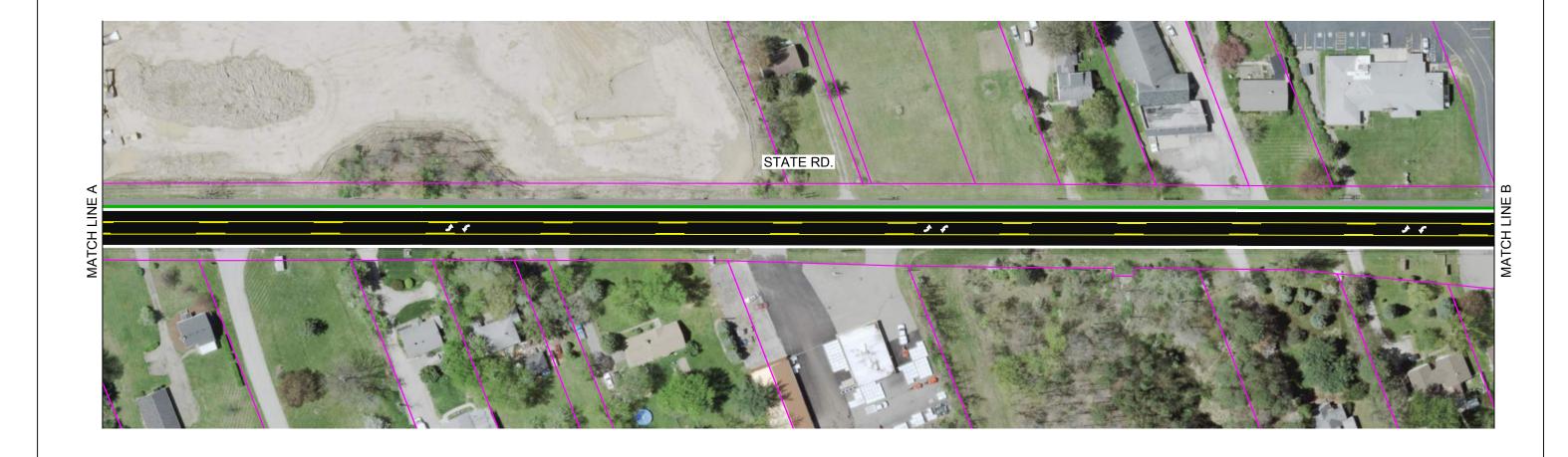


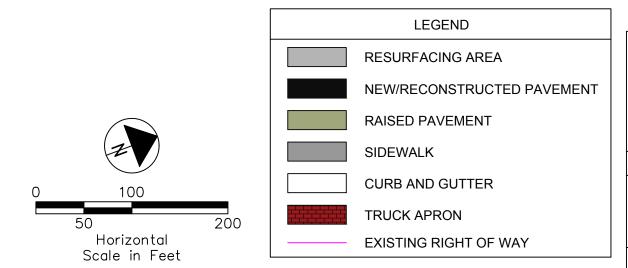






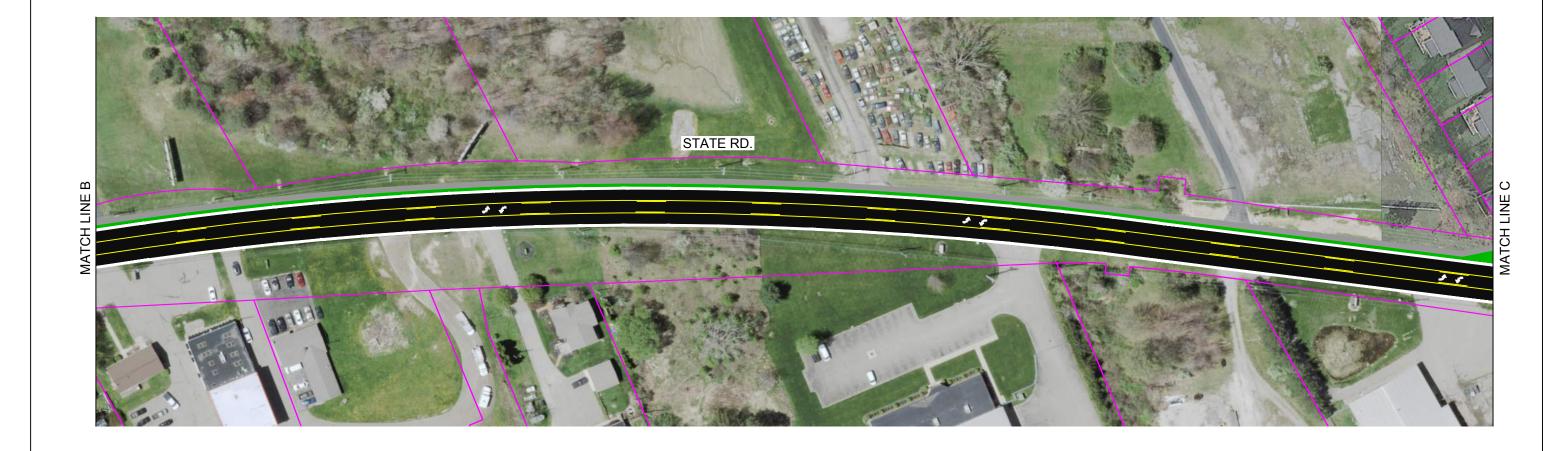
Technician: ddombroeky







Drawing File: C:\Users\ddombrosky\appdata\local\temp\AcPublish_17804\State Street Rendering.dwg Lay Date: Jul 13, 2023 Time: 10:58 am Twist: 0

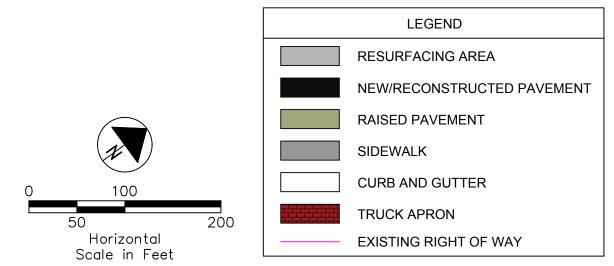






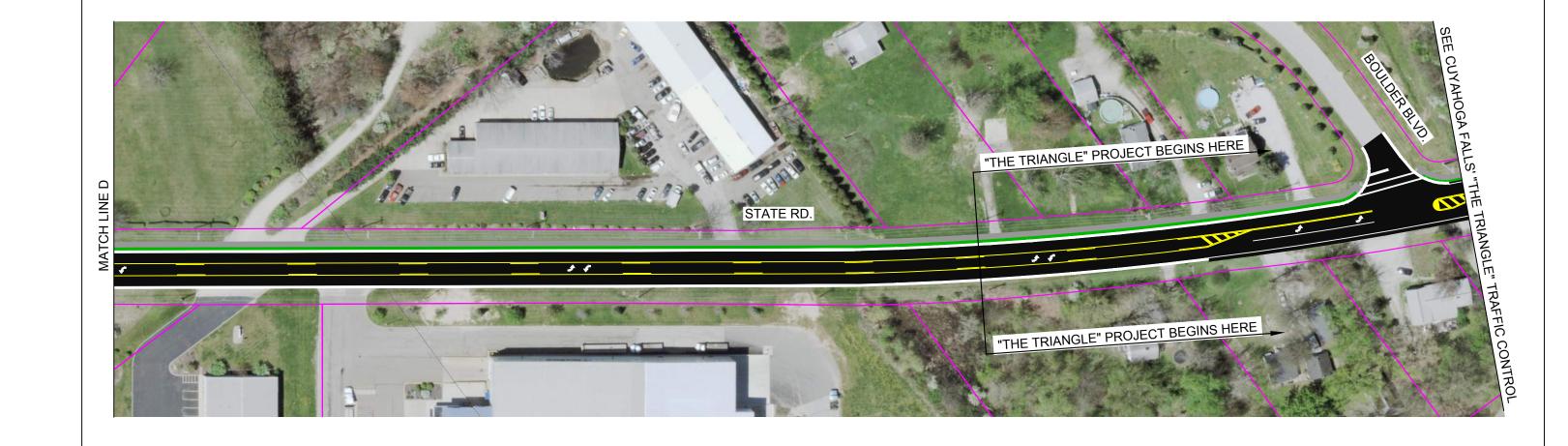
Drawing File: C: \Users\dambrosky\appdata\loca\\temp\AcPublish_17804\State Street Rendering.dwg Layout Date: .hi 13, 2023 Time: 10:58 am Twist: 0







Drawing File: C:\Lisers\ddombrosky\appdata\local\temp\AcPublish_17804\State Street Rendering.dwg Layr Date: Jul 13, 2023 Time: 10:58 am Twist: 0







Drawing File: C:\Users\ddombrosky\appdata\jocal\temp\AcPublish_17804\State Street Rendering.dwg Layo Date: Jul 13, 2023 Time: 10:58 am Twist: 0

APPENDIX A TURNING MOVEMENT COUNTS



520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Boulder Boulevard Intersection

Project Number: 2023050.21 File Name : 1-State and Boulder 083123

Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 71023050

Start Date : 8/31/2023

Client Name: City of Cuyahoga Falls Page No : 1

	D.		- D-			ips i		cu i	uooc	enger	1011				Dus		Ct	-4- D			
	В			ulev	ard								ate R					ate R			
			stbo	und				stbo	<u>und</u>				rthbo	ound				uthbo	und		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
07:00 AM	5	0	4	0	9	0	0	0	0	0	1	76	0	0	77	0	55	0	0	55	141
07:15 AM	11	0	1	0	12	0	0	0	0	0	0	128	0	0	128	0	66	2	0	68	208
07:30 AM	10	0	4	0	14	0	0	0	0	0	0	126	0	0	126	0	43	0	0	43	183
07:45 AM	7	0	2	0	9	0	0	0	0	0	0	164	0	0	164	0	130	0	0	130	303
Total	33	0	11	0	44	0	0	0	0	0	1	494	0	0	495	0	294	2	0	296	835
			_	_	_ 1	_	_	_	_	_	1 .			_				_			
08:00 AM	6	0	0	0	6	0	0	0	0	0	1	97	0	0	98	0	65	2	0	67	171
08:15 AM	9	0	4	0	13	0	0	0	0	0	0	93	0	0	93	0	88	3	0	91	197
08:30 AM	3	0	1	0	4	0	0	0	0	0	0	113	0	0	113	0	68	2	0	70	187
08:45 AM	3	0	0_	0	3	0	0	0	0	0	1	103	0	0	104	0	68	2_	0	70	177
Total	21	0	5	0	26	0	0	0	0	0	2	406	0	0	408	0	289	9	0	298	732
00 00 414		_	0	•	0	_	_	•	_	0		0.4	_	•	00			•	_	00	4.45
09:00 AM	1	0	2	0	3	0	0	0	0	0	1	81	0	0	82	0	58	2	0	60	145
09:15 AM	1	0	2	0	3	0	0	0	0	0	1	60	0	0	61	0	63	0	0	63	127
09:30 AM	1	0	0	0	1	0	0	0	0	0	0	79 50	0	0	79 50	0	69	1	0	70	150
09:45_AM	4	0_	3	0	7	0	0	0	0	0	1	58	0	0	59	0	62	1_	0	63	129
Total	7	0	7	0	14	0	0	0	0	0	3	278	0	0	281	0	252	4	0	256	551
10:00 AM	4	0	2	0	7	0	0	0	0	0	1	59	0	0	60	0	61	1	0	62	129
10:00 AM 10:15 AM	1	0	3 4	0	5	0	0	0	0	0	2	59 59	0	0	61	0	60	2	0	62 62	129
10:15 AM	2	0	3	0	5	0	0	0	0	0	1	60	0	0	61	0	62	1	0	63	129
10:30 AW 10:45 AM	1	0	4	0	5	0	0	0	0	0	1	61	0	0	62	0	62	1	0	63	130
Total	8	0	14	0	22	0	0	0	0	0	5	239	0	0	244	0	245	5	0	250	516
iotai	0	U	14	U	22	U	U	U	U	U	, ,	233	U	U	244	0	243	3	U	230	310
11:00 AM	1	0	4	0	5	0	0	0	0	0	3	64	0	0	67	0	73	4	0	77	149
11:15 AM	4	0	2	0	6	0	0	0	0	0	1	67	0	0	68	0	68	4	0	72	146
11:30 AM	1	0	1	0	2	0	0	0	0	0	Ö	68	0	0	68	ő	63	4	0	67	137
11:45 AM	1	0	2	0	3	0	0	0	0	0	2	70	1	0	73	ő	71	1	0	72	148
Total	7	0	9	0	16	0	0	0	0	0	6	269	1	0	276	0	275	13	0	288	580
		·	ŭ	·	,	ŭ	·	ŭ	·	ŭ	,		•	·		, ,			·	_00	
12:00 PM	0	0	1	0	1	0	0	1	0	1	0	77	1	0	78	0	68	6	0	74	154
12:15 PM	2	0	2	0	4	0	0	0	0	0	1	63	0	0	64	0	68	2	0	70	138
12:30 PM	2	0	1	0	3	0	0	0	0	0	1	98	0	0	99	0	72	2	0	74	176
12:45 PM	2	0	1	0	3	0	0	0	0	0	1	61	0	0	62	0	72	2	0	74	139
Total	6	0	5	0	11	0	0	1	0	1	3	299	1	0	303	0	280	12	0	292	607
	'				•																
01:00 PM	4	0	2	0	6	0	0	0	0	0	1	74	0	0	75	0	55	5	0	60	141
01:15 PM	2	0	3	0	5	0	0	0	0	0	3	80	0	0	83	0	63	3	0	66	154
01:30 PM	3	0	2	0	5	0	0	0	0	0	1	77	0	0	78	0	80	4	0	84	167
01:45 PM	5	0	1	0	6	0	0	0	0	0	4	86	0	0	90	0	78	5	0	83	179
Total	14	0	8	0	22	0	0	0	0	0	9	317	0	0	326	0	276	17	0	293	641
02:00 PM	3	0	0	0	3	0	0	0	0	0	1	91	0	0	92	0	74	6	0	80	175
02:15 PM	2	0	1	0	3	0	0	0	0	0	1	97	0	0	98	0	94	3	0	97	198
02:30 PM	3	0	0	0	3	0	0	0	0	0	1	96	0	0	97	0	68	2	0	70	170
02:45 PM	2	0	0	0	2	0	0	0	0	0	1	105	0	0	106	0	82	3	0	85	193
Total	10	0	1	0	11	0	0	0	0	0	4	389	0	0	393	0	318	14	0	332	736



520 South Main Street, Suite 253° Akron, OH 44311 Telephone: (330) 572-2100

State Road / Boulder Boulevard Intersection

Project Number: 2023050.21 File Name : 1-State and Boulder 083123

Project Name: Traffic Study
Project Location: Cuyahoga Falls, OH
Site Code : 71023050
Start Date : 8/31/2023

Client Name: City of Cuyahoga Falls Page No : 2

					Grou	ıps r	rint	ea- F	asse	enger	ven	cies	- Iru	ICKS	- Bus	es					,
	В	oulde	er Bo	ulev	ard							Sta	ate R	oad			Sta	ate R	oad		
		Ea	stbo	und			We	stbo	ound			No	rthbo	ound			Sou	uthbo	ound		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
03:00 PM	3	0	1	0	4	0	0	0	0	0	2	105	0	0	107	0	95	4	0	99	210
03:15 PM	3	0	2	0	5	0	0	0	0	0	2	109	0	0	111	0	111	7	0	118	234
03:30 PM	4	0	2	0	6	0	0	0	0	0	1	130	0	0	131	0	95	5	0	100	237
03:45 PM	3	0	3	0	6	0	0	0	0	0	0	117	0	0	117	0	133	10	0	143	266
Total	13	0	8	0	21	0	0	0	0	0	5	461	0	0	466	0	434	26	0	460	947
						ı					i					i					
04:00 PM	4	0	3	0	7	0	0	0	0	0	1	110	0	0	111	0	117	3	0	120	238
04:15 PM	7	0	1	0	8	0	0	0	0	0	1	97	0	0	98	0	117	11	0	128	234
04:30 PM	5	0	1	0	6	0	0	0	0	0	4	109	0	0	113	0	127	13	0	140	259
04:45 PM	9	0	3	0	12	0	0	0	0	0	3	98	0	0	101	0	153	2	0	155	268
Total	25	0	8	0	33	0	0	0	0	0	9	414	0	0	423	0	514	29	0	543	999
						ı					ı					ı					
05:00 PM	9	0	0	0	9	0	0	0	0	0	3	136	0	0	139	0	147	5	0	152	300
05:15 PM	4	0	1	0	5	0	0	0	0	0	2	102	0	0	104	0	157	5	0	162	271
05:30 PM	7	0	1	0	8	0	0	0	0	0	5	107	0	0	112	0	134	10	0	144	264
05:45 PM	17	0	0	0	17	0	0	0	0	0	0	76	0	0	76	0	122	5_	0	127	220
Total	37	0	2	0	39	0	0	0	0	0	10	421	0	0	431	0	560	25	0	585	1055
00:00 PM		0	^	^	•	۱ ۵	^	^	^	0	_	0.4	^	0	07	۱ ۵	444	4	0	440	044
06:00 PM	6	0	0	0	6	0	0	0	0	0	3	84	0	0	87	0	114	4	0	118	211
06:15 PM	5	0	2	0	7 7	0	0	0	0	0	2	66 74	0	0	68 75	0	107	8	0	115	190
06:30 PM	3	0	4	-	-	0	0	0	0	0	1	74 58	0	0	75 58	0	78 80	11	0	89 82	
06:45 PM Total	15	<u>0</u>	<u>1</u>	0 0	22	0	<u>0</u>	<u>0</u>	0	0	<u>0</u>	<u>58_</u> 282	0	<u>0</u>	288	0	379	25 25	0 0	<u>82</u>	142 714
Total	15	U	,	U	22	0	U	U	U	U	О	202	U	U	200	U	3/9	25	U	404	/14
Grand Total	196	0	85	0	281	0	0	1	0	1	63	4000	2	0	4334	0	4440	181	0	4297	8913
Apprch %	69.8	0	30.2	0	201	0	0	100	0	'	1.5	4269 98.5	0	0	4334	0	4116 95.8	4.2	0	4291	0913
Total %	2.2	0	30.2	0	3.2	0	0	0	0	0	0.7	47.9	0	0	48.6	0	46.2	2	0	48.2	
	192	0	79	0	271	0	0	0	0	0	61	4031	0	0	4092	0	3883	174	0	4057	8420
Passenger Vehicles % Passenger	1	·		·		•	-	·	-	-			-	-					-		
% Passenger Vehicles	98	0	92.9	0	96.4	0	0	0	0	0	96.8	94.4	0	0	94.4	0	94.3	96.1	0	94.4	94.5
Trucks	2	0	0	0	2	0	0	1	0	1	0	217	2	0	219	0	221	2	0	223	445
% Trucks	1	0	0	0	0.7	0	0	100	0	100	0	5.1	100	0	5.1	0	5.4	1.1	0	5.2	5
Buses	2	0	6	0	8	0	0	0	0	0	2	21	0	0	23	0	12	5	0	17	48
% Buses	1	0	7.1	0	2.8	0	0	0	0	0	3.2	0.5	0	0	0.5	0	0.3	2.8	0	0.4	0.5



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State Road / Boulder Boulevard Intersection

Project Number: 2023050.21 File Name : 1-State and Boulder 083123

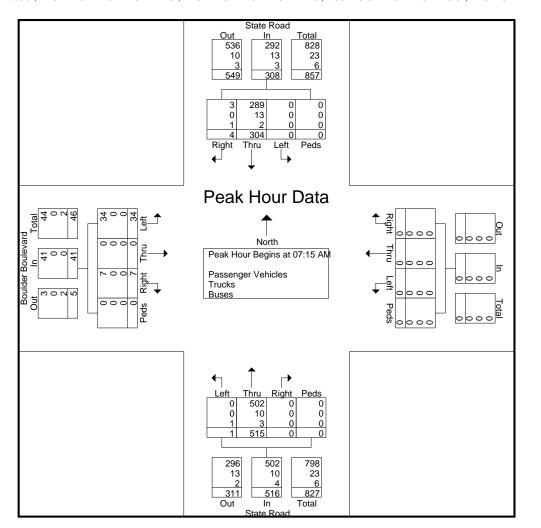
Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 71023050

Start Date : 8/31/2023

	Вс	oulde	er Bo	uleva	ard							Sta	ate R	oad			Sta	ate R	oad		
		Ea	stbo	und			We	stbo	und			No	rthbo	ound			Sou	uthbo	ound		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	om 07:	15 AN	1 to 08:	00 AN	1 - Pe	ak 1 o	f 1												
Peak Hour	for En	tire In	tersec	tion B	egins a	t 07:1	5 AM														
07:15 AM	11	0	1	0	12	0	0	0	0	0	0	128	0	0	128	0	66	2	0	68	208
07:30 AM	10	0	4	0	14	0	0	0	0	0	0	126	0	0	126	0	43	0	0	43	183
07:45 AM	7	0	2	0	9	0	0	0	0	0	0	164	0	0	164	0	130	0	0	130	303
08:00 AM	6	0	0	0	6	0	0	0	0	0	1	97	0	0	98	0	65	2	0	67	171
Total Volume	34	0	7	0	41	0	0	0	0	0	1	515	0	0	516	0	304	4	0	308	865
% App. Total	82.9	0	17.1	0		0	0	0	0		0.2	99.8	0	0		0	98.7	1.3	0		
PHF	.773	.000	.438	.000	.732	.000	.000	.000	.000	.000	.250	.785	.000	.000	.787	.000	.585	.500	.000	.592	.714
Passenger Vehicles	34	0	7	0	41	0	0	0	0	0	0	502	0	0	502	0	289	3	0	292	835
% Passenger Vehicles	100	0	100	0	100	0	0	0	0	0	0	97.5	0	0	97.3	0	95.1	75.0	0	94.8	96.5
Trucks	0	0	0	0	0	0	0	0	0	0	0	10	0	0	10	0	13	0	0	13	23
% Trucks	0	0	0	0	0	0	0	0	0	0	0	1.9	0	0	1.9	0	4.3	0	0	4.2	2.7
Buses	0	0	0	0	0	0	0	0	0	0	1	3	0	0	4	0	2	1	0	3	7
% Buses	0	0	0	0	0	0	0	0	0	0	100	0.6	0	0	0.8	0	0.7	25.0	0	1.0	0.8





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State Road / Boulder Boulevard Intersection

Project Number: 2023050.21 File Name : 1-State and Boulder 083123

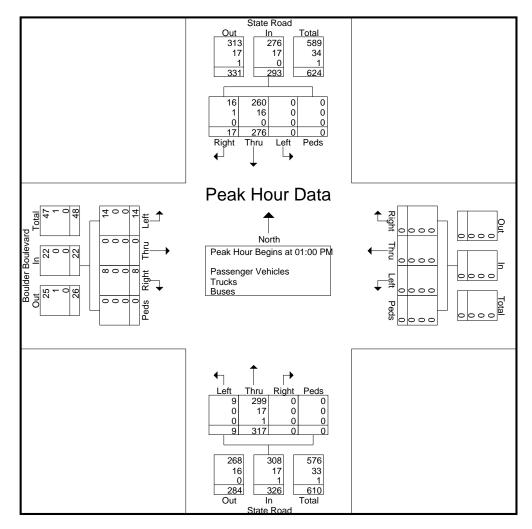
Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 71023050

Start Date : 8/31/2023

	Вс	ulde	r Bo	uleva	ard							Sta	ate R	oad			Sta	ate R	oad		1
		Ea	stbo	und			We	stbo	und			No	rthbo	ound			Sou	ıthbo	ound		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	m 10:	00 AN	1 to 01:	45 PN	1 - Pe	ak 1 o	f 1												
Peak Hour f	for En	tire Int	tersec	tion Be	egins a	t 01:0	0 PM														
01:00 PM	4	0	2	0	6	0	0	0	0	0	1	74	0	0	75	0	55	5	0	60	141
01:15 PM	2	0	3	0	5	0	0	0	0	0	3	80	0	0	83	0	63	3	0	66	154
01:30 PM	3	0	2	0	5	0	0	0	0	0	1	77	0	0	78	0	80	4	0	84	167
01:45 PM	5	0	1	0	6	0	0	0	0	0	4	86	0	0	90	0	78	5	0	83	179
Total Volume	14	0	8	0	22	0	0	0	0	0	9	317	0	0	326	0	276	17	0	293	641
% App. Total	63.6	0	36.4	0		0	0	0	0		2.8	97.2	0	0		0	94.2	5.8	0		
PHF	.700	.000	.667	.000	.917	.000	.000	.000	.000	.000	.563	.922	.000	.000	.906	.000	.863	.850	.000	.872	.895
Passenger Vehicles	14	0	8	0	22	0	0	0	0	0	9	299	0	0	308	0	260	16	0	276	606
% Passenger Vehicles	100	0	100	0	100	0	0	0	0	0	100	94.3	0	0	94.5	0	94.2	94.1	0	94.2	94.5
Trucks	0	0	0	0	0	0	0	0	0	0	0	17	0	0	17	0	16	1	0	17	34
% Trucks	Ō	Ō	Ō	0	Ö	Ō	Ō	Ō	Ō	Ō	0	5.4	Ō	Ō	5.2	Ō	5.8	5.9	Ō	5.8	5.3
Buses	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
% Buses	Ō	Ö	0	0	0	Ō	0	0	0	0	0	0.3	0	Ö	0.3	Ö	0	Ö	Ö	Ō	0.2





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State Road / Boulder Boulevard Intersection

Project Number: 2023050.21 File Name : 1-State and Boulder 083123

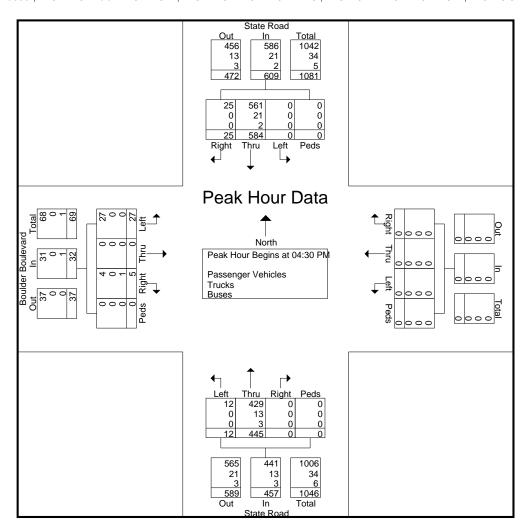
Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 71023050

Start Date : 8/31/2023

	Вс	ulde	er Bo	ulev	ard							Sta	ate R	oad			Sta	ate R	oad		
		Ea	stbo	und			We	stbo	und			No	rthbo	und			Sou	uthbo	ound		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	om 04:	:30 PN	/I to 05:	15 PN	/I - Pe	ak 1 o	f 1												
Peak Hour	for Ent	tire In	tersec	tion B	egins a	t 04:3	0 PM														
04:30 PM	5	0	1	0	6	0	0	0	0	0	4	109	0	0	113	0	127	13	0	140	259
04:45 PM	9	0	3	0	12	0	0	0	0	0	3	98	0	0	101	0	153	2	0	155	268
05:00 PM	9	0	0	0	9	0	0	0	0	0	3	136	0	0	139	0	147	5	0	152	300
05:15 PM	4	0	1	0	5	0	0	0	0	0	2	102	0	0	104	0	157	5	0	162	271
Total Volume	27	0	5	0	32	0	0	0	0	0	12	445	0	0	457	0	584	25	0	609	1098
% App. Total	84.4	0	15.6	0		0	0	0	0		2.6	97.4	0	0		0	95.9	4.1	0		
PHF	.750	.000	.417	.000	.667	.000	.000	.000	.000	.000	.750	.818	.000	.000	.822	.000	.930	.481	.000	.940	.915
Passenger Vehicles	27	0	4	0	31	0	0	0	0	0	12	429	0	0	441	0	561	25	0	586	1058
% Passenger Vehicles	100	0	80.0	0	96.9	0	0	0	0	0	100	96.4	0	0	96.5	0	96.1	100	0	96.2	96.4
Trucks	0	0	0	0	0	0	0	0	0	0	0	13	0	0	13	0	21	0	0	21	34
% Trucks	0	0	0	0	0	0	0	0	0	0	0	2.9	0	0	2.8	0	3.6	0	0	3.4	3.1
Buses	0	0	1	0	1	0	0	0	0	0	0	3	0	0	3	0	2	0	0	2	6
% Buses	0	0	20.0	0	3.1	0	0	0	0	0	0	0.7	0	0	0.7	0	0.3	0	0	0.3	0.5





520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Falls Commerce Parkway Intersection

Project Number: 2023050.21 File Name : 2-State and Falls Commerce 091223

Project Name: Traffic Study Project Location: Cuyahoga Falls, OH Client Name: City of Cuyahoga Falls Site Code : 71043050 Start Date : 9/12/2023

Page No : 1

					Grou					enger	ven	cies	- Irt	ICKS	- Bus	es					
			ate I stbo	Drive und	•	F	P	Com arkw estbo	-	ce			ate R					ate R uthbo			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right		App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
07:00 AM	0	0	0	0	App. 10tal	0	0	1	0	1 App. Total	1	81	2	0	84	0	61	0	0	App. 10tal	146
07:15 AM	0	0	Ö	Ö	Ö	ő	0	2	0	2	0	159	3	0	162	2	62	Ö	Ö	64	228
07:30 AM	0	0	0	0	0	Ö	0	4	0	4	1	152	3	Õ	156	1	49	Õ	0	50	210
07:45 AM	0	0	0	0	Ö	1	0	0	0	1	0	138	3	0	141	5	102	1	0	108	250
Total	0	0	0	0	0	1	0	7	0	8	2	530	11	0	543	8	274	1	0	283	834
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	97	0	0	97	0	79	0	0	79	176
08:15 AM	0	0	0	0	0	1	0	0	0	1	0	96	1	0	97	0	83	0	0	83	181
08:30 AM	0	0	0	0	0	0	0	1	0	1	0	100	0	0	100	0	74	0	0	74	175
08:45 AM	0	0	0	0	0	1	0	0	0	1	0	102	0	0	102	1	71	0	0	72	175
Total	0	0	0	0	0	2	0	1	0	3	0	395	1	0	396	1	307	0	0	308	707
09:00 AM	0	0	0	0	0	0	0	0	0	0	0	66	0	0	66	1	57	0	0	58	124
09:15 AM	1	Õ	Õ	Õ	1	1	Ö	1	Õ	2	0	71	Õ	Õ	71	3	62	Ö	Õ	65	139
09:30 AM	0	0	0	0	0	0	0	1	0	1	0	66	0	0	66	1	53	0	0	54	121
09:45 AM	Ō	0	0	Ō	Ö	Ō	0	0	0	0	0	66	Ō	Ō	66	1	65	Ō	Ō	66	132
Total	1	0	0	0	1	1	0	2	0	3	0	269	0	0	269	6	237	0	0	243	516
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	64	0	0	64	0	52	0	0	52	116
10:15 AM	0	0	1	0	1	ő	0	2	0	2	1	66	0	0	67	1	66	0	0	67	137
10:30 AM	0	0	1	0	1	0	0	1	0	1	1	59	0	0	60	1	65	0	0	66	128
10:45 AM	0	0	0	0	0	1	0	0	0	1	0	54	0	0	54	0	64	0	0	64	119
Total	0	0	2	0	2	1	0	3	0	4	2	243	0	0	245	2	247	0	0	249	500
11:00 AM	0	0	0	0	0	1	0	2	0	3	0	51	1	0	52	1	63	0	0	64	119
11:15 AM	0	0	1	0	1	1	0	1	0	2	0	72	1	0	73	0	57	0	0	57	133
11:30 AM	0	0	1	0	1	1	0	3	0	4	0	64	0	0	64	0	63	0	0	63	132
11:45 AM	0	0	Ó	0	Ó	Ö	0	2	0	2	0	79	1	0	80	4	66	0	0	70	152
Total	0	0	2	0	2	3	0	8	0	11	0	266	3	0	269	5	249	0	0	254	536
12:00 PM	0	0	0	0	0	2	0	1	0	3	0	56	0	0	56	1	74	0	0	75	134
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	56	1	0	57	1	55	0	0	75 56	113
12:30 PM	0	0	0	0	0	4	0	1	0	5	0	57	1	0	58	1	70	0	0	71	134
12:45 PM	0	0	0	0	0	1	0	1	0	2	0	53	0	0	53	Ö	66	0	0	66	121
Total	0	0	0	0	0	7	0	3	0	10	0	222	2	0	224	3	265	0	0	268	502
04 00 5:	م ا	•	•	0	,	م ا	•	•			۱ ۵		,	•		م ا	00			0.4	404
01:00 PM	1	0	0	0	1	1	0	0	0	1	0	54	1	0	55	1	62	1	0	64	121
01:15 PM	0	0	2 1	0	2	0	0	2	0	2	0	65 77	3	0	68 78	0	65 52	0	0	65 58	137 137
01:30 PM	0	0	-	0	1 0	0	0	1	0	0	1	73	2	0	78 76		5∠ 48	5 0	0	58 48	
01:45 PM Total	1	0	<u>0</u> 3	0	4	1	0	3	0	1_ 4	1		<u>_</u>	0	277	2	227	<u>0</u>	0	235	125 520
Total	1	U	3	U	4	'	U	3	U	4		209	,	U	211	2	221	O	U	233	320
02:00 PM	0	0	0	0	0	1	0	0	0	1	0	95	1	0	96	1	72	0	0	73	170
02:15 PM	0	0	0	0	0	0	0	3	0	3	0	69	0	0	69	3	78	0	0	81	153
02:30 PM	0	0	0	0	0	0	0	2	0	2	0	94	1	0	95	2	73	0	0	75	172



Akron, OH 44311 Telephone: (330) 572-2100

State Road / Falls Commerce Parkway Intersection

File Name : 2-State and Falls Commerce 091223

Project Number: 2023050.21 Project Name: Traffic Study Project Location: Cuyahoga Falls, OH Client Name: City of Cuyahoga Falls Site Code : 71043050 Start Date : 9/12/2023

Page No : 2

					Grou	ups F	Printe	ed- P	asse	nger	Vehi	cles	- Tru	ıcks	- Bus	es					
			/ate I stbo	Drive und	!	F	Р	Com arkw stbo	ay	ce			ate R					ate R	oad	l	
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
02:45 PM	0	0	0	0	0	0	0	3	0	3	0	94	2	0	96	2	95	0	0	97	196
Total	0	0	0	0	0	1	0	8	0	9	0	352	4	0	356	8	318	0	0	326	691
03:00 PM	0	0	0	0	0	2	0	1	0	3	0	80	0	0	80	1	96	0	0	97	180
03:15 PM	0	0	0	0	0	1	0	0	0	1	0	102	1	0	103	0	80	0	0	80	184
03:30 PM	0	0	0	0	0	1	0	5	0	6	0	108	0	0	108	2	95	0	0	97	211
03:45 PM	0	0	0	0	0	0	0	5	0	5	0	92	0	0	92	0	106	0	0	106	203
Total	0	0	0	0	0	4	0	11	0	15	0	382	1	0	383	3	377	0	0	380	778
04:00 PM	0	0	0	0	0	3	0	3	0	6	0	104	0	0	104	1	110	0	0	111	221
04:15 PM	0	0	1	0	1	0	Ō	0	0	0	0	108	0	0	108	3	104	0	0	107	216
04:30 PM	1	0	1	Õ	2	2	0	4	0	6	0	124	Õ	0	124	5	107	Ö	0	112	244
04:45 PM	0	0	1	0	1	0	0	0	Ö	0	0	111	0	0	111	Ö	168	0	0	168	280
Total	1	0	3	0	4	5	0	7	0	12	0	447	0	0	447	9	489	0	0	498	961
05:00 PM	0	0	0	0	0	0	0	6	0	6	0	137	0	0	137	0	142	0	0	142	285
05:15 PM	0	0	1	0	1	1	0	0	0	1	0	114	0	0	114	1	133	0	0	134	250
05:30 PM	0	0	0	0	0	1	0	1	0	2	0	89	0	0	89	1	129	0	0	130	221
05:45 PM	0	0	1	0	1	1	Ö	i	0	2	0	72	0	0	72	Ö	71	0	0	71	146
Total	0	0		0	2	3	0	<u>.</u>	0	11	0	412	0	0	412	2	475	0	0	477	902
		-		•			-		Ū					•		. –			ŭ		
06:00 PM	0	1	0	0	1	0	0	0	0	0	0	86	0	0	86	1	96	0	0	97	184
06:15 PM	0	0	1	0	1	1	0	0	0	1	0	57	1	0	58	0	87	0	0	87	147
06:30 PM	0	0	1	0	1	0	0	0	0	0	0	44	0	0	44	0	73	0	0	73	118
06:45 PM	0	0_	0	0	0	0	0		0	1_	0	38	0_	0	38	0	49	1_	0	50	89
Total	0	1	2	0	3	1	0	1	0	2	0	225	1	0	226	1	305	1	0	307	538
Grand Total	3	1	14	0	18	30	0	62	0	92	5	4012	30	0	4047	50	3770	8	0	3828	7985
Apprch %	16.7	5.6	77.8	0		32.6	0	67.4	0		0.1	99.1	0.7	0		1.3	98.5	0.2	0		
Total %	0	0	0.2	0	0.2	0.4	0	0.8	0	1.2	0.1	50.2	0.4	0	50.7	0.6	47.2	0.1	0	47.9	
Passenger Vehicles	3	1	13	0	17	27	0	38	0	65	5	3768	29	0	3802	25	3561	8	0	3594	7478
% Passenger Vehicles	100	100	92.9	0	94.4	90	0	61.3	0	70.7	100	93.9	96.7	0	93.9	50	94.5	100	0	93.9	93.7
Trucks	0	0	1	0	1	3	0	24	0	27	0	225	1	0	226	25	190	0	0	215	469
% Trucks	0	0	7.1	0	5.6	10	0	38.7	0	29.3	0	5.6	3.3	0	5.6	50	5	0	0	5.6	5.9
Buses	0	0	0	0	0	0	0	0	0	0	0	19	0	0	19	0	19	0	0	19	38
% Buses	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0.5	0	0.5	0	0	0.5	0.5



520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Falls Commerce Parkway Intersection

Project Number: 2023050.21 File Name : 2-State and Falls Commerce 091223

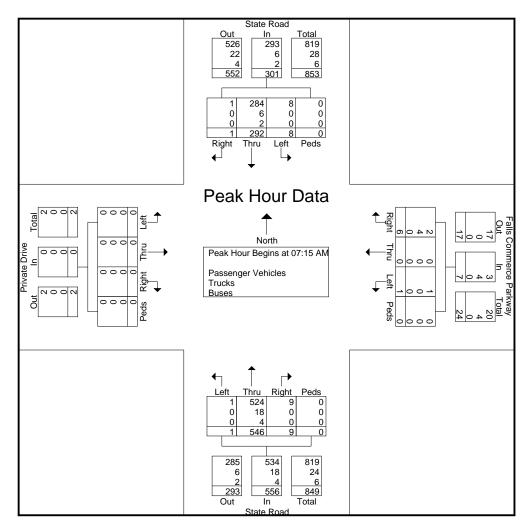
Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 71043050

Start Date : 9/12/2023

			ate I stbo	Drive und)	F		Com arkw stbo	ay	се			ate R	oad ound				ate R uthbo			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	m 07:	:15 AN	∕I to 08:	:00 AN			f 1												
Peak Hour f	or En	tire Int	tersec	tion B	egins a	t 07:1	5 AM														
07:15 AM	0	0	0	0	0	0	0	2	0	2	0	159	3	0	162	2	62	0	0	64	228
07:30 AM	0	0	0	0	0	0	0	4	0	4	1	152	3	0	156	1	49	0	0	50	210
07:45 AM	0	0	0	0	0	1	0	0	0	1	0	138	3	0	141	5	102	1	0	108	250
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	97	0	0	97	0	79	0	0	79	176
Total Volume	0	0	0	0	0	1	0	6	0	7	1	546	9	0	556	8	292	1	0	301	864
% App. Total	0	0	0	0		14.3	0	85.7	0		0.2	98.2	1.6	0		2.7	97	0.3	0		
PHF	.000	.000	.000	.000	.000	.250	.000	.375	.000	.438	.250	.858	.750	.000	.858	.400	.716	.250	.000	.697	.864
Passenger Vehicles	0	0	0	0	0	1	0	2	0	3	1	524	9	0	534	8	284	1	0	293	830
% Passenger Vehicles	0	0	0	0	0	100	0	33.3	0	42.9	100	96.0	100	0	96.0	100	97.3	100	0	97.3	96.1
Trucks	0	0	0	0	0	0	0	4	0	4	0	18	0	0	18	0	6	0	0	6	28
% Trucks	0	0	0	0	0	0	0	66.7	0	57.1	0	3.3	0	0	3.2	0	2.1	0	0	2.0	3.2
Buses	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	2	0	0	2	6
% Buses	0	0	0	0	0	0	0	0	0	0	0	0.7	0	0	0.7	0	0.7	0	0	0.7	0.7





520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Falls Commerce Parkway Intersection

Project Number: 2023050.21 File Name : 2-State and Falls Commerce 091223

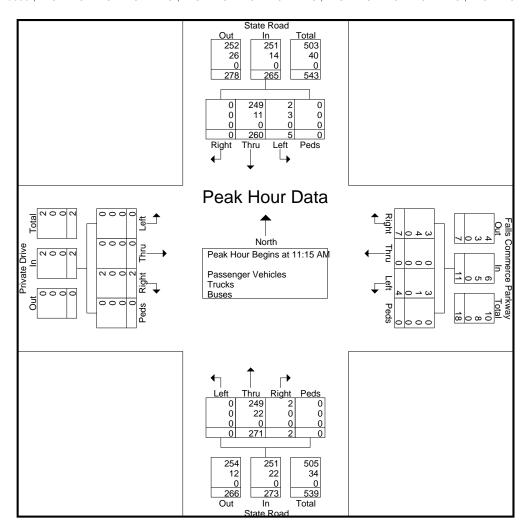
Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 71043050

Start Date : 9/12/2023

			ate I		•	F	Р	Com arkw stbo	ay	е			ate R					ate R uthbo			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	om 10	:00 AN	∕I to 01:	:45 PN	/I - Pe	ak 1 o	f 1												
Peak Hour	for En	tire In	tersec	tion B	egins a	t 11:1	5 AM														
11:15 AM	0	0	1	0	1	1	0	1	0	2	0	72	1	0	73	0	57	0	0	57	133
11:30 AM	0	0	1	0	1	1	0	3	0	4	0	64	0	0	64	0	63	0	0	63	132
11:45 AM	0	0	0	0	0	0	0	2	0	2	0	79	1	0	80	4	66	0	0	70	152
12:00 PM	0	0	0	0	0	2	0	1_	0	3	0	56	0	0	56	1	74	0	0	75	134
Total Volume	0	0	2	0	2	4	0	7	0	11	0	271	2	0	273	5	260	0	0	265	551
% App. Total	0	0	100	0		36.4	0	63.6	0		0	99.3	0.7	0		1.9	98.1	0	0		
PHF	.000	.000	.500	.000	.500	.500	.000	.583	.000	.688	.000	.858	.500	.000	.853	.313	.878	.000	.000	.883	.906
Passenger Vehicles	0	0	2	0	2	3	0	3	0	6	0	249	2	0	251	2	249	0	0	251	510
% Passenger Vehicles	0	0	100	0	100	75.0	0	42.9	0	54.5	0	91.9	100	0	91.9	40.0	95.8	0	0	94.7	92.6
Trucks	0	0	0	0	0	1	0	4	0	5	0	22	0	0	22	3	11	0	0	14	41
% Trucks	0	0	0	0	0	25.0	0	57.1	0	45.5	0	8.1	0	0	8.1	60.0	4.2	0	0	5.3	7.4
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0





520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Falls Commerce Parkway Intersection

Project Number: 2023050.21 File Name : 2-State and Falls Commerce 091223

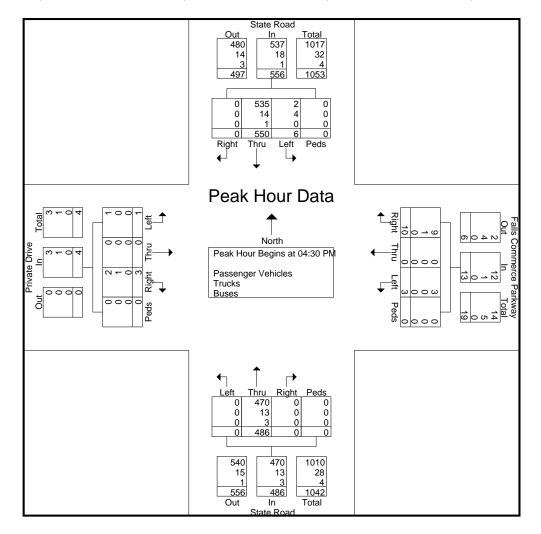
Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 71043050

Start Date : 9/12/2023

			ate I stbo	Drive und	•	F	Р	Com arkw	•	се			ate R					ate R uthbo			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	om 04	:30 PN	/I to 05:	:15 PN	/I - Pe	ak 1 o	f 1												
Peak Hour	for En	tire In	tersec	tion B	egins a	t 04:3	0 PM														
04:30 PM	1	0	1	0	2	2	0	4	0	6	0	124	0	0	124	5	107	0	0	112	244
04:45 PM	0	0	1	0	1	0	0	0	0	0	0	111	0	0	111	0	168	0	0	168	280
05:00 PM	0	0	0	0	0	0	0	6	0	6	0	137	0	0	137	0	142	0	0	142	285
05:15 PM	0	0	1	0	1	1	0	0	0	1	0	114	0	0	114	1	133	0	0	134	250
Total Volume	1	0	3	0	4	3	0	10	0	13	0	486	0	0	486	6	550	0	0	556	1059
% App. Total	25	0	75	0		23.1	0	76.9	0		0	100	0	0		1.1	98.9	0	0		
PHF	.250	.000	.750	.000	.500	.375	.000	.417	.000	.542	.000	.887	.000	.000	.887	.300	.818	.000	.000	.827	.929
Passenger Vehicles	1	0	2	0	3	3	0	9	0	12	0	470	0	0	470	2	535	0	0	537	1022
% Passenger Vehicles	100	0	66.7	0	75.0	100	0	90.0	0	92.3	0	96.7	0	0	96.7	33.3	97.3	0	0	96.6	96.5
Trucks	0	0	1	0	1	0	0	1	0	1	0	13	0	0	13	4	14	0	0	18	33
% Trucks	0	0	33.3	0	25.0	0	0	10.0	0	7.7	0	2.7	0	0	2.7	66.7	2.5	0	0	3.2	3.1
Buses	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	1	0	0	1	4
% Buses	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0.6	0	0.2	0	0	0.2	0.4





520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Buckeye Sports Drive Intersection

Project Number: 2023050.21 File Name : 3-State and Buckeye 091223

Project Name: Traffic Study Project Location: Cuyahoga Falls, OH Client Name: City of Cuyahoga Falls Site Code : 69053050 Start Date : 9/12/2023

Page No : 1

						ups F	rint	ed- F	asse	enger	Vehi	cles	- Tru	ıcks	- Bus	es					1
			eye S Cente stbo	er	ts		We	storr-					ate R					ate R			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
07:00 AM	0	0	0	0	0	1	0	0	0	1	1	88	0	0	89	3	57	2	0	62	152
07:15 AM	0	0	0	0	0	0	0	2	0	2	2	165	1	0	168	1	61	2	0	64	234
07:30 AM	0	0	0	0	0	0	0	0	0	0	1	150	0	0	151	0	44	1	0	45	196
07:45 AM	1	0_	1	0	2	0	0	1_	0	1_	5	139	1_	0	145	0	104	1_	0	105	253
Total	1	0	1	0	2	1	0	3	0	4	9	542	2	0	553	4	266	6	0	276	835
08:00 AM	0	0	2	0	2	0	0	0	0	0	2	97	0	0	99	1	78	2	0	81	182
08:15 AM	0	0	0	0	0	0	0	1	0	1	1	95	0	0	96	0	82	0	0	82	179
08:30 AM	0	0	0	0	0	0	0	1	0	1	1	100	0	0	101	4	72	1	0	77	179
08:45 AM	0	0	1	0	1	0	0	3	0	3	2	99	1	0	102	2	62	5	0	69	175
Total	0	0	3	0	3	0	0	5	0	5	6	391	1	0	398	7	294	8	0	309	715
09:00 AM	0	0	0	0	0	0	0	4	0	4	1	60	1	0	62	1	55	3	0	59	125
09:15 AM	2	0	0	0	2	0	0	0	0	0	1	73	0	0	74	Ö	61	0	0	61	137
09:30 AM	1	0	2	0	3	ő	0	0	0	0	2	66	0	0	68	1	52	0	0	53	124
09:45 AM	i	0	0	Ö	1	ő	0	Ö	0	Ö	2	66	0	0	68	Ö	62	2	Ö	64	133
Total	4	0	2	0	6	0	0	4	0	4	6	265	1	0	272	2	230	5	0	237	519
10:00 AM	1	0	0	0	1	1	0	0	0	1	2	63	0	0	65	0	60	0	0	60	127
10:00 AW	2	0	1	0	3	0	0	1	0	1	1	61	1	0	63	0	59	1	0	60	127
10:30 AM	1	0	Ö	0	1	1	0	Ó	0	1	2	56	Ö	0	58	0	57	2	0	59	119
10:45 AM	1	0	1	0	2	Ö	0	1	0	1	1	54	0	0	55	ő	59	0	0	59	117
Total	5	0	2	0	7	2	0	2	0	4	6	234	1	0	241	0	235	3	0	238	490
11:00 AM	1	0	1	0	2	0	0	3	0	3	1	49	1	0	51	0	59	2	0	61	117
11:15 AM	Ö	0	Ö	0	0	2	0	2	0	4	0	65	0	0	65	1	58	2	0	61	130
11:30 AM	3	0	1	0	4	1	0	1	0	2	1	59	2	0	62	1	67	0	0	68	136
11:45 AM	0	0	1	0	1	Ö	0	2	0	2	Ö	77	2	0	79	2	61	0	0	63	145
Total	4	0	3	0	7	3	0	8	0	11	2	250	5	0	257	4	245	4	0	253	528
12:00 PM	1	0	2	0	3	0	0	1	0	1	3	55	1	0	59	2	74	1	0	77	140
12:00 PM	0	0	4	0	4	0	0	2	0	2	2	52	0	0	54	1	53	2	0	56	116
12:13 PM	0	0	1	0	1	0	0	1	0	1	1	62	0	0	63	1	69	1	0	71	136
12:45 PM	1	0	Ö	0	1	0	0	0	0	0	0	51	0	0	51	2	61	6	0	69	121
Total	2	0	7	0	9	0	0	4	0	4	6	220	1	0	227	6	257	10	0	273	513
04:00 554	م ا	0	4	0	_	۱ ۵	0	,	•	,		50	0	•	50	۱ ۵	50	_	0	00	1 400
01:00 PM	4	0	1	0	5	0	0	1	0	1	3	56	0	0	59 67	2	59	2	0	63	128
01:15 PM	2	0	0	0	2	1 0	0	1	0	2	0	66 65	1	0	67 66	1 3	67	1	0	69 53	140
01:30 PM	3	-	1 2	0	-	_	0	3	0	3 1	0	65 74	1	-	66 74	2	49 52	1	0	53 54	126
01:45 PM Total	9	0 0	<u>_</u> 4	0	2 13	<u>0</u> 1	0	<u>1</u> 6	0	7	0 3		0 2	0 0	266	8	227	0 4	<u>0</u> 0	<u>54</u> 	131 525
	I -	_	_		_	· I .	_	_	-	_	I .			_	•-	I -			_		.=.
02:00 PM	2	0	0	0	2	1	0	4	0	5	1	91	1	0	93	2	70	1	0	73	173
02:15 PM	1	0	0	0	1	0	0	0	0	0	0	74	1	0	75 04	2	69	3	0	74	150
02:30 PM	2	0	0	0	2	1	0	1	0	2	0	90	1	0	91	0	71	1	0	72	167



Akron, OH 44311 Telephone: (330) 572-2100

State Road / Buckeye Sports Drive Intersection

Project Number: 2023050.21 File Name : 3-State and Buckeye 091223

Project Name: Traffic Study Project Location: Cuyahoga Falls, OH Client Name: City of Cuyahoga Falls Site Code : 69053050 Start Date : 9/12/2023

Page No : 2

					Grou	ups F	rinte	ed- P	asse	nger	Vehi	cles	- Tru	ıcks	- Bus	es					
	E						_	Storr- estbo					ate R					ate R uthbo	oad ound		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
02:45 PM	1	0	1	0	2	1	0	1	0	2	0	94	0	0	94	0	94	1	0	95	193
Total	6	0	1	0	7	3	0	6	0	9	1	349	3	0	353	4	304	6	0	314	683
03:00 PM	1	0	0	0	1	1	0	1	0	2	0	95	0	0	95	2	94	0	0	96	194
03:15 PM	2	0	2	0	4	0	0	2	0	2	0	95	0	0	95	1	97	0	0	98	199
03:30 PM	1	0	1	0	2	0	0	2	0	2	0	97	0	0	97	0	100	0	0	100	201
03:45 PM	1	0	0	0	1	1	0	1	0	2	0	98	0	0	98	2	105	0	0	107	208
Total	5	0	3	0	8	2	0	6	0	8	0	385	0	0	385	5	396	0	0	401	802
04:00 PM	1	0	6	0	7	0	0	2	0	2	1	100	0	0	101	3	108	0	0	111	221
04:15 PM	2	Õ	2	Ö	4	Ö	0	3	Õ	3	2	109	0	0	111	1	111	0	0	112	230
04:30 PM	0	0	2	0	2	0	0	0	0	0	1	124	0	Õ	125	2	109	Õ	Ö	111	238
04:45 PM	3	Õ	1	Ö	4	Ö	0	3	Õ	3	1	105	0	0	106	0	167	0	0	167	280
Total	6	0	11	0	17	0	0	8	0	8	5	438	0	0	443	6	495	0	0	501	969
05:00 PM	1	0	2	0	3	0	0	0	0	0	0	139	1	0	140	1	139	0	0	140	283
05:15 PM	0	0	1	0	1	1	0	1	0	2	2	110	0	0	112	3	128	0	0	131	246
05:30 PM	3	0	5	0	8	0	0	1	0	1	2	85	0	0	87	1	134	0	0	135	231
05:45 PM	0	0	0	0	0	1	0	0	0	1	0	73	0	0	73	3	72	0	0	75	149
Total	4	0	8	0	12	2	0	2	0	4	4	407	1	0	412	8	473	0	0	481	909
06:00 PM	0	0	0	0	0	1	0	2	0	3	0	82	0	0	82	2	90	0	0	92	177
06:15 PM	0	0	0	0	0	0	0	0	0	0	0	58	0	0	58	0	83	0	0	83	141
06:30 PM	0	0	0	0	0	0	0	0	0	0	0	38	0	0	38	0	74	0	0	74	112
06:45 PM	0	0	0	0	0	0	0	0	0	0	0	37	0	0	37	0	48	0	0	48	85
Total	0	0	0	0	0	1	0	2	0	3	0	215	0	0	215	2	295	0	0	297	515
Grand Total	46	0	45	0	91	15	0	56	0	71	48	3957	17	0	4022	56	3717	46	0	3819	8003
Apprch %	50.5	0	49.5	0		21.1	0	78.9	0		1.2	98.4	0.4	0		1.5	97.3	1.2	0		
Total %	0.6	0	0.6	0	1.1	0.2	0	0.7	0	0.9	0.6	49.4	0.2	0	50.3	0.7	46.4	0.6	0	47.7	
Passenger Vehicles	44	0	42	0	86	15	0	48	0	63	45	3757	16	0	3818	48	3552	42	0	3642	7609
% Passenger Vehicles	95.7	0	93.3	0	94.5	100	0	85.7	0	88.7	93.8	94.9	94.1	0	94.9	85.7	95.6	91.3	0	95.4	95.1
Trucks	2	0	3	0	5	0	0	8	0	8	3	186	1	0	190	8	155	4	0	167	370
% Trucks	4.3	0	6.7	0	5.5	0	0	14.3	0	11.3	6.2	4.7	5.9	0	4.7	14.3	4.2	8.7	0	4.4	4.6
Buses	0	0	0	0	0	0	0	0	0	0	0	14	0	0	14	0	10	0	0	10	24
% Buses	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0.3	0	0.3	0	0	0.3	0.3



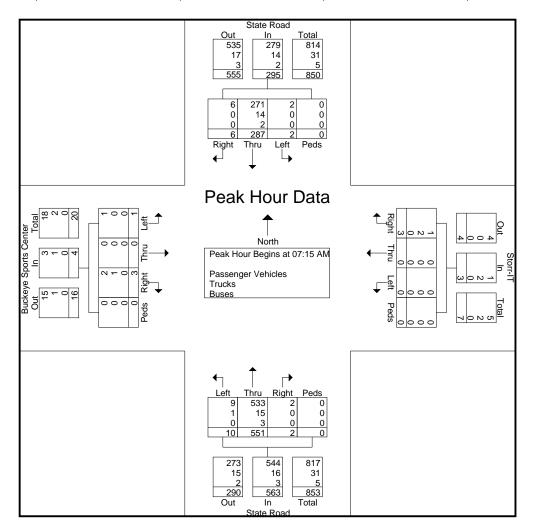
520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Buckeye Sports Drive Intersection

Project Number: 2023050.21 File Name : 3-State and Buckeye 091223

Project Name: Traffic Study
Project Location: Cuyahoga Falls, OH
Site Code : 69053050
Start Date : 9/12/2023

	E	(eye S Cento stbo		ts		_	torr- stbo					ate R					ate R uthbo			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	om 07	:15 AN	/I to 08:	:00 AN	Л - Pe	ak 1 o	f 1												
Peak Hour	for En	tire In	tersec	tion B	egins a	t 07:1	5 AM														
07:15 AM	0	0	0	0	0	0	0	2	0	2	2	165	1	0	168	1	61	2	0	64	234
07:30 AM	0	0	0	0	0	0	0	0	0	0	1	150	0	0	151	0	44	1	0	45	196
07:45 AM	1	0	1	0	2	0	0	1	0	1	5	139	1	0	145	0	104	1	0	105	253
MA 00:80	0	0	2	0	2	0	0	0	0	0	2	97	0	0	99	1	78	2	0	81	182
Total Volume	1	0	3	0	4	0	0	3	0	3	10	551	2	0	563	2	287	6	0	295	865
% App. Total	25	0	75	0		0	0	100	0		1.8	97.9	0.4	0		0.7	97.3	2	0		
PHF	.250	.000	.375	.000	.500	.000	.000	.375	.000	.375	.500	.835	.500	.000	.838	.500	.690	.750	.000	.702	.855
Passenger Vehicles	1	0	2	0	3	0	0	1	0	1	9	533	2	0	544	2	271	6	0	279	827
% Passenger Vehicles	100	0	66.7	0	75.0	0	0	33.3	0	33.3	90.0	96.7	100	0	96.6	100	94.4	100	0	94.6	95.6
Trucks	0	0	1	0	1	0	0	2	0	2	1	15	0	0	16	0	14	0	0	14	33
% Trucks	0	0	33.3	0	25.0	0	0	66.7	0	66.7	10.0	2.7	0	0	2.8	0	4.9	0	0	4.7	3.8
Buses	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	2	0	0	2	5
% Buses	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0.5	0	0.7	0	0	0.7	0.6





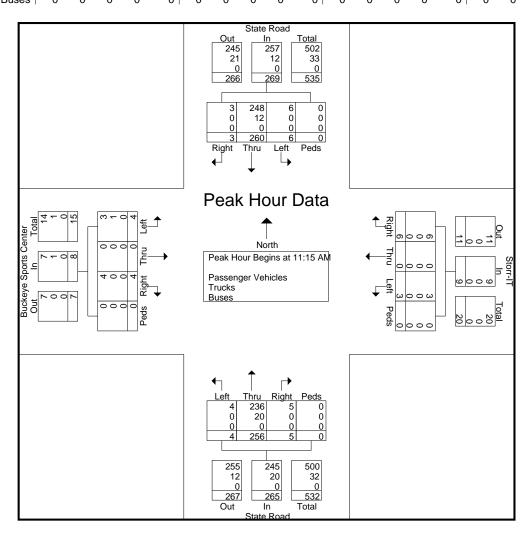
520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Buckeye Sports Drive Intersection

Project Number: 2023050.21 File Name : 3-State and Buckeye 091223

Project Name: Traffic Study
Project Location: Cuyahoga Falls, OH
Site Code : 69053050
Start Date : 9/12/2023

	E	(eye S Cente stbo	er er	ts		_	Storr- estbo					ate R rthbo					ate R uthbo			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. To
Peak Hour								ak 1 c	f 1												
Peak Hour	for En	tire In	tersec	tion B	egins a	t 11:1	5 AM														
11:15 AM	0	0	0	0	0	2	0	2	0	4	0	65	0	0	65	1	58	2	0	61	13
11:30 AM	3	0	1	0	4	1	0	1	0	2	1	59	2	0	62	1	67	0	0	68	13
11:45 AM	0	0	1	0	1	0	0	2	0	2	0	77	2	0	79	2	61	0	0	63	14
12:00 PM	1	0	2	0	3	0	0	1	0	1	3	55	1_	0	59	2	74	1	0	77	140
Total Volume	4	0	4	0	8	3	0	6	0	9	4	256	5	0	265	6	260	3	0	269	55°
% App. Total	50	0	50	0		33.3	0	66.7	0		1.5	96.6	1.9	0		2.2	96.7	1.1	0		
PHF	.333	.000	.500	.000	.500	.375	.000	.750	.000	.563	.333	.831	.625	.000	.839	.750	.878	.375	.000	.873	.950
Passenger Vehicles	3	0	4	0	7	3	0	6	0	9	4	236	5	0	245	6	248	3	0	257	518
% Passenger Vehicles	75.0	0	100	0	87.5	100	0	100	0	100	100	92.2	100	0	92.5	100	95.4	100	0	95.5	94.0
Trucks	1	0	0	0	1	0	0	0	0	0	0	20	0	0	20	0	12	0	0	12	33
% Trucks	25.0	0	0	0	12.5	0	0	0	0	0	0	7.8	0	0	7.5	0	4.6	0	0	4.5	6.0
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(
% Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	





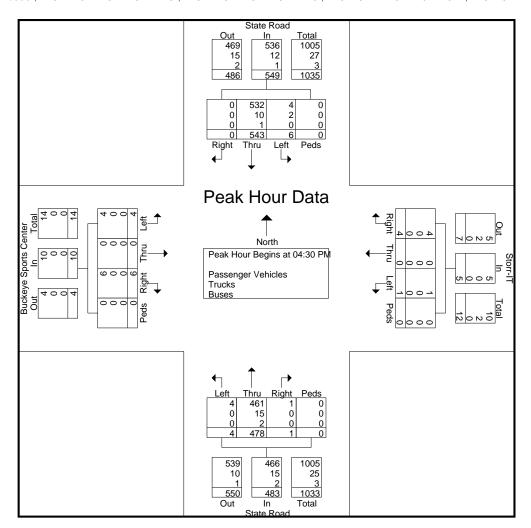
520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Buckeye Sports Drive Intersection

Project Number: 2023050.21 File Name : 3-State and Buckeye 091223

Project Name: Traffic Study
Project Location: Cuyahoga Falls, OH
Site Code : 69053050
Start Date : 9/12/2023

	E	(eye S Cento stbo	er	ts		_	torr- stbo					ate R					ate R uthbo			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	om 04	:30 PN	∕I to 05:	:15 PN	/I - Pe	ak 1 o	f 1												
Peak Hour f	or En	tire In	tersec	tion B	egins a	t 04:3	0 PM														
04:30 PM	0	0	2	0	2	0	0	0	0	0	1	124	0	0	125	2	109	0	0	111	238
04:45 PM	3	0	1	0	4	0	0	3	0	3	1	105	0	0	106	0	167	0	0	167	280
05:00 PM	1	0	2	0	3	0	0	0	0	0	0	139	1	0	140	1	139	0	0	140	283
05:15 PM	0	0	1	0	1	1	0	1	0	2	2	110	0	0	112	3	128	0	0	131	246
Total Volume	4	0	6	0	10	1	0	4	0	5	4	478	1	0	483	6	543	0	0	549	1047
% App. Total	40	0	60	0		20	0	80	0		0.8	99	0.2	0		1.1	98.9	0	0		
PHF	.333	.000	.750	.000	.625	.250	.000	.333	.000	.417	.500	.860	.250	.000	.863	.500	.813	.000	.000	.822	.925
Passenger Vehicles	4	0	6	0	10	1	0	4	0	5	4	461	1	0	466	4	532	0	0	536	1017
% Passenger Vehicles	100	0	100	0	100	100	0	100	0	100	100	96.4	100	0	96.5	66.7	98.0	0	0	97.6	97.1
Trucks	0	0	0	0	0	0	0	0	0	0	0	15	0	0	15	2	10	0	0	12	27
% Trucks	0	0	0	0	0	0	0	0	0	0	0	3.1	0	0	3.1	33.3	1.8	0	0	2.2	2.6
Buses	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	1	0	0	1	3
% Buses	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0.4	0	0.2	0	0	0.2	0.3





Akron, OH 44311 Telephone: (330) 572-2100

State Road / Salt Creek Run Intersection

Project Number: 2023050.21 File Name : 4-State and Salt Creek 091423

Project Name: Traffic Study Project Location: Cuyahoga Falls, OH Client Name: City of Cuyahoga Falls Site Code : 71083050 Start Date : 9/14/2023

Page No : 1

						ups F	Printe	ed- P	asse	nger	Veh	cles	- Tru	icks	- Bus	es					
	;	Salt (Creek	k Ru	n							Sta	ate R	oad			Sta	ate R	oad		
		Eas	stbou	und			We	stbo	und			No	rthbo	ound			Soi	uthbo	ound		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
07:00 AM	6	0	2	0	8	0	0	0	0	0	1	81	0	0	82	0	77	0	0	77	167
07:15 AM	25	Ö	1	Ō	26	0	0	0	Ō	0	1	130	0	Ō	131	Ō	58	2	0	60	217
07:30 AM	9	0	5	0	14	0	0	0	0	0	0	163	0	Ō	163	0	53	1	0	54	231
07:45 AM	10	Ö	3	Ō	13	Ō	Ö	Ō	Ō	0	2	105	Ō	Ö	107	Ō	133	6	Ō	139	259
Total	50	0	11	0	61	0	0	0	0	0	4	479	0	0	483	0	321	9	0	330	874
					_		-			_											-
08:00 AM	9	0	0	0	9	0	0	0	0	0	1	90	0	0	91	0	66	6	0	72	172
08:15 AM	10	0	0	0	10	0	0	0	0	0	1	107	0	0	108	0	71	1	0	72	190
08:30 AM	7	0	3	0	10	0	0	0	0	0	1	95	0	0	96	0	78	4	0	82	188
08:45 AM	5	0	2	0	7	0	0	0	0	0	2	98	0	0	100	0	64	2	0	66	173
Total	31	0	5	0	36	0	0	0	0	0	5	390	0	0	395	0	279	13	0	292	723
09:00 AM	6	0	4	0	10	0	0	0	0	0	0	84	0	0	84	0	57	4	0	61	155
09:15 AM	4	0	2	0	6	0	0	0	0	0	2	69	0	0	71	0	54	1	0	55	132
09:30 AM	5	0	1	0	6	0	0	0	0	0	2	63	0	0	65	0	57	0	0	57	128
09:45 AM	6	0	2	0	8	0	0	0	0	0	3	87	0	0	90	0	55	1	0_	56	154
Total	21	0	9	0	30	0	0	0	0	0	7	303	0	0	310	0	223	6	0	229	569
						1					1										ı
10:00 AM	5	0	1	0	6	0	0	0	0	0	3	82	0	0	85	0	56	1	0	57	148
10:15 AM	4	0	2	0	6	0	0	0	0	0	2	77	0	0	79	0	57	2	0	59	144
10:30 AM	3	0	2	0	5	0	0	0	0	0	3	74	0	0	77	0	57	3	0	60	142
10:45 AM	1	0	1_	0	2	0	0	0	0	0	2	71	0	0	73	0	57	4	0	61	136
Total	13	0	6	0	19	0	0	0	0	0	10	304	0	0	314	0	227	10	0	237	570
11.00 AM	۱ ،	0	2	0	_	0	0	0	0	0	۱ ،	71	0	0	77	۱ ۵	ΕO	4	0	E 4	126
11:00 AM	3	0	2	0	5	_	0	0	0	0	3	74 57	0	0	77 57	0	50	4	0	54 76	136
11:15 AM	2	0	1 3	0	4 5	0	0	0	0	0	0	70	0	0 0	57 70	0	72 59	4 1	0	76 60	137 135
11:30 AM	l .	0	-	-		_	0	0	-	-	_	-	0	-	-	-			-		
11:45 AM	9	<u>0</u>	<u>3</u> 9	0	<u>4</u> 18	0	<u>0</u>	<u>0</u> 0	0 0	0	5	<u>78</u> 279	<u>0</u> 0	0 0	80	0	<u>70</u> 251	<u>2</u> 11	<u>0</u> 0	72 262	156
Total	9	U	9	U	10	0	U	U	U	0) 5	219	U	U	284	0	251	11	U	202	564
12:00 PM	0	0	0	0	0	0	0	0	0	0	3	70	0	0	73	0	73	1	0	74	147
12:15 PM	Ö	Õ	1	Õ	1	0	0	0	0	0	0	72	2	0	74	Ö	64	0	0	64	139
12:30 PM	4	0	1	0	5	0	0	0	0	0	0	70	0	0	70	Ö	68	3	0	71	146
12:45 PM	1	0	2	Ö	3	Ö	0	Ö	Ö	0	3	79	0	0	82	Ö	64	4	0	68	153
Total	5	0	4	0	9	0	0	0	0	0	6	291	2	0	299	0	269	8	0	277	585
		-		-	_		-	-		-								-			
01:00 PM	2	0	1	0	3	0	0	0	0	0	3	65	2	0	70	0	58	2	0	60	133
01:15 PM	2	0	0	0	2	0	0	0	0	0	1	83	0	0	84	0	94	3	0	97	183
01:30 PM	2	0	0	0	2	0	0	0	0	0	1	71	0	0	72	0	70	3	0	73	147
01:45 PM	2	0	6	0	8	0	0	0	0	0	3	81	0	0	84	0	67	6	0	73	165
Total	8	0	7	0	15	0	0	0	0	0	8	300	2	0	310	0	289	14	0	303	628
		_		•	_	ء ا	_	•		_	ء ا	7.0	-	•	- -c	ء ا	0.5	,	•	00	4.46
02:00 PM	5	0	2	0	7	0	0	0	0	0	0	70	0	0	70	0	65	4	0	69	146
02:15 PM	3	0	2	0	5	0	0	0	0	0	1	88	2	0	91	0	82	5	0	87	183
02:30 PM	9	0	1	0	10	0	0	0	0	0	2	111	0	0	113	0	97	3	0	100	223
02:45 PM	6	0	3	0	9	0	0	0	0	0	1	83	0	0	84	0	84	5_	0_	89	182
Total	23	0	8	0	31	0	0	0	0	0	4	352	2	0	358	0	328	17	0	345	734



Akron, OH 44311 Telephone: (330) 572-2100

State Road / Salt Creek Run Intersection

Project Number: 2023050.21 File Name : 4-State and Salt Creek 091423

Project Name: Traffic Study Project Location: Cuyahoga Falls, OH Client Name: City of Cuyahoga Falls Site Code : 71083050 Start Date : 9/14/2023

Page No : 2

					GIU	i equ	111110	cu- r	asse	riigei	ACII	CICS	- 110	JUNG	- Bus	C O					-
	,	Salt (Cree	k Ru	n							Sta	ate R	oad			Sta	ate R	oad		
		Ea	stbo	und			We	stbo	und			No	rthbo	ound			Sou	uthbo	ound		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
03:00 PM	1	0	0	0	1	0	0	0	0	0	4	98	0	0	102	0	106	4	0	110	213
03:15 PM	8	0	2	0	10	0	0	0	0	0	2	122	0	0	124	0	99	6	0	105	239
03:30 PM	4	0	1	0	5	0	0	0	0	0	4	112	0	0	116	0	102	12	0	114	235
03:45 PM	4	0	3	0	7	0	0	0	0	0	1	137	0	0	138	0	100	4	0	104	249
Total	17	0	6	0	23	0	0	0	0	0	11	469	0	0	480	0	407	26	0	433	936
04:00 PM	3	0	1	0	4	0	0	0	0	0	4	113	0	0	117	0	111	8	0	119	240
04:15 PM	7	0	3	0	10	0	0	0	0	0	3	90	0	0	93	0	111	9	0	120	223
04:30 PM	6	0	3	0	9	0	0	0	0	0	8	115	2	0	125	0	127	5	0	132	266
04:45 PM	10	0	5	0	15	0	0	0	0	0	2	116	0	0	118	0	112	9	0	121	254
Total	26	0	12	0	38	0	0	0	0	0	17	434	2	0	453	0	461	31	0	492	983
05:00 PM	3	0	2	0	5	0	0	0	0	0	3	142	0	0	145	0	146	12	0	158	308
05:15 PM	9	0	1	0	10	0	0	0	0	0	1	76	0	0	77	0	131	11	0	142	229
05:30 PM	9	0	1	0	10	0	0	0	0	0	5	101	0	0	106	0	137	10	0	147	263
05:45 PM	5	0	1_	0	6	0	0	0	0	0	2	70	0	0	72	0	104	7	0	111	189
Total	26	0	5	0	31	0	0	0	0	0	11	389	0	0	400	0	518	40	0	558	989
		_	_	_	_		_	_	_	_			_	_				_	_		
06:00 PM	3	0	5	0	8	0	0	0	0	0	3	88	0	0	91	0	79	9	0	88	187
06:15 PM	2	0	4	0	6	0	0	0	0	0	3	87	0	0	90	0	76	4	0	80	176
06:30 PM	5	0	3	0	8	0	0	0	0	0	4	59	0	0	63	0	66	8	0	74	145
06:45 PM	4	0_	2	0_	6	0	0_	0	0	0	4	46	0	0	50	0	74_	5_	0	79	135
Total	14	0	14	0	28	0	0	0	0	0	14	280	0	0	294	0	295	26	0	321	643
,	۱	_		_		۱ ـ	_	_	_	_			_	_					_		
Grand Total	243	0	96	0	339	0	0	0	0	0	102	4270	8	0	4380	0	3868	211	0	4079	8798
Apprch %	71.7	0	28.3	0		0	0	0	0	_	2.3	97.5	0.2	0		0	94.8	5.2	0		
Total %	2.8	0	1.1	0	3.9	0	0	0	0	0	1.2	48.5	0.1	0	49.8	0	44	2.4	0	46.4	0000
Passenger Vehicles	234	0	96	0	330	0	0	0	0	0	100	3968	8	0	4076	0	3599	204	0	3803	8209
% Passenger	96.3	0	100	0	97.3	0	0	0	0	0	98	92.9	100	0	93.1	0	93	96.7	0	93.2	93.3
Trucks	2	0	0	0	2	0	0	0	0	0	1	292	0	0	293	0	262	1	0	263	558
% Trucks	0.8	0	0	0	0.6	0	0	0	0	0	1	6.8	0	0	6.7	0	6.8	0.5	0	6.4	6.3
Buses	7	0	0	0	7	0	0	0	0	0	1	10	0	0	11	0	7	6	0	13	31
% Buses	2.9	0	0	0	2.1	0	0	0	0	0	1	0.2	0	0	0.3	0	0.2	2.8	0	0.3	0.4



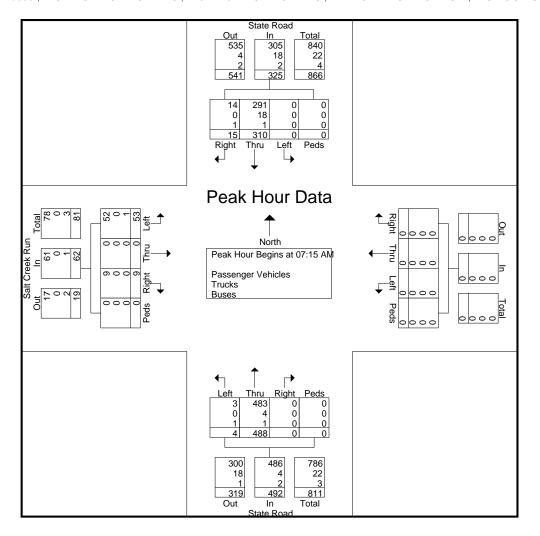
520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Salt Creek Run Intersection

Project Number: 2023050.21 File Name : 4-State and Salt Creek 091423

Project Name: Traffic Study
Project Location: Cuyahoga Falls, OH
Site Code : 71083050
Start Date : 9/14/2023

	;	Salt	Cree	k Ru	n							Sta	ate R	oad			Sta	ate R	oad		
		Ea	stbo	und			We	stbo	und			No	rthbo	und			Sou	uthbo	ound		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	om 07:	15 AN	/I to 08:	00 AN	1 - Pe	ak 1 o	f 1												
Peak Hour t	or En	tire In	tersec	tion B	egins a	t 07:1	5 AM														
07:15 AM	25	0	1	0	26	0	0	0	0	0	1	130	0	0	131	0	58	2	0	60	217
07:30 AM	9	0	5	0	14	0	0	0	0	0	0	163	0	0	163	0	53	1	0	54	231
07:45 AM	10	0	3	0	13	0	0	0	0	0	2	105	0	0	107	0	133	6	0	139	259
08:00 AM	9	0	0	0	9	0	0	0	0	0	1	90	0	0	91	0	66	6	0	72	172
Total Volume	53	0	9	0	62	0	0	0	0	0	4	488	0	0	492	0	310	15	0	325	879
% App. Total	85.5	0	14.5	0		0	0	0	0		0.8	99.2	0	0		0	95.4	4.6	0		
PHF	.530	.000	.450	.000	.596	.000	.000	.000	.000	.000	.500	.748	.000	.000	.755	.000	.583	.625	.000	.585	.848
Passenger Vehicles	52	0	9	0	61	0	0	0	0	0	3	483	0	0	486	0	291	14	0	305	852
% Passenger Vehicles	98.1	0	100	0	98.4	0	0	0	0	0	75.0	99.0	0	0	98.8	0	93.9	93.3	0	93.8	96.9
Trucks	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	18	0	0	18	22
% Trucks	0	0	0	0	0	0	0	0	0	0	0	8.0	0	0	8.0	0	5.8	0	0	5.5	2.5
Buses	1	0	0	0	1	0	0	0	0	0	1	1	0	0	2	0	1	1	0	2	5
% Buses	1.9	0	0	0	1.6	0	0	0	0	0	25.0	0.2	0	0	0.4	0	0.3	6.7	0	0.6	0.6





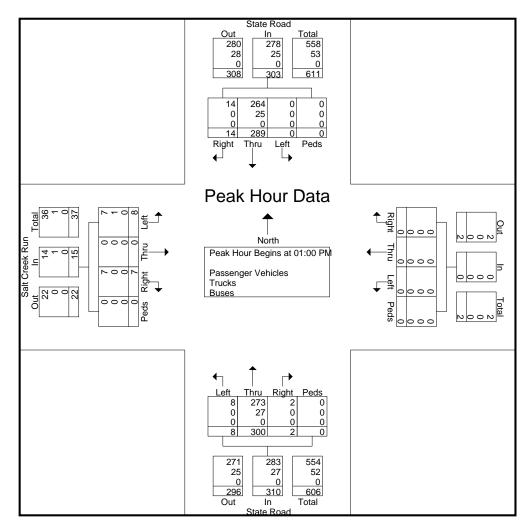
520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Salt Creek Run Intersection

Project Number: 2023050.21 File Name : 4-State and Salt Creek 091423

Project Name: Traffic Study
Project Location: Cuyahoga Falls, OH
Site Code : 71083050
Start Date : 9/14/2023

		Salt	Cree	k Ru	n							Sta	ate R	oad			Sta	ate R	oad		
		Ea	stbo	und			We	stbo	und			No	rthbo	ound			Sou	uthbo	ound		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	m 10:	00 AN	/I to 01:	45 PN	1 - Pe	ak 1 o	f 1												
Peak Hour	for Ent	tire In	tersec	tion B	egins a	t 01:0	0 PM														
01:00 PM	2	0	1	0	3	0	0	0	0	0	3	65	2	0	70	0	58	2	0	60	133
01:15 PM	2	0	0	0	2	0	0	0	0	0	1	83	0	0	84	0	94	3	0	97	183
01:30 PM	2	0	0	0	2	0	0	0	0	0	1	71	0	0	72	0	70	3	0	73	147
01:45 PM	2	0	6	0	8	0	0	0	0	0	3	81	0	0	84	0	67	6	0	73	165
Total Volume	8	0	7	0	15	0	0	0	0	0	8	300	2	0	310	0	289	14	0	303	628
_ % App. Total	53.3	0	46.7	0		0	0	0	0		2.6	96.8	0.6	0		0	95.4	4.6	0		
PHF	1.0	.000	.292	.000	.469	.000	.000	.000	.000	.000	.667	.904	.250	.000	.923	.000	.769	.583	.000	.781	.858
Passenger Vehicles	7	0	7	0	14	0	0	0	0	0	8	273	2	0	283	0	264	14	0	278	575
% Passenger Vehicles	87.5	0	100	0	93.3	0	0	0	0	0	100	91.0	100	0	91.3	0	91.3	100	0	91.7	91.6
Trucks	1	0	0	0	1	0	0	0	0	0	0	27	0	0	27	0	25	0	0	25	53
% Trucks	12.5	0	0	0	6.7	0	0	0	0	0	0	9.0	0	0	8.7	0	8.7	0	0	8.3	8.4
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0





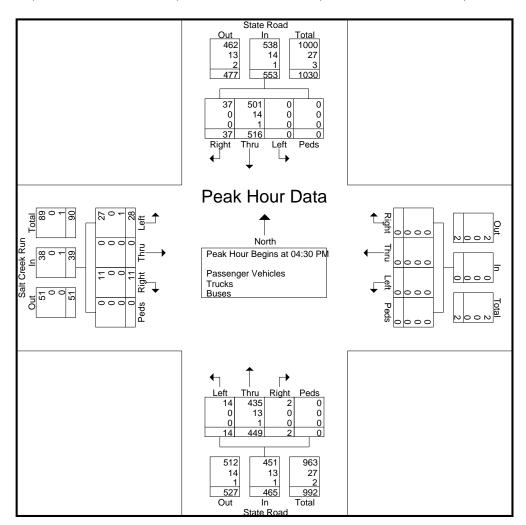
520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Salt Creek Run Intersection

Project Number: 2023050.21 File Name : 4-State and Salt Creek 091423

Project Name: Traffic Study
Project Location: Cuyahoga Falls, OH
Site Code : 71083050
Start Date : 9/14/2023

	;	Salt	Cree	k Ru	n							Sta	ate R	oad			Sta	ate R	oad		
		Ea	stbo	und			We	stbo	und			No	rthbo	ound			Sou	uthbo	ound		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	om 04:	:30 PN	/I to 05:	15 PN	1 - Pe	ak 1 o	f 1												
Peak Hour f	or En	tire In	tersec	tion B	egins a	t 04:3	0 PM														
04:30 PM	6	0	3	0	9	0	0	0	0	0	8	115	2	0	125	0	127	5	0	132	266
04:45 PM	10	0	5	0	15	0	0	0	0	0	2	116	0	0	118	0	112	9	0	121	254
05:00 PM	3	0	2	0	5	0	0	0	0	0	3	142	0	0	145	0	146	12	0	158	308
05:15 PM	9	0	1_	0	10	0	0	0	0	0	1	76	0	0	77	0	131	11_	0	142	229
Total Volume	28	0	11	0	39	0	0	0	0	0	14	449	2	0	465	0	516	37	0	553	1057
% App. Total	71.8	0	28.2	0		0	0	0	0		3	96.6	0.4	0		0	93.3	6.7	0		
PHF	.700	.000	.550	.000	.650	.000	.000	.000	.000	.000	.438	.790	.250	.000	.802	.000	.884	.771	.000	.875	.858
Passenger Vehicles	27	0	11	0	38	0	0	0	0	0	14	435	2	0	451	0	501	37	0	538	1027
% Passenger Vehicles	96.4	0	100	0	97.4	0	0	0	0	0	100	96.9	100	0	97.0	0	97.1	100	0	97.3	97.2
Trucks	0	0	0	0	0	0	0	0	0	0	0	13	0	0	13	0	14	0	0	14	27
% Trucks	0	0	0	0	0	0	0	0	0	0	0	2.9	0	0	2.8	0	2.7	0	0	2.5	2.6
Buses	1	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	3
% Buses	3.6	0	0	0	2.6	0	0	0	0	0	0	0.2	0	0	0.2	0	0.2	0	0	0.2	0.3





520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Woodridge Schools North Drive Intersection

Project Number: 2023050.21 File Name : 5-State and Woodridge North 091323

Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 69073050

Start Date : 9/13/2023

Client Name: City of Cuyahoga Falls Page No : 1

	147			0-:		ıps ı	11110	cu- i	asst	enger	v CIII	CICS	- 110	icks	- Dus	-					l
	W	No	idge rth D istbo		ools			ate l	Drive ound	•			ate R					ate R uthbo			
O T	1 -64		1			1 -44	T 1				1 -44	T 1				1 -64	T1				
Start Time 07:00 AM	Left 4	Thru 0	Right 2	Peds 0	App. Total	Left 0	Thru 0	Right 0	Peds 0	App. Total	Left 0	Thru 90	Right 0	Peds 0	App. Total	Left 0	Thru 46	Right 14	Peds 0	App. Total	Int. Total
07:00 AW 07:15 AM	10	0	2	0	12	0	0	0	0	0	0	100	0	0	100	0	46 57	11	0	68	180
07:15 AW 07:30 AM	3	0	0	0	3	0	0	0	0	0	1	129	0	0	130	0	65	6	0	71	204
07:30 AW 07:45 AM	1	0	0	0	ა 1	0	0	0	0	0	4	117	0	0	121	0	82	4	0	86	204
	18	0	4	0	22	0	0	0	0	0	5	436	0	0	441	0	250	35	0	285	
Total	10	U	4	U	22	U	U	U	U	U	5	430	U	U	44 1	0	250	33	U	200	748
08:00 AM	1	0	0	0	1	0	0	0	0	0	6	114	0	0	120	0	62	2	0	64	185
08:15 AM	2	0	0	0	2	0	0	0	0	0	19	99	0	0	118	0	68	6	0	74	194
08:30 AM	0	0	0	0	0	0	0	0	0	0	34	98	0	0	132	0	80	9	0	89	221
08:45 AM	1	0	1	0	2	0	0	0	0	0	6	112	0	0	118	0	61	1	0	62	182
Total	4	0	-	0	5	0	0	0	0	0	65	423	0	0	488	0	271	18	0	289	782
i Otai	4	U		U	5	U	U	U	U	U	03	423	U	U	400	0	211	10	U	209	102
09:00 AM	0	0	0	0	0	0	0	0	0	0	0	75	0	0	75	0	62	0	0	62	137
09:00 AM	0	0	0	0	0	0	0	0	0	0	0	72	0	0	72	0	68	2	0	70	142
09:30 AM	0	0	0	0	0	0	0	0	0	0	0	66	0	0	66	0	59	0	0	59	125
09:45 AM	0	0	0	0	0	0	0	0	0	0	0	66	0	0	66	0	61	0	0	61	123
Total	0	0	0	0	0	0	0	0	0	0	0	279	0	0	279	0	250	2	0	252	531
Total	0	U	U	U	0	U	U	U	U	U	U	219	U	U	219	0	250	2	U	232	551
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	69	0	0	69	0	63	0	0	63	132
10:15 AM	0	0	0	Õ	0	0	0	0	0	0	0	73	0	0	73	0	66	0	0	66	139
10:30 AM	0	0	0	Ö	0	0	0	0	0	0	0	75	0	0	75	0	67	0	0	67	142
10:45 AM	0	0	0	Ö	Ö	0	0	0	0	Ö	0	79	0	0	79	0	70	0	0	70	149
Total	0	0	0	0	0	0	0	0	0	0	0	296	0	0	296	0	266	0	0	266	562
				-						-	-										
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	84	0	0	84	0	71	0	0	71	155
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	67	0	0	67	0	77	0	0	77	144
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	74	0	0	74	0	75	0	0	75	149
11:45 AM	1	0	0	0	1	0	0	0	0	0	0	65	0	0	65	0	64	2	0	66	132
Total	1	0	0	0	1	0	0	0	0	0	0	290	0	0	290	0	287	2	0	289	580
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	69	0	0	69	0	81	0	0	81	150
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	81	0	0	81	0	60	1	0	61	142
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	65	0	0	65	0	62	0	0	62	127
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	60	0	0	60	0	61	0	0	61	121
Total	0	0	0	0	0	0	0	0	0	0	0	275	0	0	275	0	264	1	0	265	540
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	65	0	0	65	0	64	0	0	64	129
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	72	0	0	72	0	69	0	0	69	141
01:30 PM	0	0	0	0	0	0	0	0	0	0	0	81	0	2	83	0	73	0	0	73	156
_01:45 PM	0	0	0	0	0	0	0	0	0	0	1	89	0	0	90	0	77	0	0	77	167
Total	0	0	0	0	0	0	0	0	0	0	1	307	0	2	310	0	283	0	0	283	593
	ء ا	_	_	_	اہ		_	_	_	اہ	_		_	_		ء ا		_	_		
02:00 PM	0	0	0	0	0	0	0	0	0	0	2	77	0	0	79	0	79	0	0	79	158
02:15 PM	1	0	0	0	1	0	0	0	0	0	7	90	0	0	97	0	82	0	0	82	180
02:30 PM	8	0	6	0	14	0	0	0	0	0	9	89	0	0	98	0	78	1	0	79	191



520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Woodridge Schools North Drive Intersection

File Name : 5-State and Woodridge North 091323

Project Number: 2023050.21 Project Name: Traffic Study Project Location: Cuyahoga Falls, OH Client Name: City of Cuyahoga Falls Site Code : 69073050 Start Date : 9/13/2023

Page No : 2

					Grou	ups F	rinte	ed- P	asse	enger	Vehi	cles	- Tru	ıcks	- Bus	es					,
	Wo	No	idge rth C stbo		ools			ate I stbo	Orive und	•			ate R					ate R uthbo		l	
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
02:45 PM	1	0	0	0	1	0	0	0	0	0	5	80	0	0	85	0	79	3	0	82	168
Total	10	0	6	0	16	0	0	0	0	0	23	336	0	0	359	0	318	4	0	322	697
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	86	0	0	86	0	82	3	0	85	171
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	93	0	0	93	0	86	2	0	88	181
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	100	0	0	100	0	91	1	0	92	192
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	109	0	0	109	0	93	3	0	96	205
Total	0	0	0	0	0	0	0	0	0	0	0	388	0	0	388	0	352	9	0	361	749
04:00 PM	6	0	1	0	7	0	0	0	0	0	0	115	0	0	115	0	95	5	0	100	222
04:15 PM	2	0	1	0	3	0	0	0	0	0	0	75	0	0	75	0	100	1	0	101	179
04:30 PM	9	0	2	0	11	0	0	0	0	0	0	114	0	0	114	0	104	3	0	107	232
04:45 PM	4	0	0	0	4	0	0	0	0	0	0	89	0	0	89	0	98	3	0	101	194
Total	21	0	4	0	25	0	0	0	0	0	0	393	0	0	393	0	397	12	0	409	827
05:00 PM	3	0	0	0	3	0	0	0	0	0	0	110	0	0	110	0	109	3	0	112	225
05:15 PM	1	0	0	0	1	0	0	0	0	0	0	99	0	0	99	0	122	8	0	130	230
05:30 PM	2	0	0	0	2	0	0	0	0	0	0	86	0	0	86	0	140	5	0	145	233
05:45 PM	4	0	0	0	4	0	0	0	0	0	0	64	0	0	64	0	86	2	0	88	156
Total	10	0	0	0	10	0	0	0	0	0	0	359	0	0	359	0	457	18	0	475	844
06:00 PM	4	0	0	0	4	0	0	0	0	0	0	81	0	0	81	0	111	2	0	113	198
06:15 PM	0	0	0	0	0	0	0	0	0	0	0	61	0	0	61	0	108	4	0	112	173
06:30 PM	2	0	0	0	2	0	0	0	0	0	1	51	0	0	52	0	114	7	0	121	175
06:45 PM	0	0	1	0	1	0	0	0	0	0	1	44	0	0	45	0	102	1	0	103	149
Total	6	0	1	0	7	0	0	0	0	0	2	237	0	0	239	0	435	14	0	449	695
Grand Total	70	0	16	0	86	0	0	0	0	0	96	4019	0	2	4117	0	3830	115	0	3945	8148
Apprch %	81.4	0	18.6	0		0	0	0	0		2.3	97.6	0	0		0	97.1	2.9	0		
Total %	0.9	0	0.2	0	1.1	0	0	0	0	0	1.2	49.3	0	0	50.5	0	47	1.4	0	48.4	
Passenger Vehicles	64	0	13	0	77	0	0	0	0	0	96	3799	0	2	3897	0	3647	112	0	3759	7733
% Passenger	91.4	0	81.2	0	89.5	0	0	0	0	0	100	94.5	0	100	94.7	0	95.2	97.4	0	95.3	94.9
Trucks	1	0	0	0	1	0	0	0	0	0	0	218	0	0	218	0	181	1	0	182	401
% Trucks	1.4	0	Ö	0	1.2	ő	0	0	0	0	0	5.4	0	0	5.3	ő	4.7	0.9	0	4.6	4.9
Buses	5	0	3	0	8	0	0	0	0	0	0	2	0	0	2	0	2	2	0	4	14
% Buses	7.1	0	18.8	0	9.3	0	0	0	0	0	ő	0	0	0	0	0	0.1	1.7	0	0.1	0.2
/0 D0000	, ,	J	10.0	J	0.0	, ,	J	J	J	J	, ,	J	J	J	J	, ,	0.1		J	0.1	0.2



520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Woodridge Schools North Drive Intersection

Project Number: 2023050.21 File Name : 5-State and Woodridge North 091323

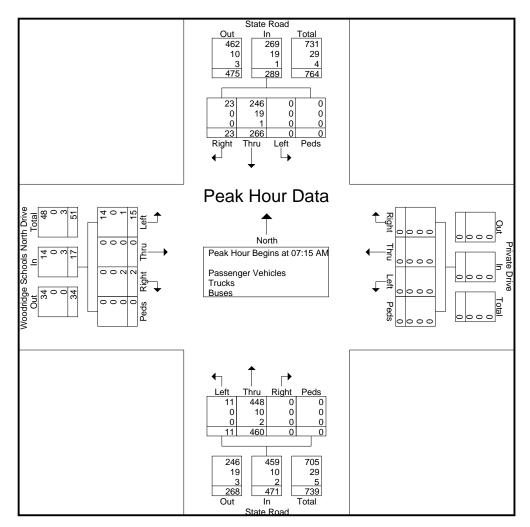
Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 69073050

Start Date : 9/13/2023

	Wo	No	dge rth D stbo		ools			ate I stbo)			ate R thbo					ate R uthbo			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	om 07	:15 AN	∕l to 08	:00 AN	/I - Pe	ak 1 o	f 1												
Peak Hour	for En	tire In	tersec	tion B	egins a	t 07:1	5 AM														
07:15 AM	10	0	2	0	12	0	0	0	0	0	0	100	0	0	100	0	57	11	0	68	180
07:30 AM	3	0	0	0	3	0	0	0	0	0	1	129	0	0	130	0	65	6	0	71	204
07:45 AM	1	0	0	0	1	0	0	0	0	0	4	117	0	0	121	0	82	4	0	86	208
08:00 AM	1	0	0	0	1	0	0	0	0	0	6	114	0	0	120	0	62	2	0	64	185
Total Volume	15	0	2	0	17	0	0	0	0	0	11	460	0	0	471	0	266	23	0	289	777
% App. Total	88.2	0	11.8	0		0	0	0	0		2.3	97.7	0	0		0	92	8	0		
PHF	.375	.000	.250	.000	.354	.000	.000	.000	.000	.000	.458	.891	.000	.000	.906	.000	.811	.523	.000	.840	.934
Passenger Vehicles	14	0	0	0	14	0	0	0	0	0	11	448	0	0	459	0	246	23	0	269	742
% Passenger Vehicles	93.3	0	0	0	82.4	0	0	0	0	0	100	97.4	0	0	97.5	0	92.5	100	0	93.1	95.5
Trucks	0	0	0	0	0	0	0	0	0	0	0	10	0	0	10	0	19	0	0	19	29
% Trucks	0	0	0	0	0	0	0	0	0	0	0	2.2	0	0	2.1	0	7.1	0	0	6.6	3.7
Buses	1	0	2	0	3	0	0	0	0	0	0	2	0	0	2	0	1	0	0	1	6
% Buses	6.7	0	100	0	17.6	0	0	0	0	0	0	0.4	0	0	0.4	0	0.4	0	0	0.3	0.8





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State Road / Woodridge Schools North Drive Intersection

Project Number: 2023050.21 File Name : 5-State and Woodridge North 091323

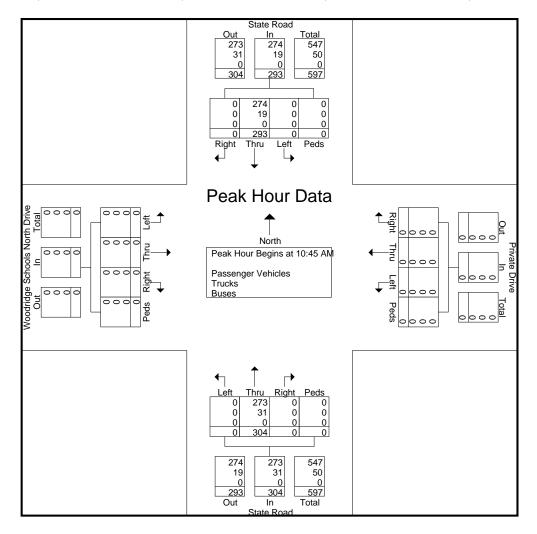
Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 69073050

Start Date : 9/13/2023

	Wo		dge rth D stbo	rive	ools			ate I stbo	Drive ound	•			ate R rthbo					ate R uthbo		1	
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	m 10:	:00 AN	/I to 01:	:45 PN	/I - Pe	ak 1 o	f 1												
Peak Hour	for En	tire Int	tersec	tion B	egins a	t 10:4	5 AM														
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	79	0	0	79	0	70	0	0	70	149
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	84	0	0	84	0	71	0	0	71	155
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	67	0	0	67	0	77	0	0	77	144
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	74	0	0	74	0	75	0	0	75	149
Total Volume	0	0	0	0	0	0	0	0	0	0	0	304	0	0	304	0	293	0	0	293	597
% App. Total	0	0	0	0		0	0	0	0		0	100	0	0		0	100	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.905	.000	.000	.905	.000	.951	.000	.000	.951	.963
Passenger Vehicles	0	0	0	0	0	0	0	0	0	0	0	273	0	0	273	0	274	0	0	274	547
% Passenger Vehicles	0	0	0	0	0	0	0	0	0	0	0	89.8	0	0	89.8	0	93.5	0	0	93.5	91.6
Trucks	0	0	0	0	0	0	0	0	0	0	0	31	0	0	31	0	19	0	0	19	50
% Trucks	0	0	0	0	0	0	0	0	0	0	0	10.2	0	0	10.2	0	6.5	0	0	6.5	8.4
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0





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State Road / Woodridge Schools North Drive Intersection

Project Number: 2023050.21 File Name : 5-State and Woodridge North 091323

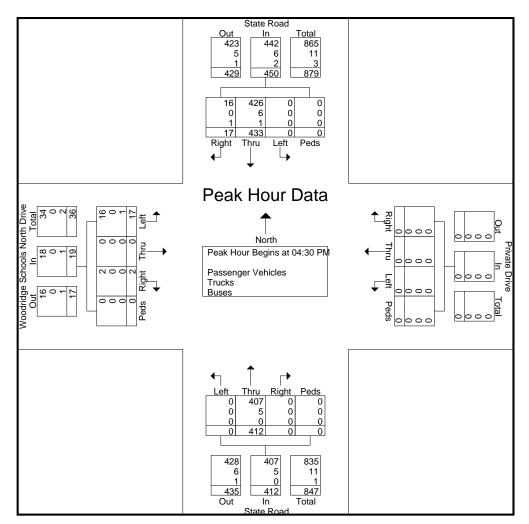
Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 69073050

Start Date : 9/13/2023

	Woodridge Schools North Drive Eastbound						Private Drive Westbound						ate R								
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	m 04:	:30 PN	/I to 05:	15 PN	/I - Pe	ak 1 o	f 1												
Peak Hour for Entire Intersection Begins at 04:30 PM																					
04:30 PM	9	0	2	0	11	0	0	0	0	0	0	114	0	0	114	0	104	3	0	107	232
04:45 PM	4	0	0	0	4	0	0	0	0	0	0	89	0	0	89	0	98	3	0	101	194
05:00 PM	3	0	0	0	3	0	0	0	0	0	0	110	0	0	110	0	109	3	0	112	225
05:15 PM	1	0	0	0	1	0	0	0	0	0	0	99	0	0	99	0	122	8	0	130	230
Total Volume	17	0	2	0	19	0	0	0	0	0	0	412	0	0	412	0	433	17	0	450	881
% App. Total	89.5	0	10.5	0		0	0	0	0		0	100	0	0		0	96.2	3.8	0		
PHF	.472	.000	.250	.000	.432	.000	.000	.000	.000	.000	.000	.904	.000	.000	.904	.000	.887	.531	.000	.865	.949
Passenger Vehicles	16	0	2	0	18	0	0	0	0	0	0	407	0	0	407	0	426	16	0	442	867
% Passenger Vehicles	94.1	0	100	0	94.7	0	0	0	0	0	0	98.8	0	0	98.8	0	98.4	94.1	0	98.2	98.4
Trucks	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0	6	0	0	6	11
% Trucks	0	0	0	0	0	0	0	0	0	0	0	1.2	0	0	1.2	0	1.4	0	0	1.3	1.2
Buses	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	3
% Buses	5.9	0	0	0	5.3	0	0	0	0	0	0	0	0	0	0	0	0.2	5.9	0	0.4	0.3





Akron, OH 44311 Telephone: (330) 572-2100

State Road / Woodridge Schools South Drive Intersection

Project Number: 2023050.21 File Name : 6-State and Woodridge South 091323

Project Name: Traffic Study Project Location: Cuyahoga Falls, OH Client Name: City of Cuyahoga Falls Site Code : 71063050 Start Date : 9/13/2023

Page No : 1

Groups Printed- Passenger Vehicles - Trucks - Buses Woodridge Schools Out - Bank - Out - Bank														ı							
	Wo	Sou	dge uth C stbo	rive	ools	Westbound							ate R								
							I										_				
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
07:00 AM 07:15 AM	1 1	0	1	0	2 1	0	0	0	0	0	3	91 94	0	0	94 94	0	47 59	1 1	0 0	48 60	144 155
07.15 AW 07:30 AM	0	0	2	0	2	0	0	0	0	0	7	129	0	0	136	0	64	1	0	65	203
07:30 AM 07:45 AM	0	0	0	0	0	0	0	0	0	0	5	119	0	0	124	0	78	3	0	81	203
Total	2	0	3	0	5	0	0	0	0	0	15	433	0	0	448	0	248	<u></u>	0	254	707
Total		U	3	U	5	0	U	U	U	U	13	433	U	U	440	0	240	U	U	254	707
08:00 AM	0	0	0	0	0	0	0	0	0	0	1	118	0	0	119	0	63	0	0	63	182
08:15 AM	0	0	6	0	6	Ö	0	0	0	0	1	124	0	0	125	0	67	1	0	68	199
08:30 AM	10	0	102	0	112	ő	0	0	0	0	Ö	126	0	0	126	0	77	Ö	0	77	315
08:45 AM	1	0	28	0	29	0	0	1	0	1	Ö	121	0	0	121	0	62	0	0	62	213
Total	11	0	136	0	147	0	0		0	1	2	489	0	0	491	0	269	1	0	270	909
rotar		Ū	.00	Ŭ			·	•	·	•	_	100	·	Ū	101		_00	•	Ŭ	_, _	000
09:00 AM	3	0	0	0	3	0	0	0	0	0	0	70	0	0	70	0	65	2	0	67	140
09:15 AM	Ō	Ö	Ō	Ö	Ō	Ō	Ō	Ō	Ō	0	Ō	75	Ö	Ō	75	Ō	67	0	Ö	67	142
09:30 AM	0	0	0	0	0	1	0	0	0	1	0	63	0	0	63	0	56	0	0	56	120
09:45 AM	0	0	0	0	0	0	0	0	0	0	1	64	0	0	65	0	62	0	0	62	127
Total	3	0	0	0	3	1	0	0	0	1	1	272	0	0	273	0	250	2	0	252	529
																				,	
10:00 AM	1	0	0	0	1	0	0	0	0	0	0	75	0	0	75	0	52	0	0	52	128
10:15 AM	0	0	0	0	0	0	0	0	0	0	1	53	0	0	54	0	57	0	0	57	111
10:30 AM	0	0	0	0	0	0	0	0	0	0	2	70	0	0	72	0	41	1	0	42	114
10:45 AM	0	0	1_	0	1	0	0	0	0	0	0	65	0	0	65	0	65	0	0	65	131
Total	1	0	1	0	2	0	0	0	0	0	3	263	0	0	266	0	215	1	0	216	484
		_	_	_	_		_	_	_	_	ı _		_	_				_	_	1	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	91	0	0	91	0	70	0	0	70	161
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	67	0	0	67	0	76	0	0	76	143
11:30 AM	0	0	1	0	1	0	0	0	0	0	0	75	0	0	75	0	69	1	0	70	146
11:45 AM	0	0	2	0	2	0	0	0	0	0	0	61	0	0	61	0	66	0	0_	66	129
Total	0	0	3	0	3	0	0	0	0	0	0	294	0	0	294	0	281	1	0	282	579
12:00 PM	0	0		0	1	0	0	0	0	0		64	0	0	C 4	lo	0.5	^	0	85	150
12:00 PM	0	0	1	0	3	0	0	0	0	0	0	80	0	0	64 81	0	85 58	0	0	59	143
12.15 PM	0	0	ა 1	0	3 1	0	0	0	0	0	0	64	0	0	64	0	61	2	0	63	128
12:30 PM	1	0	2	0	3	0	0	0	0	0	0	71	0	0	71	0	65	0	0	65	139
Total	1	0	<u></u> 7	0	8	0	0	0	0	0	1	279	0	0	280	0	269	3	0	272	560
Total		U	,	U	0	0	U	U	U	U		219	U	U	200	0	209	3	U	212	300
01:00 PM	0	0	3	0	3	0	0	0	0	0	0	63	0	0	63	0	62	0	0	62	128
01:00 FM	0	0	0	0	0	0	0	0	0	0	Ö	72	0	0	72	0	73	0	0	73	145
01:30 PM	0	0	2	2	4	0	0	0	0	0	0	79	0	0	79	0	75	Ö	0	75	158
01:45 PM	1	0	2	0	3	ő	0	0	0	0	Ö	82	0	0	82	0	79	2	0	81	166
Total	1	0	7	2	10	0	0	0	0	0	0	296	0	0	296	0	289		0	291	597
. 2.3.		-	-	_			-	-	-	-			-	-				_	-		
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	75	0	0	75	0	83	0	0	83	158
02:15 PM	1	0	1	0	2	0	0	0	0	0	0	97	0	0	97	0	87	0	0	87	186
02:30 PM	2	0	3	0	5	0	0	0	0	0	0	96	0	0	96	0	87	1	0	88	189



520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Woodridge Schools South Drive Intersection

Project Number: 2023050.21 File Name : 6-State and Woodridge South 091323

Project Name: Traffic Study
Project Location: Cuyahoga Falls, OH
Client Name: City of Cuyahoga Falls Site Code : 71063050 Start Date : 9/13/2023

Page No : 2

	Groups Printed- Passenger Veh													Vehicles - Trucks - Buses										
	Wo	So	_	Scho Orive und	ools	Westbound						State Road Northbound					State Road Southbound							
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total			
02:45 PM	0	0	4	0	4	0	0	0	0	0	0	86	0	0	86	0	80	0	0	80	170			
Total	3	0	8	0	11	0	0	0	0	0	0	354	0	0	354	0	337	1	0	338	703			
03:00 PM	6	0	8	0	14	0	0	0	0	0	0	89	0	0	89	0	84	0	0	84	187			
03:15 PM	9	0	87	0	96	0	0	0	0	0	0	99	0	0	99	0	96	0	0	96	291			
03:30 PM	15	0	38	0	53	0	0	0	0	0	0	109	0	0	109	0	93	0	0	93	255			
03:45 PM	1	0	13	0	14	0	0	0	0	0	0	91	0	0	91	0	111	6	0	117	222			
Total	31	0	146	0	177	0	0	0	0	0	0	388	0	0	388	0	384	6	0	390	955			
04:00 PM	0	0	7	0	7	0	0	0	0	0	0	104	0	0	104	0	93	2	0	95	206			
04:15 PM	1	0	1	0	2	0	0	0	0	0	0	73	0	0	73	0	104	0	0	104	179			
04:30 PM	0	0	8	0	8	0	0	0	0	0	1	112	0	0	113	0	110	0	0	110	231			
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	86	0	0	86	0	101	0	0	101	187			
Total	1	0	16	0	17	0	0	0	0	0	1	375	0	0	376	0	408	2	0	410	803			
05:00 PM	0	0	2	0	2	0	0	0	0	0	0	108	0	0	108	0	108	0	0	108	218			
05:15 PM	Ö	Ō	1	Ö	1	Ō	Ō	Ō	Ō	0	0	96	0	Ō	96	Ō	139	Ō	Ō	139	236			
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	89	0	0	89	0	139	0	0	139	228			
05:45 PM	1	0	8	0	9	0	0	0	0	0	1	71	0	0	72	0	96	2	0	98	179			
Total	1	0	11	0	12	0	0	0	0	0	1	364	0	0	365	0	482	2	0	484	861			
06:00 PM	1	0	1	0	2	0	0	0	0	0	0	79	0	0	79	0	113	1	0	114	195			
06:15 PM	o	0	1	0	1	0	0	0	0	0	2	56	0	0	58	0	108	0	0	108	167			
06:30 PM	0	0	0	0	0	0	0	0	0	0	0	46	0	0	46	0	110	1	0	111	157			
06:45 PM	0	0	0	0	0	0	0	0	0	0	1	43	0	0	44	0	103	1	0	104	148			
Total	1	0	2	0	3	0	0	0	0	0	3	224	0	0	227	0	434	3	0	437	667			
Grand Total	56	0	340	2	398	1	0	1	0	2	27	4031	0	0	4058	0	3866	30	0	3896	8354			
Apprch %	14.1	0	85.4	0.5		50	0	50	0		0.7	99.3	0	0		0	99.2	0.8	0					
Total %	0.7	0	4.1	0	4.8	0	0	0	0	0	0.3	48.3	0	0	48.6	0	46.3	0.4	0	46.6				
Passenger Vehicles	56	0	338	2	396	1	0	1	0	2	27	3790	0	0	3817	0	3643	29	0	3672	7887			
% Passenger Vehicles	100	0	99.4	100	99.5	100	0	100	0	100	100	94	0	0	94.1	0	94.2	96.7	0	94.3	94.4			
Trucks	0	0	0	0	0	0	0	0	0	0	0	233	0	0	233	0	211	1	0	212	445			
% Trucks	0	0	0	0	0	0	0	0	0	0	0	5.8	0	0	5.7	0	5.5	3.3	0	5.4	5.3			
Buses	0	0	2	0	2	0	0	0	0	0	0	8	0	0	8	0	12	0	0	12	22			
% Buses	0	0	0.6	0	0.5	0	0	0	0	0	0	0.2	0	0	0.2	0	0.3	0	0	0.3	0.3			



520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Woodridge Schools South Drive Intersection

Project Number: 2023050.21 File Name : 6-State and Woodridge South 091323

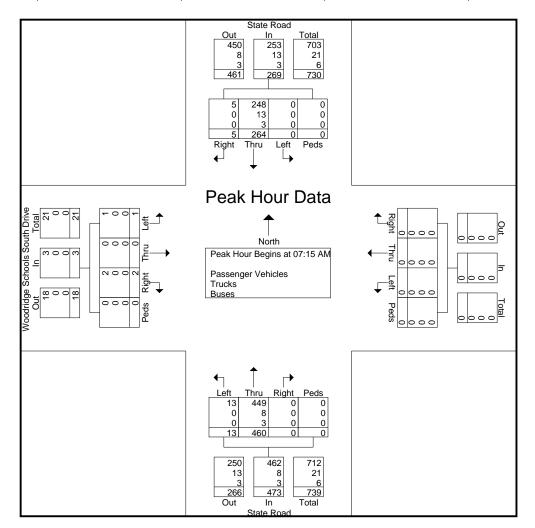
Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 71063050

Start Date : 9/13/2023

	Woodridge Schools South Drive Eastbound						Westbound						ate R	oad ound							
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	om 07:	:15 AN	/I to 08:	:00 AN	/I - Pe	ak 1 o	f 1												
Peak Hour for Entire Intersection Begins at 07:15 AM																					
07:15 AM	1	0	0	0	1	0	0	0	0	0	0	94	0	0	94	0	59	1	0	60	155
07:30 AM	0	0	2	0	2	0	0	0	0	0	7	129	0	0	136	0	64	1	0	65	203
07:45 AM	0	0	0	0	0	0	0	0	0	0	5	119	0	0	124	0	78	3	0	81	205
08:00 AM	0	0	0	0	0	0	0	0	0	0	1	118	0	0	119	0	63	0	0	63	182
Total Volume	1	0	2	0	3	0	0	0	0	0	13	460	0	0	473	0	264	5	0	269	745
% App. Total	33.3	0	66.7	0		0	0	0	0		2.7	97.3	0	0		0	98.1	1.9	0		
PHF	.250	.000	.250	.000	.375	.000	.000	.000	.000	.000	.464	.891	.000	.000	.869	.000	.846	.417	.000	.830	.909
Passenger Vehicles	1	0	2	0	3	0	0	0	0	0	13	449	0	0	462	0	248	5	0	253	718
% Passenger Vehicles	100	0	100	0	100	0	0	0	0	0	100	97.6	0	0	97.7	0	93.9	100	0	94.1	96.4
Trucks	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	0	13	0	0	13	21
% Trucks	0	0	0	0	0	0	0	0	0	0	0	1.7	0	0	1.7	0	4.9	0	0	4.8	2.8
Buses	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	3	0	0	3	6
% Buses	0	0	0	0	0	0	0	0	0	0	0	0.7	0	0	0.6	0	1.1	0	0	1.1	0.8





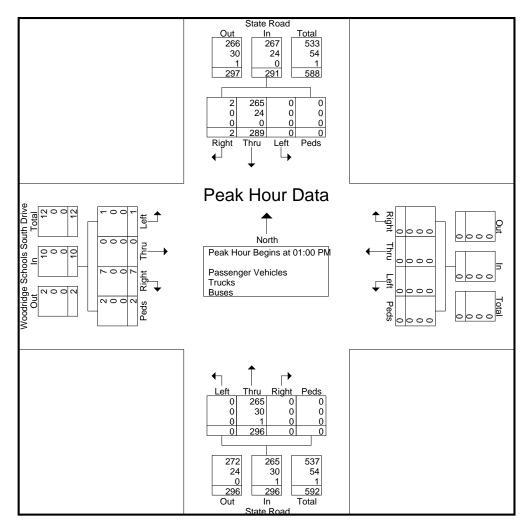
520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Woodridge Schools South Drive Intersection

Project Number: 2023050.21 File Name : 6-State and Woodridge South 091323

Project Name: Traffic Study Site Code : 71063050 Project Location: Cuyahoga Falls, OH Start Date : 9/13/2023

	Woodridge Schools South Drive Eastbound						Westbound					State Road Northbound						State Road Southbound					
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total		
Peak Hour	Analys	sis Fro	om 10	:00 AN	∕I to 01:	45 PN	/ - Pe	ak 1 o	f 1														
Peak Hour	for En	tire In	tersec	tion B	egins a	t 01:0	0 PM																
01:00 PM	0	0	3	0	3	0	0	0	0	0	0	63	0	0	63	0	62	0	0	62	128		
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	72	0	0	72	0	73	0	0	73	145		
01:30 PM	0	0	2	2	4	0	0	0	0	0	0	79	0	0	79	0	75	0	0	75	158		
01:45 PM	1	0	2	0	3	0	0	0	0	0	0	82	0	0	82	0	79	2	0	81	166		
Total Volume	1	0	7	2	10	0	0	0	0	0	0	296	0	0	296	0	289	2	0	291	597		
% App. Total	10	0	70	20		0	0	0	0		0	100	0	0		0	99.3	0.7	0		İ		
PHF	.250	.000	.583	.250	.625	.000	.000	.000	.000	.000	.000	.902	.000	.000	.902	.000	.915	.250	.000	.898	.899		
Passenger Vehicles	1	0	7	2	10	0	0	0	0	0	0	265	0	0	265	0	265	2	0	267	542		
% Passenger Vehicles	100	0	100	100	100	0	0	0	0	0	0	89.5	0	0	89.5	0	91.7	100	0	91.8	90.8		
Trucks	0	0	0	0	0	0	0	0	0	0	0	30	0	0	30	0	24	0	0	24	54		
% Trucks	0	0	0	0	0	0	0	0	0	0	0	10.1	0	0	10.1	0	8.3	0	0	8.2	9.0		
Buses	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1		
% Buses	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0.3	0	0	0	0	0	0.2		





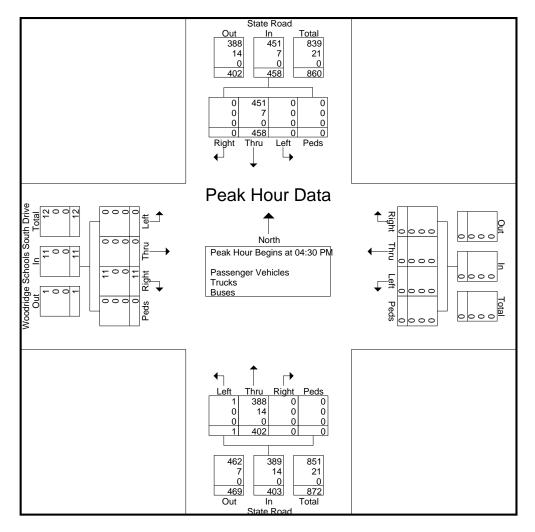
520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Woodridge Schools South Drive Intersection

Project Number: 2023050.21 File Name : 6-State and Woodridge South 091323

Project Name: Traffic Study Site Code : 71063050 Project Location: Cuyahoga Falls, OH Start Date : 9/13/2023

	Wo	So	dge uth D stbo	rive	ools		We	stbo	und				ate R					ate R uthbo			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	om 04:	:30 PN	/I to 05:	15 PN	/I - Pe	ak 1 o	f 1												
Peak Hour	or Ent	tire In	tersec	tion B	egins a	t 04:3	0 PM														
04:30 PM	0	0	8	0	8	0	0	0	0	0	1	112	0	0	113	0	110	0	0	110	231
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	86	0	0	86	0	101	0	0	101	187
05:00 PM	0	0	2	0	2	0	0	0	0	0	0	108	0	0	108	0	108	0	0	108	218
05:15 PM	0	0	1_	0	1	0	0	0	0	0	0	96	0	0	96	0	139	0	0	139	236
Total Volume	0	0	11	0	11	0	0	0	0	0	1	402	0	0	403	0	458	0	0	458	872
% App. Total	0	0	100	0		0	0	0	0		0.2	99.8	0	0		0	100	0	0		
PHF	.000	.000	.344	.000	.344	.000	.000	.000	.000	.000	.250	.897	.000	.000	.892	.000	.824	.000	.000	.824	.924
Passenger Vehicles	0	0	11	0	11	0	0	0	0	0	1	388	0	0	389	0	451	0	0	451	851
% Passenger Vehicles	0	0	100	0	100	0	0	0	0	0	100	96.5	0	0	96.5	0	98.5	0	0	98.5	97.6
Trucks	0	0	0	0	0	0	0	0	0	0	0	14	0	0	14	0	7	0	0	7	21
% Trucks	0	0	0	0	0	0	0	0	0	0	0	3.5	0	0	3.5	0	1.5	0	0	1.5	2.4
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0





520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Falls Industrial Intersection

Project Number: 2023050.21 File Name : 7-State and Falls Industrial 091423

Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 69093050

Start Date : 9/14/2023

Client Name: City of Cuyahoga Falls Page No : 1

Groups Printed- Passenger Vehicles - Trucks - Buses

Falls In the Child			
Falls Industrial State Road State R			
Eastbound Westbound Northbound Southbound	ound		
Start Time Left Thru Right Peds App. Total Right Peds App. Total Left Thru Right Right Peds App. Total Right R	Peds Ap	App. Total	Int. Total
07:00 AM 0 0 0 0 0 4 0 2 0 6 0 84 6 0 90 6 57 0	0	63	159
07:15 AM 0 0 0 0 0 4 0 0 0 4 0 122 6 0 128 2 48 0	0	50	182
07:30 AM 0 0 0 0 0 5 0 2 0 7 0 154 3 0 157 4 56 0	0	60	224
07:45 AM 0 0 0 0 0 3 0 1 0 4 0 125 6 0 131 8 103 0		111	246
Total 0 0 0 0 0 16 0 5 0 21 0 485 21 0 506 20 264 0	0	284	811
08:00 AM 0 0 0 0 0 0 0 0 1 0 1 0 95 6 0 101 7 54 0	0	61	163
08:15 AM 0 0 0 0 0 2 0 1 0 3 0 126 10 0 136 6 62 0	0	68	207
08:30 AM 0 0 0 0 0 2 0 2 0 4 0 99 5 0 104 3 171 0	-	174	282
08:45 AM 0 0 0 0 0 2 0 4 0 6 0 96 5 0 101 2 77 0	0	79	186
Total 0 0 0 0 0 6 0 8 0 14 0 416 26 0 442 18 364 0	0	382	838
	_		
09:00 AM 0 0 0 0 0 3 0 1 0 4 0 77 6 0 83 5 58 0	0	63	150
09:15 AM 0 0 0 0 0 6 0 4 0 10 0 57 8 0 65 2 55 0	0	57	132
09:30 AM 0 0 0 0 0 4 0 3 0 7 0 78 14 0 92 2 54 0	0	56	155
09:45 AM 0 0 0 0 0 3 0 4 0 7 0 79 8 0 87 6 56 0	0	62	156
Total 0 0 0 0 0 16 0 12 0 28 0 291 36 0 327 15 223 0	0	238	593
4000 4 1 0 0 0 0 0 1 4 0 0 0 7 0 7 0 0 0 5 1 0 5 4	•	col	450
10:00 AM 0 0 0 0 0 4 0 3 0 7 0 77 8 0 85 6 54 0	0	60	152
10:15 AM 0 0 0 0 0 0 6 0 2 0 8 0 76 9 0 85 6 52 0 10:30 AM 0 0 0 0 0 8 0 2 0 10 0 75 8 0 83 6 50 0	0 0	58	151 149
	0	56 54	_
		228	151
Total 0 0 0 0 0 28 0 10 0 38 0 303 34 0 337 25 203 0	U	220	603
11:00 AM 0 0 0 0 0 11 0 4 0 15 0 75 9 0 84 6 44 0	0	50	149
11:15 AM 0 0 0 0 0 4 0 2 0 6 0 54 7 0 61 6 63 0	0	69	136
11:30 AM 0 0 0 0 0 7 0 2 0 9 1 66 6 0 73 1 60 0	0	61	143
11:45 AM 0 0 0 0 0 14 0 7 0 21 0 71 9 0 80 2 75 0	0	77	178
Total 0 0 0 0 0 36 0 15 0 51 1 266 31 0 298 15 242 0		257	606
	O	201	000
12:00 PM 0 0 0 0 0 17 0 11 0 28 0 61 8 0 69 8 73 0	0	81	178
12:15 PM 0 0 0 0 0 9 0 1 0 10 0 68 12 0 80 0 64 0	Ö	64	154
12:30 PM 0 0 0 0 0 11 0 4 0 15 0 68 4 1 73 5 65 0	Ö	70	158
12:45 PM 0 0 0 0 0 8 0 3 0 11 0 87 13 0 100 4 79 0	ő	83	194
Total 0 0 0 0 0 45 0 19 0 64 0 284 37 1 322 17 281 0		298	684
	ŭ	_00,	
01:00 PM 0 0 0 0 0 13 0 2 0 15 0 62 9 0 71 2 52 0	0	54	140
01:15 PM 0 0 0 0 0 8 0 4 0 12 0 74 8 0 82 8 90 0	Ö	98	192
01:30 PM 0 0 0 0 0 11 0 4 0 15 0 70 6 0 76 4 78 0	0	82	173
01:45 PM 0 0 0 0 0 5 0 4 0 9 0 84 6 0 90 5 68 0	Ö	73	172
Total 0 0 0 0 0 37 0 14 0 51 0 290 29 0 319 19 288 0		307	677
, and a second s	-	1	-
02:00 PM 0 0 0 0 0 9 0 6 0 15 0 65 6 1 72 0 55 0	0	55	142
02:15 PM 0 0 0 0 0 7 0 5 0 12 0 94 9 0 103 3 84 0	0	87	202
02:30 PM 0 0 0 1 1 10 0 5 0 15 0 106 5 0 111 0 106 0	-	106	233
02:45 PM 0 0 0 0 0 5 0 5 0 10 0 92 6 0 98 1 82 0	Ö	83	191
Total 0 0 0 1 1 31 0 21 0 52 0 357 26 1 384 4 327 0	0	331	768



520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Falls Industrial Intersection

Project Number: 2023050.21 File Name : 7-State and Falls Industrial 091423

Project Name: Traffic Study Project Location: Cuyahoga Falls, OH Client Name: City of Cuyahoga Falls Site Code : 69093050 Start Date : 9/14/2023

Page No : 2

Groups Printed- Passanger Vahicles - Trucks - Ruses

					Grou	ups F	rint	ed- F	asse	enger	Veh	icles	- Tru	ıcks	- Bus	es					
							Falls	Ind	ustria	al		Sta	ate R	oad			Sta	ate R	oad		
		Fa	stbo	und			We	estbo	ound			Nο	rthbo	ound			Soi	uthbo	ound		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
03:00 PM	0	0	0	0	0	6	0	5	0	11	0	95	6	0	101	1	90	0	0	91	203
03:15 PM	0	0	0	0	0	10	0	6	0	16	0	97	5	0	102	3	93	0	0	96	214
03:30 PM	0	0	0	0	0	14	0	7	Õ	21	0	101	4	0	105	1	99	Õ	0	100	226
03:45 PM	Ō	Ō	0	0	0	16	0	8	0	24	0	104	5	0	109	2	106	0	0	108	241
Total	0	0	0	0	0	46	0	26	0	72	0	397	20	0	417	7	388	0	0	395	884
																'					
04:00 PM	0	0	0	0	0	18	0	8	0	26	0	105	4	0	109	2	112	0	0	114	249
04:15 PM	0	0	0	0	0	8	0	7	0	15	0	86	3	0	89	5	111	0	0	116	220
04:30 PM	0	0	0	0	0	16	0	8	0	24	0	112	4	0	116	1	131	0	1	133	273
04:45 PM	0	0	0	0	0	15	0	1	0	16	0	110	6	0	116	2	113	0	0	115	247
Total	0	0	0	0	0	57	0	24	0	81	0	413	17	0	430	10	467	0	1	478	989
05:00 PM	0	0	0	0	0	6	0	10	0	16	0	126	3	0	129	2	142	0	0	144	289
05:15 PM	0	0	0	0	0	7	0	6	0	13	0	66	8	0	74	4	126	0	0	130	217
05:30 PM	0	0	0	0	0	6	0	3	0	9	0	99	14	0	113	5	124	0	0	129	251
05:45 PM	0	0	0	0	0	3	0	5	0	8	0	65	5	0	70	4	94	0	0	98	176
Total	0	0	0	0	0	22	0	24	0	46	0	356	30	0	386	15	486	0	0	501	933
	١ ٥	•	•	•			_			07		70		•	00			•	•	0.4	004
06:00 PM	0	0	0	0	0	20	0	6	1	27	0	79	4	0	83	0	91	0	0	91	201
06:15 PM	0	0	0	0	0	2	0	2	0	4	0	85	1	0	86	2	81	0	0	83	173
06:30 PM	0	0	0	0	0	4	0	3	0	7	0	63	0	0	63	2	67	0	0	69	139
06:45 PM	0	0 0	0	0 0	0	27	0	<u>1</u> 12	0_	<u>2</u> 40	0	<u>44</u> 271	4 9	0 0	<u>48</u> 280	7	81 320	0	0	84 327	134
Total	0	U	U	U	0	21	U	12	1	40	U	211	9	U	200	1	320	U	U	321	647
Grand Total	0	0	0	1	1	367	0	190	1	558	1	4400	316	2	4448	172	0050	0	1	4026	9033
Apprch %	0	0	0	100	1	65.8	0	34.1	0.2	556	0	4129 92.8	7.1	0	4440	4.3	3853 95.7	0	0	4026	9033
Total %	0	0	0	0	0	4.1	0	2.1	0.2	6.2	0	92.0 45.7	3.5	0	49.2	1.9	95.7 42.7	0	0	44.6	
	0	0	0	1	1	355	0	165	1	521	1	3974	305	2	4282	133	3710	0	1	3844	8648
Passenger Vehicles % Passenger		-	·	-	•		_		-	_					_				•		
Vehicles	0	0	0	100	100	96.7	0	86.8	100	93.4	100	96.2	96.5	100	96.3	77.3	96.3	0	100	95.5	95.7
Trucks	0	0	0	0	0	12	0	25	0	37	0	153	11	0	164	39	137	0	0	176	377
% Trucks	0	0	0	0	0	3.3	0	13.2	0	6.6	0	3.7	3.5	0	3.7	22.7	3.6	0	0	4.4	4.2
Buses	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	6	0	0	6	8
% Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0.1	0.1



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State Road / Falls Industrial Intersection

Project Number: 2023050.21 File Name : 7-State and Falls Industrial 091423

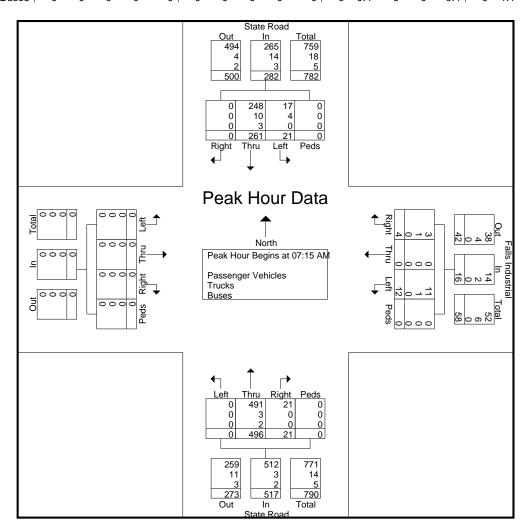
Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 69093050

Start Date : 9/14/2023

																					1
							Falls	Indu	ustria	al		Sta	ate R	oad			Sta	ate R	oad		
		Eas	stbo	und			We	stbo	und			No	rthbo	ound			Sou	uthbo	ound		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Tota
Peak Hour	Analys	sis Fro	m 07:	:15 AN	/I to 08:	00 AN	/ - Pe	ak 1 o	f 1												
Peak Hour	for En	tire Int	tersec	tion B	egins a	t 07:1	5 AM														
07:15 AM	0	0	0	0	0	4	0	0	0	4	0	122	6	0	128	2	48	0	0	50	182
07:30 AM	0	0	0	0	0	5	0	2	0	7	0	154	3	0	157	4	56	0	0	60	224
07:45 AM	0	0	0	0	0	3	0	1	0	4	0	125	6	0	131	8	103	0	0	111	246
MA 00:80	0	0	0	0	0	0	0	1_	0	1	0	95	6	0	101	7	54	0	0	61	163
Total Volume	0	0	0	0	0	12	0	4	0	16	0	496	21	0	517	21	261	0	0	282	815
% App. Total	0	0	0	0		75	0	25	0		0	95.9	4.1	0		7.4	92.6	0	0		
PHF	.000	.000	.000	.000	.000	.600	.000	.500	.000	.571	.000	.805	.875	.000	.823	.656	.633	.000	.000	.635	.828
Passenger Vehicles	0	0	0	0	0	11	0	3	0	14	0	491	21	0	512	17	248	0	0	265	791
% Passenger Vehicles	0	0	0	0	0	91.7	0	75.0	0	87.5	0	99.0	100	0	99.0	81.0	95.0	0	0	94.0	97.1
Trucks	0	0	0	0	0	1	0	1	0	2	0	3	0	0	3	4	10	0	0	14	19
% Trucks	0	0	0	0	0	8.3	0	25.0	0	12.5	0	0.6	0	0	0.6	19.0	3.8	0	0	5.0	2.3
Buses	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	3	0	0	3	5
% Buses	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0.4	0	1.1	0	0	1.1	0.6





520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Falls Industrial Intersection

Project Number: 2023050.21 File Name : 7-State and Falls Industrial 091423

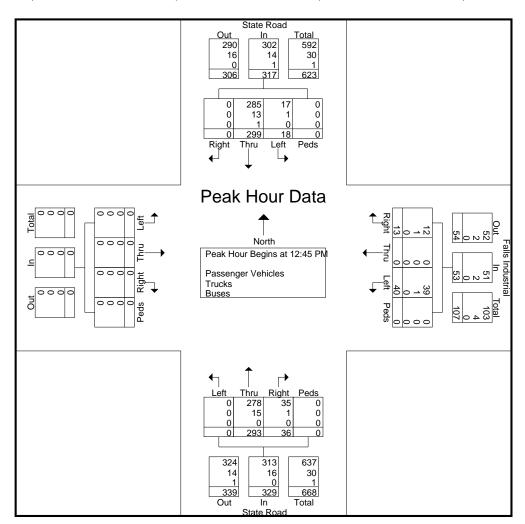
Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 69093050

Start Date : 9/14/2023

							Falle	Indi	ıstria	 .l		Sta	ate R	nad			Sta	ate R	nad		ĺ
			- 41							41											1
		Ea	stbo	una			vve	stbo	una			NO	rthbo	una			50 L	ıthbo	ouna		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	m 10:	:00 AN	/I to 01:	45 PN	1 - Pe	ak 1 o	f 1												
Peak Hour f	for Ent	tire Int	ersec	tion Be	egins a	t 12:4	5 PM														
12:45 PM	0	0	0	0	0	8	0	3	0	11	0	87	13	0	100	4	79	0	0	83	194
01:00 PM	0	0	0	0	0	13	0	2	0	15	0	62	9	0	71	2	52	0	0	54	140
01:15 PM	0	0	0	0	0	8	0	4	0	12	0	74	8	0	82	8	90	0	0	98	192
01:30 PM	0	0	0	0	0	11	0	4	0	15	0	70	6	0	76	4	78	0	0	82	173
Total Volume	0	0	0	0	0	40	0	13	0	53	0	293	36	0	329	18	299	0	0	317	699
% App. Total	0	0	0	0		75.5	0	24.5	0		0	89.1	10.9	0		5.7	94.3	0	0		
PHF	.000	.000	.000	.000	.000	.769	.000	.813	.000	.883	.000	.842	.692	.000	.823	.563	.831	.000	.000	.809	.901
Passenger Vehicles	0	0	0	0	0	39	0	12	0	51	0	278	35	0	313	17	285	0	0	302	666
% Passenger Vehicles	0	0	0	0	0	97.5	0	92.3	0	96.2	0	94.9	97.2	0	95.1	94.4	95.3	0	0	95.3	95.3
Trucks	0	0	0	0	0	1	0	1	0	2	0	15	1	0	16	1	13	0	0	14	32
% Trucks	0	0	0	0	0	2.5	0	7.7	0	3.8	0	5.1	2.8	0	4.9	5.6	4.3	0	0	4.4	4.6
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
% Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0.3	0.1





520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Falls Industrial Intersection

Project Number: 2023050.21 File Name : 7-State and Falls Industrial 091423

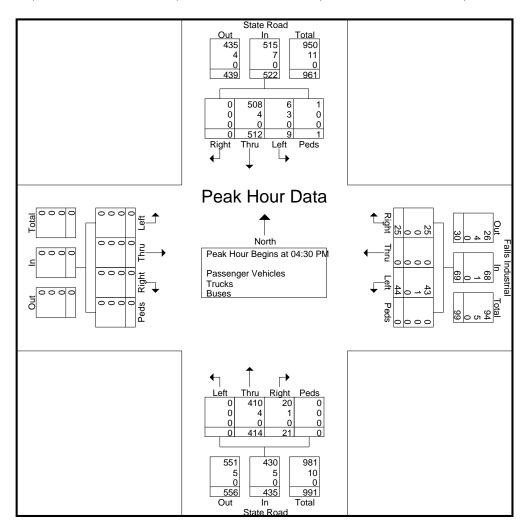
Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 69093050

Start Date : 9/14/2023

							Falle	Indi	ustria	 .l		Sta	ate R	nad			Sta	ate R	nad		1
		Ea.	م ما د م	اء مار،						a1											
		⊏a	stbo	una			vve	stbo	una			INOI	rthbo	una			300	uthbo	ouna		
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	m 04:	:30 PM	1 to 05:	:15 PN	1 - Pe	ak 1 o	f 1												
Peak Hour f	or Ent	tire Int	tersec	tion B	egins a	t 04:3	0 PM														
04:30 PM	0	0	0	0	0	16	0	8	0	24	0	112	4	0	116	1	131	0	1	133	273
04:45 PM	0	0	0	0	0	15	0	1	0	16	0	110	6	0	116	2	113	0	0	115	247
05:00 PM	0	0	0	0	0	6	0	10	0	16	0	126	3	0	129	2	142	0	0	144	289
05:15 PM	0	0	0	0	0	7	0	6	0	13	0	66	8	0	74	4	126	0	0	130	217
Total Volume	0	0	0	0	0	44	0	25	0	69	0	414	21	0	435	9	512	0	1	522	1026
% App. Total	0	0	0	0		63.8	0	36.2	0		0	95.2	4.8	0		1.7	98.1	0	0.2		
PHF	.000	.000	.000	.000	.000	.688	.000	.625	.000	.719	.000	.821	.656	.000	.843	.563	.901	.000	.250	.906	.888
Passenger Vehicles	0	0	0	0	0	43	0	25	0	68	0	410	20	0	430	6	508	0	1	515	1013
% Passenger Vehicles	0	0	0	0	0	97.7	0	100	0	98.6	0	99.0	95.2	0	98.9	66.7	99.2	0	100	98.7	98.7
Trucks	0	0	0	0	0	1	0	0	0	1	0	4	1	0	5	3	4	0	0	7	13
% Trucks	0	0	0	0	0	2.3	0	0	0	1.4	0	1.0	4.8	0	1.1	33.3	8.0	0	0	1.3	1.3
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0





520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Quick Road (North) Intersection

Project Number: 2023050.21 File Name : 8-State and Quick (North) 083023

Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 71023050

Start Date : 8/30/2023

Client Name: City of Cuyahoga Falls Page No : 1

Groups Printed- Passenger Vehicles - Trucks - Buses

	1				Olot					enger	V CIII	0.03	- 110	10113	- Dus	<u> </u>					
			ick R stbo				No We	rth C	und	ip		No	ate R	oad ound				ate R uthbo			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
07:00 AM	1	0	0	0	1	0	0	0	0	0	0	100	0	0	100	0	51	5	0	56	157
07:15 AM	7	0	0	0	7	0	0	0	0	0	0	108	1	0	109	3	56	0	0	59	175
07:30 AM	3	0	0	0	3	0	0	0	0	0	0	119	0	0	119	1	66	1	0	68	190
07:45 AM	4	0	0	0	4	0	0	1	0	1	0	147	0	0	147	0	70	1_	0	71	223
Total	15	0	0	0	15	0	0	1	0	1	0	474	1	0	475	4	243	7	0	254	745
		•	_	•		_	•	•	•		_	400	•	_	400			_	•	0.5	407
08:00 AM	4	0	0	0	4	0	0	0	0	0	0	108	0	0	108	0	83	2	0	85	197
08:15 AM	4	0	0	0	4	0	0	2	0	2	0	121	1	0	122	0	44	2	0	46	174
08:30 AM	3	0	1	0	4	1	0	1	0	2	0	115	1	0	116	2	164	10	0	176	298
08:45 AM	6	0	0	0	6	1_	0		0	2	0	99	0	0	99	2	82	5_	0	89	196
Total	17	0	1	0	18	2	0	4	0	6	0	443	2	0	445	4	373	19	0	396	865
09:00 AM	7	0	0	0	7	0	0	1	0	1	0	87	1	0	88	2	61	1	0	64	160
09:15 AM	3	Ō	Ö	0	3	1	Ō	0	0	1	Ō	78	1	Ö	79	0	55	3	Ö	58	141
09:30 AM	2	0	0	0	2	1	0	2	0	3	0	66	0	0	66	0	46	3	0	49	120
09:45 AM	2	Ō	Ō	Ō	2	0	Ō	4	Ō	4	Ō	65	1	Ö	66	3	42	2	Ō	47	119
Total	14	0	0	0	14	2	0	7	0	9	0	296	3	0	299	5	204	9	0	218	540
40.00.414	١ ۵	•	_	•		•	•		•			40	_	_	- 4		50	_	_		
10:00 AM	2	0	0	0	2	2	0	1	0	3	0	46	5	0	51	1	50	3	0	54	110
10:15 AM	2	0	0	0	2	2	0	1	0	3	0	48	5	0	53	2	52	3	0	57	115
10:30 AM	1	0	0	0	1	1	0	2	0	3	0	51	0	0	51	1	55	2	0	58	113
10:45 AM	2	0	0	0	7	7	0	1 5	0	3	0	52	1	0_	53	1	57_	1_	0	59	117
Total	7	0	0	0	1	7	0	5	0	12	0	197	11	0	208	5	214	9	0	228	455
11:00 AM	1	1	0	0	2	1	1	1	0	3	0	55	2	0	57	1	63	1	0	65	127
11:15 AM	2	0	0	0	2	1	0	2	0	3	0	73	0	0	73	2	59	1	0	62	140
11:30 AM	1	0	0	0	1	1	0	1	0	2	0	67	3	0	70	0	59	6	0	65	138
_11:45 AM	3	0	0	0	3	2	0	0	0	2	0	62	2	0	64	0	86	2	0	88	157
Total	7	1	0	0	8	5	1	4	0	10	0	257	7	0	264	3	267	10	0	280	562
12:00 PM	1	0	0	0	1	1	0	0	0	1	0	84	0	0	84	1	89	4	0	94	180
12:15 PM	3	0	0	0	3	Ö	0	1	0	1	0	73	0	0	73	Ö	72	3	0	75	152
12:30 PM	2	0	0	0	2	0	0	1	0	1	0	80	0	0	80	0	70	2	0	72	155
12:45 PM	2	0	0	0	2	0	0	1	0	1	0	56	1	0	57	0	64	2	0	66	126
Total	8	0	0	0	8	1	0	3	0	4	0	293	1	0	294	1	295	11	0	307	613
		-		_			-	-	_	- '				_							
01:00 PM	2	0	0	0	2	1	0	0	0	1	1	61	0	0	62	0	60	7	0	67	132
01:15 PM	2	0	0	0	2	0	1	2	0	3	0	72	0	0	72	2	71	2	0	75	152
01:30 PM	3	1	0	0	4	0	0	0	0	0	0	74	0	0	74	2	82	1	0	85	163
01:45 PM	4	0	0	0	4	0	0	1_	0	1_	0	78_	2	0	80	1_	58_	3_	0	62	147
Total	11	1	0	0	12	1	1	3	0	5	1	285	2	0	288	5	271	13	0	289	594
02:00 PM	2	0	0	0	2	1	1	1	0	3	1	61	1	0	63	1	52	5	0	58	126
02:15 PM	3	Ö	Ö	Ö	3	0	0	1	Ö	1	0	64	1	Ö	65	2	76	4	Ö	82	151
02:30 PM	1	0	0	0	1	0	0	2	0	2	1	86	2	0	89	1	84	1	0	86	178



520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Quick Road (North) Intersection

Project Number: 2023050.21 File Name : 8-State and Quick (North) 083023

Project Name: Traffic Study Project Location: Cuyahoga Falls, OH Client Name: City of Cuyahoga Falls Site Code : 71023050 Start Date : 8/30/2023

Page No : 2

Groups Printed- Passenger Vehicles - Trucks - Buses

					Grou	ups F	rinte	<u>ed- P</u>	asse	nger	Vehi	cles	- Tru	ıcks	- Bus	es					
		Ea	ick F stbo			,	No	Deal rth D stbo	rive	ip			ate R					ate R uthbo			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
02:45 PM	6	1	0	0	7	2	1	2	0	5	0	100	0	0	100	0	72	2	0	74	186
Total	12	1	0	0	13	3	2	6	0	11	2	311	4	0	317	4	284	12	0	300	641
03:00 PM	6	1	0	0	7	2	0	2	0	4	0	99	0	0	99	0	75	2	0	77	187
03:15 PM	5	0	0	0	5	0	0	1	0	1	0	99	0	0	99	0	84	3	0	87	192
03:30 PM	4	1	0	0	5	0	0	2	0	2	0	97	0	0	97	0	95	2	0	97	201
03:45 PM	3	0	0	0	3	1	0	1_	0	2	0	97	0	0	97	0	104	3	0	107	209
Total	18	2	0	0	20	3	0	6	0	9	0	392	0	0	392	0	358	10	0	368	789
04:00 PM	2	0	0	0	2	0	0	0	0	0	0	96	0	0	96	1	115	3	0	119	217
04:15 PM	2	Ō	0	0	2	1	0	1	Ö	2	0	109	0	0	109	0	119	3	0	122	235
04:30 PM	0	0	0	Ö	0	1	0	3	Ö	4	1	104	Õ	Õ	105	2	128	4	0	134	243
04:45 PM	1	0	Ö	Ö	1	1	0	2	0	3	0	85	1	0	86	0	108	2	0	110	200
Total	5	0	0	0	5	3	0	6	0	9	1	394	1	0	396	3	470	12	0	485	895
05:00 PM	1	0	0	0	1	1	0	3	0	4	0	104	1	0	105	0	130	5	0	135	245
05:15 PM	2	0	0	0	2	3	0	3	0	6	0	97	Ö	0	97	ő	139	4	0	143	248
05:30 PM	0	0	0	0	0	4	0	5	0	9	0	78	2	0	80	0	136	11	0	147	236
05:45 PM	2	Ö	0	0	2	2	1	0	0	3	0	71	1	0	72	ő	106	5	Ö	111	188
Total	5	0	0	0	5	10	1	11	0	22	0	350	4	0	354	0	511	25	0	536	917
06:00 PM	1	0	0	0	1	1	0	2	0	3	1	72	0	0	73	0	105	7	0	112	189
06:15 PM	0	0	0	0	0	1	0	0	0	1	0	50	2	0	52	0	85	4	0	89	142
06:30 PM	3	0	0	0	3	0	0	0	0	0	0	50	1	0	51	1	66	4	0	71	125
06:45 PM	2	0	0	0	2	0	0	0	0	0	0	68	0	0	68	0	75	1	0	76	146
Total	6	0	0	0	6	2	0	2	0	4	1	240	3	0	244	1	331	16	0	348	602
Grand Total	125	5	1	0	131	39	5	58	0	102	5	3932	39	0	3976	35	3821	153	0	4009	8218
Apprch %	95.4	3.8	8.0	0		38.2	4.9	56.9	0		0.1	98.9	1	0		0.9	95.3	3.8	0		
Total %	1.5	0.1	0	0	1.6	0.5	0.1	0.7	0	1.2	0.1	47.8	0.5	0	48.4	0.4	46.5	1.9	0	48.8	
Passenger Vehicles	124	5	1	0	130	39	5	58	0	102	5	3746	37	0	3788	34	3634	148	0	3816	7836
% Passenger Vehicles	99.2	100	100	0	99.2	100	100	100	0	100	100	95.3	94.9	0	95.3	97.1	95.1	96.7	0	95.2	95.4
Trucks	1	0	0	0	1	0	0	0	0	0	0	181	2	0	183	1	179	4	0	184	368
% Trucks	0.8	0	0	0	0.8	0	0	0	0	0	0	4.6	5.1	0	4.6	2.9	4.7	2.6	0	4.6	4.5
Buses	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0	8	1	0	9	14
% Buses	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0.1	0	0.2	0.7	0	0.2	0.2



520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Quick Road (North) Intersection

Project Number: 2023050.21 File Name : 8-State and Quick (North) 083023

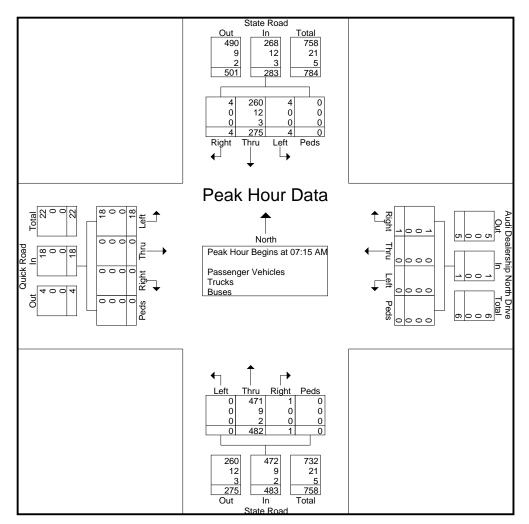
Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 71023050

Start Date : 8/30/2023

			ick R stbo			A	No	Deal rth D stbo	rive	ip			ate R	oad ound				ate R uthbo			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	om 07	:15 AN	√l to 08:	1A 00:	1 - Pe	ak 1 o	f 1												
Peak Hour	for En	tire Int	tersec	tion B	egins a	t 07:1	5 AM														
07:15 AM	7	0	0	0	7	0	0	0	0	0	0	108	1	0	109	3	56	0	0	59	175
07:30 AM	3	0	0	0	3	0	0	0	0	0	0	119	0	0	119	1	66	1	0	68	190
07:45 AM	4	0	0	0	4	0	0	1	0	1	0	147	0	0	147	0	70	1	0	71	223
08:00 AM	4	0	0	0	4	0	0	0	0	0	0	108	0	0	108	0	83	2	0	85	197
Total Volume	18	0	0	0	18	0	0	1	0	1	0	482	1	0	483	4	275	4	0	283	785
% App. Total	100	0	0	0		0	0	100	0		0	99.8	0.2	0		1.4	97.2	1.4	0		
PHF	.643	.000	.000	.000	.643	.000	.000	.250	.000	.250	.000	.820	.250	.000	.821	.333	.828	.500	.000	.832	.880
Passenger Vehicles	18	0	0	0	18	0	0	1	0	1	0	471	1	0	472	4	260	4	0	268	759
% Passenger Vehicles	100	0	0	0	100	0	0	100	0	100	0	97.7	100	0	97.7	100	94.5	100	0	94.7	96.7
Trucks	0	0	0	0	0	0	0	0	0	0	0	9	0	0	9	0	12	0	0	12	21
% Trucks	0	0	0	0	0	0	0	0	0	0	0	1.9	0	0	1.9	0	4.4	0	0	4.2	2.7
Buses	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	3	0	0	3	5
% Buses	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0.4	0	1.1	0	0	1.1	0.6





520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Quick Road (North) Intersection

Project Number: 2023050.21 File Name : 8-State and Quick (North) 083023

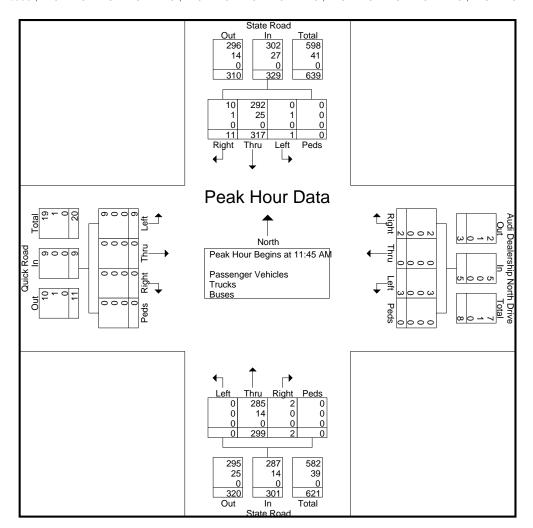
Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 71023050

Start Date : 8/30/2023

			ick R stbo			A	No	Deal rth D stbo	rive	ip			ate R					ate R uthbo			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	m 10:	1A 00:	∕I to 01:	:45 PN	1 - Pe	ak 1 o	f 1												
Peak Hour	or En	tire Int	tersec	tion B	egins a	t 11:4	5 AM														
11:45 AM	3	0	0	0	3	2	0	0	0	2	0	62	2	0	64	0	86	2	0	88	157
12:00 PM	1	0	0	0	1	1	0	0	0	1	0	84	0	0	84	1	89	4	0	94	180
12:15 PM	3	0	0	0	3	0	0	1	0	1	0	73	0	0	73	0	72	3	0	75	152
12:30 PM	2	0	0	0	2	0	0	1_	0	1_	0	80	0	0	80	0	70	2	0	72	155
Total Volume	9	0	0	0	9	3	0	2	0	5	0	299	2	0	301	1	317	11	0	329	644
% App. Total	100	0	0	0		60	0	40	0		0	99.3	0.7	0		0.3	96.4	3.3	0		
PHF	.750	.000	.000	.000	.750	.375	.000	.500	.000	.625	.000	.890	.250	.000	.896	.250	.890	.688	.000	.875	.894
Passenger Vehicles	9	0	0	0	9	3	0	2	0	5	0	285	2	0	287	0	292	10	0	302	603
% Passenger Vehicles	100	0	0	0	100	100	0	100	0	100	0	95.3	100	0	95.3	0	92.1	90.9	0	91.8	93.6
Trucks	0	0	0	0	0	0	0	0	0	0	0	14	0	0	14	1	25	1	0	27	41
% Trucks	0	0	0	0	0	0	0	0	0	0	0	4.7	0	0	4.7	100	7.9	9.1	0	8.2	6.4
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0





520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Quick Road (North) Intersection

Project Number: 2023050.21 File Name : 8-State and Quick (North) 083023

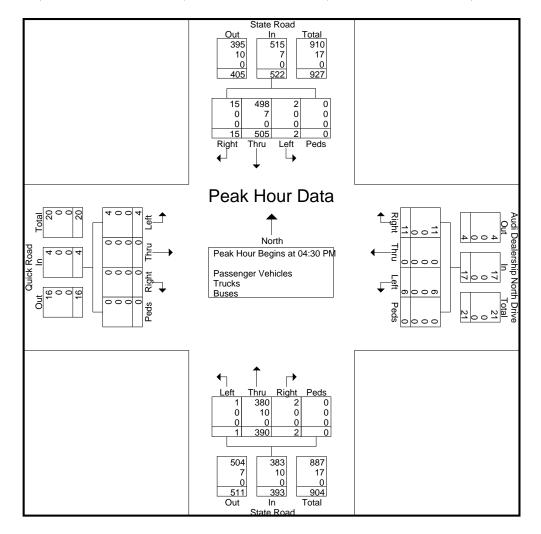
Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 71023050

Start Date : 8/30/2023

			ick R stbo			F	No	Deal rth D stbo		ip			ate R	oad ound				ate R uthbo			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	,							ak 1 o	f 1												
Peak Hour	for En	tire Int	tersec	tion B	egins a	t 04:3	0 PM														
04:30 PM	0	0	0	0	0	1	0	3	0	4	1	104	0	0	105	2	128	4	0	134	243
04:45 PM	1	0	0	0	1	1	0	2	0	3	0	85	1	0	86	0	108	2	0	110	200
05:00 PM	1	0	0	0	1	1	0	3	0	4	0	104	1	0	105	0	130	5	0	135	245
05:15 PM	2	0	0	0	2	3	0	3	0	6	0	97	0	0	97	0	139	4	0	143	248
Total Volume	4	0	0	0	4	6	0	11	0	17	1	390	2	0	393	2	505	15	0	522	936
% App. Total	100	0	0	0		35.3	0	64.7	0		0.3	99.2	0.5	0		0.4	96.7	2.9	0		
PHF	.500	.000	.000	.000	.500	.500	.000	.917	.000	.708	.250	.938	.500	.000	.936	.250	.908	.750	.000	.913	.944
Passenger Vehicles	4	0	0	0	4	6	0	11	0	17	1	380	2	0	383	2	498	15	0	515	919
% Passenger Vehicles	100	0	0	0	100	100	0	100	0	100	100	97.4	100	0	97.5	100	98.6	100	0	98.7	98.2
Trucks	0	0	0	0	0	0	0	0	0	0	0	10	0	0	10	0	7	0	0	7	17
% Trucks	0	0	0	0	0	0	0	0	0	0	0	2.6	0	0	2.5	0	1.4	0	0	1.3	1.8
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0





520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Quick Road (South) Intersection

Project Number: 2023050.21 File Name : 9-State and Quick (South) 083023

Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 69013050

Start Date : 8/30/2023

Client Name: City of Cuyahoga Falls Page No : 1

Groups Printed- Passenger Vehicles - Trucks - Buses

	1				GIOC	•				enger	V CIII	0103		10113	- Dus	53					1
			ick F stbo				Sout	Deal hern estbo	Driv	•			ate R	oad ound				ate R uthbo			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
07:00 AM	0	0	47	0	47	0	0	0	0	0	100	86	0	0	186	1	46	1	0	48	281
07:15 AM	0	0	77	0	77	0	0	0	0	0	137	108	3	1	249	2	52	0	0	54	380
07:30 AM	0	0	65	0	65	0	0	1	0	1	65	116	3	0	184	1	70	0	0	71	321
07:45 AM	0	0	23	0	23	0	0	1	0	1	38	150	2	0	190	2	62	0	0	64	278
Total	0	0	212	0	212	0	0	2	0	2	340	460	8	1	809	6	230	1	0	237	1260
08:00 AM	1	0	20	0	21	0	0	1	0	1	32	109	2	0	143	2	80	1	0	83	248
08:15 AM	0	0	11	0	11	0	0	0	0	0	33	119	1	0	153	0	49	0	0	49	213
08:30 AM	1	0	19	0	20	0	0	0	0	0	38	117	0	0	155	0	162	0	0	162	337
08:45 AM	0	0	39	0	39	1	0	0	0	1	41	95	3	0	139	2	86	0	1_	89	268
Total	2	0	89	0	91	1	0	1	0	2	144	440	6	0	590	4	377	1	1	383	1066
09:00 AM	0	1	24	0	25	1	0	0	0	1	14	94	3	1	112	2	58	0	0	60	198
09:15 AM	0	0	13	0	13	3	1	0	0	4	14	79	1	0	94	1	56	0	0	57	168
09:30 AM	0	0	19	0	19	1	0	2	0	3	16	68	2	0	86	0	47	0	0	47	155
09:45 AM	0	0	17	0	17	1	0	3	0	4	15	64	1	0	80	0	40	0	0	40	141
Total	0	1	73	0	74	6	1	5	0	12	59	305	7	1	372	3	201	0	0	204	662
10:00 AM	0	0	19	0	19	1	0	3	0	4	15	63	0	0	78	0	42	0	0	42	143
10:15 AM	0	0	21	0	21	0	0	2	0	2	16	64	0	0	80	0	47	0	0	47	150
10:30 AM	0	0	22	0	22	1	0	1	0	2	17	61	0	0	78	0	51	0	0	51	153
_10:45 AM	0	0	23	0	23	1	0	2	0	3	18	66	0	0	84	0	56	0	0	56	166
Total	0	0	85	0	85	3	0	8	0	11	66	254	0	0	320	0	196	0	0	196	612
											1										
11:00 AM	0	0	24	0	24	1	0	0	0	1	19	62	0	0	81	0	61	0	0	61	167
11:15 AM	0	0	19	0	19	0	0	1	0	1	18	74	0	0	92	0	65	0	0	65	177
11:30 AM	2	0	18	0	20	1	0	0	0	1	11	66	4	0	81	0	55	0	0	55	157
_11:45 AM	0	0	19	0	19	2	0	0	0	2	23	58	3	0	84	0	93	0	0	93	198
Total	2	0	80	0	82	4	0	1	0	5	71	260	7	0	338	0	274	0	0	274	699
											1										
12:00 PM	0	0	17	0	17	4	0	0	0	4	22	92	0	0	114	0	85	0	0	85	220
12:15 PM	0	0	33	0	33	5	0	1	0	6	24	69	4	0	97	0	77	0	0	77	213
12:30 PM	0	0	26	0	26	2	0	2	0	4	7	76	3	0	86	1	63	0	0	64	180
12:45 PM	0	0	19	0	19	2	0	1	0	3	22	59	5	0	86	1	60	0	0	61	169
Total	0	0	95	0	95	13	0	4	0	17	75	296	12	0	383	2	285	0	0	287	782
				_	1			_						_				_	_	_	
01:00 PM	0	0	19	0	19	2	0	2	0	4	14	57	4	0	75	0	64	0	0	64	162
01:15 PM	0	0	14	0	14	1	0	1	0	2	13	74	2	0	89	2	68	0	0	70	175
01:30 PM	1	0	19	0	20	0	0	2	0	2	21	73	0	0	94	0	81	0	0	81	197
01:45 PM	0	0	30	0	30	0	0	1_	0	1_	36	72_	2	0	110	1	59_	0	0	60	201
Total	1	0	82	0	83	3	0	6	0	9	84	276	8	0	368	3	272	0	0	275	735
02:00 PM	0	0	22	0	22	1	0	0	0	1	30	75	1	0	106	0	59	0	0	59	188
02:00 FM	0	0	19	0	19	2	0	0	0	2	47	68	1	0	116	1	78	0	0	79	216
02:13 PM	1	0	102	0	103	1	0	1	0	2	62	84	2	0	148	0	76	0	0	76	329
02.00 F W		U	102	U	103	1	U	1	U	2	02	04	_	U	140	U	70	U	U	10	523



Akron, OH 44311 Telephone: (330) 572-2100

State Road / Quick Road (South) Intersection

Project Number: 2023050.21 File Name : 9-State and Quick (South) 083023

Project Name: Traffic Study Project Location: Cuyahoga Falls, OH Client Name: City of Cuyahoga Falls Site Code : 69013050 Start Date : 8/30/2023

Page No : 2

Groups Printed- Passenger Vehicles - Trucks - Buses

					Grou	ups F	rinte	ed- P	asse	nger	Vehi	cles	- Tru	ıcks	- Bus	es					
			ick F stbo	Road und			Sout	Deal hern stbo	Driv	•			ate R	oad ound				ate R uthbo			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
02:45 PM	1	0	47	0	48	1	0	2	0	3	51	99	2	0	152	1	73	0	0	74	277
Total	2	0	190	0	192	5	0	3	0	8	190	326	6	0	522	2	286	0	0	288	1010
03:00 PM	0	0	40	0	40	1	0	2	0	3	45	98	3	0	146	0	84	0	0	84	273
03:15 PM	0	0	36	0	36	2	0	1	0	3	39	96	2	0	137	0	94	0	0	94	270
03:30 PM	0	0	34	0	34	1	0	2	0	3	32	94	3	0	129	0	110	0	0	110	276
03:45 PM	0	0	30	0	30	1	0	2	0	3	26	93	3	0	122	0	118	0	0	118	273
Total	0	0	140	0	140	5	0	7	0	12	142	381	11	0	534	0	406	0	0	406	1092
04:00 PM	1	0	28	0	29	2	0	2	0	4	27	93	3	0	123	2	120	0	0	122	278
04:15 PM	Ö	0	20	0	20	1	0	2	0	3	38	108	1	0	147	2	108	0	0	110	280
04:30 PM	0	0	62	0	62	Ö	0	2	0	2	34	95	i	0	130	1	135	0	0	136	330
04:45 PM	0	0	29	0	29	2	0	3	0	5	31	84	3	0	118	Ö	115	0	0	115	267
Total	1	0	139	0	140	5	0	9	0	14	130	380	8	0	518	5	478	0	0	483	1155
05:00 PM	0	0	19	0	19	1	0	3	0	4	33	112	1	0	146	2	133	0	2	137	306
05:15 PM	0	Ö	13	0	13	1	Ö	0	0	1	53	82	0	0	135	0	136	0	0	136	285
05:30 PM	0	2	58	0	60	1	0	2	0	3	64	81	0	0	145	1	139	0	0	140	348
05:45 PM	Ö	0	54	0	54	3	1	2	0	6	55	78	Ö	0	133	Ö	103	Ö	Ö	103	296
Total	0	2	144	0	146	6	1	7	0	14	205	353	1	0	559	3	511	0	2	516	1235
06:00 PM	0	0	42	0	42	3	0	3	0	6	22	68	2	0	92	0	107	0	0	107	247
06:15 PM	0	0	45	0	45	0	0	1	0	1	18	49	2	0	69	0	79	0	0	79	194
06:30 PM	0	0	38	0	38	2	0	0	0	2	28	50	0	0	78	0	72	0	0	72	190
06:45 PM	0	0	42	0	42	0	0	0	0	0	25	62	0	0	87	0	63	0	0	63	192
Total	0	0	167	0	167	5	0	4	0	9	93	229	4	0	326	0	321	0	0	321	823
Grand Total	8	3	1496	0	1507	56	2	57	0	115	1599	3960	78	2	5639	28	3837	2	3	3870	11131
Apprch %	0.5	0.2	99.3	0		48.7	1.7	49.6	0		28.4	70.2	1.4	0		0.7	99.1	0.1	0.1		
Total %	0.1	0	13.4	0	13.5	0.5	0	0.5	0	1_	14.4	35.6	0.7	0	50.7	0.3	34.5	0	0	34.8	
Passenger Vehicles	8	3	1448	0	1459	56	2	56	0	114	1539	3809	78	2	5428	28	3716	2	3	3749	10750
% Passenger Vehicles	100	100	96.8	0	96.8	100	100	98.2	0	99.1	96.2	96.2	100	100	96.3	100	96.8	100	100	96.9	96.6
Trucks	0	0	2	0	2	0	0	1	0	1	1	147	0	0	148	0	116	0	0	116	267
% Trucks	0	0	0.1	0	0.1	0	0	1.8	0	0.9	0.1	3.7	0	0	2.6	0	3	0	0	3	2.4
Buses	0	0	46	0	46	0	0	0	0	0	59	4	0	0	63	0	5	0	0	5	114
% Buses	0	0	3.1	0	3.1	0	0	0	0	0	3.7	0.1	0	0	1.1	0	0.1	0	0	0.1	1



520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Quick Road (South) Intersection

Project Number: 2023050.21 File Name : 9-State and Quick (South) 083023

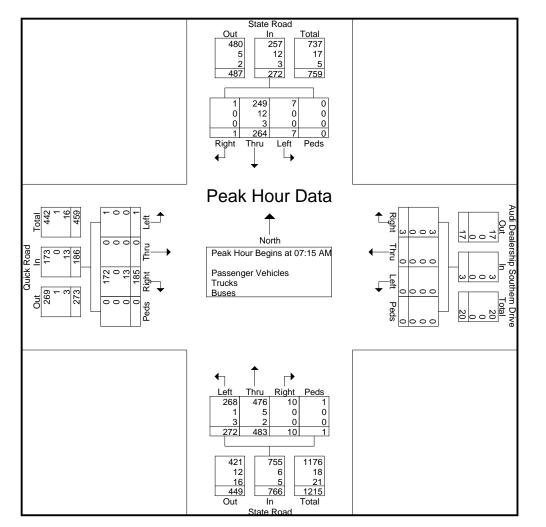
Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 69013050

Start Date : 8/30/2023

			ick R stbo				Sout	Deal hern stbo	Driv	•			ate R	oad ound				ate R uthbo			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	m 07:	:15 AN	∕I to 08:	:00 AN	/I - Pe	ak 1 o	f 1												
Peak Hour f	for En	tire Int	tersec	tion B	egins a	t 07:1	5 AM				ı										
07:15 AM	0	0	77	0	77	0	0	0	0	0	137	108	3	1	249	2	52	0	0	54	380
07:30 AM	0	0	65	0	65	0	0	1	0	1	65	116	3	0	184	1	70	0	0	71	321
07:45 AM	0	0	23	0	23	0	0	1	0	1	38	150	2	0	190	2	62	0	0	64	278
08:00 AM	1	0	20	0	21	0	0	1	0	1	32	109	2	0	143	2	80	1_	0	83	248
Total Volume	1	0	185	0	186	0	0	3	0	3	272	483	10	1	766	7	264	1	0	272	1227
% App. Total	0.5	0	99.5	0		0	0	100	0		35.5	63.1	1.3	0.1		2.6	97.1	0.4	0		
PHF	.250	.000	.601	.000	.604	.000	.000	.750	.000	.750	.496	.805	.833	.250	.769	.875	.825	.250	.000	.819	.807
Passenger Vehicles	1	0	172	0	173	0	0	3	0	3	268	476	10	1	755	7	249	1	0	257	1188
% Passenger Vehicles	100	0	93.0	0	93.0	0	0	100	0	100	98.5	98.6	100	100	98.6	100	94.3	100	0	94.5	96.8
Trucks	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	0	12	0	0	12	18
% Trucks	0	0	0	0	0	0	0	0	0	0	0.4	1.0	0	0	8.0	0	4.5	0	0	4.4	1.5
Buses	0	0	13	0	13	0	0	0	0	0	3	2	0	0	5	0	3	0	0	3	21
% Buses	0	0	7.0	0	7.0	0	0	0	0	0	1.1	0.4	0	0	0.7	0	1.1	0	0	1.1	1.7





520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Quick Road (South) Intersection

Project Number: 2023050.21 File Name : 9-State and Quick (South) 083023

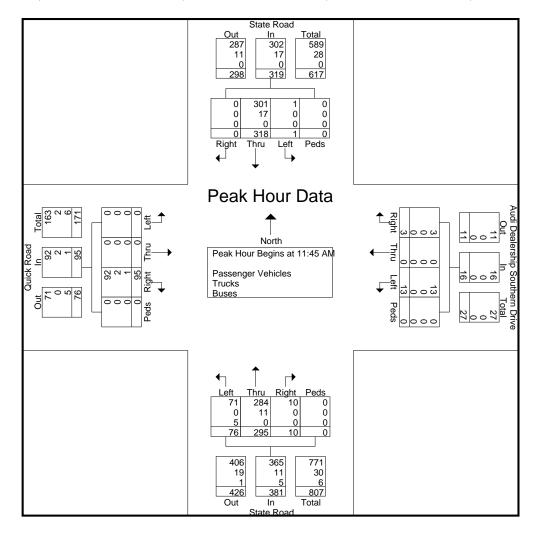
Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 69013050

Start Date : 8/30/2023

			ick R stbo				Sout		ersh Driv und	•			ate R					ate R uthbo			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	om 10	1A 00:	/I to 01:	:45 PN	1 - Pe	ak 1 o	f 1												
Peak Hour	or En	tire In	tersec	tion B	egins a	t 11:4	5 AM														
11:45 AM	0	0	19	0	19	2	0	0	0	2	23	58	3	0	84	0	93	0	0	93	198
12:00 PM	0	0	17	0	17	4	0	0	0	4	22	92	0	0	114	0	85	0	0	85	220
12:15 PM	0	0	33	0	33	5	0	1	0	6	24	69	4	0	97	0	77	0	0	77	213
12:30 PM	0	0	26	0	26	2	0	2	0	4	7	76	3	0	86	1	63	0	0	64	180
Total Volume	0	0	95	0	95	13	0	3	0	16	76	295	10	0	381	1	318	0	0	319	811
% App. Total	0	0	100	0		81.2	0	18.8	0		19.9	77.4	2.6	0		0.3	99.7	0	0		
PHF	.000	.000	.720	.000	.720	.650	.000	.375	.000	.667	.792	.802	.625	.000	.836	.250	.855	.000	.000	.858	.922
Passenger Vehicles	0	0	92	0	92	13	0	3	0	16	71	284	10	0	365	1	301	0	0	302	775
% Passenger Vehicles	0	0	96.8	0	96.8	100	0	100	0	100	93.4	96.3	100	0	95.8	100	94.7	0	0	94.7	95.6
Trucks	0	0	2	0	2	0	0	0	0	0	0	11	0	0	11	0	17	0	0	17	30
% Trucks	0	0	2.1	0	2.1	0	0	0	0	0	0	3.7	0	0	2.9	0	5.3	0	0	5.3	3.7
Buses	0	0	1	0	1	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	6
% Buses	0	0	1.1	0	1.1	0	0	0	0	0	6.6	0	0	0	1.3	0	0	0	0	0	0.7





520 South Main Street, Suite 2531 Akron, OH 44311 Telephone: (330) 572-2100

State Road / Quick Road (South) Intersection

Project Number: 2023050.21 File Name : 9-State and Quick (South) 083023

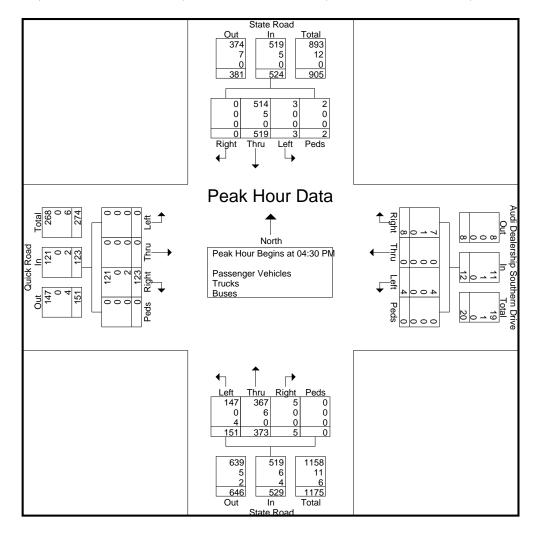
Project Name: Traffic Study

Project Location: Cuyahoga Falls, OH

Site Code : 69013050

Start Date : 8/30/2023

			ick R stbo				Sout		ersh Driv und	•			ate R	oad ound				ate R uthbo			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour	Analys	sis Fro	om 04	:30 PN	∕I to 05:	:15 PN	1 - Pe	ak 1 o	f 1												
Peak Hour	for En	tire In	tersec	tion B	egins a	t 04:3	0 PM														
04:30 PM	0	0	62	0	62	0	0	2	0	2	34	95	1	0	130	1	135	0	0	136	330
04:45 PM	0	0	29	0	29	2	0	3	0	5	31	84	3	0	118	0	115	0	0	115	267
05:00 PM	0	0	19	0	19	1	0	3	0	4	33	112	1	0	146	2	133	0	2	137	306
05:15 PM	0	0	13	0	13	1	0	0	0	1_	53	82	0	0	135	0	136	0	0	136	285
Total Volume	0	0	123	0	123	4	0	8	0	12	151	373	5	0	529	3	519	0	2	524	1188
% App. Total	0	0	100	0		33.3	0	66.7	0		28.5	70.5	0.9	0		0.6	99	0	0.4		
PHF	.000	.000	.496	.000	.496	.500	.000	.667	.000	.600	.712	.833	.417	.000	.906	.375	.954	.000	.250	.956	.900
Passenger Vehicles	0	0	121	0	121	4	0	7	0	11	147	367	5	0	519	3	514	0	2	519	1170
% Passenger Vehicles	0	0	98.4	0	98.4	100	0	87.5	0	91.7	97.4	98.4	100	0	98.1	100	99.0	0	100	99.0	98.5
Trucks	0	0	0	0	0	0	0	1	0	1	0	6	0	0	6	0	5	0	0	5	12
% Trucks	0	0	0	0	0	0	0	12.5	0	8.3	0	1.6	0	0	1.1	0	1.0	0	0	1.0	1.0
Buses	0	0	2	0	2	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	6
% Buses	0	0	1.6	0	1.6	0	0	0	0	0	2.6	0	0	0	0.8	0	0	0	0	0	0.5



APPENDIX B
TFMS OUTPUT



TFMS - Segment Forecast Report

Username	Email	Script Import Date	Script Version	Model Version
Kevin.Westbrooks	kwestbrooks@gpdgroup.com	4/14/2020 5:30:19 PM	2020.001	2023.1900

Forecast Summary

Project ID	Project Name	Opening Year	Design Year
		2028	2048

Project Description

*Users of this data need to be aware that there are limitations to the forecasts generated by this product that make it suitable only for roadway design projects which are low risk.

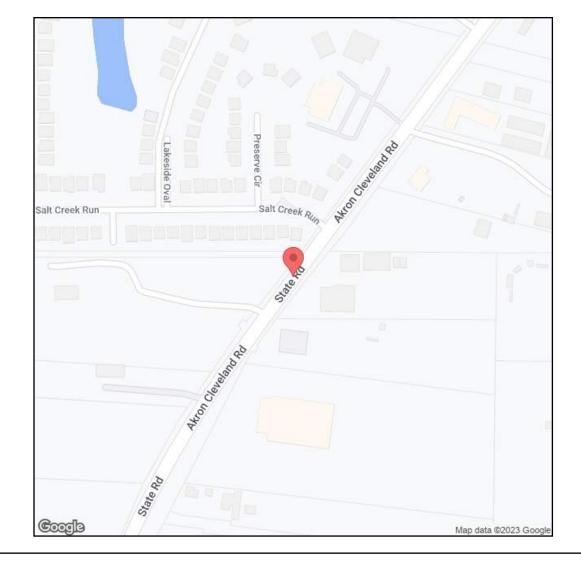
Segment Information

Segment ID	LRS ID	ВМР	EMP	Length	Latitude	Longitude
1807525	CSUMCR00016**C	5.920	7.200	1.280	-81.5027851039169	41.1954114611851

Forecast Information

Segment ID	2028 AADT	2048 AADT	DHV-30	K%	D%	T24%	TD%
1807525	11,000	14,000	2,000	14.4	60.0	2	1

Generated 9/19/2023 at 03:40:29PM Page 1 of 5



Definitions:

- o AADT Annual Average Daily Traffic
 o DHV30 Design Hour Volume for 30th highest hour of the year
 o DHV30 K * AADT

- K % Design Hour Factor
 D % Peak Direction Factor
 T24 % Percent Daily Trucks
 TD % Percent Design Hour Trucks

Page 2 of 5 Generated 9/19/2023 at 03:40:29PM

Forecast Segment ID	Route	ВМР	EMP
1807525	CSUMCR00016**C	5.920	7.200

			Forecast			
Year	K%	T24 % (Existing)	PA AADT	PA Method	PA Growth Rate %	PA Calculated Rate %
2050	♦ 14.4	3	14,000	Average	1.500	1.500
AADT	D%	TD % (Existing)	BC AADT	BC Method	BC Growth Rate %	BC Calculated Rate %
14,330	6 0.0	2	330	Average	- 1.700	0.000

Warning: The growth rate was negative and was capped.

K/D factors from TCDS were used.

	Regre	ssion										
Method Number	PA AADT	BC AADT	AADT									
2 20,154 -88 20,066												

95% Confidence Min/Max

PA Min		PA Max		BC Min			BC Max	Y	'ear	
-3858		47329		-3341			1403	2050		
Method Number	PA Growth %	% BC Growth % PA Drop 0		Count BC Drop Count		A AADT	BC AADT	PA Adjustment	PA Adjustment	
1	4.38	-7.58 0		0		22,813 -339		22,062	-370	

1	4.38	-7.58	0	0	22,813	-339	22,062	-370
2	3.70	-4.52	3	2	20,088	-87	20,154	-88
3	4.14	-19.84	0	0	22,087	-1,553	21,384	-1,503
4	-999999.00	-999999.00	0	0				
5	-999999.00	-999999.00	0	0				
6	-999999.00	-999999.00	0	0				

Generated 9/19/2023 at 03:40:29PM Page 3 of 5

			Adjus	tment Info			
ID	Adjustment Methods Name	Model vs Count AADT	Adjusted AADT	Model vs Count BC	Adjusted BC	PA Growth Rate %	BC Growth Rate %
1	DIF	1,182	8,443	58	420	-0.68	0.97
2	RAT	1.13	8,209	1.21	439	-0.77	1.18
3	MRAT	0.80	8,209	1.33	434	-0.77	1.13
4	RAF		8,326		427	-0.72	1.05

Adjust Method AADT	Adjust Method BC	
Average	Average	

Selected PA Growth	Selected BC Growth
Rate %	Rate %
-0.700	1.100

Method 1 - 4 Volume

PA Min Volume	PA Max Volume	BC Min Volume	BC Max Volume	Total Min Volume	Total MaxVolume
7770	8023	420	439	8190	8462

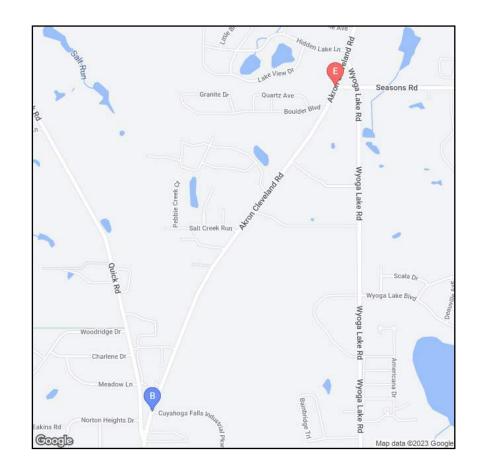
Process Flag: Comment: Adjusted model to counts with process per ODOT 255 spreadsheet

No Comment

Historical Count								
Year	All	Cars	Trucks					
2013	7,141	6,675	465					
2016	8,168	7,444	723					
2019	11,160	10,783	377					
* 2022	10,234	9,904	330					

^{*} Pivot Point

Generated 9/19/2023 at 03:40:29PM Page 4 of 5

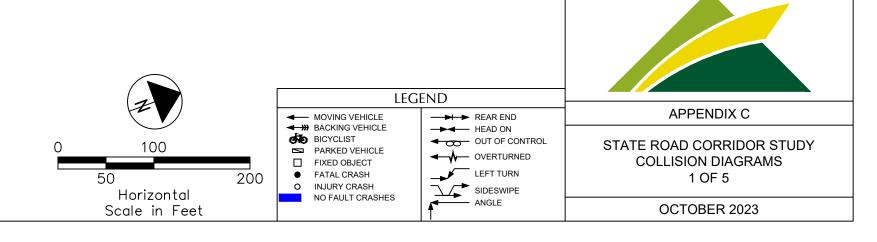


Segment ID	LRS ID	BMP	EMP	Length	Yr 2028 AADT	Yr 2048 AADT	DHV30	K %	D %	T24 %	TD %
1807525	CSUMCR00016**C	5.920	7.200	1.280	11,000	14,000	2000	14.4	60.0	2	1

Generated 9/19/2023 at 03:40:29PM Page 5 of 5

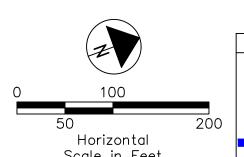
APPENDIX C COLLISION DIAGRAMS





Drawing File: C:\Users\ntabanja\AppData\Local\Temp\AcPublish_22008\Grash Diagrams.dwg Layout: 1 of 5 Date: Oct 31, 2023 Time: 1:16 pm Twist: -1.57079633

echnician: ntabania



MOVING VEHICLE
BACKING VEHICLE
BICYCLIST
PARKED VEHICLE
FIXED OBJECT FATAL CRASH INJURY CRASH NO FAULT CRASHES

LEGEND ◆ OUT OF CONTROL **←** ✓ OVERTURNED LEFT TURN
SIDESWIPE

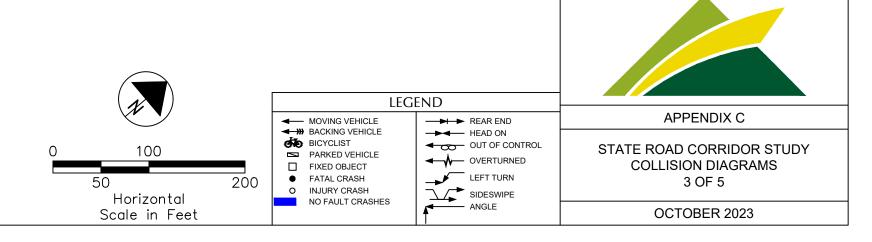


STATE ROAD CORRIDOR STUDY COLLISION DIAGRAMS 2 OF 5

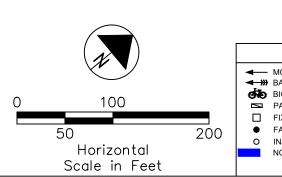
OCTOBER 2023

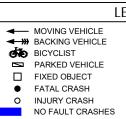
Horizontal Scale in Feet

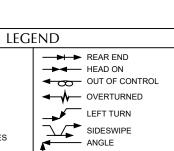


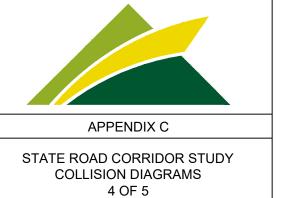


Drawing File: C: \Users\ntabanja\AppData\Local\Temp\AcPublish_22008\Crash Diagrams.dwg Layout: 3 c Date: Oct 31, 2023 Time: 1:17 pm Twist: -1.57079633







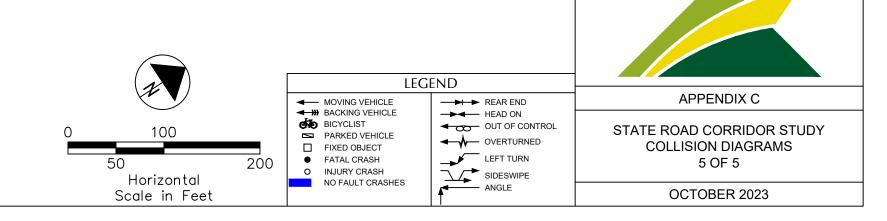


OCTOBER 2023

iii Oct 31, 2023 Time: 1:17 pm

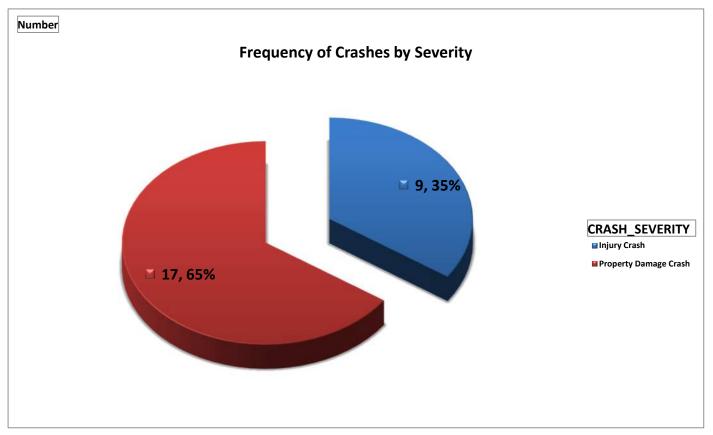
Technician: ntabania

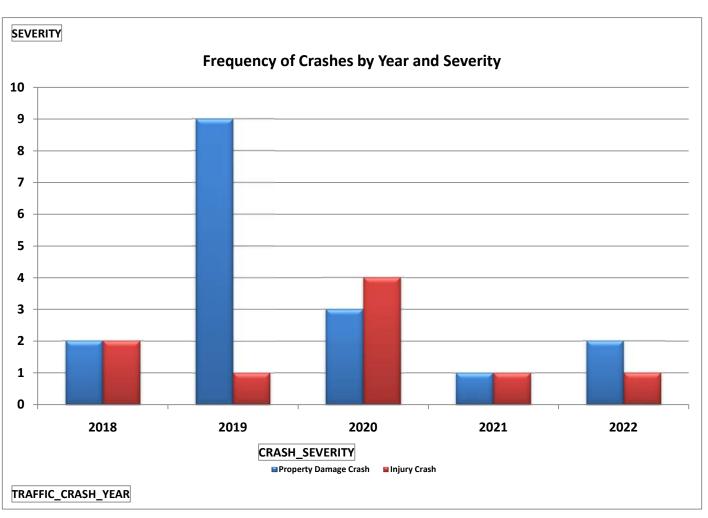


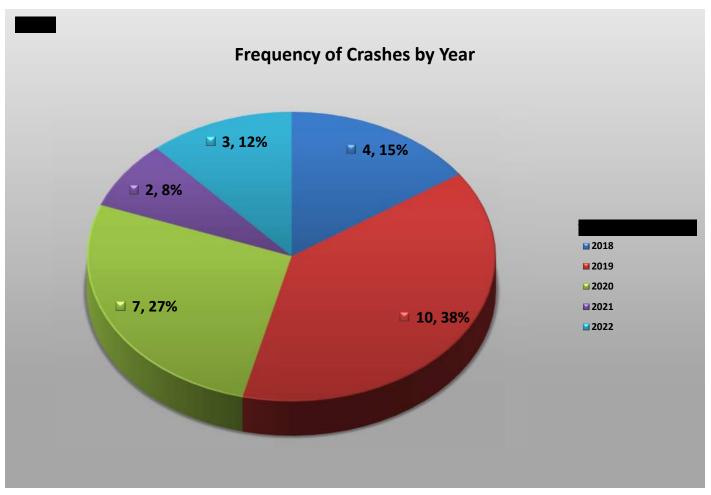


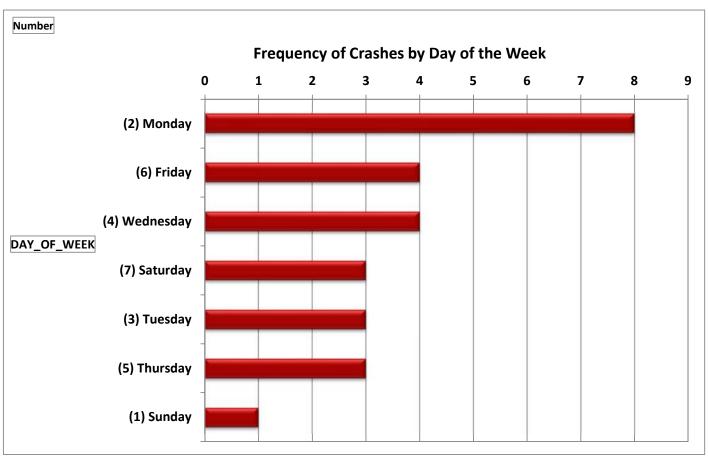
Drowing File: C: \Users\ntabonia\\ppdata\local\emp\Actubisn_ZZUUB\uxers\ntabonia\argumenay Layout: 5 o Date: Oct 31, 2023 Time: 1:17 pm Twist: -1:57079633

APPENDIX D CRASH DATA SUMMARY AND CHARTS

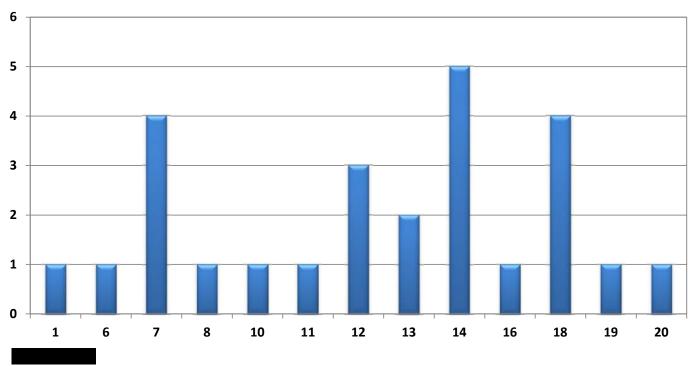


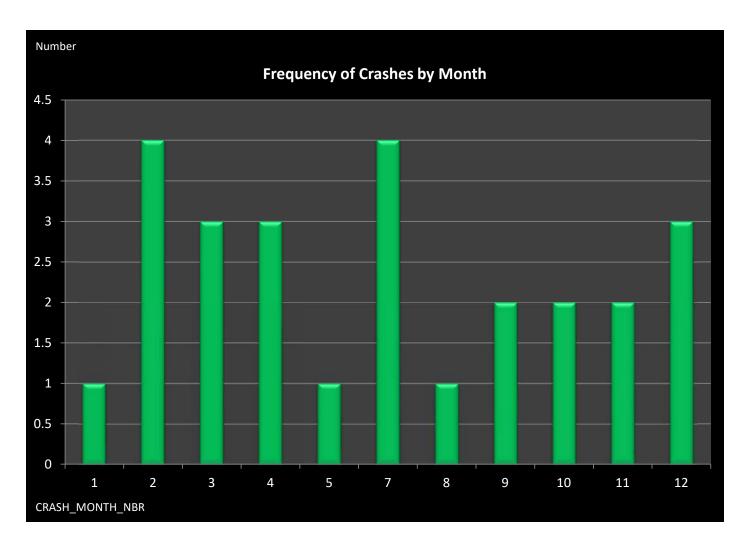


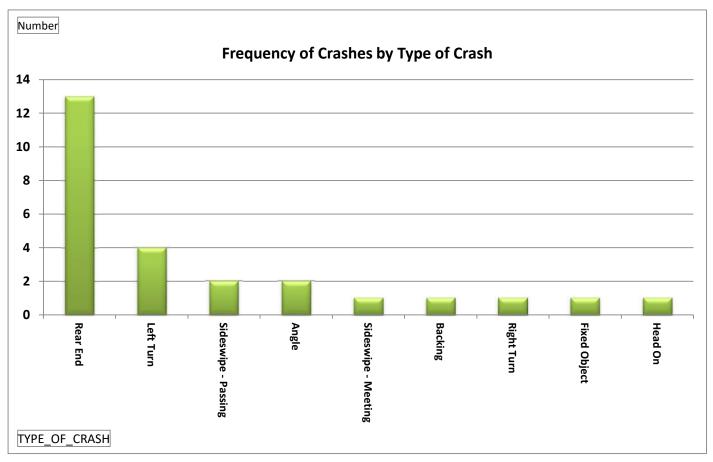


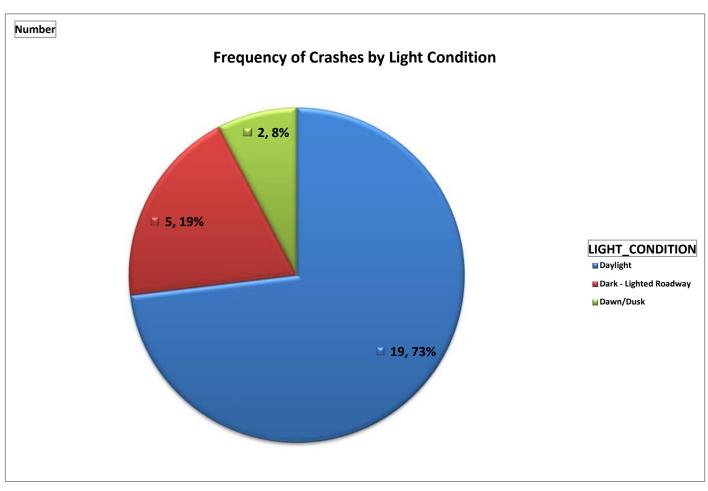


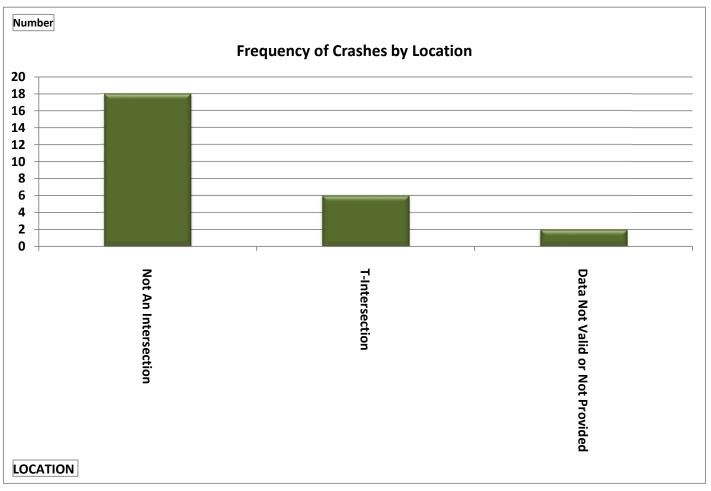


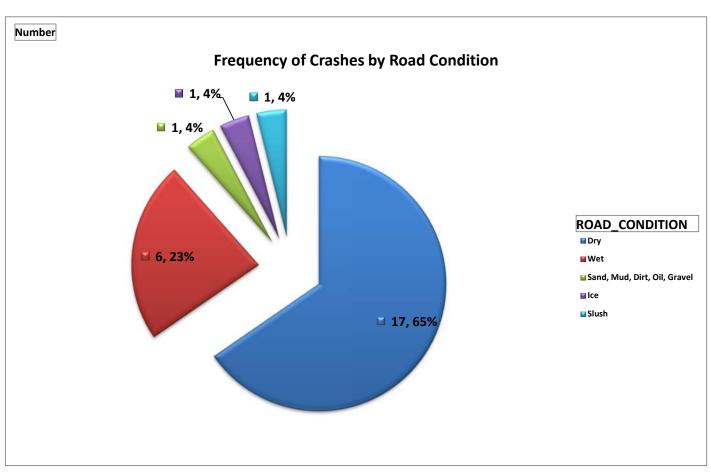


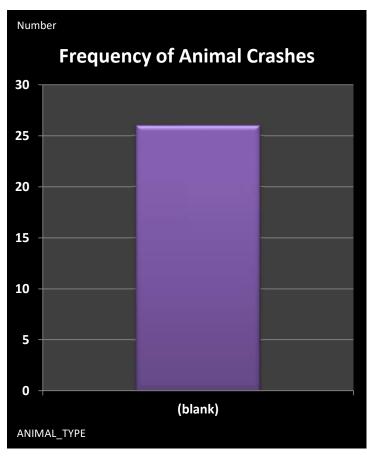


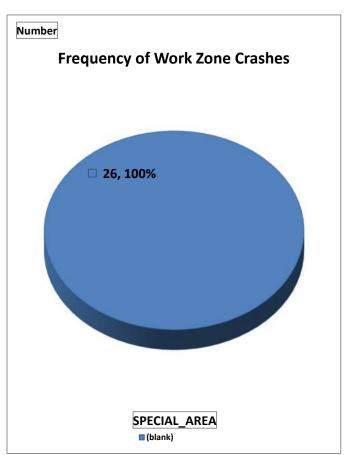


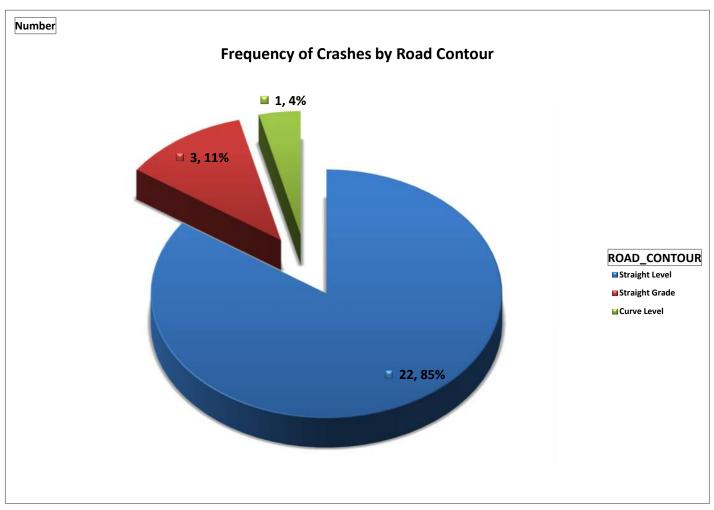




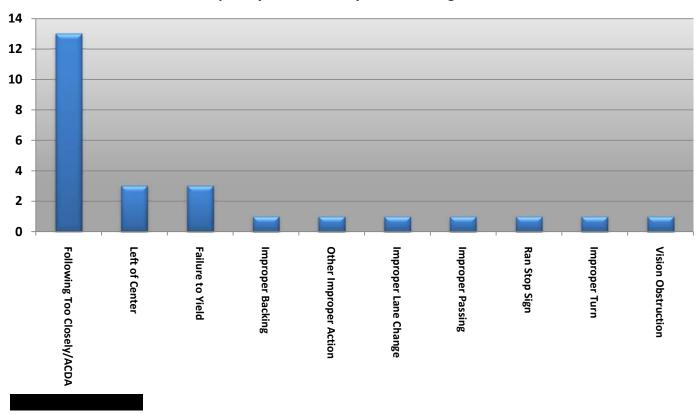


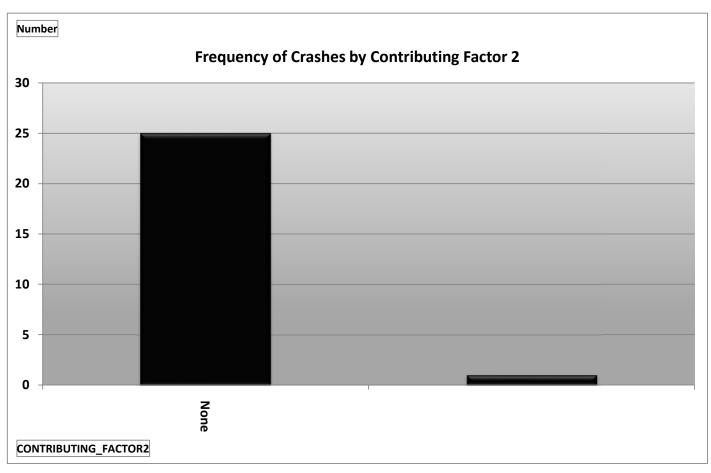




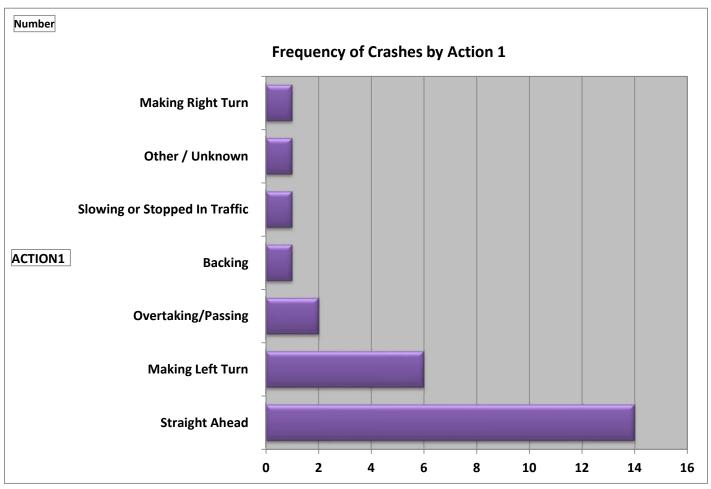


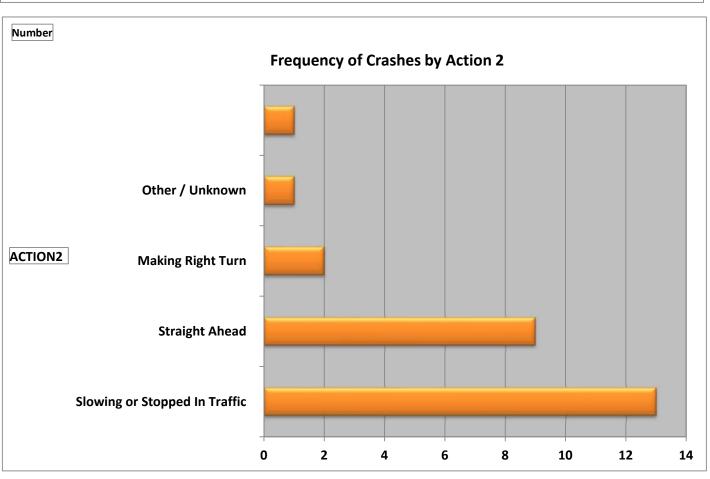




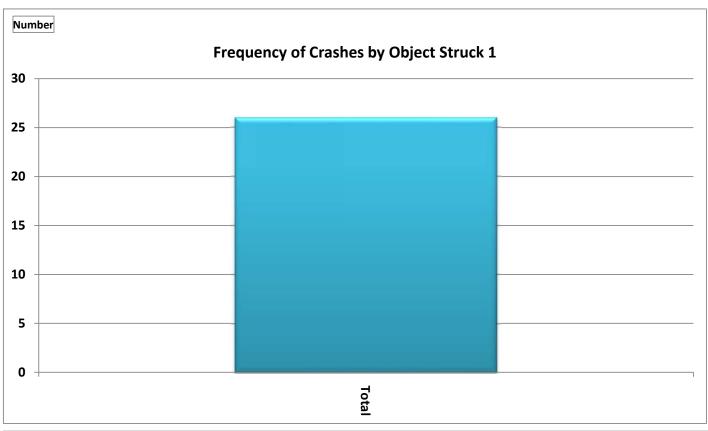


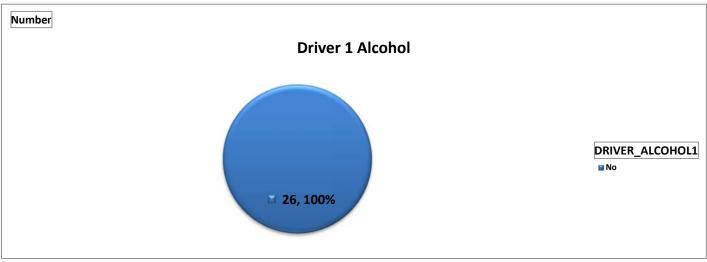
State Road Corridor Study





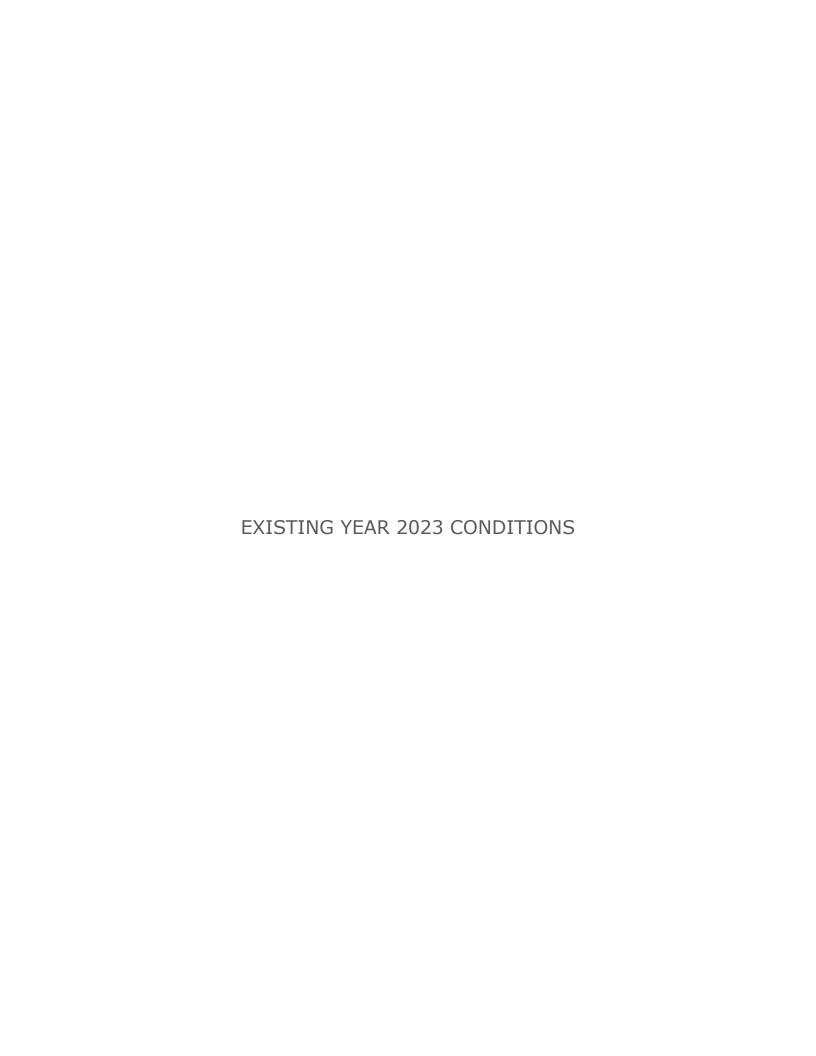
State Road Corridor Study







APPENDIX E TRAFFIC SIGNAL WARRANT ANALYSIS



520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 1-State Road Boulder

Study Date: 9/21/2023

Signal Warrants - Summary

Major Street Approaches

Northbound: State Rd Number of Lanes: 1

Total Approach Volume: 4,334

Southbound: State Rd Number of Lanes:1

Total Approach Volume: 4,297

Minor Street Approaches

Eastbound: Boulder Blvd Number of Lanes:1

Total Approach Volume: 281

Westbound: N/A Number of Lanes:1

Total Approach Volume: 1

Warrant Summary	(Urban Values Apply)
Warrant Guinnary	

Warrant 1 - Eight Hour Vehicular Volumes..... Warrant 1A - Minimum Vehicular Volume......Not Satisfied Required volumes reached for 0 hours, 8 are needed Warrant 1B - Interruption of Continuous Traffic......Not Satisfied Required volumes reached for 0 hours, 8 are needed Required 1A volumes reached for 0 hours, 8 are needed Required 1B volumes reached for 0 hours, 8 are needed Number of hours (0) volumes exceed minimum < minimum required (4). Warrant 3A - Peak Hour Delay......Not Satisfied Total approach volumes and delays on minor street do not exceed minimums for any one hour period. Volumes do not exceed minimums for any one hour period.

Warrant 6 - Coordinated Signal System......Not Evaluated

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 1-State Road_Boulder

Study Date: 9/21/2023 Warrant 1A - Minimum Volumes

Description

Intended for sites where the volume of intersecting traffic is the principal reason for consideration of a signal installation.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

Volume Requirements

Veh/Hr Major = 500

		ajor Ro State R					r Road <mark>ler Blvd</mark>		
Time	Major NB	+	Major SB	=	Total	Minor EB		linor WB	Met?
16:45 - 17:45	456	+	613	=	1069	34		0	No
16:30 - 17:30	457	+	609	=	1066	32		0	No
16:15 - 17:15	451	+	575	=	1026	35		0	No
17:00 - 18:00	431	+	585	=	1016	39		0	No
15:45 - 16:45	439	+	531	=	970	27		0	No
16:00 - 17:00	423	+	543	=	966	33		0	No
15:15 - 16:15	470	+	481	=	951	24		0	No
15:30 - 16:30	457	+	491	=	948	27		0	No
17:15 - 18:15	379	+	551	=	930	36		0	No
15:00 - 16:00	466	+	460	=	926	21		0	No
14:45 - 15:45	455	+	402	=	857	17		0	No
17:30 - 18:30	343	+	504	=	847	38		0	No
07:45 - 08:45	468	+	358	=	826	32		0	No
07:15 - 08:15	516	+	308	=	824	41		0	No
07:30 - 08:30	481	+	331	=	812	42		0	No
14:30 - 15:30	421	+	372	=	793	14		0	No
07:00 - 08:00	495	+	296	=	791	44		0	No
14:15 - 15:15	408	+	351	=	759	12		0	No
17:45 - 18:45	306	+	449	=	755	37		0	No
14:00 - 15:00	393	+	332	=	725	11		0	No
13:45 - 14:45	377	+	330	=	707	15		0	No
08:00 - 09:00	408	+	298	=	706	26		0	No
13:30 - 14:30	358	+	344	=	702	17		0	No
18:00 - 19:00	288	+	404	=	692	22		0	No
08:15 - 09:15	392		291		683	23		0	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 1-State Road_Boulder

Study Date : 9/21/2023

Warrant 1B - Interruption of Continuous Traffic

Description

Intended for sites where the volume of the major street is so heavy that traffic on the minor street suffers excessive delay or hazard.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

Volume Requirements

Veh/Hr Major = 750

		ajor Ro State F					or Road der Blvd	
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:45 - 17:45	456	+	613	=	1069	34	0	No
16:30 - 17:30	457	+	609	=	1066	32	0	No
16:15 - 17:15	451	+	575	=	1026	35	0	No
17:00 - 18:00	431	+	585	=	1016	39	0	No
15:45 - 16:45	439	+	531	=	970	27	0	No
16:00 - 17:00	423	+	543	=	966	33	0	No
15:15 - 16:15	470	+	481	=	951	24	0	No
15:30 - 16:30	457	+	491	=	948	27	0	No
17:15 - 18:15	379	+	551	=	930	36	0	No
15:00 - 16:00	466	+	460	=	926	21	0	No
14:45 - 15:45	455	+	402	=	857	17	0	No
17:30 - 18:30	343	+	504	=	847	38	0	No
07:45 - 08:45	468	+	358	=	826	32	0	No
07:15 - 08:15	516	+	308	=	824	41	0	No
07:30 - 08:30	481	+	331	=	812	42	0	No
14:30 - 15:30	421	+	372	=	793	14	0	No
07:00 - 08:00	495	+	296	=	791	44	0	No
14:15 - 15:15	408	+	351	=	759	12	0	No
17:45 - 18:45	306	+	449	=	755	37	0	No
14:00 - 15:00	393	+	332	=	725	11	0	No
13:45 - 14:45	377	+	330	=	707	15	0	No
08:00 - 09:00	408	+	298	=	706	26	0	No
13:30 - 14:30	358	+	344	=	702	17	0	No
18:00 - 19:00	288	+	404	=	692	22	0	No
08:15 - 09:15	392		291		683	23	0	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 1-State Road_Boulder

Study Date : 9/21/2023

Warrant 1C Combination of Warrants

Description

Intended for sites where the traffic volumes don't meet individual warrants but where Warrants 1A and 1B are both met to 80% of their stated values.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 hours meet 1A minimums. Only 0 hours meet 1B minimums. Warrant is NOT met.

Volume Requirements

Warrant 1A 1B Veh/Hr Major = **400 600**

Veh/Hr Minor = **120 60**

Major Road State Rd

Minor Road Boulder Blvd

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:45 - 17:45	456	+	613	=	1069	34	0	No
16:30 - 17:30	457	+	609	=	1066	32	0	No
16:15 - 17:15	451	+	575	=	1026	35	0	No
17:00 - 18:00	431	+	585	=	1016	39	0	No
15:45 - 16:45	439	+	531	=	970	27	0	No
16:00 - 17:00	423	+	543	=	966	33	0	No
15:15 - 16:15	470	+	481	=	951	24	0	No
15:30 - 16:30	457	+	491	=	948	27	0	No
17:15 - 18:15	379	+	551	=	930	36	0	No
15:00 - 16:00	466	+	460	=	926	21	0	No
14:45 - 15:45	455	+	402	=	857	17	0	No
17:30 - 18:30	343		504		847	38	0	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
16:45 - 17:45	456	+	613	=	1069	34	0	No
16:30 - 17:30	457	+	609	=	1066	32	0	No
16:15 - 17:15	451	+	575	=	1026	35	0	No
17:00 - 18:00	431	+	585	=	1016	39	0	No
15:45 - 16:45	439	+	531	=	970	27	0	No
16:00 - 17:00	423	+	543	=	966	33	0	No
15:15 - 16:15	470	+	481	=	951	24	0	No
15:30 - 16:30	457	+	491	=	948	27	0	No
17:15 - 18:15	379	+	551	=	930	36	0	No
15:00 - 16:00	466	+	460	=	926	21	0	No
14:45 - 15:45	455	+	402	=	857	17	0	No
17:30 - 18:30	343		504		847	38	0	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 1-State Road_Boulder

Study Date : 9/21/2023

Warrant 2 - Four Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during any four hours of the day is the principal reason for consideration of a signal installation.

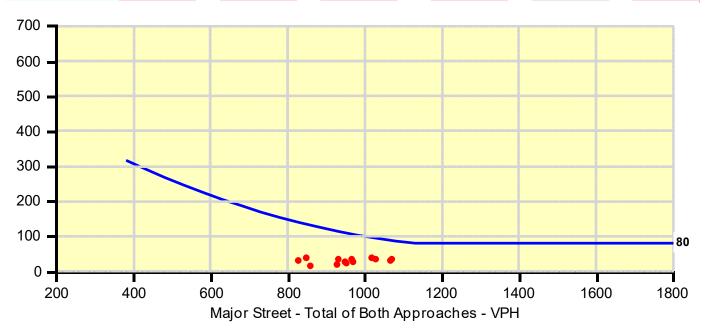
Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

		ajor Ro State F				Mino Bould			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB		Met?
16:45 - 17:45	456	+	613	=	1069	34	0		No
16:30 - 17:30	457	+	609	=	1066	32	0		No
16:15 - 17:15	451	+	575	=	1026	35	0		No
17:00 - 18:00	431	+	585	=	1016	39	0		No
15:45 - 16:45	439	+	531	=	970	27	0		No
16:00 - 17:00	423	+	543	=	966	33	0		No
15:15 - 16:15	470	+	481	=	951	24	0		No
15:30 - 16:30	457	+	491	=	948	27	0		No
17:15 - 18:15	379	+	551	=	930	36	0		No
15:00 - 16:00	466	+	460	=	926	21	0		No
14:45 - 15:45	455	+	402	=	857	17	0		No



GPD Group 520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 1-State Road_Boulder

Study Date : 9/21/2023

Warrant 3A - Peak Hour Delay

Description

Intended for sites where for one hour of the day minor street traffic suffers undue traffic delay entering or crossing the major street.

Site Data Required

Number of Minor Lanes =1

Summary

17 one hour periods meet minimums. Warrant is NOT met.

Volume and Delay Requirements Veh/Hr All Approaches = 800

Veh/Hr All Approaches = **800** Veh/Hr Minor = **100** Total Delay (Veh-Hrs) = **4**

Major Road	
State Rd	

Minor Road Boulder Blvd

Time	Total of All Approaches	Met?	Minor EB	Delay EB	Met?	Minor WB	Delay WB	Met?	Warrant Met?
16:45 - 17:45	1103	Yes	34	0.0	No	0	0.0		No
16:30 - 17:30	1098	Yes	32	0.0	No	0	0.0		No
16:15 - 17:15	1061	Yes	35	0.0	No	0	0.0		No
17:00 - 18:00	1055	Yes	39	0.0	No	0	0.0		No
16:00 - 17:00	999	Yes	33	0.0	No	0	0.0		No
15:45 - 16:45	997	Yes	27	0.0	No	0	0.0		No
15:15 - 16:15	975	Yes	24	0.0	No	0	0.0		No
15:30 - 16:30	975	Yes	27	0.0	No	0	0.0		No
17:15 - 18:15	966	Yes	36	0.0	No	0	0.0		No
15:00 - 16:00	947	Yes	21	0.0	No	0	0.0		No
17:30 - 18:30	885	Yes	38	0.0	No	0	0.0		No
14:45 - 15:45	874	Yes	17	0.0	No	0	0.0		No
07:15 - 08:15	865	Yes	41	0.0	No	0	0.0		No
07:45 - 08:45	858	Yes	32	0.0	No	0	0.0		No
07:30 - 08:30	854	Yes	42	0.0	No	0	0.0		No
07:00 - 08:00	835	Yes	44	0.0	No	0	0.0		No
14:30 - 15:30	807	Yes	14	0.0	No	0	0.0		No
17:45 - 18:45	792	No	37	0.0	No	0	0.0		No
14:15 - 15:15	771	No	12	0.0	No	0	0.0		No
14:00 - 15:00	736	No	11	0.0	No	0	0.0		No
08:00 - 09:00	732	No	26	0.0	No	0	0.0		No
13:45 - 14:45	722	No	15	0.0	No	0	0.0		No
13:30 - 14:30	719	No	17	0.0	No	0	0.0		No
18:00 - 19:00	714	No	22	0.0	No	0	0.0		No
08:15 - 09:15	706	No	23	0.0	No	0	0.0		No

GPD Group 520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 1-State Road_Boulder

Study Date : 9/21/2023

Warrant 3B - Peak Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during one hour of the day is the principal reason for consideration of a signal installation.

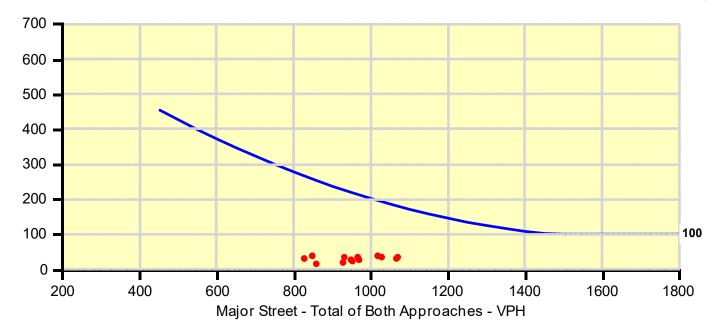
Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

		ajor Ro State F				Minor Road Boulder Blvd			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB		Met?
16:45 - 17:45	456	+	613	=	1069	34	0		No
16:30 - 17:30	457	+	609	=	1066	32	0		No
16:15 - 17:15	451	+	575	=	1026	35	0		No
17:00 - 18:00	431	+	585	=	1016	39	0		No
15:45 - 16:45	439	+	531	=	970	27	0		No
16:00 - 17:00	423	+	543	=	966	33	0		No
15:15 - 16:15	470	+	481	=	951	24	0		No
15:30 - 16:30	457	+	491	=	948	27	0		No
17:15 - 18:15	379	+	551	=	930	36	0		No
15:00 - 16:00	466	+	460	=	926	21	0		No
14:45 - 15:45	455	+	402	=	857	17	0		No



520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 2-State Rd_Falls Commerce Pkwy

Study Date : 9/21/2023

Signal Warrants - Summary

Major Street Approaches

Northbound: State Rd Number of Lanes: 1

Total Approach Volume: 4,047

Southbound: State Rd Number of Lanes :1

Total Approach Volume: 3,828

Minor Street Approaches

Eastbound: Private Drive Number of Lanes :1

Total Approach Volume: 18

Westbound: Falls Commerce Pkwy

Number of Lanes:1

Total Approach Volume: 92

Warrant Summary (Urban Values Apply)
Warrant 1 - Eight Hour Vehicular VolumesNot Satisfied
Warrant 1A - Minimum Vehicular Volume
Warrant 1B - Interruption of Continuous Traffic
Warrant 1C - Combination of Warrants
Warrant 2 - Four Hour Volumes
Warrant 3 - Peak HourNot Satisfied
Warrant 3A - Peak Hour Delay
Warrant 3B - Peak Hour Volumes
Warrant 4 - Pedestrian VolumesNot Evaluated
Warrant 5 - School CrossingNot Evaluated
Warrant 6 - Coordinated Signal SystemNot Evaluated
Warrant 7 - Crash ExperienceNot Evaluated

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 2-State Rd_Falls Commerce Pkwy

Study Date : 9/21/2023

Warrant 1A - Minimum Volumes

Description

Intended for sites where the volume of intersecting traffic is the principal reason for consideration of a signal installation.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

Volume Requirements

Veh/Hr Major = 500

		ajor Ro State R				Minor Private		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:30 - 17:30	486	+	556	=	1042	4	13	No
16:45 - 17:45	451	+	574	=	1025	2	9	No
16:15 - 17:15	480	+	529	=	1009	4	12	No
16:00 - 17:00	447	+	498	=	945	4	12	No
17:00 - 18:00	412	+	477	=	889	2	11	No
15:45 - 16:45	428	+	436	=	864	3	17	No
07:15 - 08:15	556	+	301	=	857	0	7	No
15:30 - 16:30	412	+	421	=	833	1	17	No
07:00 - 08:00	543	+	283	=	826	0	8	No
07:30 - 08:30	491	+	320	=	811	0	6	No
15:15 - 16:15	407	+	394	=	801	0	18	No
17:15 - 18:15	361	+	432	=	793	3	5	No
07:45 - 08:45	435	+	344	=	779	0	3	No
15:00 - 16:00	383	+	380	=	763	0	15	No
14:45 - 15:45	387	+	371	=	758	0	13	No
14:30 - 15:30	374	+	349	=	723	0	9	No
08:00 - 09:00	396	+	308	=	704	0	3	No
14:15 - 15:15	340	+	350	=	690	0	11	No
17:30 - 18:30	305	+	385	=	690	3	5	No
14:00 - 15:00	356	+	326	=	682	0	9	No
08:15 - 09:15	365	+	287	=	652	0	3	No
13:45 - 14:45	336	+	277	=	613	0	7	No
08:30 - 09:30	339	+	269	=	608	1	4	No
17:45 - 18:45	260	+	328	=	588	4	3	No
13:30 - 14:30	319		260		579	1	5	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 2-State Rd_Falls Commerce Pkwy

Study Date : 9/21/2023

Warrant 1B - Interruption of Continuous Traffic

Description

Intended for sites where the volume of the major street is so heavy that traffic on the minor street suffers excessive delay or hazard.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

Volume Requirements

Veh/Hr Major = 750

	Major Road State Rd						r Road te Drive		
Time	Major NB	+	Major SB	=	Total	Minor EB		Minor WB	Met?
16:30 - 17:30	486	+	556	=	1042	4		13	No
16:45 - 17:45	451	+	574	=	1025	2		9	No
16:15 - 17:15	480	+	529	=	1009	4		12	No
16:00 - 17:00	447	+	498	=	945	4		12	No
17:00 - 18:00	412	+	477	=	889	2		11	No
15:45 - 16:45	428	+	436	=	864	3		17	No
07:15 - 08:15	556	+	301	=	857	0		7	No
15:30 - 16:30	412	+	421	=	833	1		17	No
07:00 - 08:00	543	+	283	=	826	0		8	No
07:30 - 08:30	491	+	320	=	811	0		6	No
15:15 - 16:15	407	+	394	=	801	0		18	No
17:15 - 18:15	361	+	432	=	793	3		5	No
07:45 - 08:45	435	+	344	=	779	0		3	No
15:00 - 16:00	383	+	380	=	763	0		15	No
14:45 - 15:45	387	+	371	=	758	0		13	No
14:30 - 15:30	374	+	349	=	723	0		9	No
08:00 - 09:00	396	+	308	=	704	0		3	No
14:15 - 15:15	340	+	350	=	690	0		11	No
17:30 - 18:30	305	+	385	=	690	3		5	No
14:00 - 15:00	356	+	326	=	682	0		9	No
08:15 - 09:15	365	+	287	=	652	0		3	No
13:45 - 14:45	336	+	277	=	613	0		7	No
08:30 - 09:30	339	+	269	=	608	1		4	No
17:45 - 18:45	260	+	328	=	588	4		3	No
13:30 - 14:30	319		260		579	1		5	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 2-State Rd_Falls Commerce Pkwy

Study Date : 9/21/2023

Warrant 1C Combination of Warrants

Description

Intended for sites where the traffic volumes don't meet individual warrants but where Warrants 1A and 1B are both met to 80% of their stated values.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 hours meet 1A minimums. Only 0 hours meet 1B minimums. Warrant is NOT met.

Volume Requirements

Warrant 1A 1B Veh/Hr Major = **400 600**

Veh/Hr Minor = **120 60**

Major Road State Rd

Minor Road Private Drive

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:30 - 17:30	486	+	556	=	1042	4	13	No
16:45 - 17:45	451	+	574	=	1025	2	9	No
16:15 - 17:15	480	+	529	=	1009	4	12	No
16:00 - 17:00	447	+	498	=	945	4	12	No
17:00 - 18:00	412	+	477	=	889	2	11	No
15:45 - 16:45	428	+	436	=	864	3	17	No
07:15 - 08:15	556	+	301	=	857	0	7	No
15:30 - 16:30	412	+	421	=	833	1	17	No
07:00 - 08:00	543	+	283	=	826	0	8	No
07:30 - 08:30	491	+	320	=	811	0	6	No
15:15 - 16:15	407	+	394	=	801	0	18	No
17:15 - 18:15	361		432		793	3	5	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
16:30 - 17:30	486	+	556	=	1042	4	13	No
16:45 - 17:45	451	+	574	=	1025	2	9	No
16:15 - 17:15	480	+	529	=	1009	4	12	No
16:00 - 17:00	447	+	498	=	945	4	12	No
17:00 - 18:00	412	+	477	=	889	2	11	No
15:45 - 16:45	428	+	436	=	864	3	17	No
07:15 - 08:15	556	+	301	=	857	0	7	No
15:30 - 16:30	412	+	421	=	833	1	17	No
07:00 - 08:00	543	+	283	=	826	0	8	No
07:30 - 08:30	491	+	320	=	811	0	6	No
15:15 - 16:15	407	+	394	=	801	0	18	No
17:15 - 18:15	361		432		793	3	5	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 2-State Rd_Falls Commerce Pkwy

Study Date: 9/21/2023 Warrant 2 - Four Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during any four hours of the day is the principal reason for consideration of a signal installation.

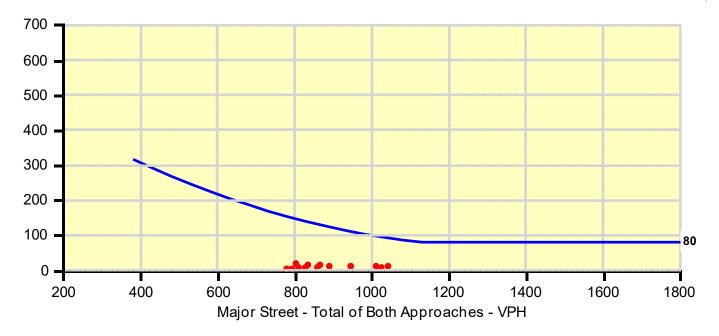
Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

	Major Road State Rd						Minor Private			
Time	Major NB	+	Major SB	=	Total		Minor EB	Minor WB		Met?
16:30 - 17:30	486	+	556	=	1042		4	13		No
16:45 - 17:45	451	+	574	=	1025		2	9		No
16:15 - 17:15	480	+	529	=	1009		4	12		No
16:00 - 17:00	447	+	498	=	945		4	12		No
17:00 - 18:00	412	+	477	=	889		2	11		No
15:45 - 16:45	428	+	436	=	864		3	17		No
07:15 - 08:15	556	+	301	=	857		0	7		No
15:30 - 16:30	412	+	421	=	833		1	17		No
07:00 - 08:00	543	+	283	=	826		0	8		No
07:30 - 08:30	491	+	320	=	811		0	6		No
15:15 - 16:15	407	+	394	=	801		0	18		No



520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 2-State Rd_Falls Commerce Pkwy

Study Date : 9/21/2023

Warrant 3A - Peak Hour Delay

Description

Intended for sites where for one hour of the day minor street traffic suffers undue traffic delay entering or crossing the major street.

Site Data Required

Number of Minor Lanes =1

Summary

12 one hour periods meet minimums. Warrant is NOT met.

Volume and Delay Requirements Veh/Hr All Approaches = 800

Veh/Hr All Approaches = 800 Veh/Hr Minor = 100 Total Delay (Veh-Hrs) = 4

Major Road
State Rd

Minor Road Private Drive

Time	Total of All Approaches	Met?	Minor EB	Delay EB	Met?	Minor WB	Delay WB	Met?	Warrant Met?
16:30 - 17:30	1059	Yes	4	0.0		13	0.0	No	No
16:45 - 17:45	1036	Yes	2	0.0		9	0.0	No	No
16:15 - 17:15	1025	Yes	4	0.0		12	0.0	No	No
16:00 - 17:00	961	Yes	4	0.0		12	0.0	No	No
17:00 - 18:00	902	Yes	2	0.0		11	0.0	No	No
15:45 - 16:45	884	Yes	3	0.0		17	0.0	No	No
07:15 - 08:15	864	Yes	0	0.0		7	0.0	No	No
15:30 - 16:30	851	Yes	1	0.0		17	0.0	No	No
07:00 - 08:00	834	Yes	0	0.0		8	0.0	No	No
15:15 - 16:15	819	Yes	0	0.0		18	0.0	No	No
07:30 - 08:30	817	Yes	0	0.0		6	0.0	No	No
17:15 - 18:15	801	Yes	3	0.0		5	0.0	No	No
07:45 - 08:45	782	No	0	0.0		3	0.0	No	No
15:00 - 16:00	778	No	0	0.0		15	0.0	No	No
14:45 - 15:45	771	No	0	0.0		13	0.0	No	No
14:30 - 15:30	732	No	0	0.0		9	0.0	No	No
08:00 - 09:00	707	No	0	0.0		3	0.0	No	No
14:15 - 15:15	701	No	0	0.0		11	0.0	No	No
17:30 - 18:30	698	No	3	0.0		5	0.0	No	No
14:00 - 15:00	691	No	0	0.0		9	0.0	No	No
08:15 - 09:15	655	No	0	0.0		3	0.0	No	No
13:45 - 14:45	620	No	0	0.0		7	0.0	No	No
08:30 - 09:30	613	No	1	0.0		4	0.0	No	No
17:45 - 18:45	595	No	4	0.0	No	3	0.0		No
13:30 - 14:30	585	No	1	0.0		5	0.0	No	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 2-State Rd_Falls Commerce Pkwy

Study Date : 9/21/2023

Warrant 3B - Peak Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during one hour of the day is the principal reason for consideration of a signal installation.

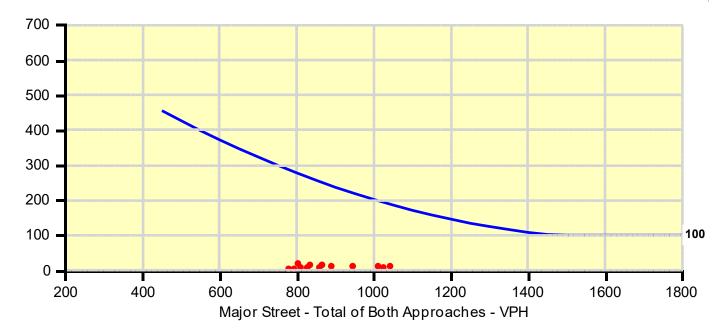
Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

	Major Road State Rd						Minor Private			
Time	Major NB	+	Major SB	=	Total		Minor EB	Minor WB		Met?
16:30 - 17:30	486	+	556	=	1042		4	13		No
16:45 - 17:45	451	+	574	=	1025		2	9		No
16:15 - 17:15	480	+	529	=	1009		4	12		No
16:00 - 17:00	447	+	498	=	945		4	12		No
17:00 - 18:00	412	+	477	=	889		2	11		No
15:45 - 16:45	428	+	436	=	864		3	17		No
07:15 - 08:15	556	+	301	=	857		0	7		No
15:30 - 16:30	412	+	421	=	833		1	17		No
07:00 - 08:00	543	+	283	=	826		0	8		No
07:30 - 08:30	491	+	320	=	811		0	6		No
15:15 - 16:15	407	+	394	=	801		0	18		No



520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 3-State Rd_Buckeye Drive_Storr-it Drive

Study Date : 9/21/2023

Signal Warrants - Summary

Major Street Approaches Northbound: State Rd Number of Lanes: 1	Minor Street Approaches Eastbound: Buckeye Drive Number of Lanes:1
Total Approach Volume: 4,022	Total Approach Volume: 91
Southbound: State Rd Number of Lanes :1	Westbound: Storr-it Drive Number of Lanes :1
Total Approach Volume: 3,819	Total Approach Volume: 71
Warrant Summary (Urban Values Apply) Warrant 1 - Eight Hour Vehicular Volumes	
Warrant 1A - Minimum Vehicular Volume Required volumes reached for 0 hours, 8 are needed	Not Satisfied
Warrant 1B - Interruption of Continuous Traffic	Not Satisfied
Warrant 1C - Combination of WarrantsRequired 1A volumes reached for 0 hours, 8 are needed Required 1B volumes reached for 0 hours, 8 are needed	Not Satisfied
Warrant 2 - Four Hour Volumes Number of hours (0) volumes exceed minimum < minimum require	
Warrant 3 - Peak Hour	Not Satisfied
Warrant 3A - Peak Hour Delay Total approach volumes and delays on minor street do not exceed	Mot Satisfied I minimums for any one hour period.
Warrant 3B - Peak Hour Volumes Volumes do not exceed minimums for any one hour period.	Not Satisfied
Warrant 4 - Pedestrian Volumes	Not Evaluated
Warrant 5 - School Crossing	Not Evaluated
Warrant 6 - Coordinated Signal System	

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 3-State Rd_Buckeye Drive_Storr-it Drive

Study Date: 9/21/2023 Warrant 1A - Minimum Volumes

Description

Intended for sites where the volume of intersecting traffic is the principal reason for consideration of a signal installation.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

Volume Requirements

Veh/Hr Major = 500

		ajor Ro State R					Road <mark>/e Drive</mark>	
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:30 - 17:30	483	+	549	=	1032	10	5	No
16:45 - 17:45	445	+	573	=	1018	16	6	No
16:15 - 17:15	482	+	530	=	1012	13	6	No
16:00 - 17:00	443	+	501	=	944	17	8	No
17:00 - 18:00	412	+	481	=	893	12	4	No
15:45 - 16:45	435	+	441	=	876	14	7	No
07:15 - 08:15	563	+	295	=	858	4	3	No
15:30 - 16:30	407	+	430	=	837	14	9	No
07:00 - 08:00	553	+	276	=	829	2	4	No
15:15 - 16:15	391	+	416	=	807	14	8	No
07:30 - 08:30	491	+	313	=	804	4	2	No
17:15 - 18:15	354	+	433	=	787	9	7	No
07:45 - 08:45	441	+	345	=	786	4	3	No
15:00 - 16:00	385	+	401	=	786	8	8	No
14:45 - 15:45	381	+	389	=	770	9	8	No
14:30 - 15:30	375	+	361	=	736	9	8	No
08:00 - 09:00	398	+	309	=	707	3	5	No
14:15 - 15:15	355	+	337	=	692	6	6	No
17:30 - 18:30	300	+	385	=	685	8	5	No
14:00 - 15:00	353	+	314	=	667	7	9	No
08:15 - 09:15	361	+	287	=	648	1	9	No
13:45 - 14:45	333	+	273	=	606	7	8	No
08:30 - 09:30	339	+	266	=	605	3	8	No
06:45 - 07:45	408	+	171	=	579	0	3	No
17:45 - 18:45	251		324		575	0	4	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 3-State Rd_Buckeye Drive_Storr-it Drive

Study Date : 9/21/2023

Warrant 1B - Interruption of Continuous Traffic

Description

Intended for sites where the volume of the major street is so heavy that traffic on the minor street suffers excessive delay or hazard.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

Volume Requirements

Veh/Hr Major = 750

		ijor Ro tate F					or Road e <mark>ye Drive</mark>			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB		Met?	
16:30 - 17:30	483	+	549	=	1032	10	5		No	
16:45 - 17:45	445	+	573	=	1018	16	6		No	
16:15 - 17:15	482	+	530	=	1012	13	6		No	
16:00 - 17:00	443	+	501	=	944	17	8		No	
17:00 - 18:00	412	+	481	=	893	12	4		No	
15:45 - 16:45	435	+	441	=	876	14	7		No	
07:15 - 08:15	563	+	295	=	858	4	3		No	
15:30 - 16:30	407	+	430	=	837	14	9		No	
07:00 - 08:00	553	+	276	=	829	2	4		No	
15:15 - 16:15	391	+	416	=	807	14	8		No	
07:30 - 08:30	491	+	313	=	804	4	2		No	
17:15 - 18:15	354	+	433	=	787	9	7		No	
07:45 - 08:45	441	+	345	=	786	4	3		No	
15:00 - 16:00	385	+	401	=	786	8	8		No	
14:45 - 15:45	381	+	389	=	770	9	8		No	
14:30 - 15:30	375	+	361	=	736	9	8		No	
08:00 - 09:00	398	+	309	=	707	3	5		No	
14:15 - 15:15	355	+	337	=	692	6	6		No	
17:30 - 18:30	300	+	385	=	685	8	5		No	
14:00 - 15:00	353	+	314	=	667	7	9		No	
08:15 - 09:15	361	+	287	=	648	1	9		No	
13:45 - 14:45	333	+	273	=	606	7	8		No	
08:30 - 09:30	339	+	266	=	605	3	8		No	
06:45 - 07:45	408	+	171	=	579	0	3		No	
17:45 - 18:45	251		324		575	0	4		No	

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 3-State Rd_Buckeye Drive_Storr-it Drive

Study Date: 9/21/2023 Warrant 1C Combination of Warrants

Description

Intended for sites where the traffic volumes don't meet individual warrants but where Warrants 1A and 1B are both met to 80% of their stated values.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 hours meet 1A minimums. Only 0 hours meet 1B minimums. Warrant is NOT met.

Volume Requirements

Warrant 1A 1B Veh/Hr Major = **400 600**

Veh/Hr Minor = **120 60**

Major Road State Rd Minor Road

Buckeye Drive

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:30 - 17:30	483	+	549	=	1032	10	5	No
16:45 - 17:45	445	+	573	=	1018	16	6	No
16:15 - 17:15	482	+	530	=	1012	13	6	No
16:00 - 17:00	443	+	501	=	944	17	8	No
17:00 - 18:00	412	+	481	=	893	12	4	No
15:45 - 16:45	435	+	441	=	876	14	7	No
07:15 - 08:15	563	+	295	=	858	4	3	No
15:30 - 16:30	407	+	430	=	837	14	9	No
07:00 - 08:00	553	+	276	=	829	2	4	No
15:15 - 16:15	391	+	416	=	807	14	8	No
07:30 - 08:30	491	+	313	=	804	4	2	No
17:15 - 18:15	354		433		787	9	7	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
16:30 - 17:30	483	+	549	=	1032	10	5	No
16:45 - 17:45	445	+	573	=	1018	16	6	No
16:15 - 17:15	482	+	530	=	1012	13	6	No
16:00 - 17:00	443	+	501	=	944	17	8	No
17:00 - 18:00	412	+	481	=	893	12	4	No
15:45 - 16:45	435	+	441	=	876	14	7	No
07:15 - 08:15	563	+	295	=	858	4	3	No
15:30 - 16:30	407	+	430	=	837	14	9	No
07:00 - 08:00	553	+	276	=	829	2	4	No
15:15 - 16:15	391	+	416	=	807	14	8	No
07:30 - 08:30	491	+	313	=	804	4	2	No
17:15 - 18:15	354		433		787	9	7	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 3-State Rd_Buckeye Drive_Storr-it Drive

Study Date: 9/21/2023 Warrant 2 - Four Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during any four hours of the day is the principal reason for consideration of a signal installation.

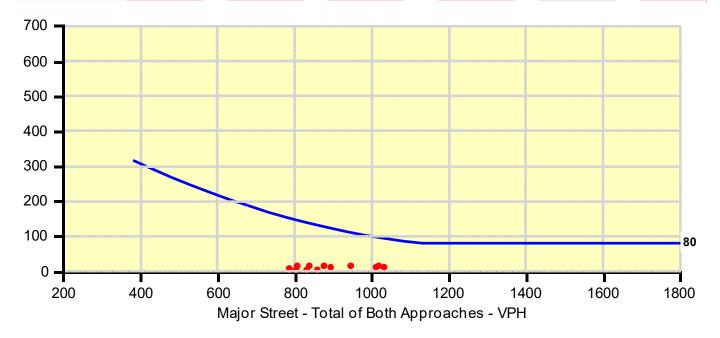
Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

		ijor R <mark>tate F</mark>				Mino Bucke			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB		Met?
16:30 - 17:30	483	+	549	=	1032	10	5		No
16:45 - 17:45	445	+	573	=	1018	16	6		No
16:15 - 17:15	482	+	530	=	1012	13	6		No
16:00 - 17:00	443	+	501	=	944	17	8		No
17:00 - 18:00	412	+	481	=	893	12	4		No
15:45 - 16:45	435	+	441	=	876	14	7		No
07:15 - 08:15	563	+	295	=	858	4	3		No
15:30 - 16:30	407	+	430	=	837	14	9		No
07:00 - 08:00	553	+	276	=	829	2	4		No
15:15 - 16:15	391	+	416	=	807	14	8		No
07:30 - 08:30	491	+	313	=	804	4	2		No



520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 3-State Rd_Buckeye Drive_Storr-it Drive

Study Date: 9/21/2023 Warrant 3A - Peak Hour Delay

Description

Intended for sites where for one hour of the day minor street traffic suffers undue traffic delay entering or crossing the major street.

Site Data Required

Number of Minor Lanes =1

Summary

13 one hour periods meet minimums. Warrant is NOT met.

Volume and Delay Requirements Veh/Hr All Approaches = 800

Veh/Hr All Approaches = 800 Veh/Hr Minor = 100 Total Delay (Veh-Hrs) = 4

Majay Dand	Miney Dood
Major Road	Minor Road
State Rd	Buckeye Drive

Time	Total of All Approaches	Met?	Minor EB	Delay EB	Met?	Minor WB	Delay WB	Met?	Warrant Met?
16:30 - 17:30	1047	Yes	10	0.0	No	5	0.0		No
16:45 - 17:45	1040	Yes	16	0.0	No	6	0.0		No
16:15 - 17:15	1031	Yes	13	0.0	No	6	0.0		No
16:00 - 17:00	969	Yes	17	0.0	No	8	0.0		No
17:00 - 18:00	909	Yes	12	0.0	No	4	0.0		No
15:45 - 16:45	897	Yes	14	0.0	No	7	0.0		No
07:15 - 08:15	865	Yes	4	0.0	No	3	0.0		No
15:30 - 16:30	860	Yes	14	0.0	No	9	0.0		No
07:00 - 08:00	835	Yes	2	0.0		4	0.0	No	No
15:15 - 16:15	829	Yes	14	0.0	No	8	0.0		No
07:30 - 08:30	810	Yes	4	0.0	No	2	0.0		No
17:15 - 18:15	803	Yes	9	0.0	No	7	0.0		No
15:00 - 16:00	802	Yes	8	0.0		8	0.0	No	No
07:45 - 08:45	793	No	4	0.0	No	3	0.0		No
14:45 - 15:45	787	No	9	0.0	No	8	0.0		No
14:30 - 15:30	753	No	9	0.0	No	8	0.0		No
08:00 - 09:00	715	No	3	0.0		5	0.0	No	No
14:15 - 15:15	704	No	6	0.0		6	0.0	No	No
17:30 - 18:30	698	No	8	0.0	No	5	0.0		No
14:00 - 15:00	683	No	7	0.0		9	0.0	No	No
08:15 - 09:15	658	No	1	0.0		9	0.0	No	No
13:45 - 14:45	621	No	7	0.0		8	0.0	No	No
08:30 - 09:30	616	No	3	0.0		8	0.0	No	No
06:45 - 07:45	582	No	0	0.0		3	0.0	No	No
13:30 - 14:30	580	No	9	0.0		9	0.0	No	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 3-State Rd_Buckeye Drive_Storr-it Drive

Study Date: 9/21/2023 Warrant 3B - Peak Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during one hour of the day is the principal reason for consideration of a signal installation.

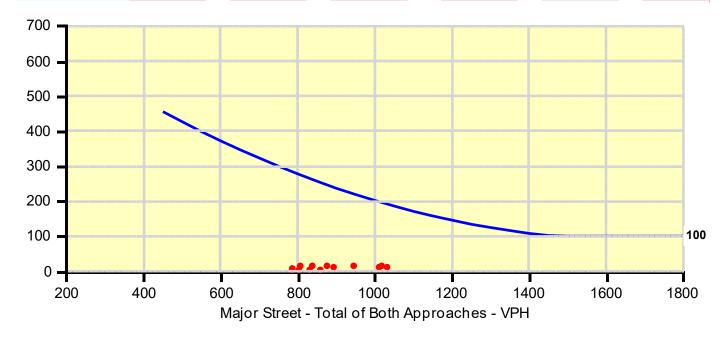
Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

	Major Road State Rd								
Time	Major NB	+	Major SB	=	Total		Minor EB	Minor WB	Met?
16:30 - 17:30	483	+	549	=	1032		10	5	No
16:45 - 17:45	445	+	573	=	1018		16	6	No
16:15 - 17:15	482	+	530	=	1012		13	6	No
16:00 - 17:00	443	+	501	=	944		17	8	No
17:00 - 18:00	412	+	481	=	893		12	4	No
15:45 - 16:45	435	+	441	=	876		14	7	No
07:15 - 08:15	563	+	295	=	858		4	3	No
15:30 - 16:30	407	+	430	=	837		14	9	No
07:00 - 08:00	553	+	276	=	829		2	4	No
15:15 - 16:15	391	+	416	=	807		14	8	No
07:30 - 08:30	491	+	313	=	804		4	2	No



520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 4-State Rd_Salt Creek Run

Study Date : 9/21/2023

Signal Warrants - Summary

Major Street Approaches Minor Street Approaches Northbound: State Rd

Number of Lanes: 1

Total Approach Volume: 4,380

Southbound: State Rd Number of Lanes :1

Total Approach Volume: 4,079

Eastbound: Salt Creek Run Number of Lanes :1

Total Approach Volume: 339

Westbound: N/A Number of Lanes:1

Total Approach Volume: 0

Total Approach Volume: 4,079	Total Approach Volume. 0
Warrant Summary (Urban Values Apply)	
Warrant 1 - Eight Hour Vehicular Volumes	Not Satisfied
Warrant 1A - Minimum Vehicular Volume	Not Satisfied
Warrant 1B - Interruption of Continuous Traffic	Not Satisfied
Warrant 1C - Combination of Warrants	Not Satisfied
Warrant 2 - Four Hour Volumes Number of hours (0) volumes exceed minimum < minimum required (
Warrant 3 - Peak Hour	Not Satisfied
Warrant 3A - Peak Hour Delay Total approach volumes and delays on minor street do not exceed mi	Not Satisfied inimums for any one hour period.
Warrant 3B - Peak Hour VolumesVolumes do not exceed minimums for any one hour period.	Not Satisfied
Warrant 4 - Pedestrian Volumes	Not Evaluated
Warrant 5 - School Crossing	Not Evaluated
Warrant 6 - Coordinated Signal System	Not Evaluated
Warrant 7 - Crash Experience	Not Evaluated
Warrant 8 - Roadway Network	Not Evaluated
Warrant 9 - Intersection Near a Grade Crossing	Not Evaluated

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 4-State Rd_Salt Creek Run

Study Date: 9/21/2023 Warrant 1A - Minimum Volumes

Description

Intended for sites where the volume of intersecting traffic is the principal reason for consideration of a signal installation.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

Volume Requirements

Veh/Hr Major = 500

	Major Road State Rd						r Road reek Run	
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:30 - 17:30	465	+	553	=	1018	39	0	No
16:45 - 17:45	446	+	568	=	1014	40	0	No
16:15 - 17:15	481	+	531	=	1012	39	0	No
17:00 - 18:00	400	+	558	=	958	31	0	No
15:45 - 16:45	473	+	475	=	948	30	0	No
16:00 - 17:00	453	+	492	=	945	38	0	No
15:15 - 16:15	495	+	442	=	937	26	0	No
15:30 - 16:30	464	+	457	=	921	26	0	No
15:00 - 16:00	480	+	433	=	913	23	0	No
14:45 - 15:45	426	+	418	=	844	25	0	No
17:15 - 18:15	346	+	488	=	834	34	0	No
14:30 - 15:30	423	+	404	=	827	30	0	No
07:15 - 08:15	492	+	325	=	817	62	0	No
07:00 - 08:00	483	+	330	=	813	61	0	No
07:30 - 08:30	469	+	337	=	806	46	0	No
17:30 - 18:30	359	+	426	=	785	30	0	No
14:15 - 15:15	390	+	386	=	776	25	0	No
07:45 - 08:45	402	+	365	=	767	42	0	No
14:00 - 15:00	358	+	345	=	703	31	0	No
08:00 - 09:00	395	+	292	=	687	36	0	No
13:45 - 14:45	358	+	329	=	687	30	0	No
08:15 - 09:15	388	+	281	=	669	37	0	No
17:45 - 18:45	316	+	353	=	669	28	0	No
13:15 - 14:15	310	+	312	=	622	19	0	No
13:30 - 14:30	317		302		619	22	0	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 4-State Rd_Salt Creek Run

Study Date : 9/21/2023

Warrant 1B - Interruption of Continuous Traffic

Description

Intended for sites where the volume of the major street is so heavy that traffic on the minor street suffers excessive delay or hazard.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

Volume Requirements

Veh/Hr Major = 750

	Major Road State Rd						or Road reek Run	
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:30 - 17:30	465	+	553	=	1018	39	0	No
16:45 - 17:45	446	+	568	=	1014	40	0	No
16:15 - 17:15	481	+	531	=	1012	39	0	No
17:00 - 18:00	400	+	558	=	958	31	0	No
15:45 - 16:45	473	+	475	=	948	30	0	No
16:00 - 17:00	453	+	492	=	945	38	0	No
15:15 - 16:15	495	+	442	=	937	26	0	No
15:30 - 16:30	464	+	457	=	921	26	0	No
15:00 - 16:00	480	+	433	=	913	23	0	No
14:45 - 15:45	426	+	418	=	844	25	0	No
17:15 - 18:15	346	+	488	=	834	34	0	No
14:30 - 15:30	423	+	404	=	827	30	0	No
07:15 - 08:15	492	+	325	=	817	62	0	No
07:00 - 08:00	483	+	330	=	813	61	0	No
07:30 - 08:30	469	+	337	=	806	46	0	No
17:30 - 18:30	359	+	426	=	785	30	0	No
14:15 - 15:15	390	+	386	=	776	25	0	No
07:45 - 08:45	402	+	365	=	767	42	0	No
14:00 - 15:00	358	+	345	=	703	31	0	No
08:00 - 09:00	395	+	292	=	687	36	0	No
13:45 - 14:45	358	+	329	=	687	30	0	No
08:15 - 09:15	388	+	281	=	669	37	0	No
17:45 - 18:45	316	+	353	=	669	28	0	No
13:15 - 14:15	310	+	312	=	622	19	0	No
13:30 - 14:30	317		302		619	22	0	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 4-State Rd_Salt Creek Run

Study Date: 9/21/2023 Warrant 1C Combination of Warrants

Description

Intended for sites where the traffic volumes don't meet individual warrants but where Warrants 1A and 1B are both met to 80% of their stated values.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 hours meet 1A minimums. Only 1 hours meet 1B minimums. Warrant is NOT met.

Volume Requirements

Warrant 1A 1B Veh/Hr Major = **400 600**

Veh/Hr Minor = **120 60**

Major Road State Rd

Minor Road Salt Creek Run

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:30 - 17:30	465	+	553	=	1018	39	0	No
16:45 - 17:45	446	+	568	=	1014	40	0	No
16:15 - 17:15	481	+	531	=	1012	39	0	No
17:00 - 18:00	400	+	558	=	958	31	0	No
15:45 - 16:45	473	+	475	=	948	30	0	No
16:00 - 17:00	453	+	492	=	945	38	0	No
15:15 - 16:15	495	+	442	=	937	26	0	No
15:30 - 16:30	464	+	457	=	921	26	0	No
15:00 - 16:00	480	+	433	=	913	23	0	No
14:45 - 15:45	426	+	418	=	844	25	0	No
17:15 - 18:15	346	+	488	=	834	34	0	No
14:30 - 15:30	423		404		827	30	0	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
07:00 - 08:00	483	+	330	=	813	61	0	Yes
16:30 - 17:30	465	+	553	=	1018	39	0	No
16:45 - 17:45	446	+	568	=	1014	40	0	No
16:15 - 17:15	481	+	531	=	1012	39	0	No
17:00 - 18:00	400	+	558	=	958	31	0	No
15:45 - 16:45	473	+	475	=	948	30	0	No
16:00 - 17:00	453	+	492	=	945	38	0	No
15:15 - 16:15	495	+	442	=	937	26	0	No
15:30 - 16:30	464	+	457	=	921	26	0	No
15:00 - 16:00	480	+	433	=	913	23	0	No
14:45 - 15:45	426	+	418	=	844	25	0	No
17:15 - 18:15	346		488		834	34	0	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 4-State Rd_Salt Creek Run

Study Date: 9/21/2023 Warrant 2 - Four Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during any four hours of the day is the principal reason for consideration of a signal installation.

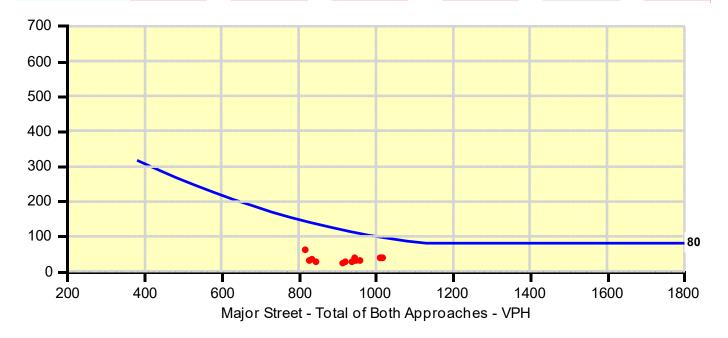
Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

	Major Road State Rd						r Road reek Run	
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:30 - 17:30	465	+	553	=	1018	39	0	No
16:45 - 17:45	446	+	568	=	1014	40	0	No
16:15 - 17:15	481	+	531	=	1012	39	0	No
17:00 - 18:00	400	+	558	=	958	31	0	No
15:45 - 16:45	473	+	475	=	948	30	0	No
16:00 - 17:00	453	+	492	=	945	38	0	No
15:15 - 16:15	495	+	442	=	937	26	0	No
15:30 - 16:30	464	+	457	=	921	26	0	No
15:00 - 16:00	480	+	433	=	913	23	0	No
14:45 - 15:45	426	+	418	=	844	25	0	No
17:15 - 18:15	346	+	488	=	834	34	0	No



520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 4-State Rd_Salt Creek Run

Study Date : 9/21/2023

Warrant 3A - Peak Hour Delay

Description

Intended for sites where for one hour of the day minor street traffic suffers undue traffic delay entering or crossing the major street.

Site Data Required

Number of Minor Lanes =1

Summary

18 one hour periods meet minimums. Warrant is NOT met.

Volume and Delay Requirements Veh/Hr All Approaches = 800

Veh/Hr All Approaches = **800** Veh/Hr Minor = **100** Total Delay (Veh-Hrs) = **4**

Major Road State Rd

Minor Road Salt Creek Run

		Otato i	10	Out Oreck Kull							
Time	Total of All Approaches	Met?	Minor EB	Delay EB	Met?		Minor WB	Delay WB	Met?	Warrant Met?	
16:30 - 17:30	1057	Yes	39	0.0	No		0	0.0		No	
16:45 - 17:45	1054	Yes	40	0.0	No		0	0.0		No	
16:15 - 17:15	1051	Yes	39	0.0	No		0	0.0		No	
17:00 - 18:00	989	Yes	31	0.0	No		0	0.0		No	
16:00 - 17:00	983	Yes	38	0.0	No		0	0.0		No	
15:45 - 16:45	978	Yes	30	0.0	No		0	0.0		No	
15:15 - 16:15	963	Yes	26	0.0	No		0	0.0		No	
15:30 - 16:30	947	Yes	26	0.0	No		0	0.0		No	
15:00 - 16:00	936	Yes	23	0.0	No		0	0.0		No	
07:15 - 08:15	879	Yes	62	0.0	No		0	0.0		No	
07:00 - 08:00	874	Yes	61	0.0	No		0	0.0		No	
14:45 - 15:45	869	Yes	25	0.0	No		0	0.0		No	
17:15 - 18:15	868	Yes	34	0.0	No		0	0.0		No	
14:30 - 15:30	857	Yes	30	0.0	No		0	0.0		No	
07:30 - 08:30	852	Yes	46	0.0	No		0	0.0		No	
17:30 - 18:30	815	Yes	30	0.0	No		0	0.0		No	
07:45 - 08:45	809	Yes	42	0.0	No		0	0.0		No	
14:15 - 15:15	801	Yes	25	0.0	No		0	0.0		No	
14:00 - 15:00	734	No	31	0.0	No		0	0.0		No	
08:00 - 09:00	723	No	36	0.0	No		0	0.0		No	
13:45 - 14:45	717	No	30	0.0	No		0	0.0		No	
08:15 - 09:15	706	No	37	0.0	No		0	0.0		No	
17:45 - 18:45	697	No	28	0.0	No		0	0.0		No	
08:30 - 09:30	648	No	33	0.0	No		0	0.0		No	
18:00 - 19:00	643	No	28	0.0	No		0	0.0		No	

GPD Group 20 South Main Street, Suite 2531 Akror

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 4-State Rd_Salt Creek Run

Study Date : 9/21/2023

Warrant 3B - Peak Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during one hour of the day is the principal reason for consideration of a signal installation.

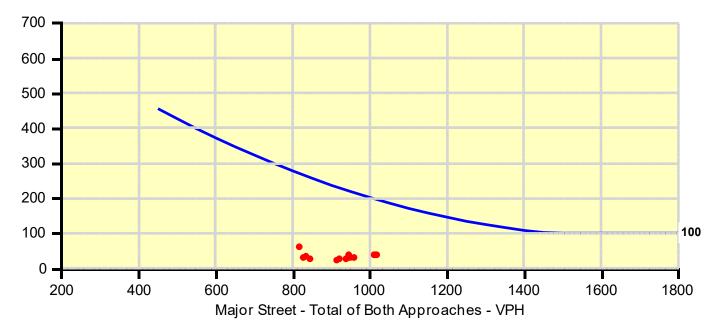
Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

	Major Road State Rd		State Rd				Mino Salt Cr	
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:30 - 17:30	465	+	553	=	1018	39	0	No
16:45 - 17:45	446	+	568	=	1014	40	0	No
16:15 - 17:15	481	+	531	=	1012	39	0	No
17:00 - 18:00	400	+	558	=	958	31	0	No
15:45 - 16:45	473	+	475	=	948	30	0	No
16:00 - 17:00	453	+	492	=	945	38	0	No
15:15 - 16:15	495	+	442	=	937	26	0	No
15:30 - 16:30	464	+	457	=	921	26	0	No
15:00 - 16:00	480	+	433	=	913	23	0	No
14:45 - 15:45	426	+	418	=	844	25	0	No
17:15 - 18:15	346	+	488	=	834	34	0	No



520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 5-State Rd_Woodridge Elementry School North Drive

Study Date: 9/21/2023

Signal Warrants - Summary

Major Street Approaches

Northbound: State Rd

Number of Lanes : 1

Total Approach Volume: 4,115

Southbound: State Rd Number of Lanes :1

Total Approach Volume: 3,945

Minor Street Approaches

Eastbound: Woodridge Elementry School North Drive

Number of Lanes:1

Total Approach Volume: 86

Westbound: N/A Number of Lanes :1

Total Approach Volume: 0

Warrant Summary (U	rban Values Apply)
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Warrant 1 - Eight Hour Vehicular Volumes......Not Satisfied

Warrant 1A - Minimum Vehicular Volume......Not Satisfied

Required volumes reached for 0 hours, 8 are needed

Warrant 1B - Interruption of Continuous Traffic......Not Satisfied

Required volumes reached for 0 hours, 8 are needed

Required 1A volumes reached for 0 hours, 8 are needed Required 1B volumes reached for 0 hours, 8 are needed

Warrant 2 - Four Hour Volumes......Not Satisfied

Number of hours (0) volumes exceed minimum < minimum required (4).

Warrant 3 - Peak Hour......Not Satisfied

Volumes do not exceed minimums for any one hour period.

Warrant 6 - Coordinated Signal System......Not Evaluated

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 5-State Rd_Woodridge Elementry School North Drive

Study Date : 9/21/2023

Warrant 1A - Minimum Volumes

Description

Intended for sites where the volume of intersecting traffic is the principal reason for consideration of a signal installation.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

Volume Requirements

Veh/Hr Major = 500

	Major Road State Rd					or Road		
						Woodridg		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:45 - 17:45	384	+	488	=	872	10	0	No
16:30 - 17:30	412	+	450	=	862	19	0	No
17:00 - 18:00	359	+	475	=	834	10	0	No
15:45 - 16:45	413	+	404	=	817	21	0	No
16:15 - 17:15	388	+	421	=	809	21	0	No
17:15 - 18:15	330	+	476	=	806	11	0	No
07:45 - 08:45	491	+	313	=	804	4	0	No
16:00 - 17:00	393	+	409	=	802	25	0	No
15:15 - 16:15	417	+	376	=	793	7	0	No
15:30 - 16:30	399	+	389	=	788	10	0	No
07:30 - 08:30	489	+	295	=	784	7	0	No
08:00 - 09:00	488	+	289	=	777	5	0	No
07:15 - 08:15	471	+	289	=	760	17	0	No
17:30 - 18:30	292	+	458	=	750	10	0	No
15:00 - 16:00	388	+	361	=	749	0	0	No
08:15 - 09:15	443	+	287	=	730	4	0	No
07:00 - 08:00	441	+	285	=	726	22	0	No
14:45 - 15:45	364	+	347	=	711	1	0	No
14:30 - 15:30	362	+	334	=	696	15	0	No
14:15 - 15:15	366	+	328	=	694	16	0	No
17:45 - 18:45	258	+	434	=	692	10	0	No
18:00 - 19:00	239	+	449	=	688	7	0	No
13:45 - 14:45	364	+	317	=	681	15	0	No
14:00 - 15:00	359	+	322	=	681	16	0	No
08:30 - 09:30	397		283		680	2	0	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 5-State Rd_Woodridge Elementry School North Drive

Study Date : 9/21/2023

Warrant 1B - Interruption of Continuous Traffic

Description

Intended for sites where the volume of the major street is so heavy that traffic on the minor street suffers excessive delay or hazard.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

Volume Requirements

Veh/Hr Major = 750

	Major Road State Rd					Mind Woodridg		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:45 - 17:45	384	+	488	=	872	10	0	No
16:30 - 17:30	412	+	450	=	862	19	0	No
17:00 - 18:00	359	+	475	=	834	10	0	No
15:45 - 16:45	413	+	404	=	817	21	0	No
16:15 - 17:15	388	+	421	=	809	21	0	No
17:15 - 18:15	330	+	476	=	806	11	0	No
07:45 - 08:45	491	+	313	=	804	4	0	No
16:00 - 17:00	393	+	409	=	802	25	0	No
15:15 - 16:15	417	+	376	=	793	7	0	No
15:30 - 16:30	399	+	389	=	788	10	0	No
07:30 - 08:30	489	+	295	=	784	7	0	No
08:00 - 09:00	488	+	289	=	777	5	0	No
07:15 - 08:15	471	+	289	=	760	17	0	No
17:30 - 18:30	292	+	458	=	750	10	0	No
15:00 - 16:00	388	+	361	=	749	0	0	No
08:15 - 09:15	443	+	287	=	730	4	0	No
07:00 - 08:00	441	+	285	=	726	22	0	No
14:45 - 15:45	364	+	347	=	711	1	0	No
14:30 - 15:30	362	+	334	=	696	15	0	No
14:15 - 15:15	366	+	328	=	694	16	0	No
17:45 - 18:45	258	+	434	=	692	10	0	No
18:00 - 19:00	239	+	449	=	688	7	0	No
13:45 - 14:45	364	+	317	=	681	15	0	No
14:00 - 15:00	359	+	322	=	681	16	0	No
08:30 - 09:30	397		283		680	2	0	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 5-State Rd_Woodridge Elementry School North Drive

Study Date : 9/21/2023

Warrant 1C Combination of Warrants

Description

Intended for sites where the traffic volumes don't meet individual warrants but where Warrants 1A and 1B are both met to 80% of their stated values.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 hours meet 1A minimums. Only 0 hours meet 1B minimums. Warrant is NOT met.

Volume Requirements

Warrant 1A 1B Veh/Hr Major = **400 600**

Veh/Hr Minor = **120 60**

		lajor State	Road Rd			Minor Road Woodridge Elementry School North Drive					
Time	Major NB	+	Major SB	=	Total		Minor EB		Minor WB		et1A?
16:45 - 17:45	384	+	488	=	872		10		0		No
16:30 - 17:30	412	+	450	=	862		19		0		No
17:00 - 18:00	359	+	475	=	834		10		0		No
15:45 - 16:45	413	+	404	=	817		21		0		No
16:15 - 17:15	388	+	421	=	809		21		0		No
17:15 - 18:15	330	+	476	=	806		11		0		No
07:45 - 08:45	491	+	313	=	804		4		0		No
16:00 - 17:00	393	+	409	=	802		25		0		No
15:15 - 16:15	417	+	376	=	793		7		0		No
15:30 - 16:30	399	+	389	=	788		10		0		No
07:30 - 08:30	489	+	295	=	784		7		0		No
08:00 - 09:00	488		289		777		5		0		No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
16:45 - 17:45	384	+	488	=	872	10	0	No
16:30 - 17:30	412	+	450	=	862	19	0	No
17:00 - 18:00	359	+	475	=	834	10	0	No
15:45 - 16:45	413	+	404	=	817	21	0	No
16:15 - 17:15	388	+	421	=	809	21	0	No
17:15 - 18:15	330	+	476	=	806	11	0	No
07:45 - 08:45	491	+	313	=	804	4	0	No
16:00 - 17:00	393	+	409	=	802	25	0	No
15:15 - 16:15	417	+	376	=	793	7	0	No
15:30 - 16:30	399	+	389	=	788	10	0	No
07:30 - 08:30	489	+	295	=	784	7	0	No
08:00 - 09:00	488		289		777	5	0	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 5-State Rd_Woodridge Elementry School North Drive

Study Date: 9/21/2023 Warrant 2 - Four Hour Volumes

Description

Site Data Required

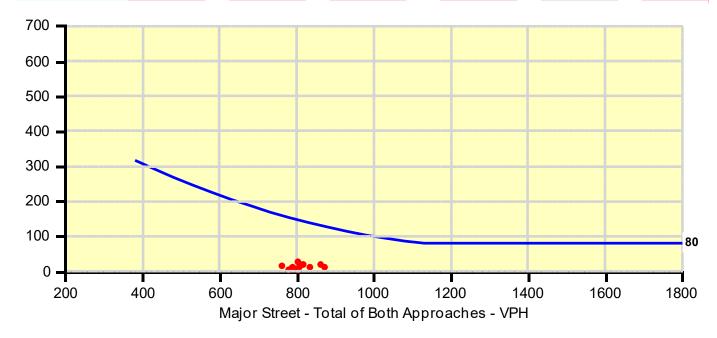
Intended for sites where the volume of intersecting traffic during any four hours of the day is the principal reason for consideration of a signal installation.

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

	Major Road State Rd					Mino Woodridg			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	M	et?
16:45 - 17:45	384	+	488	=	872	10	0	١	٧o
16:30 - 17:30	412	+	450	=	862	19	0	1	No
17:00 - 18:00	359	+	475	=	834	10	0	1	No
15:45 - 16:45	413	+	404	=	817	21	0	1	No
16:15 - 17:15	388	+	421	=	809	21	0	1	No
17:15 - 18:15	330	+	476	=	806	11	0	1	No
07:45 - 08:45	491	+	313	=	804	4	0	1	No
16:00 - 17:00	393	+	409	=	802	25	0	1	No
15:15 - 16:15	417	+	376	=	793	7	0	1	No
15:30 - 16:30	399	+	389	=	788	10	0	1	No
07:30 - 08:30	489	+	295	=	784	7	0	1	٧o



520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 5-State Rd_Woodridge Elementry School North Drive

Study Date : 9/21/2023

Warrant 3A - Peak Hour Delay

Description

Intended for sites where for one hour of the day minor street traffic suffers undue traffic delay entering or crossing the major street.

Site Data Required

Number of Minor Lanes =1

Summary

9 one hour periods meet minimums. Warrant is NOT met.

Volume and Delay Requirements Veh/Hr All Approaches = 800

Veh/Hr All Approaches = 800 Veh/Hr Minor = 100 Total Delay (Veh-Hrs) = 4

		Major R State I				Min Woodrid			
Time	Total of All Approaches	Met?	Minor EB	Delay EB	Met?	Minor WB	Delay WB	Met?	Warrant Met?
16:45 - 17:45	882	Yes	10	0.0	No	0	0.0		No
16:30 - 17:30	881	Yes	19	0.0	No	0	0.0		No
17:00 - 18:00	844	Yes	10	0.0	No	0	0.0		No
15:45 - 16:45	838	Yes	21	0.0	No	0	0.0		No
16:15 - 17:15	830	Yes	21	0.0	No	0	0.0		No
16:00 - 17:00	827	Yes	25	0.0	No	0	0.0		No
17:15 - 18:15	817	Yes	11	0.0	No	0	0.0		No
07:45 - 08:45	808	Yes	4	0.0	No	0	0.0		No
15:15 - 16:15	800	Yes	7	0.0	No	0	0.0		No
15:30 - 16:30	798	No	10	0.0	No	0	0.0		No
07:30 - 08:30	791	No	7	0.0	No	0	0.0		No
08:00 - 09:00	782	No	5	0.0	No	0	0.0		No
07:15 - 08:15	777	No	17	0.0	No	0	0.0		No
17:30 - 18:30	760	No	10	0.0	No	0	0.0		No
15:00 - 16:00	749	No	0	0.0		0	0.0	No	No
07:00 - 08:00	748	No	22	0.0	No	0	0.0		No
08:15 - 09:15	734	No	4	0.0	No	0	0.0		No
14:45 - 15:45	712	No	1	0.0	No	0	0.0		No
14:30 - 15:30	711	No	15	0.0	No	0	0.0		No
14:15 - 15:15	710	No	16	0.0	No	0	0.0		No
17:45 - 18:45	702	No	10	0.0	No	0	0.0		No
14:00 - 15:00	697	No	16	0.0	No	0	0.0		No
13:45 - 14:45	696	No	15	0.0	No	0	0.0		No
18:00 - 19:00	695	No	7	0.0	No	0	0.0		No
08:30 - 09:30	682	No	2	0.0	No	0	0.0		No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 5-State Rd_Woodridge Elementry School North Drive

Study Date : 9/21/2023

Warrant 3B - Peak Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during one hour of the day is the principal reason for consideration of a signal installation.

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

		Major Road State Rd				Mind Woodridg		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:45 - 17:45	384	+	488	=	872	10	0	No
16:30 - 17:30	412	+	450	=	862	19	0	No
17:00 - 18:00	359	+	475	=	834	10	0	No
15:45 - 16:45	413	+	404	=	817	21	0	No
16:15 - 17:15	388	+	421	=	809	21	0	No
17:15 - 18:15	330	+	476	=	806	11	0	No
07:45 - 08:45	491	+	313	=	804	4	0	No
16:00 - 17:00	393	+	409	=	802	25	0	No
15:15 - 16:15	417	+	376	=	793	7	0	No
15:30 - 16:30	399	+	389	=	788	10	0	No
07:30 - 08:30	489	+	295	=	784	7	0	No



520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 6-State Rd Woodridge Elementry School Southern Drive

Study Date: 9/21/2023

Signal Warrants - Summary

Major Street Approaches

Northbound: State Rd Number of Lanes: 1

Total Approach Volume: 4,058

Southbound: State Rd Number of Lanes:1

Total Approach Volume: 3,896

Minor Street Approaches

Eastbound: Woodridge Elementry School Southern Drive

Number of Lanes:1

Total Approach Volume: 396

Westbound: N/A Number of Lanes:1

Total Approach Volume: 2

Warrant Summary (Urban Values Apply)
Warrant 1 - Eight Hour Vehicular Volumes

Required volumes reached for 2 hours, 8 are needed

Warrant 1B - Interruption of Continuous Traffic......Not Satisfied

Required volumes reached for 2 hours, 8 are needed

Required 1A volumes reached for 2 hours, 8 are needed Required 1B volumes reached for 3 hours, 8 are needed

Number of hours (1) volumes exceed minimum < minimum required (4).

Warrant 3A - Peak Hour Delay......Not Satisfied Total approach volumes and delays on minor street do not exceed minimums for any one hour period.

Volumes do not exceed minimums for any one hour period.

Warrant 6 - Coordinated Signal System......Not Evaluated

PC-Warrants Report: Page 1 of 7 Report Date: 09/21/23

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 6-State Rd_Woodridge Elementry School Southern Drive

Study Date : 9/21/2023

Warrant 1A - Minimum Volumes

Description

Intended for sites where the volume of intersecting traffic is the principal reason for consideration of a signal installation.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 2 one hour periods meet minimums. Warrant is NOT met.

Volume Requirements

Veh/Hr Major = 500

		Major Road State Rd				Woodridg	or Road le Elementry	
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
14:45 - 15:45	383	+	353	=	736	167	0	Yes
08:15 - 09:15	442	+	274	=	716	150	1	Yes
16:45 - 17:45	379	+	487	=	866	3	0	No
16:30 - 17:30	403	+	458	=	861	11	0	No
17:00 - 18:00	365	+	484	=	849	12	0	No
17:15 - 18:15	336	+	490	=	826	12	0	No
15:45 - 16:45	381	+	426	=	807	31	0	No
16:15 - 17:15	380	+	423	=	803	12	0	No
16:00 - 17:00	376	+	410	=	786	17	0	No
07:45 - 08:45	494	+	289	=	783	118	0	No
07:30 - 08:30	504	+	277	=	781	8	0	No
08:00 - 09:00	491	+	270	=	761	147	1	No
17:30 - 18:30	298	+	459	=	757	12	0	No
07:15 - 08:15	473	+	269	=	742	3	0	No
14:30 - 15:30	370	+	348	=	718	119	0	No
14:15 - 15:15	368	+	339	=	707	25	0	No
07:00 - 08:00	448	+	254	=	702	5	0	No
14:00 - 15:00	354	+	338	=	692	11	0	No
13:45 - 14:45	350	+	339	=	689	10	0	No
17:45 - 18:45	255	+	431	=	686	12	0	No
18:00 - 19:00	227	+	437	=	664	3	0	No
13:30 - 14:30	333	+	326	=	659	7	0	No
13:15 - 14:15	308	+	312	=	620	5	0	No
13:00 - 14:00	296	+	291	=	587	8	0	No
10:45 - 11:45	298		281		579	2	0	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 6-State Rd_Woodridge Elementry School Southern Drive

Study Date : 9/21/2023

Warrant 1B - Interruption of Continuous Traffic

Description

Intended for sites where the volume of the major street is so heavy that traffic on the minor street suffers excessive delay or hazard.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 2 one hour periods meet minimums. Warrant is NOT met.

Volume Requirements

Veh/Hr Major = 750

		ajor R State F				Woodridg	or Road ge Elementry	
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
07:45 - 08:45	494	+	289	=	783	118	0	Yes
15:00 - 16:00	388	+	390	=	778	177	0	Yes
16:45 - 17:45	379	+	487	=	866	3	0	No
16:30 - 17:30	403	+	458	=	861	11	0	No
17:00 - 18:00	365	+	484	=	849	12	0	No
17:15 - 18:15	336	+	490	=	826	12	0	No
16:15 - 17:15	380	+	423	=	803	12	0	No
16:00 - 17:00	376	+	410	=	786	17	0	No
07:30 - 08:30	504	+	277	=	781	8	0	No
17:30 - 18:30	298	+	459	=	757	12	0	No
07:15 - 08:15	473	+	269	=	742	3	0	No
14:45 - 15:45	383	+	353	=	736	167	0	No
14:30 - 15:30	370	+	348	=	718	119	0	No
14:15 - 15:15	368	+	339	=	707	25	0	No
07:00 - 08:00	448	+	254	=	702	5	0	No
14:00 - 15:00	354	+	338	=	692	11	0	No
13:45 - 14:45	350	+	339	=	689	10	0	No
17:45 - 18:45	255	+	431	=	686	12	0	No
18:00 - 19:00	227	+	437	=	664	3	0	No
13:30 - 14:30	333	+	326	=	659	7	0	No
13:15 - 14:15	308	+	312	=	620	5	0	No
13:00 - 14:00	296	+	291	=	587	8	0	No
08:45 - 09:45	329	+	252	=	581	32	2	No
10:45 - 11:45	298	+	281	=	579	2	0	No
11:00 - 12:00	294		282		576	3	0	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 6-State Rd_Woodridge Elementry School Southern Drive

Study Date : 9/21/2023

Warrant 1C Combination of Warrants

Description

Intended for sites where the traffic volumes don't meet individual warrants but where Warrants 1A and 1B are both met to 80% of their stated values.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 2 hours meet 1A minimums. Only 3 hours meet 1B minimums. Warrant is NOT met.

Volume Requirements

Warrant 1A 1B Veh/Hr Major = **400 600**

Veh/Hr Minor = **120 60**

		ajor State	Road Rd			Minor Road Woodridge Elementry School Southern Drive					
Time	Major NB	+	Major SB	=	Total		Minor EB		Minor WB		Met1A?
08:00 - 09:00	491	+	270	=	761		147		1		Yes
14:45 - 15:45	383	+	353	=	736		167		0		Yes
16:45 - 17:45	379	+	487	=	866		3		0		No
16:30 - 17:30	403	+	458	=	861		11		0		No
17:00 - 18:00	365	+	484	=	849		12		0		No
17:15 - 18:15	336	+	490	=	826		12		0		No
15:45 - 16:45	381	+	426	=	807		31		0		No
16:15 - 17:15	380	+	423	=	803		12		0		No
16:00 - 17:00	376	+	410	=	786		17		0		No
07:45 - 08:45	494	+	289	=	783		118		0		No
07:30 - 08:30	504	+	277	=	781		8		0		No
17:30 - 18:30	298		459		757		12		0		No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
15:30 - 16:30	377	+	409	=	786	76	0	Yes
07:45 - 08:45	494	+	289	=	783	118	0	Yes
14:30 - 15:30	370	+	348	=	718	119	0	Yes
16:45 - 17:45	379	+	487	=	866	3	0	No
16:30 - 17:30	403	+	458	=	861	11	0	No
17:00 - 18:00	365	+	484	=	849	12	0	No
17:15 - 18:15	336	+	490	=	826	12	0	No
07:30 - 08:30	504	+	277	=	781	8	0	No
17:30 - 18:30	298	+	459	=	757	12	0	No
07:15 - 08:15	473	+	269	=	742	3	0	No
14:15 - 15:15	368	+	339	=	707	25	0	No
07:00 - 08:00	448		254		702	5	0	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 6-State Rd_Woodridge Elementry School Southern Drive

Study Date : 9/21/2023

Warrant 2 - Four Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during any four hours of the day is the principal reason for consideration of a signal installation.

Summary

Only 1 one hour periods meet minimums. Warrant is NOT met.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

	Major Road State Rd					Mino Woodridg		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
14:45 - 15:45	383	+	353	=	736	167	0	Yes
16:45 - 17:45	379	+	487	=	866	3	0	No
16:30 - 17:30	403	+	458	=	861	11	0	No
17:00 - 18:00	365	+	484	=	849	12	0	No
17:15 - 18:15	336	+	490	=	826	12	0	No
15:45 - 16:45	381	+	426	=	807	31	0	No
16:15 - 17:15	380	+	423	=	803	12	0	No
16:00 - 17:00	376	+	410	=	786	17	0	No
07:45 - 08:45	494	+	289	=	783	118	0	No
07:30 - 08:30	504	+	277	=	781	8	0	No
08:00 - 09:00	491	+	270	=	761	147	1	No



520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 6-State Rd_Woodridge Elementry School Southern Drive

Study Date : 9/21/2023

Warrant 3A - Peak Hour Delay

Description

Intended for sites where for one hour of the day minor street traffic suffers undue traffic delay entering or crossing the major street.

Site Data Required

Number of Minor Lanes =1

Summary

16 one hour periods meet minimums. Warrant is NOT met.

Volume and Delay Requirements Veh/Hr All Approaches = 800

Veh/Hr All Approaches = 800 Veh/Hr Minor = 100 Total Delay (Veh-Hrs) = 4

		Major Road State Rd					or Road ge Elemer	entry Privo		
Time	Total of All Approaches	Met?	Minor EB	Delay EB	Met?	Minor WB	Delay WB	Met?	Warrant Met?	
15:15 - 16:15	974	Yes	170	0.0	No	0	0.0		No	
15:00 - 16:00	955	Yes	177	0.0	No	0	0.0		No	
08:00 - 09:00	909	Yes	147	0.0	No	1	0.0		No	
14:45 - 15:45	903	Yes	167	0.0	No	0	0.0		No	
07:45 - 08:45	901	Yes	118	0.0	No	0	0.0		No	
16:30 - 17:30	872	Yes	11	0.0	No	0	0.0		No	
16:45 - 17:45	869	Yes	3	0.0	No	0	0.0		No	
08:15 - 09:15	867	Yes	150	0.0	No	1	0.0		No	
15:30 - 16:30	862	Yes	76	0.0	No	0	0.0		No	
17:00 - 18:00	861	Yes	12	0.0	No	0	0.0		No	
15:45 - 16:45	838	Yes	31	0.0	No	0	0.0		No	
17:15 - 18:15	838	Yes	12	0.0	No	0	0.0		No	
14:30 - 15:30	837	Yes	119	0.0	No	0	0.0		No	
16:15 - 17:15	815	Yes	12	0.0	No	0	0.0		No	
08:30 - 09:30	810	Yes	144	0.0	No	1	0.0		No	
16:00 - 17:00	803	Yes	17	0.0	No	0	0.0		No	
07:30 - 08:30	789	No	8	0.0	No	0	0.0		No	
17:30 - 18:30	769	No	12	0.0	No	0	0.0		No	
07:15 - 08:15	745	No	3	0.0	No	0	0.0		No	
14:15 - 15:15	732	No	25	0.0	No	0	0.0		No	
07:00 - 08:00	707	No	5	0.0	No	0	0.0		No	
14:00 - 15:00	703	No	11	0.0	No	0	0.0		No	
13:45 - 14:45	699	No	10	0.0	No	0	0.0		No	
17:45 - 18:45	698	No	12	0.0	No	0	0.0		No	
18:00 - 19:00	667	No	3	0.0	No	0	0.0		No	

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 6-State Rd_Woodridge Elementry School Southern Drive

Study Date : 9/21/2023

Warrant 3B - Peak Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during one hour of the day is the principal reason for consideration of a signal installation.

Only 0 one hour periods meet minimums.

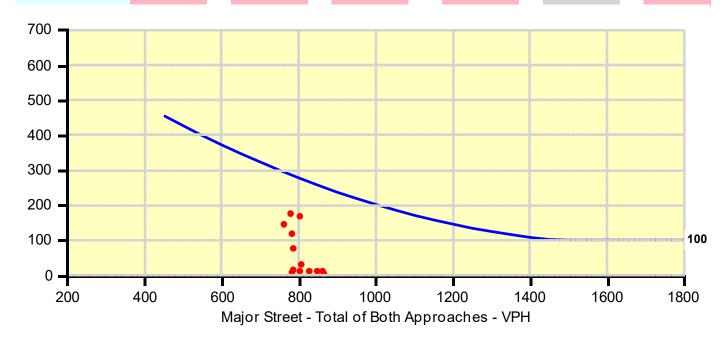
Warrant is NOT met.

Summary

Site Data Required

Rural Settings Apply = **False** Number of Major Lanes = 1 Number of Minor Lanes =

		Major Road State Rd				Woodridg		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:45 - 17:45	379	+	487	=	866	3	0	No
16:30 - 17:30	403	+	458	=	861	11	0	No
17:00 - 18:00	365	+	484	=	849	12	0	No
17:15 - 18:15	336	+	490	=	826	12	0	No
15:45 - 16:45	381	+	426	=	807	31	0	No
15:15 - 16:15	403	+	401	=	804	170	0	No
16:15 - 17:15	380	+	423	=	803	12	0	No
15:30 - 16:30	377	+	409	=	786	76	0	No
16:00 - 17:00	376	+	410	=	786	17	0	No
07:45 - 08:45	494	+	289	=	783	118	0	No
07:30 - 08:30	504	+	277	=	781	8	0	No



520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 7-State Rd_ Falls Industrial Pkwy

Study Date : 9/21/2023

Signal Warrants - Summary

Major Street Ap	proaches
-----------------	----------

Northbound: State Rd Number of Lanes: 1

Total Approach Volume: 4,446

Southbound: State Rd Number of Lanes :1

Total Approach Volume: 4,025

Minor Street Approaches

Eastbound: N/A Number of Lanes :1

Total Approach Volume: 0

Westbound: Falls Industrial Pkwy

Number of Lanes:1

Total Approach Volume: 557

Warrant Summary ^(Urban Values Apply)	
Warrant 1 - Eight Hour Vehicular Volumes	Not Satisfied
Warrant 1A - Minimum Vehicular Volume	
Warrant 1B - Interruption of Continuous Traffic	
Warrant 1C - Combination of Warrants	
Warrant 2 - Four Hour Volumes	Not Satisfied
Warrant 3 - Peak Hour	Not Satisfied
Warrant 3A - Peak Hour DelayNot Satisfied Total approach volumes and delays on minor street do not exceed minimums for any one hour period.	
Warrant 3B - Peak Hour VolumesNot Satisfied Volumes do not exceed minimums for any one hour period.	
Warrant 4 - Pedestrian Volumes	Not Evaluated
Warrant 5 - School Crossing	Not Evaluated
Warrant 6 - Coordinated Signal System	Not Evaluated
Warrant 7 - Crash Experience	Not Evaluated
Warrant 8 - Roadway Network	Not Evaluated

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 7-State Rd_ Falls Industrial Pkwy

Study Date: 9/21/2023 Warrant 1A - Minimum Volumes

Description

Intended for sites where the volume of intersecting traffic is the principal reason for consideration of a signal installation.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

Volume Requirements

Veh/Hr Major = 500

		ajor Ro State F				Minor N/		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:15 - 17:15	450	+	507	=	957	0	71	No
16:30 - 17:30	435	+	521	=	956	0	69	No
16:45 - 17:45	432	+	518	=	950	0	54	No
16:00 - 17:00	430	+	477	=	907	0	81	No
15:45 - 16:45	423	+	470	=	893	0	89	No
17:00 - 18:00	386	+	501	=	887	0	46	No
07:45 - 08:45	472	+	414	=	886	0	12	No
15:30 - 16:30	412	+	438	=	850	0	86	No
15:15 - 16:15	425	+	418	=	843	0	87	No
07:30 - 08:30	525	+	300	=	825	0	15	No
08:00 - 09:00	442	+	382	=	824	0	14	No
15:00 - 16:00	417	+	395	=	812	0	72	No
08:15 - 09:15	424	+	384	=	808	0	17	No
07:15 - 08:15	517	+	282	=	799	0	16	No
07:00 - 08:00	506	+	284	=	790	0	21	No
14:30 - 15:30	412	+	376	=	788	0	52	No
17:15 - 18:15	340	+	448	=	788	0	56	No
14:15 - 15:15	413	+	367	=	780	0	48	No
14:45 - 15:45	406	+	370	=	776	0	58	No
17:30 - 18:30	352	+	401	=	753	0	47	No
08:30 - 09:30	353	+	373	=	726	0	24	No
14:00 - 15:00	383	+	331	=	714	0	52	No
13:45 - 14:45	375	+	321	=	696	0	51	No
12:45 - 13:45	329	+	317	=	646	0	53	No
17:45 - 18:45	302		341		643	0	45	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 7-State Rd_ Falls Industrial Pkwy

Study Date : 9/21/2023

Warrant 1B - Interruption of Continuous Traffic

Description

Intended for sites where the volume of the major street is so heavy that traffic on the minor street suffers excessive delay or hazard.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 1 one hour periods meet minimums. Warrant is NOT met.

Volume Requirements

Veh/Hr Major = 750

		ajor Ro State F					or Road N/A	
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
15:15 - 16:15	425	+	418	=	843	0	87	Yes
16:15 - 17:15	450	+	507	=	957	0	71	No
16:30 - 17:30	435	+	521	=	956	0	69	No
16:45 - 17:45	432	+	518	=	950	0	54	No
17:00 - 18:00	386	+	501	=	887	0	46	No
07:45 - 08:45	472	+	414	=	886	0	12	No
07:30 - 08:30	525	+	300	=	825	0	15	No
08:00 - 09:00	442	+	382	=	824	0	14	No
15:00 - 16:00	417	+	395	=	812	0	72	No
08:15 - 09:15	424	+	384	=	808	0	17	No
07:15 - 08:15	517	+	282	=	799	0	16	No
07:00 - 08:00	506	+	284	=	790	0	21	No
14:30 - 15:30	412	+	376	=	788	0	52	No
17:15 - 18:15	340	+	448	=	788	0	56	No
14:15 - 15:15	413	+	367	=	780	0	48	No
14:45 - 15:45	406	+	370	=	776	0	58	No
17:30 - 18:30	352	+	401	=	753	0	47	No
08:30 - 09:30	353	+	373	=	726	0	24	No
14:00 - 15:00	383	+	331	=	714	0	52	No
13:45 - 14:45	375	+	321	=	696	0	51	No
12:45 - 13:45	329	+	317	=	646	0	53	No
17:45 - 18:45	302	+	341	=	643	0	45	No
13:30 - 14:30	340	+	297	=	637	0	51	No
12:30 - 13:30	325	+	305	=	630	0	53	No
13:15 - 14:15	319		308		627	0	51	No

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Study Name: 7-State Rd_ Falls Industrial Pkwy

Study Date : 9/21/2023

Warrant 1C Combination of Warrants

Description

Intended for sites where the traffic volumes don't meet individual warrants but where Warrants 1A and 1B are both met to 80% of their stated values.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 hours meet 1A minimums. Only 3 hours meet 1B minimums. Warrant is NOT met.

Volume Requirements

Warrant 1A 1B Veh/Hr Major = **400 600**

Veh/Hr Minor = **120 60**

Major Road State Rd

Minor Road N/A

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:15 - 17:15	450	+	507	=	957	0	71	No
16:30 - 17:30	435	+	521	=	956	0	69	No
16:45 - 17:45	432	+	518	=	950	0	54	No
16:00 - 17:00	430	+	477	=	907	0	81	No
15:45 - 16:45	423	+	470	=	893	0	89	No
17:00 - 18:00	386	+	501	=	887	0	46	No
07:45 - 08:45	472	+	414	=	886	0	12	No
15:30 - 16:30	412	+	438	=	850	0	86	No
15:15 - 16:15	425	+	418	=	843	0	87	No
07:30 - 08:30	525	+	300	=	825	0	15	No
08:00 - 09:00	442	+	382	=	824	0	14	No
15:00 - 16:00	417		395		812	0	72	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
16:00 - 17:00	430	+	477	=	907	0	81	Yes
15:00 - 16:00	417	+	395	=	812	0	72	Yes
12:00 - 13:00	321	+	298	=	619	0	64	Yes
17:00 - 18:00	386	+	501	=	887	0	46	No
07:45 - 08:45	472	+	414	=	886	0	12	No
07:30 - 08:30	525	+	300	=	825	0	15	No
08:00 - 09:00	442	+	382	=	824	0	14	No
08:15 - 09:15	424	+	384	=	808	0	17	No
07:15 - 08:15	517	+	282	=	799	0	16	No
07:00 - 08:00	506	+	284	=	790	0	21	No
14:30 - 15:30	412	+	376	=	788	0	52	No
17:15 - 18:15	340		448		788	0	56	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 7-State Rd_ Falls Industrial Pkwy

Study Date: 9/21/2023 Warrant 2 - Four Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during any four hours of the day is the principal reason for consideration of a signal installation.

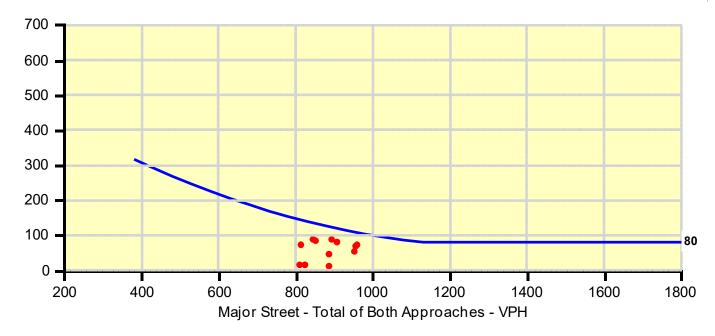
Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

		ijor Ro tate F				Minor N/		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:15 - 17:15	450	+	507	=	957	0	71	No
16:30 - 17:30	435	+	521	=	956	0	69	No
16:45 - 17:45	432	+	518	=	950	0	54	No
16:00 - 17:00	430	+	477	=	907	0	81	No
15:45 - 16:45	423	+	470	=	893	0	89	No
17:00 - 18:00	386	+	501	=	887	0	46	No
07:45 - 08:45	472	+	414	=	886	0	12	No
15:30 - 16:30	412	+	438	=	850	0	86	No
15:15 - 16:15	425	+	418	=	843	0	87	No
07:30 - 08:30	525	+	300	=	825	0	15	No
08:00 - 09:00	442	+	382	=	824	0	14	No



520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 7-State Rd_ Falls Industrial Pkwy

Study Date : 9/21/2023

Warrant 3A - Peak Hour Delay

Description

Intended for sites where for one hour of the day minor street traffic suffers undue traffic delay entering or crossing the major street.

Site Data Required

Number of Minor Lanes =1

Summary

20 one hour periods meet minimums. Warrant is NOT met.

Volume and Delay Requirements Veh/Hr All Approaches = 800

Veh/Hr All Approaches = 800 Veh/Hr Minor = 100 Total Delay (Veh-Hrs) = 4

Major Road	Minor Road
State Rd	N/A

Time	Total of All Approaches	Met?	Minor EB	Delay EB	Met?	Minor WB	Delay WB	Met?	Warrant Met?
16:15 - 17:15	1028	Yes	0	0.0		71	0.0	No	No
16:30 - 17:30	1025	Yes	0	0.0		69	0.0	No	No
16:45 - 17:45	1004	Yes	0	0.0		54	0.0	No	No
16:00 - 17:00	988	Yes	0	0.0		81	0.0	No	No
15:45 - 16:45	982	Yes	0	0.0		89	0.0	No	No
15:30 - 16:30	936	Yes	0	0.0		86	0.0	No	No
17:00 - 18:00	933	Yes	0	0.0		46	0.0	No	No
15:15 - 16:15	930	Yes	0	0.0		87	0.0	No	No
07:45 - 08:45	898	Yes	0	0.0		12	0.0	No	No
15:00 - 16:00	884	Yes	0	0.0		72	0.0	No	No
17:15 - 18:15	844	Yes	0	0.0		56	0.0	No	No
14:30 - 15:30	840	Yes	0	0.0		52	0.0	No	No
07:30 - 08:30	840	Yes	0	0.0		15	0.0	No	No
08:00 - 09:00	838	Yes	0	0.0		14	0.0	No	No
14:45 - 15:45	834	Yes	0	0.0		58	0.0	No	No
14:15 - 15:15	828	Yes	0	0.0		48	0.0	No	No
08:15 - 09:15	825	Yes	0	0.0		17	0.0	No	No
07:15 - 08:15	815	Yes	0	0.0		16	0.0	No	No
07:00 - 08:00	811	Yes	0	0.0		21	0.0	No	No
17:30 - 18:30	800	Yes	0	0.0		47	0.0	No	No
14:00 - 15:00	766	No	0	0.0		52	0.0	No	No
08:30 - 09:30	750	No	0	0.0		24	0.0	No	No
13:45 - 14:45	747	No	0	0.0		51	0.0	No	No
12:45 - 13:45	699	No	0	0.0		53	0.0	No	No
13:30 - 14:30	688	No	0	0.0		51	0.0	No	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 7-State Rd_ Falls Industrial Pkwy

Study Date : 9/21/2023

Warrant 3B - Peak Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during one hour of the day is the principal reason for consideration of a signal installation.

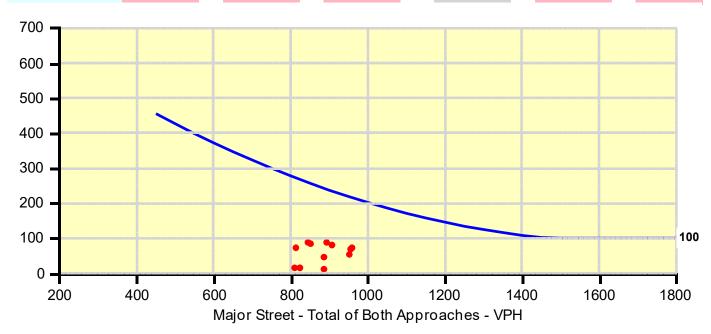
Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

		ijor R tate				Mino	r Ro N/A	oad	
Time	Major NB	+	Major SB	=	Total	Minor EB		Minor WB	Met?
16:15 - 17:15	450	+	507	=	957	0		71	No
16:30 - 17:30	435	+	521	=	956	0		69	No
16:45 - 17:45	432	+	518	=	950	0		54	No
16:00 - 17:00	430	+	477	=	907	0		81	No
15:45 - 16:45	423	+	470	=	893	0		89	No
17:00 - 18:00	386	+	501	=	887	0		46	No
07:45 - 08:45	472	+	414	=	886	0		12	No
15:30 - 16:30	412	+	438	=	850	0		86	No
15:15 - 16:15	425	+	418	=	843	0		87	No
07:30 - 08:30	525	+	300	=	825	0		15	No
08:00 - 09:00	442	+	382	=	824	0		14	No



520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 8-State Rd_Quick Rd North

Study Date : 9/21/2023

Signal Warrants - Summary

Major Street Approaches

Northbound: State Rd Number of Lanes: 1

Total Approach Volume: 3,976

Southbound: State Rd Number of Lanes :1

Total Approach Volume: 4,009

Minor Street Approaches

Eastbound: Quick Rd North Number of Lanes :1

Total Approach Volume: 131

Westbound: Audi North Drive

Number of Lanes :1

Total Approach Volume: 102

Warrant Summary (Urban Values Apply)	
Warrant 1 - Eight Hour Vehicular Volumes	Not Satisfied
Warrant 1A - Minimum Vehicular Volume Required volumes reached for 0 hours, 8 are needed	Not Satisfied
Warrant 1B - Interruption of Continuous Traffic	Not Satisfied
Warrant 1C - Combination of Warrants	Not Satisfied
Warrant 2 - Four Hour Volumes Number of hours (0) volumes exceed minimum < minimum required (4).	Not Satisfied
Warrant 3 - Peak Hour	Not Satisfied
Warrant 3A - Peak Hour Delay Total approach volumes and delays on minor street do not exceed minimums for any one	
Warrant 3B - Peak Hour Volumes Volumes do not exceed minimums for any one hour period.	Not Satisfied
Warrant 4 - Pedestrian Volumes	Not Evaluated
Warrant 5 - School Crossing	Not Evaluated
Warrant 6 - Coordinated Signal System	Not Evaluated
Warrant 7 - Crash Experience	Not Evaluated
Warrant O. Baadman Naturali	Not Fuel usted
Warrant 8 - Roadway Network	Not Evaluated

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 8-State Rd_Quick Rd North

Study Date: 9/21/2023 Warrant 1A - Minimum Volumes

Description

Intended for sites where the volume of intersecting traffic is the principal reason for consideration of a signal installation.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

Volume Requirements

Veh/Hr Major = 500

		ajor Ro State R					r Road Rd North	
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:30 - 17:30	393	+	522	=	915	4	17	No
16:15 - 17:15	405	+	501	=	906	4	13	No
16:45 - 17:45	368	+	535	=	903	4	22	No
17:00 - 18:00	354	+	536	=	890	5	22	No
15:45 - 16:45	407	+	482	=	889	7	8	No
16:00 - 17:00	396	+	485	=	881	5	9	No
07:45 - 08:45	493	+	378	=	871	16	5	No
15:30 - 16:30	399	+	445	=	844	12	6	No
08:00 - 09:00	445	+	396	=	841	18	6	No
17:15 - 18:15	322	+	513	=	835	5	21	No
08:15 - 09:15	425	+	375	=	800	21	7	No
15:15 - 16:15	389	+	410	=	799	15	5	No
08:30 - 09:30	382	+	387	=	769	20	6	No
07:30 - 08:30	496	+	270	=	766	15	3	No
07:15 - 08:15	483	+	283	=	766	18	1	No
15:00 - 16:00	392	+	368	=	760	20	9	No
17:30 - 18:30	277	+	459	=	736	3	16	No
14:45 - 15:45	395	+	335	=	730	24	12	No
07:00 - 08:00	475	+	254	=	729	15	1	No
14:30 - 15:30	387	+	324	=	711	20	12	No
14:15 - 15:15	353	+	319	=	672	18	12	No
17:45 - 18:45	248	+	383	=	631	6	7	No
11:45 - 12:45	301	+	329	=	630	9	5	No
14:00 - 15:00	317	+	300	=	617	13	11	No
11:30 - 12:30	291		322		613	8	6	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 8-State Rd_Quick Rd North

Study Date : 9/21/2023

Warrant 1B - Interruption of Continuous Traffic

Description

Intended for sites where the volume of the major street is so heavy that traffic on the minor street suffers excessive delay or hazard.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

Volume Requirements

Veh/Hr Major = 750

		ajor Ro State F					or Road Rd North	
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:30 - 17:30	393	+	522	=	915	4	17	No
16:15 - 17:15	405	+	501	=	906	4	13	No
16:45 - 17:45	368	+	535	=	903	4	22	No
17:00 - 18:00	354	+	536	=	890	5	22	No
15:45 - 16:45	407	+	482	=	889	7	8	No
16:00 - 17:00	396	+	485	=	881	5	9	No
07:45 - 08:45	493	+	378	=	871	16	5	No
15:30 - 16:30	399	+	445	=	844	12	6	No
08:00 - 09:00	445	+	396	=	841	18	6	No
17:15 - 18:15	322	+	513	=	835	5	21	No
08:15 - 09:15	425	+	375	=	800	21	7	No
15:15 - 16:15	389	+	410	=	799	15	5	No
08:30 - 09:30	382	+	387	=	769	20	6	No
07:30 - 08:30	496	+	270	=	766	15	3	No
07:15 - 08:15	483	+	283	=	766	18	1	No
15:00 - 16:00	392	+	368	=	760	20	9	No
17:30 - 18:30	277	+	459	=	736	3	16	No
14:45 - 15:45	395	+	335	=	730	24	12	No
07:00 - 08:00	475	+	254	=	729	15	1	No
14:30 - 15:30	387	+	324	=	711	20	12	No
14:15 - 15:15	353	+	319	=	672	18	12	No
17:45 - 18:45	248	+	383	=	631	6	7	No
11:45 - 12:45	301	+	329	=	630	9	5	No
14:00 - 15:00	317	+	300	=	617	13	11	No
11:30 - 12:30	291		322		613	8	6	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 8-State Rd_Quick Rd North

Study Date : 9/21/2023

Warrant 1C Combination of Warrants

Description

Intended for sites where the traffic volumes don't meet individual warrants but where Warrants 1A and 1B are both met to 80% of their stated values.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 hours meet 1A minimums. Only 0 hours meet 1B minimums. Warrant is NOT met.

Volume Requirements

Warrant 1A 1B Veh/Hr Major = **400 600**

Veh/Hr Minor = **120 60**

Major Road State Rd

Minor Road Quick Rd North

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:30 - 17:30	393	+	522	=	915	4	17	No
16:15 - 17:15	405	+	501	=	906	4	13	No
16:45 - 17:45	368	+	535	=	903	4	22	No
17:00 - 18:00	354	+	536	=	890	5	22	No
15:45 - 16:45	407	+	482	=	889	7	8	No
16:00 - 17:00	396	+	485	=	881	5	9	No
07:45 - 08:45	493	+	378	=	871	16	5	No
15:30 - 16:30	399	+	445	=	844	12	6	No
08:00 - 09:00	445	+	396	=	841	18	6	No
17:15 - 18:15	322	+	513	=	835	5	21	No
08:15 - 09:15	425	+	375	=	800	21	7	No
15:15 - 16:15	389		410		799	15	5	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
16:30 - 17:30	393	+	522	=	915	4	17	No
16:15 - 17:15	405	+	501	=	906	4	13	No
16:45 - 17:45	368	+	535	=	903	4	22	No
17:00 - 18:00	354	+	536	=	890	5	22	No
15:45 - 16:45	407	+	482	=	889	7	8	No
16:00 - 17:00	396	+	485	=	881	5	9	No
07:45 - 08:45	493	+	378	=	871	16	5	No
15:30 - 16:30	399	+	445	=	844	12	6	No
08:00 - 09:00	445	+	396	=	841	18	6	No
17:15 - 18:15	322	+	513	=	835	5	21	No
08:15 - 09:15	425	+	375	=	800	21	7	No
15:15 - 16:15	389		410		799	15	5	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 8-State Rd_Quick Rd North

Study Date: 9/21/2023 Warrant 2 - Four Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during any four hours of the day is the principal reason for consideration of a signal installation.

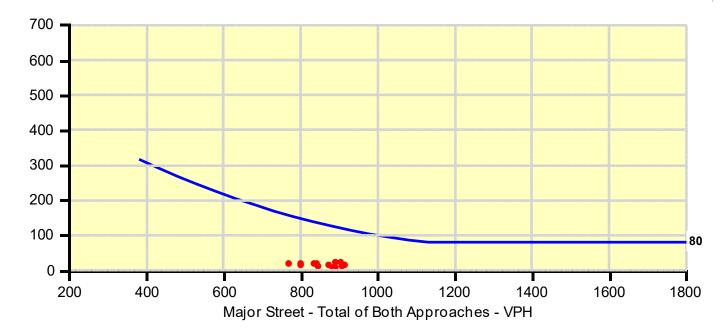
Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

		ajor Ro State F					Road Rd North	
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:30 - 17:30	393	+	522	=	915	4	17	No
16:15 - 17:15	405	+	501	=	906	4	13	No
16:45 - 17:45	368	+	535	=	903	4	22	No
17:00 - 18:00	354	+	536	=	890	5	22	No
15:45 - 16:45	407	+	482	=	889	7	8	No
16:00 - 17:00	396	+	485	=	881	5	9	No
07:45 - 08:45	493	+	378	=	871	16	5	No
15:30 - 16:30	399	+	445	=	844	12	6	No
08:00 - 09:00	445	+	396	=	841	18	6	No
17:15 - 18:15	322	+	513	=	835	5	21	No
08:15 - 09:15	425	+	375	=	800	21	7	No



520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 8-State Rd_Quick Rd North

Study Date : 9/21/2023

Warrant 3A - Peak Hour Delay

Description

Intended for sites where for one hour of the day minor street traffic suffers undue traffic delay entering or crossing the major street.

Site Data Required

Number of Minor Lanes =1

Summary

12 one hour periods meet minimums. Warrant is NOT met.

Volume and Delay Requirements Veh/Hr All Approaches = 800

Veh/Hr All Approaches = **800** Veh/Hr Minor = **100** Total Delay (Veh-Hrs) = **4**

Major R	load		Min	or Road	
State I	Rd		Quick	Rd North	
al of All	Minor	Delay	Minor	Delay	

Time	Total of All Approaches	Met?	Minor EB	Delay EB	Met?	Minor WB	Delay WB	Met?	Warrant Met?
16:30 - 17:30	936	Yes	4	0.0		17	0.0	No	No
16:45 - 17:45	929	Yes	4	0.0		22	0.0	No	No
16:15 - 17:15	923	Yes	4	0.0		13	0.0	No	No
17:00 - 18:00	917	Yes	5	0.0		22	0.0	No	No
15:45 - 16:45	904	Yes	7	0.0		8	0.0	No	No
16:00 - 17:00	895	Yes	5	0.0		9	0.0	No	No
07:45 - 08:45	892	Yes	16	0.0	No	5	0.0		No
08:00 - 09:00	865	Yes	18	0.0	No	6	0.0		No
15:30 - 16:30	862	Yes	12	0.0	No	6	0.0		No
17:15 - 18:15	861	Yes	5	0.0		21	0.0	No	No
08:15 - 09:15	828	Yes	21	0.0	No	7	0.0		No
15:15 - 16:15	819	Yes	15	0.0	No	5	0.0		No
08:30 - 09:30	795	No	20	0.0	No	6	0.0		No
15:00 - 16:00	789	No	20	0.0	No	9	0.0		No
07:15 - 08:15	785	No	18	0.0	No	1	0.0		No
07:30 - 08:30	784	No	15	0.0	No	3	0.0		No
14:45 - 15:45	766	No	24	0.0	No	12	0.0		No
17:30 - 18:30	755	No	3	0.0		16	0.0	No	No
07:00 - 08:00	745	No	15	0.0	No	1	0.0		No
14:30 - 15:30	743	No	20	0.0	No	12	0.0		No
14:15 - 15:15	702	No	18	0.0	No	12	0.0		No
17:45 - 18:45	644	No	6	0.0		7	0.0	No	No
11:45 - 12:45	644	No	9	0.0	No	5	0.0		No
14:00 - 15:00	641	No	13	0.0	No	11	0.0		No
11:30 - 12:30	627	No	8	0.0	No	6	0.0		No

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520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 8-State Rd_Quick Rd North

Study Date: 9/21/2023 Warrant 3B - Peak Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during one hour of the day is the principal reason for consideration of a signal installation.

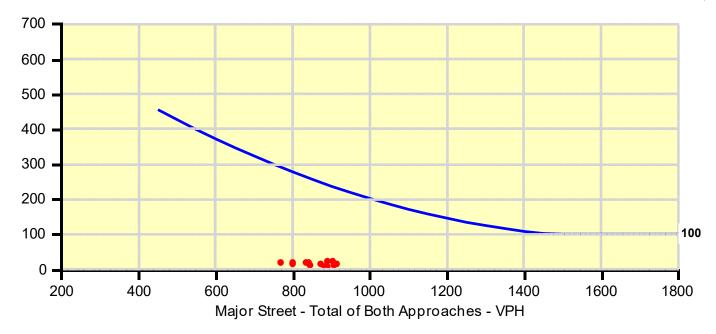
Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 0 one hour periods meet minimums. Warrant is NOT met.

	Major Road State Rd				Minor Road Quick Rd North					
Time	Major NB	+	Major SB	=	Total		Minor EB	Minor WB		Met?
16:30 - 17:30	393	+	522	=	915		4	17		No
16:15 - 17:15	405	+	501	=	906		4	13		No
16:45 - 17:45	368	+	535	=	903		4	22		No
17:00 - 18:00	354	+	536	=	890		5	22		No
15:45 - 16:45	407	+	482	=	889		7	8		No
16:00 - 17:00	396	+	485	=	881		5	9		No
07:45 - 08:45	493	+	378	=	871		16	5		No
15:30 - 16:30	399	+	445	=	844		12	6		No
08:00 - 09:00	445	+	396	=	841		18	6		No
17:15 - 18:15	322	+	513	=	835		5	21		No
08:15 - 09:15	425	+	375	=	800		21	7		No



520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 9-State Rd_Quick RdSouth_Audi South Drive

Study Date : 9/21/2023

Signal Warrants - Summary

Major Street Approaches

Northbound: State Rd Number of Lanes: 1

Total Approach Volume: 5,637

Southbound: State Rd Number of Lanes :1

Total Approach Volume: 3,867

Minor Street Approaches

Eastbound: Quick Rd South Number of Lanes :1

Number of Lanes . I

Total Approach Volume: 1,507

Westbound: Audi South Drive

Number of Lanes:1

Total Approach Volume: 115

Warrant Summary ^(Urban Values Apply)	
Varrant 1 - Eight Hour Vehicular Volumes	Not Satisfied
Warrant 1A - Minimum Vehicular Volume Required volumes reached for 4 hours, 8 are needed	Not Satisfied
Warrant 1B - Interruption of Continuous Traffic	Not Satisfied
Warrant 1C - Combination of Warrants	Not Satisfied
Narrant 2 - Four Hour Volumes Number of hours (6) volumes exceed minimum >= minimum required (4).	Satisfied
Narrant 3 - Peak Hour	Satisfied
Warrant 3A - Peak Hour Delay Total approach volumes and delays on minor street do not exceed minimums for any one hour pe	
Warrant 3B - Peak Hour Volumes	Satisfied
Narrant 4 - Pedestrian Volumes	Not Evaluated
Narrant 5 - School Crossing	Not Evaluated
Narrant 5 - School Crossing	
	Not Evaluated
Warrant 6 - Coordinated Signal System	Not Evaluated

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 9-State Rd_Quick RdSouth_Audi South Drive

Study Date : 9/21/2023

Warrant 1A - Minimum Volumes

Description

Intended for sites where the volume of intersecting traffic is the principal reason for consideration of a signal installation.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 4 one hour periods meet minimums. Warrant is NOT met.

Volume Requirements

Veh/Hr Major = 500

		ajor Ro State R					or Road Rd South	
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
17:15 - 18:15	505	+	486	=	991	169	16	Yes
14:45 - 15:45	564	+	362	=	926	158	12	Yes
06:45 - 07:45	618	+	173	=	791	189	1	Yes
13:45 - 14:45	480	+	274	=	754	174	6	Yes
17:00 - 18:00	559	+	514	=	1073	146	14	No
16:45 - 17:45	544	+	526	=	1070	121	13	No
16:30 - 17:30	529	+	522	=	1051	123	12	No
16:15 - 17:15	541	+	496	=	1037	130	14	No
15:45 - 16:45	522	+	486	=	1008	141	12	No
16:00 - 17:00	518	+	483	=	1001	140	14	No
07:45 - 08:45	641	+	358	=	999	75	2	No
08:00 - 09:00	590	+	382	=	972	91	2	No
08:15 - 09:15	558	+	359	=	917	95	2	No
08:30 - 09:30	499	+	367	=	866	97	6	No
13:30 - 14:30	426	+	279	=	705	91	6	No
11:45 - 12:45	381	+	319	=	700	95	16	No
11:30 - 12:30	376	+	310	=	686	89	13	No
08:45 - 09:45	430	+	252	=	682	96	9	No
12:00 - 13:00	383	+	287	=	670	95	17	No
13:15 - 14:15	399	+	270	=	669	86	6	No
11:15 - 12:15	371	+	298	=	669	75	8	No
13:00 - 14:00	368	+	275	=	643	83	9	No
12:45 - 13:45	344	+	276	=	620	72	11	No
11:00 - 12:00	338	+	274	=	612	82	5	No
12:15 - 13:15	344		266		610	97	17	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 9-State Rd_Quick RdSouth_Audi South Drive

Study Date : 9/21/2023

Warrant 1B - Interruption of Continuous Traffic

Description

Intended for sites where the volume of the major street is so heavy that traffic on the minor street suffers excessive delay or hazard.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 6 one hour periods meet minimums. Warrant is NOT met.

Volume Requirements

Veh/Hr Major = 750

		Major Road State Rd Major + Major					or Road Rd South	
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:45 - 17:45	544	+	526	=	1070	121	13	Yes
15:45 - 16:45	522	+	486	=	1008	141	12	Yes
07:45 - 08:45	641	+	358	=	999	75	2	Yes
14:45 - 15:45	564	+	362	=	926	158	12	Yes
06:45 - 07:45	618	+	173	=	791	189	1	Yes
13:45 - 14:45	480	+	274	=	754	174	6	Yes
17:45 - 18:45	372	+	361	=	733	179	15	No
13:30 - 14:30	426	+	279	=	705	91	6	No
11:45 - 12:45	381	+	319	=	700	95	16	No
11:30 - 12:30	376	+	310	=	686	89	13	No
08:45 - 09:45	430	+	252	=	682	96	9	No
12:00 - 13:00	383	+	287	=	670	95	17	No
13:15 - 14:15	399	+	270	=	669	86	6	No
11:15 - 12:15	371	+	298	=	669	75	8	No
18:00 - 19:00	326	+	321	=	647	167	9	No
13:00 - 14:00	368	+	275	=	643	83	9	No
12:45 - 13:45	344	+	276	=	620	72	11	No
11:00 - 12:00	338	+	274	=	612	82	5	No
12:15 - 13:15	344	+	266	=	610	97	17	No
12:30 - 13:30	336	+	259	=	595	78	13	No
09:00 - 10:00	371	+	204	=	575	74	12	No
10:45 - 11:45	338	+	237	=	575	86	6	No
10:30 - 11:30	335	+	233	=	568	88	7	No
10:15 - 11:15	323	+	215	=	538	90	8	No
06:30 - 07:30	434		102		536	124	0	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 9-State Rd_Quick RdSouth_Audi South Drive

Study Date : 9/21/2023

Warrant 1C Combination of Warrants

Description

Intended for sites where the traffic volumes don't meet individual warrants but where Warrants 1A and 1B are both met to 80% of their stated values.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

Only 7 hours meet 1A minimums. 11 hours meet 1B minimums. Warrant is NOT met.

Volume Requirements

Warrant 1A 1B Veh/Hr Major = **400 600**

Veh/Hr Minor = **120 60**

Major Road State Rd

Minor Road Quick Rd South

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:45 - 17:45	544	+	526	=	1070	121	13	Yes
15:45 - 16:45	522	+	486	=	1008	141	12	Yes
07:30 - 08:30	670	+	267	=	937	120	3	Yes
14:45 - 15:45	564	+	362	=	926	158	12	Yes
13:45 - 14:45	480	+	274	=	754	174	6	Yes
17:45 - 18:45	372	+	361	=	733	179	15	Yes
06:30 - 07:30	434	+	102	=	536	124	0	Yes
08:30 - 09:30	499	+	367	=	866	97	6	No
13:30 - 14:30	426	+	279	=	705	91	6	No
11:45 - 12:45	381	+	319	=	700	95	16	No
11:30 - 12:30	376	+	310	=	686	89	13	No
08:45 - 09:45	430		252		682	96	9	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
17:00 - 18:00	559	+	514	=	1073	146	14	Yes
16:00 - 17:00	518	+	483	=	1001	140	14	Yes
07:45 - 08:45	641	+	358	=	999	75	2	Yes
15:00 - 16:00	534	+	406	=	940	140	12	Yes
14:00 - 15:00	522	+	288	=	810	192	8	Yes
06:45 - 07:45	618	+	173	=	791	189	1	Yes
08:45 - 09:45	430	+	252	=	682	96	9	Yes
12:00 - 13:00	383	+	287	=	670	95	17	Yes
18:00 - 19:00	326	+	321	=	647	167	9	Yes
13:00 - 14:00	368	+	275	=	643	83	9	Yes
11:00 - 12:00	338	+	274	=	612	82	5	Yes
10:45 - 11:45	338		237		575	86	6	No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 9-State Rd_Quick RdSouth_Audi South Drive

Study Date: 9/21/2023 Warrant 2 - Four Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during any four hours of the day is the principal reason for consideration of a signal installation.

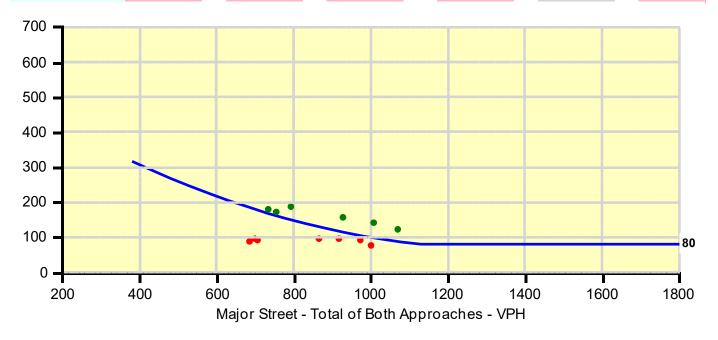
Summary

6 one hour periods meet minimums. Warrant IS met.

Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

		ijor R <mark>tate</mark>					or Road Rd South	
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:45 - 17:45	544	+	526	=	1070	121	13	Yes
15:45 - 16:45	522	+	486	=	1008	141	12	Yes
14:45 - 15:45	564	+	362	=	926	158	12	Yes
06:45 - 07:45	618	+	173	=	791	189	1	Yes
13:45 - 14:45	480	+	274	=	754	174	6	Yes
17:45 - 18:45	372	+	361	=	733	179	15	Yes
07:45 - 08:45	641	+	358	=	999	75	2	No
08:00 - 09:00	590	+	382	=	972	91	2	No
08:15 - 09:15	558	+	359	=	917	95	2	No
08:30 - 09:30	499	+	367	=	866	97	6	No
13:30 - 14:30	426	+	279	=	705	91	6	No



520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 9-State Rd_Quick RdSouth_Audi South Drive

Study Date : 9/21/2023

Warrant 3A - Peak Hour Delay

Description

Intended for sites where for one hour of the day minor street traffic suffers undue traffic delay entering or crossing the major street.

Site Data Required

Number of Minor Lanes =1

Summary

28 one hour periods meet minimums. Warrant is NOT met.

Volume and Delay Requirements Veh/Hr All Approaches = 800

Veh/Hr All Approaches = 800 Veh/Hr Minor = 100 Total Delay (Veh-Hrs) = 4

Major Road State Rd

Minor Road Quick Rd South

		Otate I	LG .			Quick	ika ooutii		
Time	Total of All Approaches	Met?	Minor EB	Delay EB	Met?	Minor WB	Delay WB	Met?	Warrant Met?
07:00 - 08:00	1259	Yes	212	0.0	No	2	0.0		No
17:00 - 18:00	1233	Yes	146	0.0	No	14	0.0		No
07:15 - 08:15	1226	Yes	186	0.0	No	3	0.0		No
16:45 - 17:45	1204	Yes	121	0.0	No	13	0.0		No
16:30 - 17:30	1186	Yes	123	0.0	No	12	0.0		No
16:15 - 17:15	1181	Yes	130	0.0	No	14	0.0		No
17:15 - 18:15	1176	Yes	169	0.0	No	16	0.0		No
15:45 - 16:45	1161	Yes	141	0.0	No	12	0.0		No
16:00 - 17:00	1155	Yes	140	0.0	No	14	0.0		No
14:30 - 15:30	1149	Yes	227	0.0	No	11	0.0		No
15:30 - 16:30	1107	Yes	113	0.0	No	13	0.0		No
15:15 - 16:15	1097	Yes	129	0.0	No	13	0.0		No
14:45 - 15:45	1096	Yes	158	0.0	No	12	0.0		No
14:15 - 15:15	1095	Yes	210	0.0	No	10	0.0		No
15:00 - 16:00	1092	Yes	140	0.0	No	12	0.0		No
17:30 - 18:30	1085	Yes	201	0.0	No	16	0.0		No
07:45 - 08:45	1076	Yes	75	0.0	No	2	0.0		No
08:00 - 09:00	1065	Yes	91	0.0	No	2	0.0		No
07:30 - 08:30	1060	Yes	120	0.0	No	3	0.0		No
08:15 - 09:15	1014	Yes	95	0.0	No	2	0.0		No
14:00 - 15:00	1010	Yes	192	0.0	No	8	0.0		No
06:45 - 07:45	981	Yes	189	0.0	No	1	0.0		No
08:30 - 09:30	969	Yes	97	0.0	No	6	0.0		No
13:45 - 14:45	934	Yes	174	0.0	No	6	0.0		No
17:45 - 18:45	927	Yes	179	0.0	No	15	0.0		No

520 South Main Street, Suite 2531 Akron, OH 44311 (330) 572-2100

Study Name: 9-State Rd_Quick RdSouth_Audi South Drive

Study Date : 9/21/2023

Warrant 3B - Peak Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during one hour of the day is the principal reason for consideration of a signal installation.

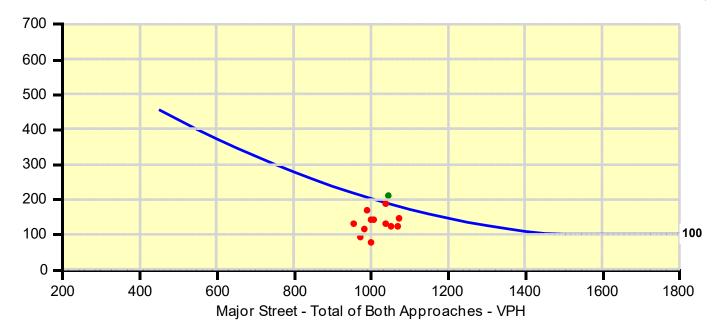
Site Data Required

Rural Settings Apply = False
Number of Major Lanes = 1
Number of Minor Lanes = 1

Summary

1 one hour periods meet minimums. Warrant IS met.

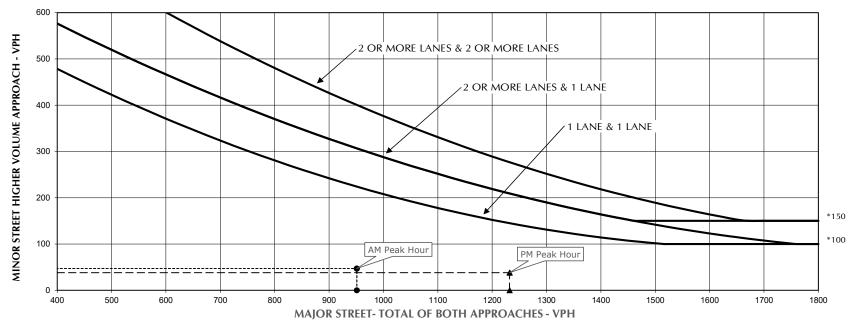
		ajor Ro State F					Road d South	
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
07:00 - 08:00	808	+	237	=	1045	212	2	Yes
17:00 - 18:00	559	+	514	=	1073	146	14	No
16:45 - 17:45	544	+	526	=	1070	121	13	No
16:30 - 17:30	529	+	522	=	1051	123	12	No
07:15 - 08:15	765	+	272	=	1037	186	3	No
16:15 - 17:15	541	+	496	=	1037	130	14	No
15:45 - 16:45	522	+	486	=	1008	141	12	No
16:00 - 17:00	518	+	483	=	1001	140	14	No
07:45 - 08:45	641	+	358	=	999	75	2	No
17:15 - 18:15	505	+	486	=	991	169	16	No
15:30 - 16:30	521	+	460	=	981	113	13	No





State Road / Boulder Blvd Intersection

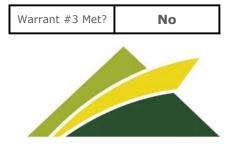
FIGURE 4C-3. Warrant 3, Peak Hour



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies a the lower threshold volume for a minor-street with one lane.

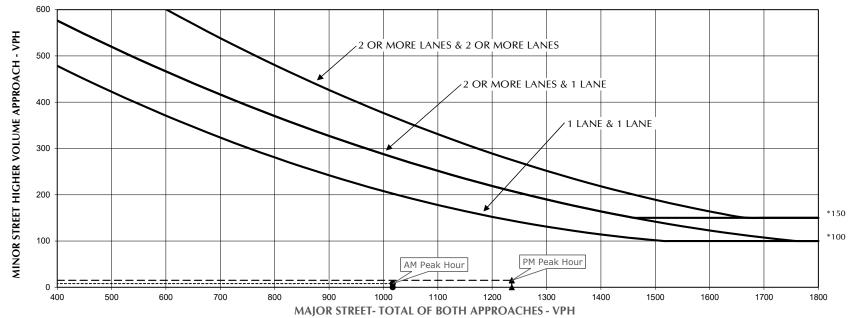
Ro	adway	Lanes
Major Road	State Road	1
Minor Road	Boulder Blvd	1

AM Peak Hour Volumes	
Major Street - Total of Both Approaches= Minor Street - Higher Volume Approach=	951 47
Midday Peak Hour Volumes ■	
Major Street - Total of Both Approaches= Minor Street - Higher Volume Approach=	
PM Peak Hour Volumes	
Major Street - Total of Both Approaches= Minor Street - Higher Volume Approach=	1232 38



State Road / Falls Commerce Parkway Intersection

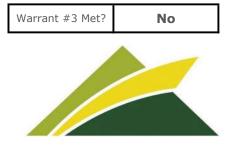
FIGURE 4C-3. Warrant 3, Peak Hour



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies a the lower threshold volume for a minor-street with one lane.

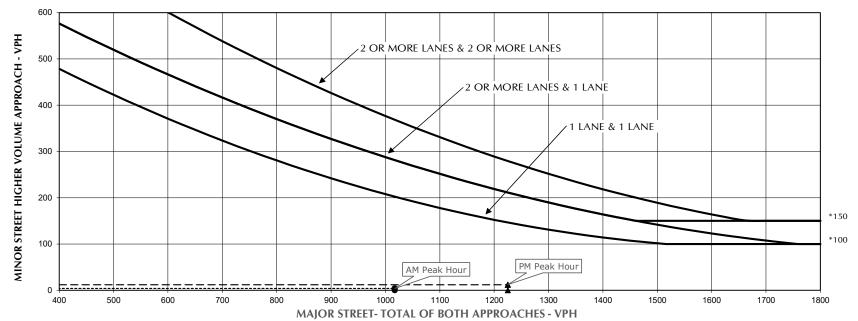
Ro	adway	Lanes
Major Road	State Road	1
Minor Road	Falls Commerce	1

AM Peak Hour Volumes	
Major Street - Total of Both Approaches=	1017
Minor Street - Higher Volume Approach=	8
3 1 1 1 pp	
Midday Peak Hour Volumes	
Major Street - Total of Both Approaches=	
Minor Street - Higher Volume Approach=	
Timor ource: Trigiter volume Approach	
PM Peak Hour Volumes	
Major Street - Total of Both Approaches=	1236
Minor Street - Higher Volume Approach=	1.5
Timor Street Trigher Volume Approach	13



State Road / Buckeye Drive / Storr-it Intersection

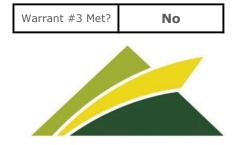
FIGURE 4C-3. Warrant 3, Peak Hour



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies a the lower threshold volume for a minor-street with one lane.

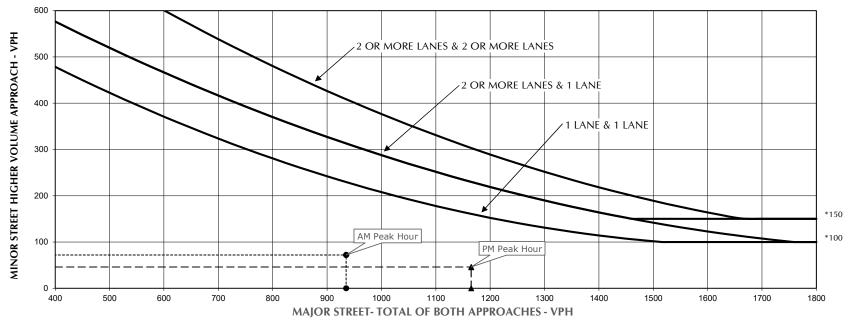
Ro	adway	Lanes
Major Road	State Road	1
Minor Road	Buckeye Drive /	1

AM Peak Hour Volumes	
Major Street - Total of Both Approaches=	1017
Minor Street - Higher Volume Approach=	4
Midday Peak Hour Volumes	
Major Street - Total of Both Approaches=	
Minor Street - Higher Volume Approach=	
PM Peak Hour Volumes	
Major Street - Total of Both Approaches=	1225
Minor Street - Higher Volume Approach=	12



State Road / Salt Creek Run Intersection

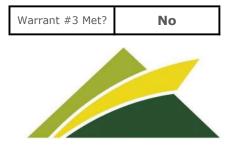
FIGURE 4C-3. Warrant 3, Peak Hour



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies a the lower threshold volume for a minor-street with one lane.

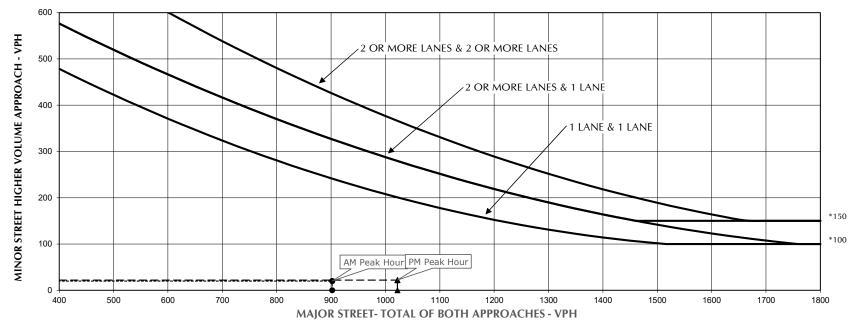
Ro	adway	Lanes
Major Road	State Road	1
Minor Road	Salt Creek Run	1

AM Peak Hour Volumes	
Major Street - Total of Both Approaches= Minor Street - Higher Volume Approach=	935 72
Midday Peak Hour Volumes	•
Major Street - Total of Both Approaches= Minor Street - Higher Volume Approach=	
PM Peak Hour Volumes →	
Major Street - Total of Both Approaches= Minor Street - Higher Volume Approach=	1165 46



State Road / Woodridge Elem North Drive Intersection

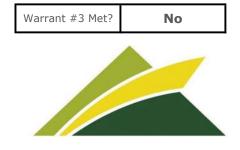
FIGURE 4C-3. Warrant 3, Peak Hour



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies a the lower threshold volume for a minor-street with one lane.

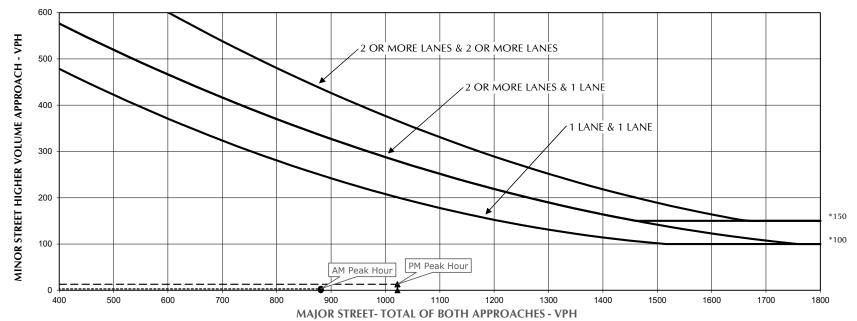
Ro	Lanes	
Major Road	State Road	1
Minor Road	Woodridge Elem	1

AM Peak Hour Volumes	
	000
Major Street - Total of Both Approaches=	902
Minor Street - Higher Volume Approach=	20
3	
Midday Peak Hour Volumes	
Major Street - Total of Both Approaches=	
Minor Street - Higher Volume Approach=	
Timor Street Trighter Volume Approach	
PM Peak Hour Volumes →	
Major Street - Total of Both Approaches=	1022
Minor Street - Higher Volume Approach=	22
Filliof Street Trigher Volume Approach	~~



State Road / Woodridge Elem South Drive Intersection

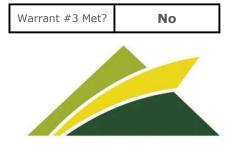
FIGURE 4C-3. Warrant 3, Peak Hour



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies a the lower threshold volume for a minor-street with one lane.

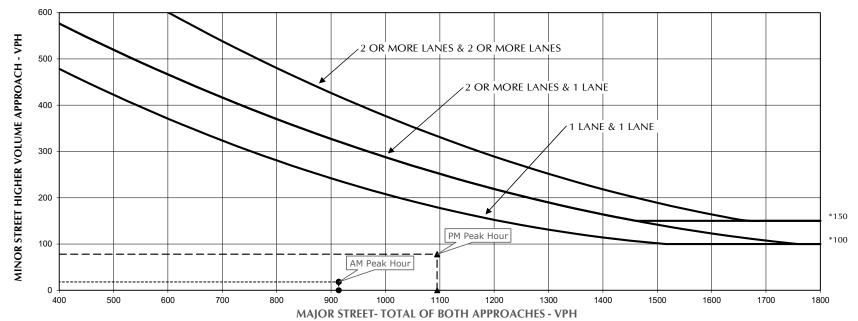
Ro	Lanes	
Major Road	State Road	1
Minor Road	Woodridge Elem	1

AM Peak Hour Volumes	
Major Street - Total of Both Approaches= Minor Street - Higher Volume Approach=	881 3
Midday Peak Hour Volumes	
Major Street - Total of Both Approaches= Minor Street - Higher Volume Approach=	
PM Peak Hour Volumes	
Major Street - Total of Both Approaches= Minor Street - Higher Volume Approach=	1022 13



State Road / Falls Industrial Parkway Intersection

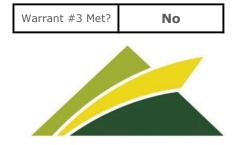
FIGURE 4C-3. Warrant 3, Peak Hour



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies a the lower threshold volume for a minor-street with one lane.

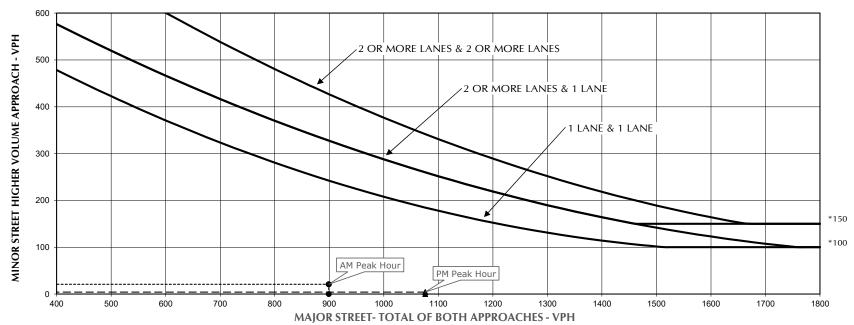
Ro	Lanes	
Major Road	State Road	1
Minor Road	Falls Industrial	1

AM Peak Hour Volumes	
Major Street - Total of Both Approaches=	914
Minor Street - Higher Volume Approach=	18
Midday Peak Hour Volumes	
Major Street - Total of Both Approaches=	
Minor Street - Higher Volume Approach=	
PM Peak Hour Volumes →	
Major Street - Total of Both Approaches=	1095
Minor Street - Higher Volume Approach=	78



State Road / Quick Road / Audi Dealership North Intersection

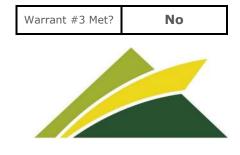
FIGURE 4C-3. Warrant 3, Peak Hour



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies a the lower threshold volume for a minor-street with one lane.

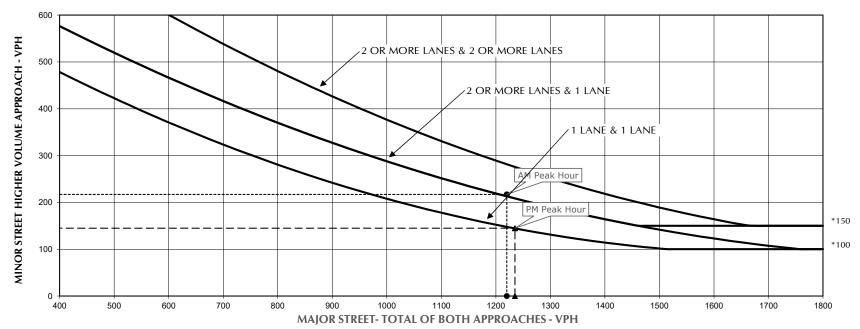
Ro	Lanes	
Major Road	State Road	1
Minor Road	Quick Road / Audi	1

AM Peak Hour Volumes•	
AM Peak Hour Volumes	
Major Street - Total of Both Approaches=	899
Minor Street - Higher Volume Approach=	21
Midday Peak Hour Volumes	
Major Street - Total of Both Approaches= Minor Street - Higher Volume Approach=	
PM Peak Hour Volumes	
Major Street - Total of Both Approaches=	1076
riajor screet rotal of both Approaches—	



State Road / Quick Road / Audi Dealership North Intersection

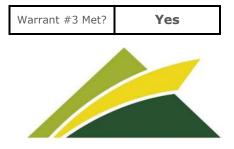
FIGURE 4C-3. Warrant 3, Peak Hour



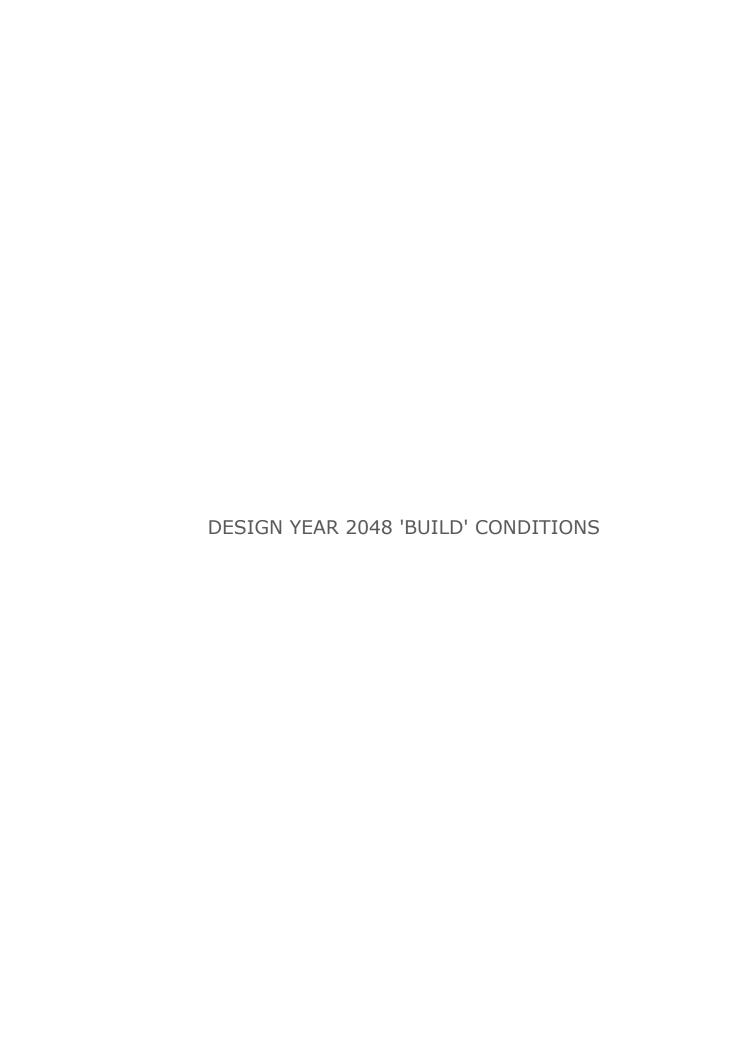
*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies a the lower threshold volume for a minor-street with one lane.

Ro	Lanes	
Major Road	State Road	1
Minor Road	Quick Road / Audi	1

AM Peak Hour Volumes	
Major Street - Total of Both Approaches=	1220
Minor Street - Higher Volume Approach=	217
Midday Peak Hour Volumes	
Major Street - Total of Both Approaches= Minor Street - Higher Volume Approach=	
PM Peak Hour Volumes →	
Major Street - Total of Both Approaches=	1235
Minor Street - Higher Volume Approach=	145

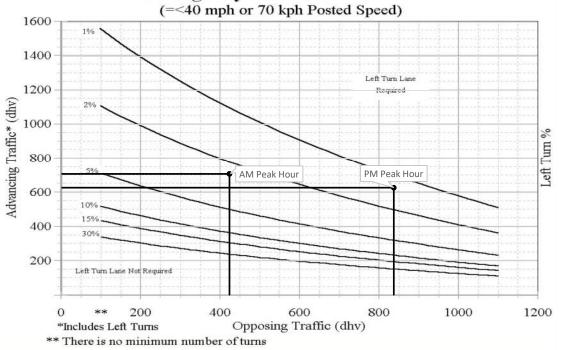


APPENDIX F AUXILIARY TURN LANE WARRANT ANALYSIS



State Road / Boulder Blvd Intersection Northbound Left Turn Lane

2-Lane Highway Left Turn Lane Warrant



Design Year 2048 'Build' Conditions

AM Peak Hour:

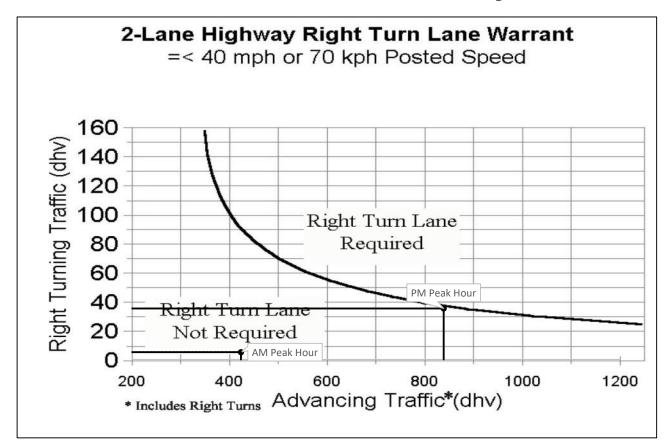
Advancing Traffic = 710 Veh Left Turn Traffic = 1 Veh Opposing Traffic = 423 Veh Left Turn % = 0.1 %

PM Peak Hour:

Advancing Traffic = 629 Veh Left Turn Traffic = 16 Veh Opposing Traffic = 838 Veh Left Turn % = 2.5 %



State Road / Boulder Blvd Intersection Southbound Right Turn Lane



Design Year 2048 'Build' Conditions

AM Peak Hour:

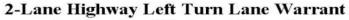
Advancing Traffic = 423 Veh Right Turn Traffic = 5 Veh

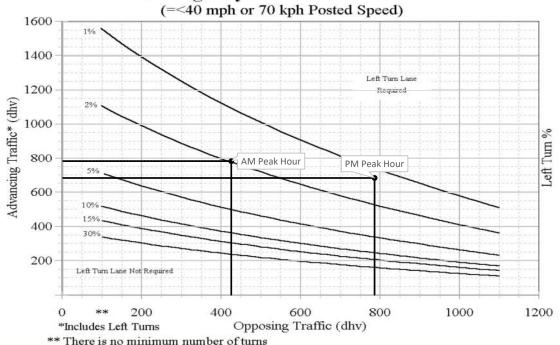
PM Peak Hour:

Advancing Traffic = 838 Veh Right Turn Traffic = 35 Veh



State Road / Falls Commons Intersection Northbound Left Turn Lane





Design Year 2048 'Build' Conditions

AM Peak Hour:

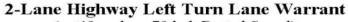
Advancing Traffic = 785 Veh Left Turn Traffic = 1 Veh Opposing Traffic = 425 Veh Left Turn % = 0.1 %

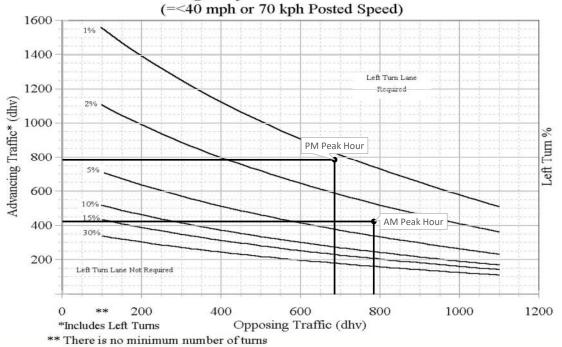
PM Peak Hour:

Advancing Traffic = 686 Veh Left Turn Traffic = 0 Veh Opposing Traffic = 787 Veh Left Turn % = 0 %



State Road / Falls Commons Intersection Southbound Left Turn Lane





Design Year 2048 'Build' Conditions

AM Peak Hour:

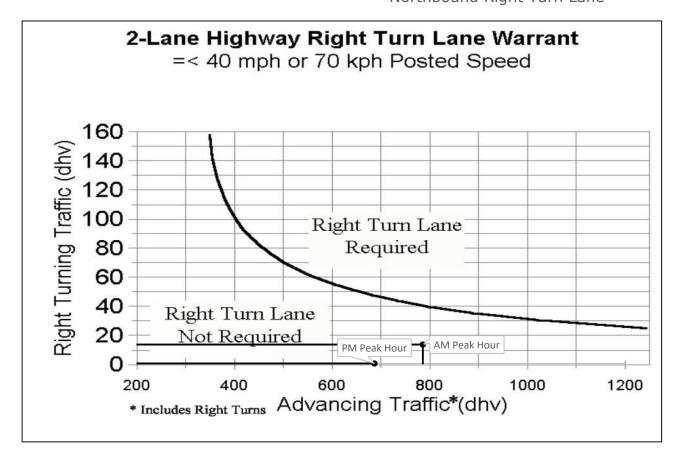
Advancing Traffic = 425 Veh Left Turn Traffic = 11 Veh Opposing Traffic = 785 Veh Left Turn % = 2.6 %

PM Peak Hour:

Advancing Traffic = 787 Veh Left Turn Traffic = 9 Veh Opposing Traffic = 686 Veh Left Turn % = 1.1 %



State Road / Falls Commerce Parkway Intersection Northbound Right Turn Lane



Design Year 2048 'Build' Conditions

AM Peak Hour:

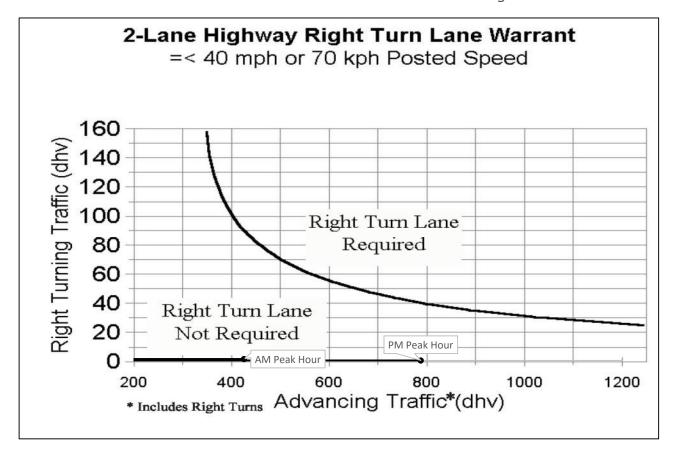
Advancing Traffic = 785 Veh Right Turn Traffic = 13 Veh

PM Peak Hour:

Advancing Traffic = 686 Veh Right Turn Traffic = 0 Veh



State Road / Falls Commerce Parkway Intersection Southbound Right Turn Lane



Design Year 2048 'Build' Conditions

AM Peak Hour:

Advancing Traffic = 425 Veh Right Turn Traffic = 1 Veh

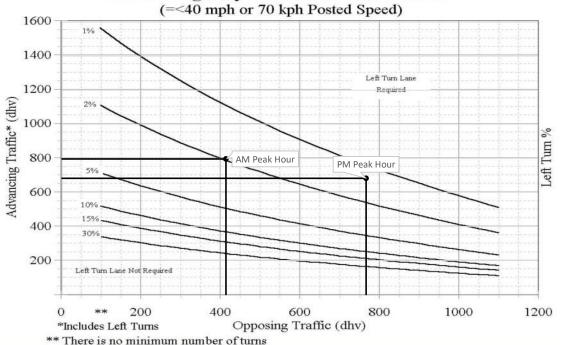
PM Peak Hour:

Advancing Traffic = 787 Veh Right Turn Traffic = 0 Veh



State Road / Buckeye Drive Intersection Northbound Left Turn Lane

2-Lane Highway Left Turn Lane Warrant



Design Year 2048 'Build' Conditions

AM Peak Hour:

Advancing Traffic = 796 Veh Left Turn Traffic = 14 Veh Opposing Traffic = 414 Veh Left Turn % = 1.8 %

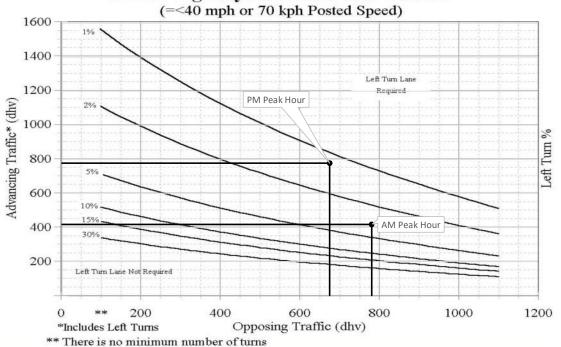
PM Peak Hour:

Advancing Traffic = 682 Veh Left Turn Traffic = 6 Veh Opposing Traffic = 768 Veh Left Turn % = 0.9 %



State Road / Storr-it Drive Intersection Southbound Left Turn Lane

2-Lane Highway Left Turn Lane Warrant



Design Year 2048 'Build' Conditions

AM Peak Hour:

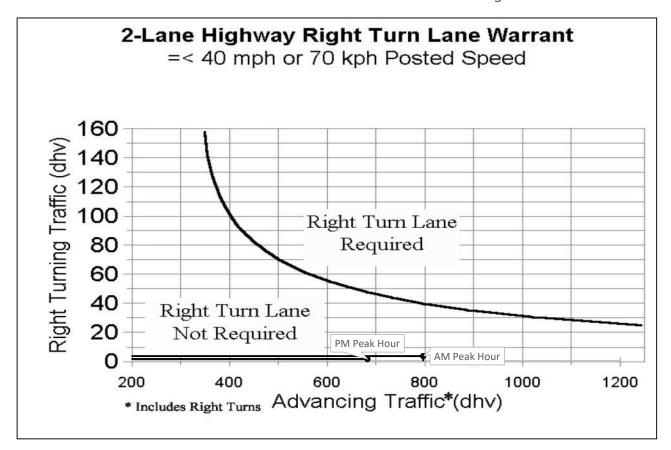
Advancing Traffic = 417 Veh Left Turn Traffic = 3 Veh Opposing Traffic = 782 Veh Left Turn % = 0.7 %

PM Peak Hour:

Advancing Traffic = 777 Veh Left Turn Traffic = 9 Veh Opposing Traffic = 676 Veh Left Turn % = 1.2 %



State Road / Storr it Drive Intersection Northbound Right Turn Lane



Design Year 2048 'Build' Conditions

AM Peak Hour:

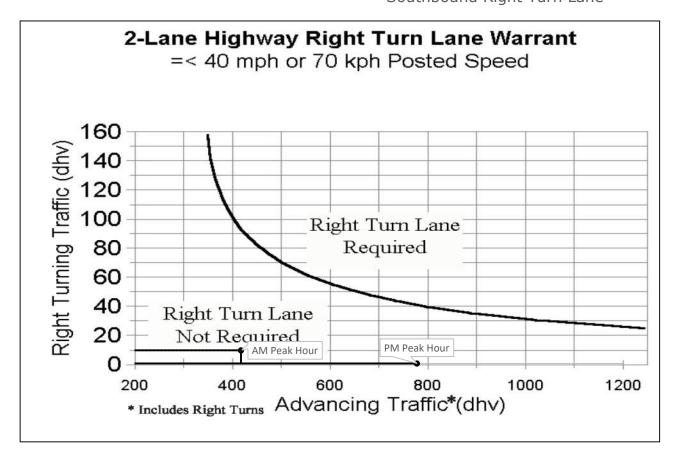
Advancing Traffic = 796 Veh Right Turn Traffic = 3 Veh

PM Peak Hour:

Advancing Traffic = 682 Veh Right Turn Traffic = 1 Veh



State Road / Buckeye Sports Drive Intersection Southbound Right Turn Lane



Design Year 2048 'Build' Conditions

AM Peak Hour:

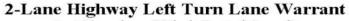
Advancing Traffic = 417 Veh Right Turn Traffic = 9 Veh

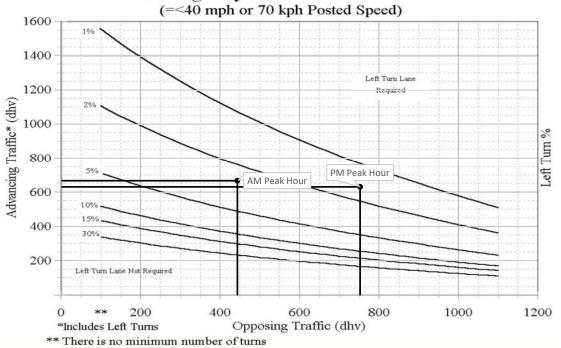
PM Peak Hour:

Advancing Traffic = 777 Veh Right Turn Traffic = 0 Veh



State Road / Salt Creek Run Intersection Northbound Left Turn Lane





Design Year 2048 'Build' Conditions

AM Peak Hour:

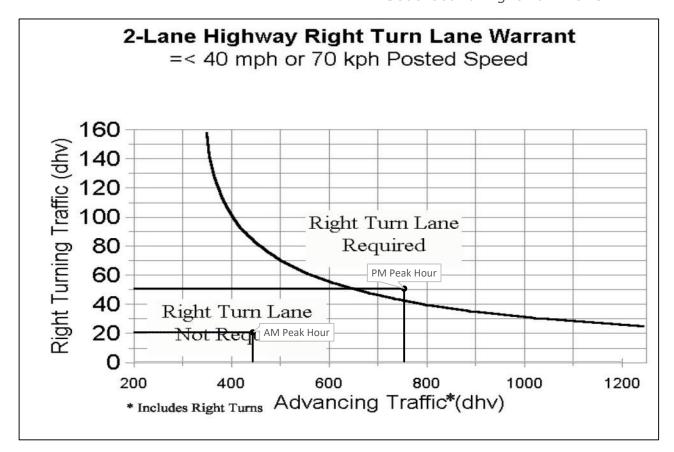
Advancing Traffic = 670 Veh Left Turn Traffic = 5 Veh Opposing Traffic = 443 Veh Left Turn % = 0.7 %

PM Peak Hour:

Advancing Traffic = 634 Veh Left Turn Traffic = 19 Veh Opposing Traffic = 753 Veh Left Turn % = 3 %



State Road / Salt Creek Run Intersection Southbound Right Turn Lane



Design Year 2048 'Build' Conditions

AM Peak Hour:

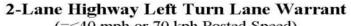
Advancing Traffic = 443 Veh Right Turn Traffic = 20 Veh

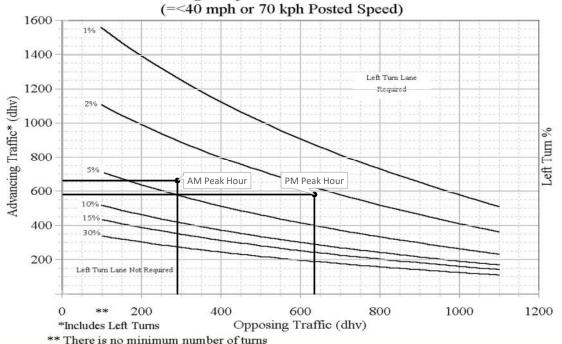
PM Peak Hour:

Advancing Traffic = 753 Veh Right Turn Traffic = 50 Veh



State Road / Woodridge Elementry School Northen Drive Intersection Northbound Left Turn Lane





Design Year 2048 'Build' Conditions

AM Peak Hour:

Advancing Traffic = 665 Veh Left Turn Traffic = 11 Veh Opposing Traffic = 289 Veh Left Turn % = 1.7 %

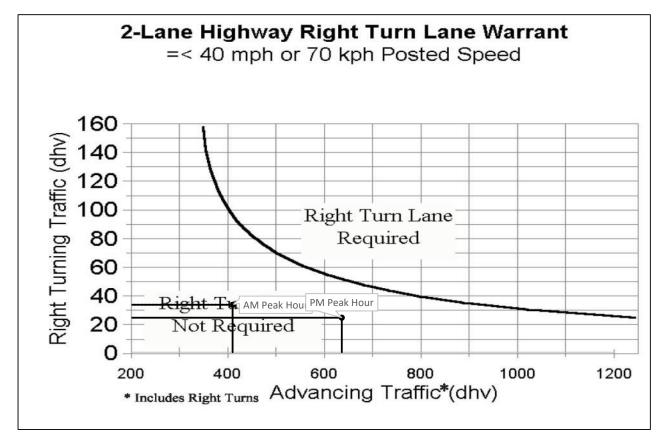
PM Peak Hour:

Advancing Traffic = 583 Veh Left Turn Traffic = 0 Veh Opposing Traffic = 635 Veh Left Turn % = 0 %



State Road / Woodridge Northen Drive Intersection

Southbound Right Turn Lane



Design Year 2048 'Build' Conditions

AM Peak Hour:

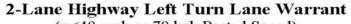
Advancing Traffic = 409 Veh Right Turn Traffic = 33 Veh

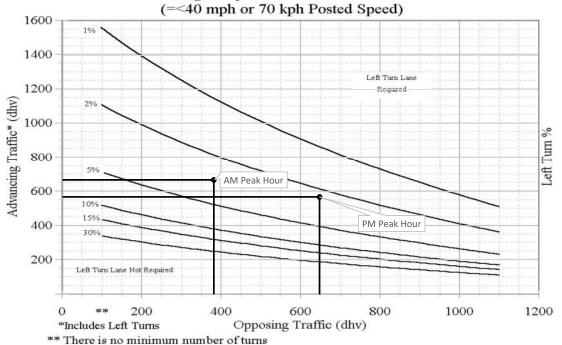
PM Peak Hour:

Advancing Traffic = 635 Veh Right Turn Traffic = 24 Veh



State Road / Woodridge Elementry School Southern Drive Intersection Northbound Left Turn Lane





Design Year 2048 'Build' Conditions

AM Peak Hour:

Advancing Traffic = 669 Veh Left Turn Traffic = 19 Veh Opposing Traffic = 381 Veh Left Turn % = 2.8 %

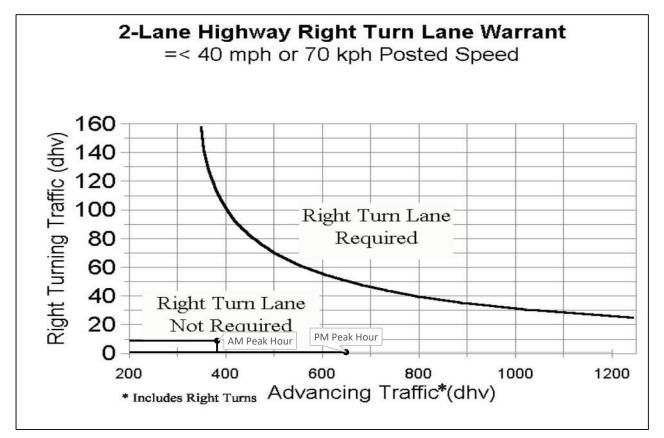
PM Peak Hour:

Advancing Traffic = 569 Veh Left Turn Traffic = 1 Veh Opposing Traffic = 648 Veh Left Turn % = 0.2 %



State Road / Woodridge Southern Drive Intersection

Southbound Right Turn Lane



Design Year 2048 'Build' Conditions

AM Peak Hour:

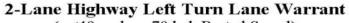
Advancing Traffic = 381 Veh Right Turn Traffic = 8 Veh

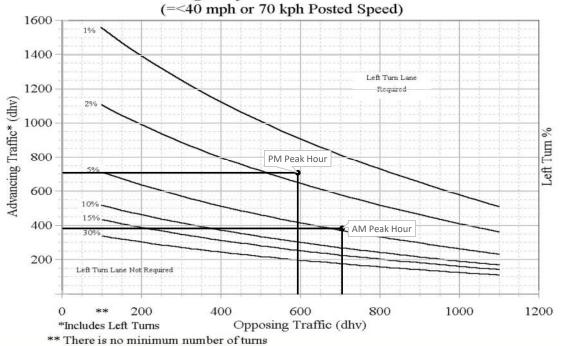
PM Peak Hour:

Advancing Traffic = 648 Veh Right Turn Traffic = 0 Veh



State Road / Falls Industrial Parkway Intersection Southbound Left Turn Lane





Design Year 2048 'Build' Conditions

AM Peak Hour:

Advancing Traffic = 384 Veh Left Turn Traffic = 29 Veh Opposing Traffic = 705 Veh Left Turn % = 7.6 %

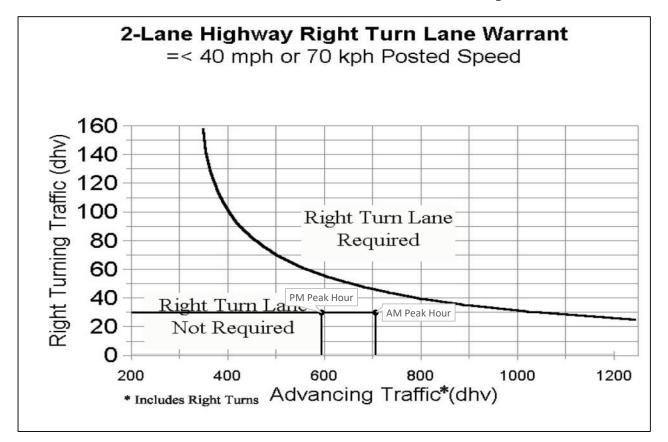
PM Peak Hour:

Advancing Traffic = 711 Veh Left Turn Traffic = 13 Veh Opposing Traffic = 593 Veh Left Turn % = 1.8 %



State Road / Falls Industrial Parkway Intersection

Northbound Right Turn Lane



Design Year 2048 'Build' Conditions

AM Peak Hour:

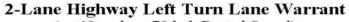
Advancing Traffic = 705 Veh Right Turn Traffic = 29 Veh

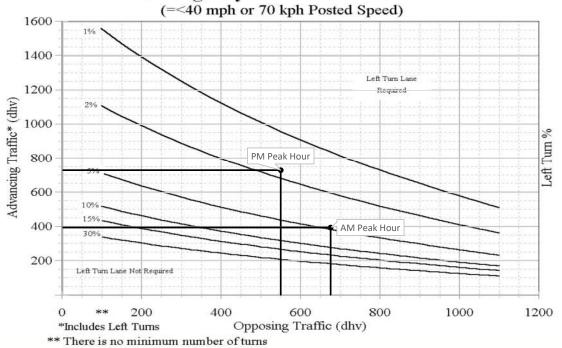
PM Peak Hour:

Advancing Traffic = 593 Veh Right Turn Traffic = 29 Veh



State Road / Audi North Drive Intersection Southbound Left Turn Lane





Design Year 2048 'Build' Conditions

AM Peak Hour:

Advancing Traffic = 395 Veh Left Turn Traffic = 5 Veh Opposing Traffic = 676 Veh Left Turn % = 1.3 %

PM Peak Hour:

Advancing Traffic = 732 Veh Left Turn Traffic = 3 Veh Opposing Traffic = 550 Veh Left Turn % = 0.4 %



State Road / Audi North Drive Intersection

Northbound Right Turn Lane



Design Year 2048 'Build' Conditions

AM Peak Hour:

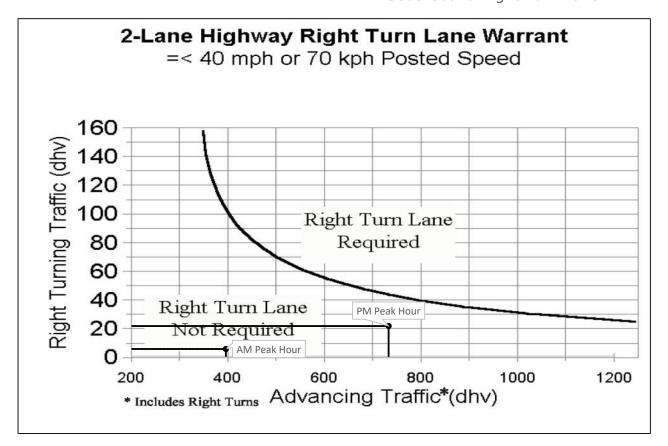
Advancing Traffic = 676 Veh Right Turn Traffic = 1 Veh

PM Peak Hour:

Advancing Traffic = 550 Veh Right Turn Traffic = 3 Veh



State Road / Quick Road Intersection Southbound Right Turn Lane



Design Year 2048 'Build' Conditions

AM Peak Hour:

Advancing Traffic = 395 Veh Right Turn Traffic = 5 Veh

PM Peak Hour:

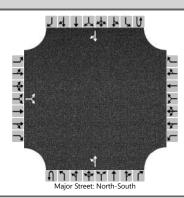
Advancing Traffic = 732 Veh Right Turn Traffic = 21 Veh



APPENDIX G HCS INTERSECTION CAPACITY ANALYSIS

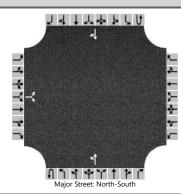


HCS7 Two-Way Stop-Control Report									
General Information		Site Information							
Analyst	Naser J. Tabanja, P.E.	Intersection	State Road / Boulder Blvd						
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls						
Date Performed	9/22/2023	East/West Street	Boulder Blvd						
Analysis Year	2028	North/South Street	State Road						
Time Analyzed	OY AM Peak 'No-Build'	Peak Hour Factor	0.80						
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25						
Project Description	State Road Corridor Study								



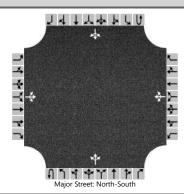
Vehicle Volumes and Ad	justme	nts														
Approach	T	Eastbound				Westbound			Northbound				Southbound			
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	0	0	0	1	0	0	0	1	0
Configuration			LR							LT						TR
Volume (veh/h)		39		8						1	595				351	4
Percent Heavy Vehicles (%)		0		0						100						
Proportion Time Blocked																
Percent Grade (%)			0													
Right Turn Channelized																
Median Type Storage				Undi	vided				i i							
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)	Т	7.1		6.2						4.1						
Critical Headway (sec)		6.40		6.20						5.10						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.50		3.30						3.10						
Delay, Queue Length, an	d Leve	l of S	ervice													
Flow Rate, v (veh/h)	T		59							1						
Capacity, c (veh/h)			236							745						
v/c Ratio			0.25							0.00						
95% Queue Length, Q ₉₅ (veh)			1.0							0.0						
Control Delay (s/veh)			25.2							9.8						
Level of Service (LOS)			D							А						
Approach Delay (s/veh)		2	5.2							0	.0					
Approach LOS			D													

	HCS7 Two-Way Stop-Control Report													
General Information		Site Information												
Analyst	Naser J. Tabanja, P.E.	Intersection	State Road / Boulder Blvd											
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls											
Date Performed	9/22/2023	East/West Street	Boulder Blvd											
Analysis Year	2028	North/South Street	State Road											
Time Analyzed	OY PM Peak 'No-Build'	Peak Hour Factor	0.92											
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25											
Project Description	State Road Corridor Study													



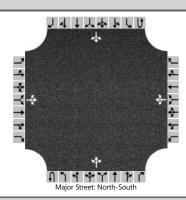
Vehicle Volumes and Adj	justme	nts															
Approach		Eastb	ound			Westl	bound			North	bound			South	bound		
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	1	0		0	0	0	0	0	1	0	0	0	1	0	
Configuration			LR							LT						TR	
Volume (veh/h)		32		6						14	515				674	29	
Percent Heavy Vehicles (%)		0		20						0							
Proportion Time Blocked																	
Percent Grade (%)			0														
Right Turn Channelized																	
Median Type Storage				Undi	vided												
Critical and Follow-up H	eadwa	ys															
Base Critical Headway (sec)		7.1		6.2						4.1							
Critical Headway (sec)		6.40		6.40						4.10							
Base Follow-Up Headway (sec)		3.5		3.3						2.2							
Follow-Up Headway (sec)		3.50		3.48						2.20							
Delay, Queue Length, an	d Leve	l of Se	ervice														
Flow Rate, v (veh/h)			41							15							
Capacity, c (veh/h)			182							858							
v/c Ratio			0.23							0.02							
95% Queue Length, Q ₉₅ (veh)			0.8							0.1							
Control Delay (s/veh)			30.4							9.3							
Level of Service (LOS)			D							А							
Approach Delay (s/veh)		30	0.4							0	.5						
Approach LOS			D														

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/ Falls Com Pkwy
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Falls Commerce Parkway
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY AM Peak 'No-Build'	Peak Hour Factor	0.86
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



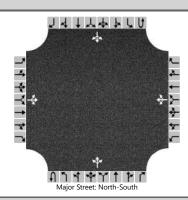
Vehicle Volumes and Ad	justme	nts														
Approach	Т	Eastb	oound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	T	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	0	1	0	0	0	1	0
Configuration			LTR				LTR				LTR				LTR	
Volume (veh/h)		0	0	0		1	0	7		1	648	11		9	347	1
Percent Heavy Vehicles (%)		0	0	0		0	0	66		0				67		
Proportion Time Blocked																
Percent Grade (%)			0			(0									
Right Turn Channelized																
Median Type Storage		Undivided														
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)	T	7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.10	6.50	6.20		7.10	6.50	6.86		4.10				4.77		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3.30		3.50	4.00	3.89		2.20				2.80		
Delay, Queue Length, an	d Leve	l of S	ervice													
Flow Rate, v (veh/h)	Т		0				9			1				10		
Capacity, c (veh/h)							285			1165				618		
v/c Ratio							0.03			0.00				0.02		
95% Queue Length, Q ₉₅ (veh)							0.1			0.0				0.1		
Control Delay (s/veh)							18.1			8.1				10.9		
Level of Service (LOS)							С			А				В		
Approach Delay (s/veh)						18	3.1		0.0				0.5			
Approach LOS						(С									

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/ Falls Com Pkwy
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Falls Commerce Parkway
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY PM Peak 'No-Build'	Peak Hour Factor	0.93
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



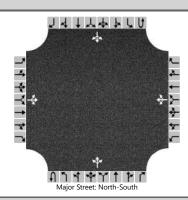
Vehicle Volumes and Adju	ustme	nts																
Approach		Eastb	ound			Westl	oound			North	bound			South	bound			
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R		
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6		
Number of Lanes		0	1	0		0	1	0	0	0	1	0	0	0	1	0		
Configuration			LTR				LTR				LTR				LTR			
Volume (veh/h)		1	0	3		3	0	12		0	576	0		7	653	0		
Percent Heavy Vehicles (%)		0	0	33		0	0	10		0				67				
Proportion Time Blocked																		
Percent Grade (%)			0			()											
Right Turn Channelized																		
Median Type Storage		Undivided																
Critical and Follow-up He	cal and Follow-up Headways																	
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1				
Critical Headway (sec)		7.10	6.50	6.53		7.10	6.50	6.30		4.10				4.77				
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2				
Follow-Up Headway (sec)		3.50	4.00	3.60		3.50	4.00	3.39		2.20				2.80				
Delay, Queue Length, and	l Leve	l of Se	ervice															
Flow Rate, v (veh/h)			4				16			0				8				
Capacity, c (veh/h)			255				308			905				713				
v/c Ratio			0.02				0.05			0.00				0.01				
95% Queue Length, Q ₉₅ (veh)			0.1				0.2			0.0				0.0				
Control Delay (s/veh)			19.4				17.3			9.0				10.1				
Level of Service (LOS)			С				С			А				В				
Approach Delay (s/veh)	19.4			17.3			0.0				0.3							
Approach LOS		(С			(2											

	HCS7 Two-Way Stop-Control Report												
General Information		Site Information											
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Buckeye/Str it										
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls										
Date Performed	9/22/2023	East/West Street	Buckeye Dr / Storr it Dr										
Analysis Year	2028	North/South Street	State Road										
Time Analyzed	OY AM Peak 'No-Build'	Peak Hour Factor	0.86										
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25										
Project Description	State Road Corridor Study												



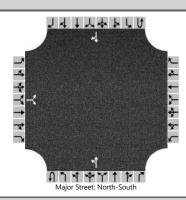
Vehicle Volumes and Adju	ıstme	nts															
Approach		Eastb	ound			Westl	oound			North	bound			South	bound		
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	1	0		0	1	0	0	0	1	0	0	0	1	0	
Configuration			LTR				LTR				LTR				LTR		
Volume (veh/h)		1	0	3		0	0	3		12	654	2		2	340	7	
Percent Heavy Vehicles (%)		0	0	33		0	0	67		10				0			
Proportion Time Blocked																	
Percent Grade (%)			0			()										
Right Turn Channelized																	
Median Type Storage				Undi	vided												
Critical and Follow-up He	adwa	ys															
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1			
Critical Headway (sec)		7.10	6.50	6.53		7.10	6.50	6.87		4.20				4.10			
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2			
Follow-Up Headway (sec)		3.50	4.00	3.60		3.50	4.00	3.90		2.29				2.20			
Delay, Queue Length, and	l Leve	of Se	ervice														
Flow Rate, v (veh/h)			5				3			14				2			
Capacity, c (veh/h)			352				317			1113				859			
v/c Ratio			0.01				0.01			0.01				0.00			
95% Queue Length, Q ₉₅ (veh)			0.0				0.0			0.0				0.0			
Control Delay (s/veh)			15.4				16.5			8.3				9.2			
Level of Service (LOS)			С				С			А				Α			
Approach Delay (s/veh)		15	5.4			16	5.5		0.3				0.1				
Approach LOS		(С			(C										

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Buckeye/Str it
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Buckeye Dr / Storr it Dr
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY PM Peak 'No-Build'	Peak Hour Factor	0.93
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



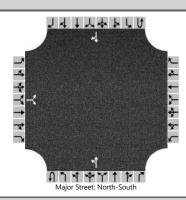
Vehicle Volumes and Adju	ıstme	nts														
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	0	1	0	0	0	1	0
Configuration			LTR				LTR				LTR				LTR	
Volume (veh/h)		5	0	7		1	0	5		5	567	1		7	645	0
Percent Heavy Vehicles (%)		0	0	0		0	0	0		0				33		
Proportion Time Blocked																
Percent Grade (%)			0			()									
Right Turn Channelized																
Median Type Storage		Undivided														
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.10	6.50	6.20		7.10	6.50	6.20		4.10				4.43		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3.30		3.50	4.00	3.30		2.20				2.50		
Delay, Queue Length, and	l Leve	of Se	ervice													
Flow Rate, v (veh/h)			13				6			5				8		
Capacity, c (veh/h)			220				336			911				834		
v/c Ratio			0.06				0.02			0.01				0.01		
95% Queue Length, Q ₉₅ (veh)			0.2				0.1			0.0				0.0		
Control Delay (s/veh)			22.4				15.9			9.0				9.4		
Level of Service (LOS)			С				С			А				А		
Approach Delay (s/veh)		22	2.4			15	5.9		0.2				0.2			
Approach LOS		(С			(C									

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Salt Creek Run
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Salt Creek Run
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY AM Peak 'No-Build'	Peak Hour Factor	0.85
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



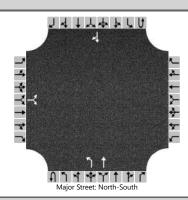
Vehicle Volumes and Adju	ustme	nts														
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	0	0	0	1	0	0	0	1	0
Configuration			LR							LT						TR
Volume (veh/h)		61		11						4	559				355	17
Percent Heavy Vehicles (%)		2		0						25						
Proportion Time Blocked																
Percent Grade (%)			0													
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up He	eadwa	ys														
Base Critical Headway (sec)		7.1		6.2						4.1						
Critical Headway (sec)		6.42		6.20						4.35						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.52		3.30						2.43						
Delay, Queue Length, and	l Leve	l of Se	ervice													
Flow Rate, v (veh/h)			85							5						
Capacity, c (veh/h)			260							1010						
v/c Ratio			0.33							0.00						
95% Queue Length, Q ₉₅ (veh)			1.4							0.0						
Control Delay (s/veh)			25.4							8.6						
Level of Service (LOS)			D							Α						
Approach Delay (s/veh)	25.4						0.1									
Approach LOS)													

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Salt Creek Run
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Salt Creek Run
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY PM Peak 'No-Build'	Peak Hour Factor	0.86
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



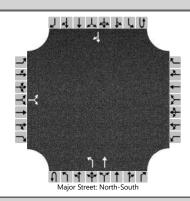
Vehicle Volumes and Adj	ustme	nts														
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	0	0	0	1	0	0	0	1	0
Configuration			LR							LT						TR
Volume (veh/h)		33		13						16	517				590	42
Percent Heavy Vehicles (%)		4		0						0						
Proportion Time Blocked																
Percent Grade (%)			0													
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up He	eadwa	ys														
Base Critical Headway (sec)		7.1		6.2						4.1						
Critical Headway (sec)		6.44		6.20						4.10						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.54		3.30						2.20						
Delay, Queue Length, and	l Leve	l of Se	ervice													
Flow Rate, v (veh/h)			53							19						
Capacity, c (veh/h)			194							880						
v/c Ratio			0.28							0.02						
95% Queue Length, Q ₉₅ (veh)			1.1							0.1						
Control Delay (s/veh)			30.4							9.2						
Level of Service (LOS)			D							А						
Approach Delay (s/veh)		30.4							0.6							
Approach LOS		D														

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Woodridge N Dr
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Woodridge Elem. North Dr
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY AM Peak 'No-Build'	Peak Hour Factor	0.93
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



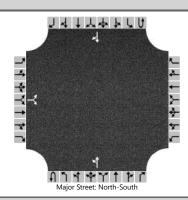
Vehicle Volumes and Adju	stme	nts															
Approach		Eastb	ound			West	oound			North	bound			South	bound		
Movement	U	L	Т	R	U	L	Т	R	U	L	T	R	U	L	Т	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	1	0		0	0	0	0	1	1	0	0	0	1	0	
Configuration			LR							L	T					TR	
Volume (veh/h)		18		2						13	546				316	27	
Percent Heavy Vehicles (%)		7		100						0							
Proportion Time Blocked																	
Percent Grade (%)		(0														
Right Turn Channelized																	
Median Type Storage				Undi	vided												
Critical and Follow-up He	adwa	ys															
Base Critical Headway (sec)		7.1		6.2						4.1							
Critical Headway (sec)		6.47		7.20						4.10							
Base Follow-Up Headway (sec)		3.5		3.3						2.2							
Follow-Up Headway (sec)		3.56		4.20						2.20							
Delay, Queue Length, and	Leve	of Se	ervice														
Flow Rate, v (veh/h)			22							14							
Capacity, c (veh/h)			285							1201							
v/c Ratio			0.08							0.01							
95% Queue Length, Q ₉₅ (veh)			0.2							0.0							
Control Delay (s/veh)			18.6							8.0							
Level of Service (LOS)			С							А							
Approach Delay (s/veh)	18.6								0.2								
Approach LOS		C															

	HCS7 Two-Way Sto	p-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Woodridge N Dr
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Woodridge Elem. North Dr
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY PM Peak 'No-Build'	Peak Hour Factor	0.95
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



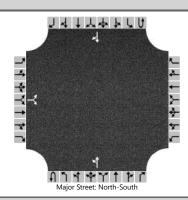
Vehicle Volumes and Adju	ıstme	nts															
Approach		Eastb	ound			Westl	oound			North	bound			South	bound		
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	1	0		0	0	0	0	1	1	0	0	0	1	0	
Configuration			LR							L	Т					TR	
Volume (veh/h)		20		2						0	489				513	20	
Percent Heavy Vehicles (%)		6		0						0							
Proportion Time Blocked																	
Percent Grade (%)		(0														
Right Turn Channelized																	
Median Type Storage				Undi	vided												
Critical and Follow-up He	adwa	ys															
Base Critical Headway (sec)		7.1		6.2						4.1							
Critical Headway (sec)		6.46		6.20						4.10							
Base Follow-Up Headway (sec)		3.5		3.3						2.2							
Follow-Up Headway (sec)		3.55		3.30						2.20							
Delay, Queue Length, and	Leve	of Se	ervice														
Flow Rate, v (veh/h)			23							0							
Capacity, c (veh/h)			255							1020							
v/c Ratio			0.09							0.00							
95% Queue Length, Q ₉₅ (veh)			0.3							0.0							
Control Delay (s/veh)			20.5							8.5							
Level of Service (LOS)			С							А							
Approach Delay (s/veh)	20.5							0.0									
Approach LOS		C C															

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Woodridge S Dr
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Woodridge Elem. South Dr
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY AM Peak 'No-Build'	Peak Hour Factor	0.91
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



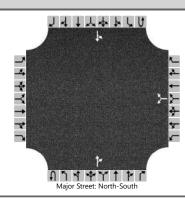
Vehicle Volumes and Adju	ıstme	nts															
Approach		Eastb	ound			Westl	oound			North	bound			South	bound		
Movement	U	L	Т	R	U	L	Т	R	U	L	T	R	U	L	Т	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	1	0		0	0	0	0	0	1	0	0	0	1	0	
Configuration			LR							LT						TR	
Volume (veh/h)		1		2						16	546				313	6	
Percent Heavy Vehicles (%)		0		0						0							
Proportion Time Blocked																	
Percent Grade (%)		(0														
Right Turn Channelized																	
Median Type Storage				Undi	vided												
Critical and Follow-up He	adwa	ys															
Base Critical Headway (sec)		7.1		6.2						4.1							
Critical Headway (sec)		6.40		6.20						4.10							
Base Follow-Up Headway (sec)		3.5		3.3						2.2							
Follow-Up Headway (sec)		3.50		3.30						2.20							
Delay, Queue Length, and	Leve	of Se	ervice														
Flow Rate, v (veh/h)			3							18							
Capacity, c (veh/h)			460							1219							
v/c Ratio			0.01							0.01							
95% Queue Length, Q ₉₅ (veh)			0.0						Ì	0.0							
Control Delay (s/veh)			12.9							8.0							
Level of Service (LOS)			В							А							
Approach Delay (s/veh)	12.9								0.4								
Approach LOS		В															

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Woodridge S Dr
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Woodridge Elem. South Dr
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY PM Peak 'No-Build'	Peak Hour Factor	0.92
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



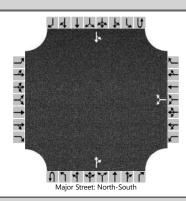
Vehicle Volumes and Adju	ıstme	nts															
Approach		Eastb	ound			Westl	oound			North	bound			South	bound		
Movement	U	L	Т	R	U	L	Т	R	U	L	T	R	U	L	Т	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	1	0		0	0	0	0	0	1	0	0	0	1	0	
Configuration			LR							LT						TR	
Volume (veh/h)		0		13						1	477				544	0	
Percent Heavy Vehicles (%)		0		0						0							
Proportion Time Blocked																	
Percent Grade (%)		(0														
Right Turn Channelized																	
Median Type Storage				Undi	vided												
Critical and Follow-up He	adwa	ys															
Base Critical Headway (sec)		7.1		6.2						4.1							
Critical Headway (sec)		6.40		6.20						4.10							
Base Follow-Up Headway (sec)		3.5		3.3						2.2							
Follow-Up Headway (sec)		3.50		3.30						2.20							
Delay, Queue Length, and	Leve	l of Se	ervice														
Flow Rate, v (veh/h)			14							1							
Capacity, c (veh/h)			510							994							
v/c Ratio			0.03							0.00							
95% Queue Length, Q ₉₅ (veh)			0.1							0.0							
Control Delay (s/veh)			12.3							8.6							
Level of Service (LOS)			В							А							
Approach Delay (s/veh)	12.3							0.0									
Approach LOS		В															

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Falls Indu. pkwy
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Falls Industrial Parkway
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY AM Peak 'No-Build'	Peak Hour Factor	0.83
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



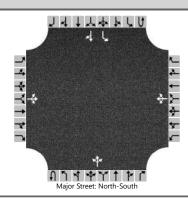
Vehicle Volumes and Adj	ustme	nts														
Approach		Eastb	oound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	0	1	0
Configuration							LR					TR		LT		
Volume (veh/h)						14		4			568	24		24	298	
Percent Heavy Vehicles (%)						8		25						19		
Proportion Time Blocked																
Percent Grade (%)						(0									
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)						7.1		6.2						4.1		
Critical Headway (sec)						6.48		6.45						4.29		
Base Follow-Up Headway (sec)						3.5		3.3						2.2		
Follow-Up Headway (sec)						3.57		3.53						2.37		
Delay, Queue Length, an	d Leve	l of S	ervice													
Flow Rate, v (veh/h)							22							29		
Capacity, c (veh/h)							239							813		
v/c Ratio							0.09							0.04		
95% Queue Length, Q ₉₅ (veh)							0.3							0.1		
Control Delay (s/veh)							21.6							9.6		
Level of Service (LOS)							С							А		
Approach Delay (s/veh)						21.6							1.1			
Approach LOS						(С									

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Falls Indu. pkwy
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Falls Industrial Parkway
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY PM Peak 'No-Build'	Peak Hour Factor	0.89
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



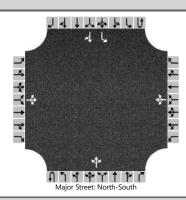
Vehicle Volumes and Adju	ıstme	nts															
Approach		Eastb	ound			Westl	oound			North	bound			South	bound		
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	0	1	0	
Configuration							LR					TR		LT			
Volume (veh/h)						50		28			474	24		11	586		
Percent Heavy Vehicles (%)						2		0						33			
Proportion Time Blocked																	
Percent Grade (%)						(0										
Right Turn Channelized																	
Median Type Storage				Undi	vided												
Critical and Follow-up He	adwa	ys															
Base Critical Headway (sec)						7.1		6.2						4.1			
Critical Headway (sec)						6.42		6.20						4.43			
Base Follow-Up Headway (sec)						3.5		3.3						2.2			
Follow-Up Headway (sec)						3.52		3.30						2.50			
Delay, Queue Length, and	l Leve	l of Se	ervice														
Flow Rate, v (veh/h)							88							12			
Capacity, c (veh/h)							250							874			
v/c Ratio							0.35							0.01			
95% Queue Length, Q ₉₅ (veh)							1.5							0.0			
Control Delay (s/veh)							27.0							9.2			
Level of Service (LOS)							D							А			
Approach Delay (s/veh)					27.0								0.4				
Approach LOS						D											

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Quick Rd/Audi N
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Quick Rd / Audi North Dr
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY AM Peak 'No-Build'	Peak Hour Factor	0.88
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



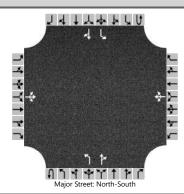
Vehicle Volumes and Ad	justme	nts														
Approach	Т	Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	0	1	0	0	1	1	0
Configuration			LTR				LTR				LTR			L		TR
Volume (veh/h)		21	0	0		0	0	1		0	567	1		4	323	4
Percent Heavy Vehicles (%)		0	0	0		0	0	0		0				0		
Proportion Time Blocked																
Percent Grade (%)			0			(0									
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.10	6.50	6.20		7.10	6.50	6.20		4.10				4.10		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3.30		3.50	4.00	3.30		2.20				2.20		
Delay, Queue Length, an	d Leve	l of S	ervice													
Flow Rate, v (veh/h)	Т		24				1			0				5		
Capacity, c (veh/h)			214				476			1198				949		
v/c Ratio			0.11				0.00			0.00				0.00		
95% Queue Length, Q ₉₅ (veh)			0.4				0.0			0.0				0.0		
Control Delay (s/veh)			23.9				12.6			8.0				8.8		
Level of Service (LOS)			С				В			А				А		
Approach Delay (s/veh)		2:	3.9			12	2.6			0	.0			0	.1	
Approach LOS			C				В									

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Quick Rd/Audi N
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Quick Rd / Audi North Dr
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY PM Peak 'No-Build'	Peak Hour Factor	0.94
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



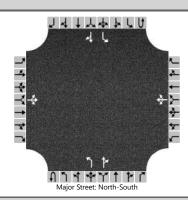
Vehicle Volumes and Adju	ıstme	nts														
Approach		Eastb	ound			West	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	0	1	0	0	1	1	0
Configuration			LTR				LTR				LTR			L		TR
Volume (veh/h)		4	0	0		7	0	13		1	459	2		2	594	18
Percent Heavy Vehicles (%)		0	0	0		0	0	0		0				0		
Proportion Time Blocked																
Percent Grade (%)			0			()									
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.10	6.50	6.20		7.10	6.50	6.20		4.10				4.10		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3.30		3.50	4.00	3.30		2.20				2.20		
Delay, Queue Length, and	l Leve	l of Se	ervice													
Flow Rate, v (veh/h)			4				21			1				2		
Capacity, c (veh/h)			174				327			945				1083		
v/c Ratio			0.02				0.07			0.00				0.00		
95% Queue Length, Q ₉₅ (veh)			0.1				0.2			0.0				0.0		
Control Delay (s/veh)			26.2				16.8			8.8				8.3		
Level of Service (LOS)			D				С			А				А		
Approach Delay (s/veh)	26.2					6.8 0.0						0.0				
Approach LOS		D C														

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Quick Rd/Audi S
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Quick Rd S/ Audi South Dr
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY AM Peak 'No-Build'	Peak Hour Factor	0.81
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



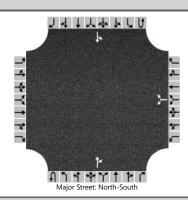
Vehicle Volumes and Adj	ustme	nts														
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	1	1	0	0	1	1	0
Configuration			LTR				LTR			L		TR		L		TR
Volume (veh/h)		1	0	217		0	0	3		320	568	12		8	311	1
Percent Heavy Vehicles (%)		0	0	7		0	0	0		2				0		
Proportion Time Blocked																
Percent Grade (%)			0				0									
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up He	eadwa	ys														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.10	6.50	6.27		7.10	6.50	6.20		4.12				4.10		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3.36		3.50	4.00	3.30		2.22				2.20		
Delay, Queue Length, and	d Leve	l of S	ervice													
Flow Rate, v (veh/h)			269				4			395				10		
Capacity, c (veh/h)			608				438			1173				894		
v/c Ratio			0.44				0.01			0.34				0.01		
95% Queue Length, Q ₉₅ (veh)			2.3				0.0			1.5				0.0		
Control Delay (s/veh)			15.6				13.3			9.6				9.1		
Level of Service (LOS)			С				В			А				А		
Approach Delay (s/veh)		1:	5.6			13	3.3			3	.4			0	.2	
Approach LOS			C			-	В									

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Quick Rd/Audi S
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Quick Rd S/ Audi South Dr
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY PM Peak 'No-Build'	Peak Hour Factor	0.90
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



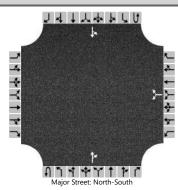
Vehicle Volumes and Adju	ustme	nts														
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	1	1	0	0	1	1	0
Configuration			LTR				LTR			L		TR		L		TR
Volume (veh/h)		0	0	145		4	0	9		177	439	6		3	610	0
Percent Heavy Vehicles (%)		0	0	2		0	0	13		3				0		
Proportion Time Blocked																
Percent Grade (%)			0			()									
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.10	6.50	6.22		7.10	6.50	6.33		4.13				4.10		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3.32		3.50	4.00	3.42		2.23				2.20		
Delay, Queue Length, and	l Leve	l of Se	ervice													
Flow Rate, v (veh/h)			161				14			197				3		
Capacity, c (veh/h)			452				118			909				1080		
v/c Ratio			0.36				0.12			0.22				0.00		
95% Queue Length, Q ₉₅ (veh)			1.6				0.4			0.8				0.0		
Control Delay (s/veh)			17.3				39.6			10.0				8.3		
Level of Service (LOS)			С				Е			В				А		
Approach Delay (s/veh)	17.3				9.6		2.9				0.0					
Approach LOS		C E														

	HCS7 Two-Way Stop	o-Control Report								
General Information		Site Information								
Analyst	Naser J. Tabanja, P.E.	Intersection	Quick Road/State Rd Con.							
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls							
Date Performed	9/22/2023	East/West Street	Quick/State Rd Connector							
Analysis Year	2028	North/South Street	Quick Road							
Time Analyzed	OY AM Peak 'No-Build'	Peak Hour Factor	0.80							
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25							
Project Description	State Road Corridor Study									



Vehicle Volumes and Adju	ıstme	nts														
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	0	1	0
Configuration							LR					TR		LT		
Volume (veh/h)						0		4			320	0		21	218	
Percent Heavy Vehicles (%)						0		0						0		
Proportion Time Blocked																
Percent Grade (%)						()									
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)						7.1		6.2						4.1		
Critical Headway (sec)						6.40		6.20						4.10		
Base Follow-Up Headway (sec)						3.5		3.3						2.2		
Follow-Up Headway (sec)						3.50		3.30						2.20		
Delay, Queue Length, and	Leve	l of Se	ervice													
Flow Rate, v (veh/h)							5							26		
Capacity, c (veh/h)							654							1170		
v/c Ratio							0.01							0.02		
95% Queue Length, Q ₉₅ (veh)							0.0							0.1		
Control Delay (s/veh)							10.5							8.1		
Level of Service (LOS)							В							А		
Approach Delay (s/veh)					10.5								0.9			
Approach LOS						I	3									

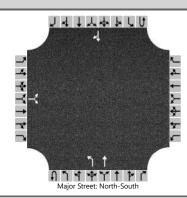
	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	Quick Road/State Rd Con.
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Quick/State Rd Connector
Analysis Year	2028	North/South Street	Quick Road
Time Analyzed	OY PM Peak 'No-Build'	Peak Hour Factor	0.80
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



					-,-											
Vehicle Volumes and Adj	ustme	nts														
Approach		Eastk	oound			Westl	bound		Northbound					South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	0	1	0
Configuration							LR					TR		LT		
Volume (veh/h)						0		19			177	0		4	145	
Percent Heavy Vehicles (%)						0		0						0		
Proportion Time Blocked																
Percent Grade (%)						(0									
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up Ho	eadwa	ys														
Base Critical Headway (sec)						7.1		6.2						4.1		
Critical Headway (sec)						6.40		6.20						4.10		
Base Follow-Up Headway (sec)						3.5		3.3						2.2		
Follow-Up Headway (sec)						3.50		3.30						2.20		
Delay, Queue Length, and	d Leve	l of S	ervice													
Flow Rate, v (veh/h)							24							5		
Capacity, c (veh/h)							823							1360		
v/c Ratio							0.03							0.00		
95% Queue Length, Q ₉₅ (veh)							0.1							0.0		
Control Delay (s/veh)							9.5							7.7		
Level of Service (LOS)							А							А		
Approach Delay (s/veh)						9	.5							0	.2	
Approach LOS						,	A									

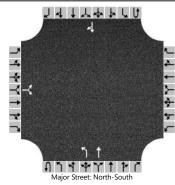


	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Road / Boulder Blvd
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Boulder Blvd
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY AM Peak 'Build'	Peak Hour Factor	0.80
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



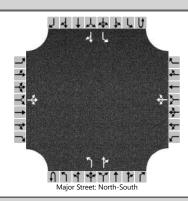
Vehicle Volumes and Ad	justme	nts														
Approach	T	Eastb	oound			Westl	bound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	0	0	1	1	0	0	0	1	0
Configuration			LR							L	Т					TR
Volume (veh/h)		39		8						1	595				351	4
Percent Heavy Vehicles (%)		0		0						100						
Proportion Time Blocked																
Percent Grade (%)			0													
Right Turn Channelized																
Median Type Storage				Left	Only								1			
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)	T	7.1		6.2						4.1						
Critical Headway (sec)		6.40		6.20						5.10						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.50		3.30						3.10						
Delay, Queue Length, an	d Leve	l of S	ervice	•												
Flow Rate, v (veh/h)	Т		59							1						
Capacity, c (veh/h)			370							745						
v/c Ratio			0.16							0.00						
95% Queue Length, Q ₉₅ (veh)			0.6							0.0						
Control Delay (s/veh)			16.6							9.8						
Level of Service (LOS)			С							А						
Approach Delay (s/veh)		10	6.6							0	.0					
Approach LOS			C													

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Road / Boulder Blvd
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Boulder Blvd
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY PM Peak 'Build'	Peak Hour Factor	0.92
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



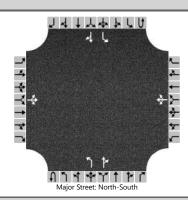
					.,.												
Vehicle Volumes and Adj	ustme	nts															
Approach		Eastk	oound			Westl	bound			North	bound			South	bound		
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	1	0		0	0	0	0	1	1	0	0	0	1	0	
Configuration			LR							L	Т					TR	
Volume (veh/h)		32		6						14	515				674	29	
Percent Heavy Vehicles (%)		0		20						0							
Proportion Time Blocked																	
Percent Grade (%)			0														
Right Turn Channelized																	
Median Type Storage				Left	Only								1				
Critical and Follow-up Ho	eadwa	ys															
Base Critical Headway (sec)		7.1		6.2						4.1							
Critical Headway (sec)		6.40		6.40						4.10							
Base Follow-Up Headway (sec)		3.5		3.3						2.2							
Follow-Up Headway (sec)		3.50		3.48						2.20							
Delay, Queue Length, and	d Leve	l of S	ervice														
Flow Rate, v (veh/h)	Т		41							15							
Capacity, c (veh/h)			317							858							
v/c Ratio			0.13							0.02							
95% Queue Length, Q ₉₅ (veh)			0.4							0.1							
Control Delay (s/veh)			18.1							9.3							
Level of Service (LOS)	Ì	Ì	С			Ì		Ì		А							
Approach Delay (s/veh)	18.1								0.2								
Approach LOS	Ì	C															

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/ Falls Com Pkwy
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Falls Commerce Parkway
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY AM Peak 'Build'	Peak Hour Factor	0.86
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



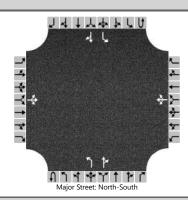
Vehicle Volumes and Adju	stme	nts															
Approach		Eastb	ound			Westl	oound			North	bound			South	bound		
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	1	0		0	1	0	0	1	1	0	0	1	1	0	
Configuration			LTR				LTR			L		TR		L		TR	
Volume (veh/h)		0	0	0		1	0	7		1	648	11		9	347	1	
Percent Heavy Vehicles (%)		0	0	0		0	0	66		0				67			
Proportion Time Blocked																	
Percent Grade (%)		(0			()										
Right Turn Channelized																	
Median Type Storage				Undi	vided												
Critical and Follow-up He	adwa	ys															
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1			
Critical Headway (sec)		7.10	6.50	6.20		7.10	6.50	6.86		4.10				4.77			
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2			
Follow-Up Headway (sec)		3.50	4.00	3.30		3.50	4.00	3.89		2.20				2.80			
Delay, Queue Length, and	Leve	of Se	ervice														
Flow Rate, v (veh/h)			0				9			1				10			
Capacity, c (veh/h)							285			1165				618			
v/c Ratio							0.03			0.00				0.02			
95% Queue Length, Q ₉₅ (veh)							0.1			0.0				0.1			
Control Delay (s/veh)							18.0			8.1				10.9			
Level of Service (LOS)							С			А				В			
Approach Delay (s/veh)	18.0					3.0		0.0					0.3				
Approach LOS		С															

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/ Falls Com Pkwy
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Falls Commerce Parkway
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY PM Peak 'Build'	Peak Hour Factor	0.93
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



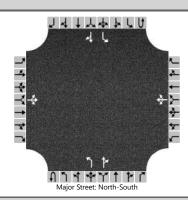
Vehicle Volumes and Adju	ustme	nts														
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	1	1	0	0	1	1	0
Configuration			LTR				LTR			L		TR		L		TR
Volume (veh/h)		1	0	3		3	0	12		0	576	0		7	653	0
Percent Heavy Vehicles (%)		0	0	33		0	0	10		0				67		
Proportion Time Blocked																
Percent Grade (%)			0			()									
Right Turn Channelized																
Median Type Storage				Left	Only				1							
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.10	6.50	6.53		7.10	6.50	6.30		4.10				4.77		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3.60		3.50	4.00	3.39		2.20				2.80		
Delay, Queue Length, and	Leve	l of Se	ervice													
Flow Rate, v (veh/h)			4				16			0				8		
Capacity, c (veh/h)			345				408			905				713		
v/c Ratio			0.01				0.04			0.00				0.01		
95% Queue Length, Q ₉₅ (veh)			0.0				0.1			0.0				0.0		
Control Delay (s/veh)			15.6				14.2			9.0				10.1		
Level of Service (LOS)			С				В			А				В		
Approach Delay (s/veh)		1:	5.6			14	1.2			0	.0			0	.1	
Approach LOS		C B														

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Buckeye/Str it
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Buckeye Dr / Storr it Dr
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY AM Peak 'Build'	Peak Hour Factor	0.86
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



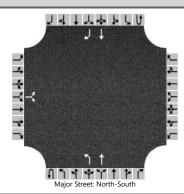
Vehicle Volumes and Adju	stme	nts														
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	T	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	1	1	0	0	1	1	0
Configuration			LTR				LTR			L		TR		L		TR
Volume (veh/h)		1	0	3		0	0	3		12	654	2		2	340	7
Percent Heavy Vehicles (%)		0	0	33		0	0	67		10				0		
Proportion Time Blocked																
Percent Grade (%)		(0			()									
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.10	6.50	6.53		7.10	6.50	6.87		4.20				4.10		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3.60		3.50	4.00	3.90		2.29				2.20		
Delay, Queue Length, and	Leve	of Se	ervice													
Flow Rate, v (veh/h)			5				3			14				2		
Capacity, c (veh/h)			354				317			1113				859		
v/c Ratio			0.01				0.01			0.01				0.00		
95% Queue Length, Q ₉₅ (veh)			0.0				0.0			0.0				0.0		
Control Delay (s/veh)			15.3				16.5			8.3				9.2		
Level of Service (LOS)			С				С			А				Α		
Approach Delay (s/veh)	15.3 16.5							0.1				0.1				
Approach LOS		(C			(C									

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Buckeye/Str it
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Buckeye Dr / Storr it Dr
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY PM Peak 'Build'	Peak Hour Factor	0.93
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



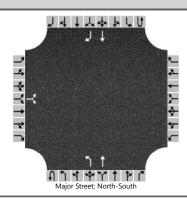
Vehicle Volumes and Adju	ıstme	nts														
Approach		Eastk	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	1	1	0	0	1	1	0
Configuration			LTR				LTR			L		TR		L		TR
Volume (veh/h)		5	0	7		1	0	5		5	567	1		7	645	0
Percent Heavy Vehicles (%)		0	0	0		0	0	0		0				33		
Proportion Time Blocked																
Percent Grade (%)			0			()									
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.10	6.50	6.20		7.10	6.50	6.20		4.10				4.43		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3.30		3.50	4.00	3.30		2.20				2.50		
Delay, Queue Length, and	Leve	l of S	ervice													
Flow Rate, v (veh/h)			13				6			5				8		
Capacity, c (veh/h)			221				337			911				834		
v/c Ratio			0.06				0.02			0.01				0.01		
95% Queue Length, Q ₉₅ (veh)			0.2				0.1			0.0				0.0		
Control Delay (s/veh)			22.3				15.9			9.0				9.4		
Level of Service (LOS)			С				С			А				А		
Approach Delay (s/veh)	22.3 15.9						0.1				0.1					
Approach LOS			С			(2									

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Salt Creek Run
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Salt Creek Run
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY AM Peak 'Build'	Peak Hour Factor	0.85
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



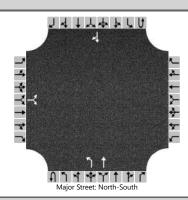
Vehicle Volumes and Adj	justme	nts														
Approach		Eastb	oound			Westl	bound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	0	0	1	1	0	0	0	1	1
Configuration			LR							L	Т				Т	R
Volume (veh/h)		61		11						4	559				355	17
Percent Heavy Vehicles (%)		2		0						25						
Proportion Time Blocked																
Percent Grade (%)			0													
Right Turn Channelized														N	10	
Median Type Storage				Left	Only								1			
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)		7.1		6.2						4.1						
Critical Headway (sec)		6.42		6.20						4.35						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.52		3.30						2.43						
Delay, Queue Length, an	d Leve	l of S	ervice													
Flow Rate, v (veh/h)			85							5						
Capacity, c (veh/h)			394							1010						
v/c Ratio			0.22							0.00						
95% Queue Length, Q ₉₅ (veh)			0.8							0.0						
Control Delay (s/veh)			16.6							8.6						
Level of Service (LOS)			С							Α						
Approach Delay (s/veh)		10	6.6							0	.1					
Approach LOS			С													

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Salt Creek Run
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Salt Creek Run
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY PM Peak 'Build'	Peak Hour Factor	0.86
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



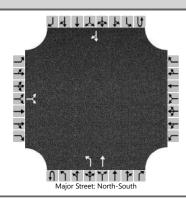
Vehicle Volumes and Ad	justme	nts														
Approach	Т	Eastk	oound			West	bound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	0	0	1	1	0	0	0	1	1
Configuration			LR							L	Т				Т	R
Volume (veh/h)		33		13						16	517				590	42
Percent Heavy Vehicles (%)		4		0						0						
Proportion Time Blocked																
Percent Grade (%)			0													
Right Turn Channelized														N	10	
Median Type Storage				Left	Only								1			
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)	Т	7.1		6.2						4.1						
Critical Headway (sec)		6.44		6.20						4.10						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.54		3.30						2.20						
Delay, Queue Length, an	d Leve	l of S	ervice	•												
Flow Rate, v (veh/h)	T		53							19						
Capacity, c (veh/h)			336							880						
v/c Ratio			0.16							0.02						
95% Queue Length, Q ₉₅ (veh)			0.6							0.1						
Control Delay (s/veh)			17.7							9.2						
Level of Service (LOS)			С							А						
Approach Delay (s/veh)		17.7 0.3														
Approach LOS			C													

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Woodridge N Dr
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Woodridge Elem. North Dr
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY AM Peak 'Build'	Peak Hour Factor	0.93
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



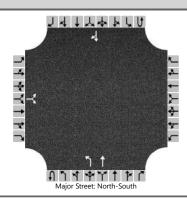
Vehicle Volumes and Adju	ıstme	nts															
Approach		Eastb	ound			West	oound			North	bound			South	bound		
Movement	U	L	Т	R	U	L	Т	R	U	L	T	R	U	L	Т	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	1	0		0	0	0	0	1	1	0	0	0	1	0	
Configuration			LR							L	T					TR	
Volume (veh/h)		18		2						13	546				316	27	
Percent Heavy Vehicles (%)		7		100						0							
Proportion Time Blocked																	
Percent Grade (%)		(0														
Right Turn Channelized																	
Median Type Storage				Left	Only								1				
Critical and Follow-up He	adwa	ys															
Base Critical Headway (sec)		7.1		6.2						4.1							
Critical Headway (sec)		6.47		7.20						4.10							
Base Follow-Up Headway (sec)		3.5		3.3						2.2							
Follow-Up Headway (sec)		3.56		4.20						2.20							
Delay, Queue Length, and	Leve	l of Se	ervice														
Flow Rate, v (veh/h)			22							14							
Capacity, c (veh/h)			402							1201							
v/c Ratio			0.05							0.01							
95% Queue Length, Q ₉₅ (veh)			0.2						Ì	0.0							
Control Delay (s/veh)			14.5							8.0							
Level of Service (LOS)			В							А							
Approach Delay (s/veh)		14.5								0	.2						
Approach LOS		ı	В														

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Woodridge N Dr
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Woodridge Elem. North Dr
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY PM Peak 'Build'	Peak Hour Factor	0.95
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



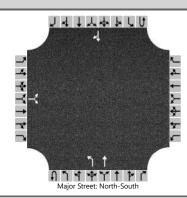
Vehicle Volumes and Ad	justme	nts														
Approach	T	Eastb	oound			Westl	bound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	0	0	1	1	0	0	0	1	0
Configuration			LR							L	Т					TR
Volume (veh/h)		20		2						0	489				513	20
Percent Heavy Vehicles (%)		6		0						0						
Proportion Time Blocked																
Percent Grade (%)			0													
Right Turn Channelized																
Median Type Storage				Left	Only								1			
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)	Т	7.1		6.2						4.1						
Critical Headway (sec)		6.46		6.20						4.10						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.55		3.30						2.20						
Delay, Queue Length, an	d Leve	l of S	ervice	•												
Flow Rate, v (veh/h)	T		23							0						
Capacity, c (veh/h)			386							1020						
v/c Ratio			0.06							0.00						
95% Queue Length, Q ₉₅ (veh)			0.2							0.0						
Control Delay (s/veh)			14.9							8.5						
Level of Service (LOS)			В							А						
Approach Delay (s/veh)		14	4.9							0	.0					
Approach LOS			В													

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Woodridge S Dr
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Woodridge Elem. South Dr
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY AM Peak 'Build'	Peak Hour Factor	0.91
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



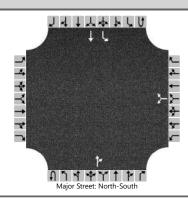
Vehicle Volumes and Ad	justme	nts															
Approach	T	Eastk	oound			Westl	bound			North	bound			South	bound		
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	1	0		0	0	0	0	1	1	0	0	0	1	0	
Configuration			LR							L	Т					TR	
Volume (veh/h)		1		2						16	546				313	6	
Percent Heavy Vehicles (%)		0		0						0							
Proportion Time Blocked																	
Percent Grade (%)		•	0														
Right Turn Channelized																	
Median Type Storage				Left	Only								1				
Critical and Follow-up H	eadwa	ys															
Base Critical Headway (sec)	Т	7.1		6.2						4.1							
Critical Headway (sec)		6.40		6.20						4.10							
Base Follow-Up Headway (sec)		3.5		3.3						2.2							
Follow-Up Headway (sec)		3.50		3.30						2.20							
Delay, Queue Length, an	d Leve	l of S	ervice														
Flow Rate, v (veh/h)	T		3							18							
Capacity, c (veh/h)			558							1219							
v/c Ratio			0.01							0.01							
95% Queue Length, Q ₉₅ (veh)			0.0							0.0							
Control Delay (s/veh)			11.5							8.0							
Level of Service (LOS)			В							А							
Approach Delay (s/veh)		1	1.5							0	.2						
Approach LOS			В														

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Woodridge S Dr
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Woodridge Elem. South Dr
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY PM Peak 'Build'	Peak Hour Factor	0.92
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



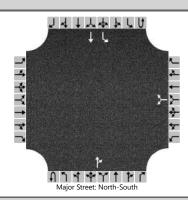
Vehicle Volumes and Ad	justme	nts															
Approach	T	Eastb	oound			Westl	bound			North	bound			South	bound		
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	1	0		0	0	0	0	1	1	0	0	0	1	0	
Configuration			LR							L	Т					TR	
Volume (veh/h)		0		13						1	477				544	0	
Percent Heavy Vehicles (%)		0		0						0							
Proportion Time Blocked																	
Percent Grade (%)			0														
Right Turn Channelized																	
Median Type Storage				Left	Only							1					
Critical and Follow-up H	eadwa	ys															
Base Critical Headway (sec)	T	7.1		6.2						4.1							
Critical Headway (sec)		6.40		6.20						4.10							
Base Follow-Up Headway (sec)		3.5		3.3						2.2							
Follow-Up Headway (sec)		3.50		3.30						2.20							
Delay, Queue Length, an	d Leve	l of S	ervice														
Flow Rate, v (veh/h)	T		14							1							
Capacity, c (veh/h)			510							994							
v/c Ratio			0.03							0.00							
95% Queue Length, Q ₉₅ (veh)			0.1							0.0							
Control Delay (s/veh)			12.3							8.6							
Level of Service (LOS)			В							A							
Approach Delay (s/veh)		12	2.3							0	.0	-					
Approach LOS			В														

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Falls Indu. pkwy
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Falls Industrial Parkway
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY AM Peak 'Build'	Peak Hour Factor	0.83
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



Vehicle Volumes and Ad	justme	nts															
Approach	T		oound		П	Westl	oound			North	bound			South	bound		
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	1	1	0	
Configuration							LR					TR		L	Т		
Volume (veh/h)						14		4			568	24		24	298		
Percent Heavy Vehicles (%)						8		25						19			
Proportion Time Blocked																	
Percent Grade (%)						. (0										
Right Turn Channelized																	
Median Type Storage				Left	Only							1					
Critical and Follow-up H	eadwa								•								
Base Critical Headway (sec)	\top					7.1		6.2						4.1			
Critical Headway (sec)						6.48		6.45						4.29			
Base Follow-Up Headway (sec)						3.5		3.3						2.2			
Follow-Up Headway (sec)						3.57		3.53						2.37			
Delay, Queue Length, an	d Leve	l of S	ervice														
Flow Rate, v (veh/h)	\top						22							29			
Capacity, c (veh/h)							356							813			
v/c Ratio							0.06							0.04			
95% Queue Length, Q ₉₅ (veh)							0.2							0.1			
Control Delay (s/veh)							15.8							9.6			
Level of Service (LOS)							С							А			
Approach Delay (s/veh)						15	5.8						0.7				
Approach LOS	1					(C										

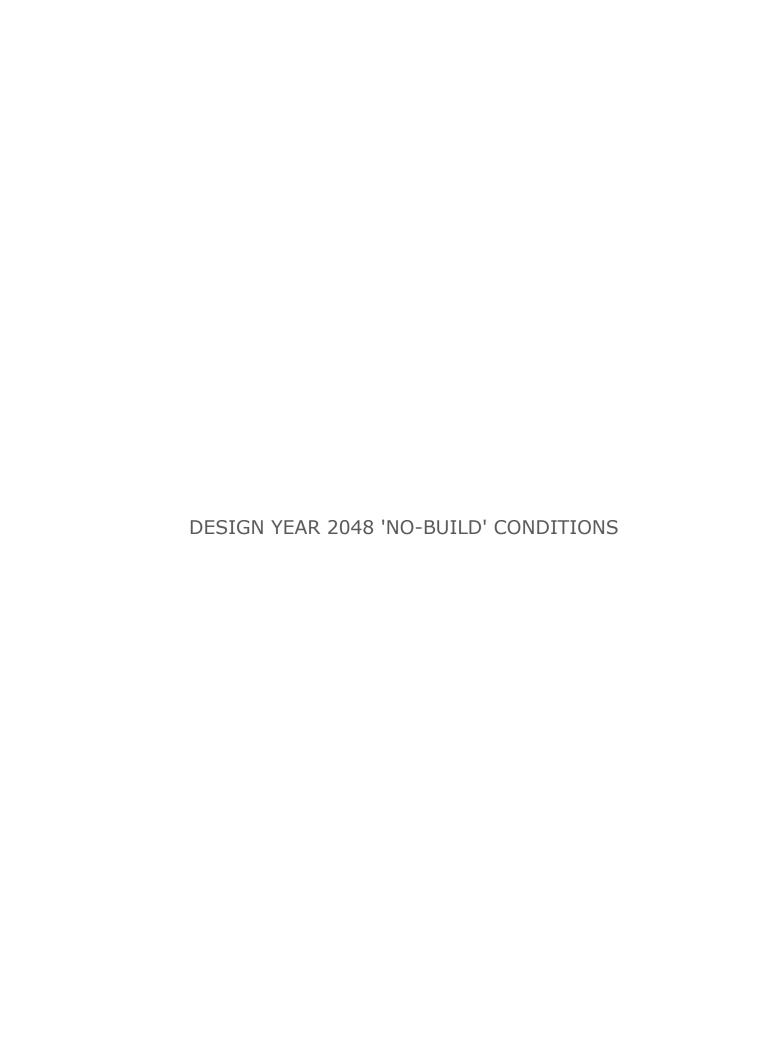
	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Falls Indu. pkwy
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Falls Industrial Parkway
Analysis Year	2028	North/South Street	State Road
Time Analyzed	OY PM Peak 'Build'	Peak Hour Factor	0.89
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



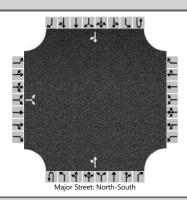
Vehicle Volumes and Adju	ustme	nts														
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	1	1	0
Configuration							LR					TR		L	Т	
Volume (veh/h)						50		28			474	24		11	586	
Percent Heavy Vehicles (%)						2		0						33		
Proportion Time Blocked																
Percent Grade (%)						(0									
Right Turn Channelized																
Median Type Storage				Left	Only								1			
Critical and Follow-up He	eadwa	dways														
Base Critical Headway (sec)						7.1		6.2						4.1		
Critical Headway (sec)						6.42		6.20						4.43		
Base Follow-Up Headway (sec)						3.5		3.3						2.2		
Follow-Up Headway (sec)						3.52		3.30						2.50		
Delay, Queue Length, and	l Leve	l of Se	ervice													
Flow Rate, v (veh/h)							88							12		
Capacity, c (veh/h)							385							874		
v/c Ratio							0.23							0.01		
95% Queue Length, Q ₉₅ (veh)							0.9							0.0		
Control Delay (s/veh)							17.1							9.2		
Level of Service (LOS)							С							А		
Approach Delay (s/veh)						17	7.1						0.2			
Approach LOS					(С										

				HC:	S7 Rc	und	abo	outs	Re	port										
General Information								_	_	natio	า									
Analyst	Nasei	r J. Tabar	nja, P.E.			1+				Inters	ection			Sta	ite Roac	l / Quick	Road / A			
Agency or Co.	GPD (Group								E/W S	Street Na	me		Qu	iick Roa	d / Audi [Dealershi			
Date Performed	9/29/	2023					M		*	N/S S	treet Na	me		Sta	ite Roac					
Analysis Year	2028				1	W	∓ E 8) 1		Analy	sis Time	Period (ł	nrs)	0.2	25					
Time Analyzed	OY AI	M Peak '	Build'	ĺ	*					Peak	Hour Fac	tor		0.8	34					
Project Description	State	Road Co	orridor St	udy			→ V †	1		Jurisd	liction			Cit	y of Cuy	vahoga Fa	lls			
Volume Adjustments	and :	Site C	harac	teristic	cs															
Approach			EB			٧	VB				N	В				SB				
Movement	U	L	Т	R	U	L	Т		R	U	L	Т	R	U	L	. Т	R			
Number of Lanes (N)	0	0	1	0	0	0	1		0	0	0	1	0	0	О	1	0			
Lane Assignment			Lī	ΓR			LTR				LTR						LTR			
Volume (V), veh/h	0	22	0	217	0	0	0		1	0	320	567	1	0	4	323	3 4			
Percent Heavy Vehicles, %	0	0	0	7	0	0	0		0	0	2	2	0	0	C	6	0			
Flow Rate (VPCE), pc/h	0	26	0	276	0	0	0		1	1 0 389 688 1					5	408	3 5			
Right-Turn Bypass		No	one			N	one				No	ne				None				
Conflicting Lanes			1				1					1				1				
Pedestrians Crossing, p/h			0				0				()		0						
Critical and Follow-U	stmen	it																		
Approach				EB				WB				NB				SB				
Lane			Left	Right	t Bypass Left		eft	Righ	t	Bypass	Left	Right	Вур	ass	Left	Right	Bypass			
Critical Headway (s)				4.9763				4.976	3			4.9763	3			4.9763				
Follow-Up Headway (s)				2.6087	2.6087		7			2.608	7			2.6087						
Flow Computations,	Capa	city aı	nd v/c	Ratio	os															
Approach				EB		Т		WB				NB				SB				
Lane			Left	Right	Bypas	s L	eft	Righ	t	Bypass	Left	Right	Вур	ass	Left	Right	Bypass			
Entry Flow (v _e), pc/h				302				1	T			1078				418				
Entry Volume, veh/h				284				1	1			1057				395				
Circulating Flow (v _c), pc/h				413				110	3			31				389				
Exiting Flow (vex), pc/h				6				394				715				684				
Capacity (c _{pce}), pc/h				906				448	Т			1337				928				
Capacity (c), veh/h				851				448				1311				877				
v/c Ratio (x)				0.33				0.00				0.81				0.45				
Delay and Level of S	ervice	•																		
Approach				EB				WB				NB				SB				
Lane			Left	Right	Bypas	s L	eft	Righ	t	Bypass	Left	Right	Вур	ass	Left	Right	Bypass			
Lane Control Delay (d), s/veh				8.0				8.1	\int			17.0				9.7				
Lane LOS				А				А				С				А				
95% Queue, veh				1.5				0.0				9.6				2.4				
Approach Delay, s/veh			8.0					8.1		17.0				9.7						
Approach LOS			A					Α		C A										
Intersection Delay, s/veh LO	S		13.9					В												

	ound	labo	outs F	Rep	port														
General Information							Site	e Info	rn	natior	1								
Analyst	Naser	J. Tabaı	nja, P.E.			/*		A .		Inters	ection			State	e Road	/ Quick R	 oad / A		
Agency or Co.	GPD (Group			1		- `			E/W S	Street Na	me		Quio	k Road	l / Audi D	ealershi		
Date Performed	9/29/	2023							÷	N/S S	treet Nar	ne		State	e Road				
Analysis Year	2028				1	W	ĤE	1		Analy	sis Time	Period (h	rs)	0.25					
Time Analyzed	OY PN	M Peak '	Build'		*					Peak	Hour Fac	tor		0.92					
Project Description	State	Road Co	orridor St	udy			→ V *	1		Jurisd	liction			City	of Cuy	ahoga Fal	ls		
Volume Adjustments	and S	Site C	harac	teristic	:s														
Approach		ı	B			٧	NB				N	В				SB			
Movement	U	L	Т	R	U	L	Т	R	Î	U	L	Т	R	U	L	Т	R		
Number of Lanes (N)	0	0	1	0	0	0	1	0		0	0	1	0	0	0	1	0		
Lane Assignment		•	Lī	ΓR				LTR				LT	R				LTR		
Volume (V), veh/h	0	4	0	145	0	7	0	13	3	0	178	459	2	0	2	594	18		
Percent Heavy Vehicles, %	0	0	0	2	0	0	0	0		0	3	3	0	0	0	2	0		
Flow Rate (VPCE), pc/h	0	4	0	161	0	8	0	14	ı	0	199	514	2	0	2	659	20		
Right-Turn Bypass		N	one		None None									None					
Conflicting Lanes			1				1		T		1			1					
Pedestrians Crossing, p/h			0				0				()		0					
Critical and Follow-U	t																		
Approach				Т		WB			NB					SB					
Lane			Left	Right	Вура	ss L	eft	Right	В	Bypass	Left	Right	Вура	ss	Left	Right	Bypass		
Critical Headway (s)				4.9763			\neg	4.9763	Т			4.9763	:	\top		4.9763			
Follow-Up Headway (s)				2.6087	7 2.60			2.6087	T			2.6087	,			2.6087			
Flow Computations,	Capac	city a	nd v/c	Ratio	s														
Approach				EB		Т		WB				NB		Т		SB			
Lane			Left	Right	Вура	ss L	eft	Right	В	Bypass	Left	Right	Вура	ss	Left	Right	Bypass		
Entry Flow (v _e), pc/h				165			\neg	22	Т			715				681			
Entry Volume, veh/h				162				22	T			694				668			
Circulating Flow (v₅), pc/h				669				717				6				207			
Exiting Flow (vex), pc/h				4				219				532				828			
Capacity (c _{pce}), pc/h				697				664	Τ			1372				1117			
Capacity (c), veh/h				684				664	T			1332				1096			
v/c Ratio (x)				0.24				0.03	T			0.52				0.61			
Delay and Level of So	ervice																		
Approach				EB				WB				NB		Т		SB			
Lane			Left	Right	Вура	ss L	eft	Right	В	Bypass	Left	Right	Вура	ss	Left	Right	Bypass		
Lane Control Delay (d), s/veh				8.1				5.8				8.2				11.3			
Lane LOS				А				Α				А	İ			В			
95% Queue, veh							0.1				3.1				4.3				
Approach Delay, s/veh		8.1						5.8				8.2		11.3					
Approach LOS		А						Α		A				В					
Intersection Delay, s/veh LO	S					9.5													

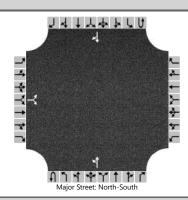


	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Road / Boulder Blvd
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Boulder Blvd
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY AM Peak 'No-Build'	Peak Hour Factor	0.80
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



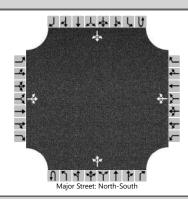
Vehicle Volumes and Adj	ustme	nts															
Approach		Eastb	ound			Westl	oound			North	bound			South	bound		
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	1	0		0	0	0	0	0	1	0	0	0	1	0	
Configuration			LR							LT						TR	
Volume (veh/h)		46		10						1	709				418	5	
Percent Heavy Vehicles (%)		0		0						100							
Proportion Time Blocked																	
Percent Grade (%)			0														
Right Turn Channelized																	
Median Type Storage				Undi	vided												
Critical and Follow-up He	eadwa	ys															
Base Critical Headway (sec)		7.1		6.2						4.1							
Critical Headway (sec)		6.40		6.20						5.10							
Base Follow-Up Headway (sec)		3.5		3.3						2.2							
Follow-Up Headway (sec)		3.50		3.30						3.10							
Delay, Queue Length, and	d Leve	l of Se	ervice														
Flow Rate, v (veh/h)			70							1							
Capacity, c (veh/h)			175							684							
v/c Ratio			0.40							0.00							
95% Queue Length, Q ₉₅ (veh)			1.8							0.0							
Control Delay (s/veh)			38.5							10.3							
Level of Service (LOS)			E							В							
Approach Delay (s/veh)	38.5									0	.0						
Approach LOS		E															

HCS7 Two-Way Stop-Control Report											
General Information		Site Information									
Analyst	Naser J. Tabanja, P.E.	Intersection	State Road / Boulder Blvd								
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls								
Date Performed	9/22/2023	East/West Street	Boulder Blvd								
Analysis Year	2048	North/South Street	State Road								
Time Analyzed	DY PM Peak 'No-Build'	Peak Hour Factor	0.92								
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25								
Project Description	State Road Corridor Study										



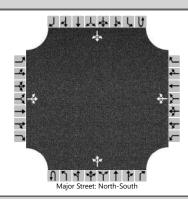
Vehicle Volumes and Adj	ustme	nts																
Approach		Eastb	ound		Westbound				Northbound				Southbound					
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R		
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6		
Number of Lanes		0	1	0		0	0	0	0	0	1	0	0	0	1	0		
Configuration			LR							LT						TR		
Volume (veh/h)		38		8						16	613				803	35		
Percent Heavy Vehicles (%)		0		20						0								
Proportion Time Blocked																		
Percent Grade (%)			0															
Right Turn Channelized																		
Median Type Storage				Undi	vided													
Critical and Follow-up He	eadwa	ys																
Base Critical Headway (sec)		7.1		6.2						4.1								
Critical Headway (sec)		6.40		6.40						4.10								
Base Follow-Up Headway (sec)		3.5		3.3						2.2								
Follow-Up Headway (sec)		3.50		3.48						2.20								
Delay, Queue Length, and	d Leve	l of Se	ervice															
Flow Rate, v (veh/h)			50							17								
Capacity, c (veh/h)			129							756								
v/c Ratio			0.39							0.02								
95% Queue Length, Q ₉₅ (veh)			1.6							0.1								
Control Delay (s/veh)			49.4							9.9								
Level of Service (LOS)			E							Α								
Approach Delay (s/veh)		49	9.4					0.6										
Approach LOS			E															

HCS7 Two-Way Stop-Control Report											
General Information		Site Information									
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/ Falls Com Pkwy								
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls								
Date Performed	9/22/2023	East/West Street	Falls Commerce Parkway								
Analysis Year	2048	North/South Street	State Road								
Time Analyzed	DY AM Peak 'No-Build'	Peak Hour Factor	0.86								
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25								
Project Description	State Road Corridor Study										



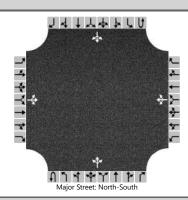
Vehicle Volumes and Adju	stme	nts																
Approach		Eastb	ound		Westbound				Northbound				Southbound					
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R		
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6		
Number of Lanes		0	1	0		0	1	0	0	0	1	0	0	0	1	0		
Configuration			LTR				LTR				LTR				LTR			
Volume (veh/h)		0	0	0		1	0	9		1	771	13		11	413	1		
Percent Heavy Vehicles (%)		0	0	0		0	0	66		0				67				
Proportion Time Blocked																		
Percent Grade (%)		(0			()											
Right Turn Channelized																		
Median Type Storage				Undi	vided													
Critical and Follow-up He	adwa	ys																
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1				
Critical Headway (sec)		7.10	6.50	6.20		7.10	6.50	6.86		4.10				4.77				
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2				
Follow-Up Headway (sec)		3.50	4.00	3.30		3.50	4.00	3.89		2.20				2.80				
Delay, Queue Length, and	Leve	of Se	ervice															
Flow Rate, v (veh/h)			0				12			1				13				
Capacity, c (veh/h)							229			1092				536				
v/c Ratio							0.05			0.00				0.02				
95% Queue Length, Q ₉₅ (veh)							0.2			0.0				0.1				
Control Delay (s/veh)							21.5			8.3				11.9				
Level of Service (LOS)							С			А				В				
Approach Delay (s/veh)					21.5			0.0				0.7						
Approach LOS				С														

HCS7 Two-Way Stop-Control Report											
General Information		Site Information									
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/ Falls Com Pkwy								
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls								
Date Performed	9/22/2023	East/West Street	Falls Commerce Parkway								
Analysis Year	2048	North/South Street	State Road								
Time Analyzed	DY PM Peak 'No-Build'	Peak Hour Factor	0.93								
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25								
Project Description	State Road Corridor Study										



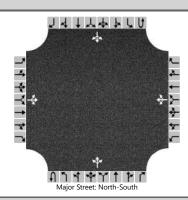
Vehicle Volumes and Adju	ıstme	nts																
Approach		Eastb	ound		Westbound				Northbound				Southbound					
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R		
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6		
Number of Lanes		0	1	0		0	1	0	0	0	1	0	0	0	1	0		
Configuration			LTR				LTR				LTR				LTR			
Volume (veh/h)		1	0	4		4	0	14		0	686	0		9	778	0		
Percent Heavy Vehicles (%)		0	0	33		0	0	10		0				67				
Proportion Time Blocked																		
Percent Grade (%)			0			()											
Right Turn Channelized																		
Median Type Storage				Undi	vided													
Critical and Follow-up He	adwa	ys																
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1				
Critical Headway (sec)		7.10	6.50	6.53		7.10	6.50	6.30		4.10				4.77				
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2				
Follow-Up Headway (sec)		3.50	4.00	3.60		3.50	4.00	3.39		2.20				2.80				
Delay, Queue Length, and	l Leve	of Se	ervice															
Flow Rate, v (veh/h)			5				19			0				10				
Capacity, c (veh/h)			203				219			806				635				
v/c Ratio			0.03				0.09			0.00				0.02				
95% Queue Length, Q ₉₅ (veh)			0.1				0.3			0.0				0.0				
Control Delay (s/veh)			23.2				23.0			9.5				10.8				
Level of Service (LOS)			С				С			А				В				
Approach Delay (s/veh)		23	3.2		23.0			0.0				0.4						
Approach LOS		(С			С												

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Buckeye/Str it
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Buckeye Dr / Storr it Dr
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY AM Peak 'No-Build'	Peak Hour Factor	0.86
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



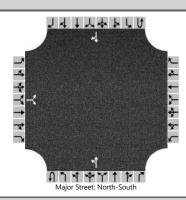
Vehicle Volumes and Adju	ıstme	nts															
Approach		Eastb	ound			West	oound			North	bound			South	bound		
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	1	0		0	1	0	0	0	1	0	0	0	1	0	
Configuration			LTR				LTR				LTR				LTR		
Volume (veh/h)		1	0	4		0	0	4		14	779	3		3	405	9	
Percent Heavy Vehicles (%)		0	0	33		0	0	67		10				0			
Proportion Time Blocked																	
Percent Grade (%)		0 0															
Right Turn Channelized																	
Median Type Storage		Undivided															
Critical and Follow-up He	adwa	ways															
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1			
Critical Headway (sec)		7.10	6.50	6.53		7.10	6.50	6.87		4.20				4.10			
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2			
Follow-Up Headway (sec)		3.50	4.00	3.60		3.50	4.00	3.90		2.29				2.20			
Delay, Queue Length, and	l Leve	l of Se	ervice														
Flow Rate, v (veh/h)			6				5			16				3			
Capacity, c (veh/h)			299				256			1041				757			
v/c Ratio			0.02				0.02			0.02				0.00			
95% Queue Length, Q ₉₅ (veh)			0.1				0.1			0.0				0.0			
Control Delay (s/veh)			17.3				19.3			8.5				9.8			
Level of Service (LOS)	С						С			Α				А			
Approach Delay (s/veh)	17.3 19.3							0.4					0.1				
Approach LOS	C C																

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Buckeye/Str it
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Buckeye Dr / Storr it Dr
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY PM Peak 'No-Build'	Peak Hour Factor	0.93
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



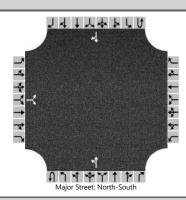
Vehicle Volumes and Adju	ustme	nts														
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	T	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	0	1	0	0	0	1	0
Configuration			LTR				LTR				LTR				LTR	
Volume (veh/h)		6	0	9		1	0	6		6	675	1		9	768	0
Percent Heavy Vehicles (%)		0	0	0		0	0	0		0				33		
Proportion Time Blocked																
Percent Grade (%)		0 0														
Right Turn Channelized																
Median Type Storage		Undivided														
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.10	6.50	6.20		7.10	6.50	6.20		4.10				4.43		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3.30		3.50	4.00	3.30		2.20				2.50		
Delay, Queue Length, and	Leve	l of Se	ervice													
Flow Rate, v (veh/h)			16				8			6				10		
Capacity, c (veh/h)			158				269			814				750		
v/c Ratio			0.10				0.03			0.01				0.01		
95% Queue Length, Q ₉₅ (veh)			0.3				0.1			0.0				0.0		
Control Delay (s/veh)			30.4				18.8			9.5				9.9		
Level of Service (LOS)			D				С			Α				А		
Approach Delay (s/veh)	30.4 18.8							0.2					0.3			
Approach LOS	D C															

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Salt Creek Run
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Salt Creek Run
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY AM Peak 'No-Build'	Peak Hour Factor	0.85
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



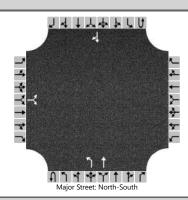
Vehicle Volumes and Adj	ustme	nts														
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	0	0	0	1	0	0	0	1	0
Configuration			LR							LT						TR
Volume (veh/h)		73		13						5	665				423	20
Percent Heavy Vehicles (%)		2		0						25						
Proportion Time Blocked																
Percent Grade (%)			0													
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up He	eadwa	ys														
Base Critical Headway (sec)		7.1		6.2						4.1						
Critical Headway (sec)		6.42		6.20						4.35						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.52		3.30						2.43						
Delay, Queue Length, and	d Leve	l of Se	ervice													
Flow Rate, v (veh/h)			101							6						
Capacity, c (veh/h)			196							938						
v/c Ratio			0.52							0.01						
95% Queue Length, Q ₉₅ (veh)			2.6							0.0						
Control Delay (s/veh)			41.6							8.9						
Level of Service (LOS)			E							Α						
Approach Delay (s/veh)	41.6								0.2							
Approach LOS			E													

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Salt Creek Run
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Salt Creek Run
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY PM Peak 'No-Build'	Peak Hour Factor	0.86
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



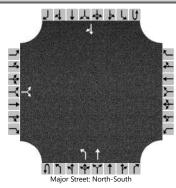
Vehicle Volumes and Adju	stme	nts															
Approach		Eastb	ound			Westl	oound			North	bound			South	bound		
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	1	0		0	0	0	0	0	1	0	0	0	1	0	
Configuration			LR							LT						TR	
Volume (veh/h)		39		15						19	615				703	50	
Percent Heavy Vehicles (%)		4		0						0							
Proportion Time Blocked																	
Percent Grade (%)		0															
Right Turn Channelized																	
Median Type Storage				Undi	vided												
Critical and Follow-up He	adwa	ys															
Base Critical Headway (sec)		7.1		6.2						4.1							
Critical Headway (sec)		6.44		6.20						4.10							
Base Follow-Up Headway (sec)		3.5		3.3						2.2							
Follow-Up Headway (sec)		3.54		3.30						2.20							
Delay, Queue Length, and	Leve	of Se	ervice														
Flow Rate, v (veh/h)			63							22							
Capacity, c (veh/h)			136							780							
v/c Ratio			0.46							0.03							
95% Queue Length, Q ₉₅ (veh)			2.1							0.1							
Control Delay (s/veh)			52.6							9.8							
Level of Service (LOS)			F							А							
Approach Delay (s/veh)	52.6								0.7								
Approach LOS	F																

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Woodridge N Dr
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Woodridge Elem. North Dr
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY AM Peak 'No-Build'	Peak Hour Factor	0.93
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



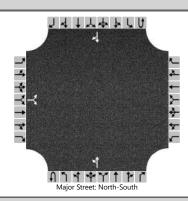
Vehicle Volumes and Adju	ıstme	nts														
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	0	0	1	1	0	0	0	1	0
Configuration			LR							L	Т					TR
Volume (veh/h)		21		3						15	650				376	33
Percent Heavy Vehicles (%)		7		100						0						
Proportion Time Blocked																
Percent Grade (%)		0														
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)		7.1		6.2						4.1						
Critical Headway (sec)		6.47		7.20						4.10						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.56		4.20						2.20						
Delay, Queue Length, and	Leve	of Se	ervice													
Flow Rate, v (veh/h)			26							16						
Capacity, c (veh/h)			226							1131						
v/c Ratio			0.11							0.01						
95% Queue Length, Q ₉₅ (veh)			0.4							0.0						
Control Delay (s/veh)			23.0							8.2						
Level of Service (LOS)			С							А						
Approach Delay (s/veh)	23.0								0.2							
Approach LOS	C C															

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Woodridge N Dr
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Woodridge Elem. North Dr
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY PM Peak 'No-Build'	Peak Hour Factor	0.95
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



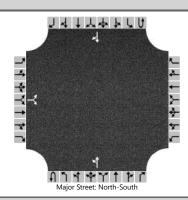
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Approach	+	Eastk	ound			westl	oound			North				South	bound		
Movement	U	L	Т	R	U	L	Т	R	U	L	T	R	U	L	Т	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	1	0		0	0	0	0	1	1	0	0	0	1	0	
Configuration			LR							L	T					TR	
Volume (veh/h)		24		3						0	583				611	24	
Percent Heavy Vehicles (%)		6		0						0							
Proportion Time Blocked																	
Percent Grade (%)		0															
Right Turn Channelized																	
Median Type Storage				Undi	vided												
Critical and Follow-up H	eadwa	ys															
Base Critical Headway (sec)		7.1		6.2						4.1							
Critical Headway (sec)		6.46		6.20						4.10							
Base Follow-Up Headway (sec)		3.5		3.3						2.2							
Follow-Up Headway (sec)		3.55		3.30						2.20							
Delay, Queue Length, an	d Leve	l of S	ervice														
Flow Rate, v (veh/h)			28							0							
Capacity, c (veh/h)			195							931							
v/c Ratio			0.15							0.00							
95% Queue Length, Q ₉₅ (veh)			0.5							0.0							
Control Delay (s/veh)			26.5							8.9							
Level of Service (LOS)			D							А							
Approach Delay (s/veh)		26.5							0.0								
Approach LOS		D															

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Woodridge S Dr
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Woodridge Elem. South Dr
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY AM Peak 'No-Build'	Peak Hour Factor	0.91
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



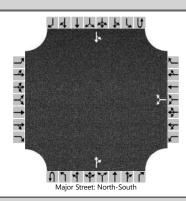
Vehicle Volumes and Adju	ıstme	nts															
Approach		Eastb	ound			Westl	oound			North	bound			South	bound		
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	1	0		0	0	0	0	0	1	0	0	0	1	0	
Configuration			LR							LT						TR	
Volume (veh/h)		1		3						19	650				373	8	
Percent Heavy Vehicles (%)		0		0						0							
Proportion Time Blocked																	
Percent Grade (%)		(0														
Right Turn Channelized																	
Median Type Storage				Undi	vided												
Critical and Follow-up He	adwa	ys															
Base Critical Headway (sec)		7.1		6.2						4.1							
Critical Headway (sec)		6.40		6.20						4.10							
Base Follow-Up Headway (sec)		3.5		3.3						2.2							
Follow-Up Headway (sec)		3.50		3.30						2.20							
Delay, Queue Length, and	l Leve	l of Se	ervice														
Flow Rate, v (veh/h)			4							21							
Capacity, c (veh/h)			423							1151							
v/c Ratio			0.01							0.02							
95% Queue Length, Q ₉₅ (veh)			0.0							0.1							
Control Delay (s/veh)			13.6							8.2							
Level of Service (LOS)			В							А							
Approach Delay (s/veh)		13.6								0	.5						
Approach LOS		В															

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Woodridge S Dr
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Woodridge Elem. South Dr
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY PM Peak 'No-Build'	Peak Hour Factor	0.92
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



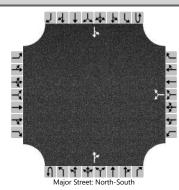
Vehicle Volumes and Adju	ıstme	nts														
Approach		Eastb	ound			West	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	T	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	0	0	0	1	0	0	0	1	0
Configuration			LR							LT						TR
Volume (veh/h)		0		15						1	568				648	0
Percent Heavy Vehicles (%)		0		0						0						
Proportion Time Blocked																
Percent Grade (%)		(0													
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)		7.1		6.2						4.1						
Critical Headway (sec)		6.40		6.20						4.10						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.50		3.30						2.20						
Delay, Queue Length, and	Leve	of Se	ervice													
Flow Rate, v (veh/h)			16							1						
Capacity, c (veh/h)			440							903						
v/c Ratio			0.04							0.00						
95% Queue Length, Q ₉₅ (veh)			0.1							0.0						
Control Delay (s/veh)			13.5							9.0						
Level of Service (LOS)			В							А						
Approach Delay (s/veh)		13.5								0	.0					
Approach LOS		B B														

	HCS7 Two-Way Stop	/ Stop-Control Report								
General Information		Site Information								
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Falls Indu. pkwy							
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls							
Date Performed	9/22/2023	East/West Street	Falls Industrial Parkway							
Analysis Year	2048	North/South Street	State Road							
Time Analyzed	DY AM Peak 'No-Build'	Peak Hour Factor	0.83							
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25							
Project Description	State Road Corridor Study									



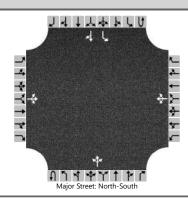
Vehicle Volumes and Adju	ıstme	nts															
Approach		Eastb	ound			Westl	oound			North	bound			South	bound		
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	0	1	0	
Configuration							LR					TR		LT			
Volume (veh/h)						16		5			676	29		29	355		
Percent Heavy Vehicles (%)						8		25						19			
Proportion Time Blocked																	
Percent Grade (%)						(0										
Right Turn Channelized																	
Median Type Storage				Undi	vided												
Critical and Follow-up He	adwa	ys															
Base Critical Headway (sec)						7.1		6.2						4.1			
Critical Headway (sec)						6.48		6.45						4.29			
Base Follow-Up Headway (sec)						3.5		3.3						2.2			
Follow-Up Headway (sec)						3.57		3.53						2.37			
Delay, Queue Length, and	l Leve	of Se	ervice														
Flow Rate, v (veh/h)							25							35			
Capacity, c (veh/h)							178							720			
v/c Ratio							0.14							0.05			
95% Queue Length, Q ₉₅ (veh)							0.5							0.2			
Control Delay (s/veh)							28.5							10.3			
Level of Service (LOS)							D							В			
Approach Delay (s/veh)						28.5							1.4				
Approach LOS						D											

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Falls Indu. pkwy
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Falls Industrial Parkway
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY PM Peak 'No-Build'	Peak Hour Factor	0.89
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



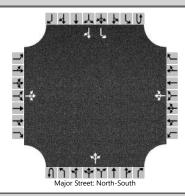
					-,-											
Vehicle Volumes and Adj	ustme	nts														
Approach	T	Eastk	oound			Westl	bound		Northbound					South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	0	1	0
Configuration							LR					TR		LT		
Volume (veh/h)						60		34			564	29		13	698	
Percent Heavy Vehicles (%)						2		0						33		
Proportion Time Blocked																
Percent Grade (%)						(0									
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up Ho	eadwa	ys														
Base Critical Headway (sec)	T					7.1		6.2						4.1		
Critical Headway (sec)						6.42		6.20						4.43		
Base Follow-Up Headway (sec)						3.5		3.3						2.2		
Follow-Up Headway (sec)						3.52		3.30						2.50		
Delay, Queue Length, and	d Leve	l of S	ervice													
Flow Rate, v (veh/h)	Τ						106							15		
Capacity, c (veh/h)							184							793		
v/c Ratio							0.57							0.02		
95% Queue Length, Q ₉₅ (veh)							3.1							0.1		
Control Delay (s/veh)							47.9							9.6		
Level of Service (LOS)							E							А		
Approach Delay (s/veh)					47.9							0.5				
Approach LOS					E											

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Quick Rd/Audi N
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Quick Rd / Audi North Dr
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY AM Peak 'No-Build'	Peak Hour Factor	0.88
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



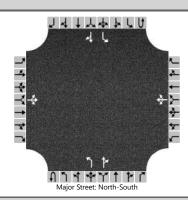
Vehicle Volumes and Ad	justme	nts														
Approach	Т	Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	0	1	0	0	1	1	0
Configuration			LTR				LTR				LTR			L		TR
Volume (veh/h)		25	0	0		0	0	1		0	675	1		5	385	5
Percent Heavy Vehicles (%)		0	0	0		0	0	0		0				0		
Proportion Time Blocked																
Percent Grade (%)			0			(0									
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.10	6.50	6.20		7.10	6.50	6.20		4.10				4.10		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3.30		3.50	4.00	3.30		2.20				2.20		
Delay, Queue Length, an	d Leve	l of S	ervice													
Flow Rate, v (veh/h)	Т		28				1			0				6		
Capacity, c (veh/h)			157				405			1128				855		
v/c Ratio			0.18				0.00			0.00				0.01		
95% Queue Length, Q ₉₅ (veh)			0.6				0.0			0.0				0.0		
Control Delay (s/veh)			32.9				13.9			8.2				9.2		
Level of Service (LOS)			D				В			А				А		
Approach Delay (s/veh)		37	2.9			13	3.9			0	.0			0	.1	
Approach LOS							 В									

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Quick Rd/Audi N
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Quick Rd / Audi North Dr
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY PM Peak 'No-Build'	Peak Hour Factor	0.94
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



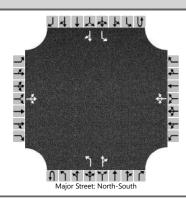
Vehicle Volumes and Adj	ustme	nts														
Approach		Eastk	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	0	1	0	0	1	1	0
Configuration			LTR				LTR				LTR			L		TR
Volume (veh/h)		5	0	0		9	0	15		1	546	3		3	708	21
Percent Heavy Vehicles (%)		0	0	0		0	0	0		0				0		
Proportion Time Blocked																
Percent Grade (%)			0			(0									
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up Ho	eadwa	ys														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.10	6.50	6.20		7.10	6.50	6.20		4.10				4.10		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3.30		3.50	4.00	3.30		2.20				2.20		
Delay, Queue Length, an	d Leve	l of S	ervice													
Flow Rate, v (veh/h)			5				26			1				3		
Capacity, c (veh/h)			122				241			849				1000		
v/c Ratio			0.04				0.11			0.00				0.00		
95% Queue Length, Q ₉₅ (veh)			0.1				0.4			0.0				0.0		
Control Delay (s/veh)			35.9				21.7			9.2				8.6		
Level of Service (LOS)			E				С			Α				А		
Approach Delay (s/veh)		35.9 21.7							0.0 0.0							
Approach LOS		E C														

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Quick Rd/Audi S
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Quick Rd S/ Audi South Dr
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY AM Peak 'No-Build'	Peak Hour Factor	0.81
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



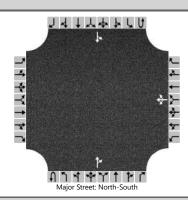
Vehicle Volumes and Adju	ıstme	nts														
Approach		Eastk	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	1	1	0	0	1	1	0
Configuration			LTR				LTR			L		TR		L		TR
Volume (veh/h)		1	0	259		0	0	4		381	676	14		10	370	1
Percent Heavy Vehicles (%)		0	0	7		0	0	0		2				0		
Proportion Time Blocked																
Percent Grade (%)			0			()									
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.10	6.50	6.27		7.10	6.50	6.20		4.12				4.10		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3.36		3.50	4.00	3.30		2.22				2.20		
Delay, Queue Length, and	l Leve	l of S	ervice													
Flow Rate, v (veh/h)			321				5			470				12		
Capacity, c (veh/h)			531				367			1103				796		
v/c Ratio			0.60				0.01			0.43				0.02		
95% Queue Length, Q ₉₅ (veh)			4.0				0.0			2.2				0.0		
Control Delay (s/veh)			21.6				15.0			10.7				9.6		
Level of Service (LOS)			С				В			В				А		
Approach Delay (s/veh)	21.6 15.0				5.0		3.8				0.3					
Approach LOS		СВВ														

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Quick Rd/Audi S
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Quick Rd S/ Audi South Dr
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY PM Peak 'No-Build'	Peak Hour Factor	0.90
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



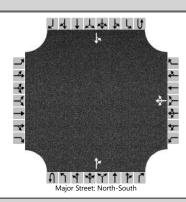
Vehicle Volumes and Ad	1															
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	1	1	0	0	1	1	0
Configuration			LTR				LTR			L		TR		L		TR
Volume (veh/h)		0	0	173		5	0	11		211	523	8		4	726	0
Percent Heavy Vehicles (%)		0	0	2		0	0	13		3				0		
Proportion Time Blocked																
Percent Grade (%)			0			(0									
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.10	6.50	6.22		7.10	6.50	6.33		4.13				4.10		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3.32		3.50	4.00	3.42		2.23				2.20		
Delay, Queue Length, an	d Leve	l of Se	ervice													
Flow Rate, v (veh/h)	T		192				18			234				4		
Capacity, c (veh/h)			382				54			814				995		
v/c Ratio			0.50				0.33			0.29				0.00		
95% Queue Length, Q ₉₅ (veh)	Ì		2.7			Ì	1.2		Ì	1.2				0.0		
Control Delay (s/veh)			23.6				100.7			11.2				8.6		
Level of Service (LOS)			С				F			В				Α		
Approach Delay (s/veh)		23	3.6			10	0.7			3	.2			0	.0	
Approach LOS							F									

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	Quick Road/State Rd Con.
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Quick/State Rd Connector
Analysis Year	2048	North/South Street	Quick Road
Time Analyzed	DY AM Peak 'No-Build'	Peak Hour Factor	0.80
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		

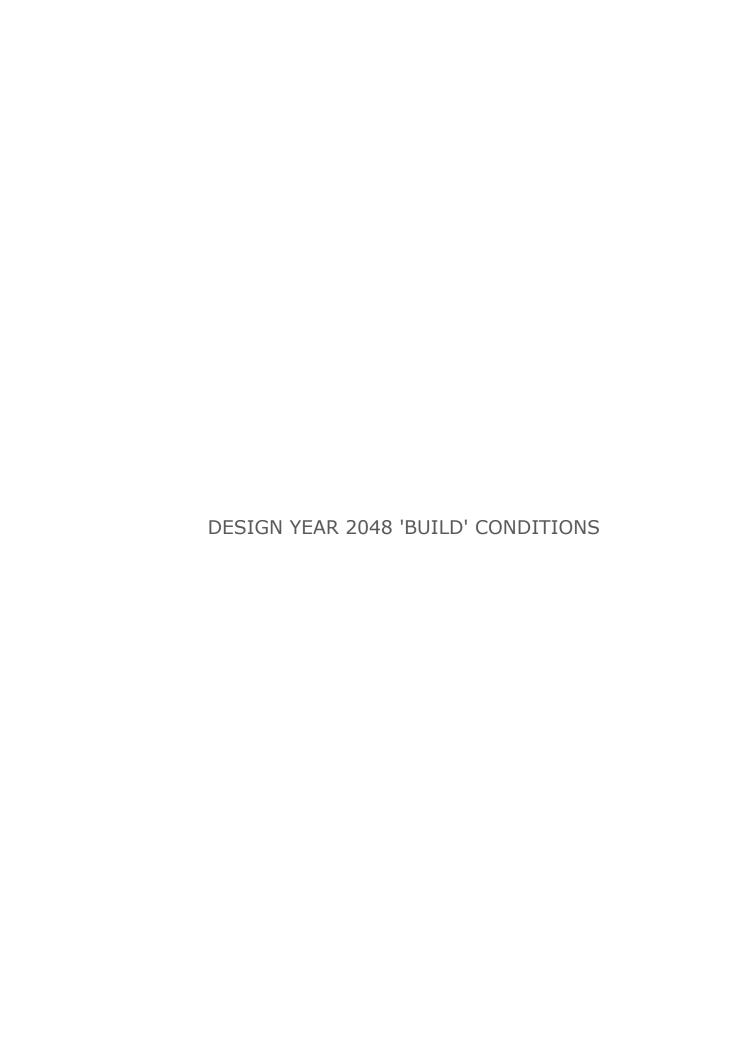


Vehicle Volumes and Adju	ıstme	nts														
Approach		Eastb	ound			West	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	0	1	0
Configuration							LTR					TR		LT		
Volume (veh/h)						0	0	5			381	0		25	260	
Percent Heavy Vehicles (%)						0	0	0						0		
Proportion Time Blocked																
Percent Grade (%)						()									
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)						7.1	6.5	6.2						4.1		
Critical Headway (sec)						7.10	6.50	6.20						4.10		
Base Follow-Up Headway (sec)						3.5	4.0	3.3						2.2		
Follow-Up Headway (sec)						3.50	4.00	3.30						2.20		
Delay, Queue Length, and	Leve	of Se	ervice													
Flow Rate, v (veh/h)							6							31		
Capacity, c (veh/h)							593							1096		
v/c Ratio							0.01							0.03		
95% Queue Length, Q ₉₅ (veh)							0.0							0.1		
Control Delay (s/veh)							11.1							8.4		
Level of Service (LOS)							В							А		
Approach Delay (s/veh)					11.1							1.0				
Approach LOS						I	3									

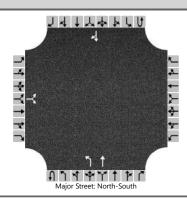
	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	Quick Road/State Rd Con.
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Quick/State Rd Connector
Analysis Year	2048	North/South Street	Quick Road
Time Analyzed	DY PM Peak 'No-Build'	Peak Hour Factor	0.80
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



Vehicle Volumes and Adju	ıstme	nts														
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	0	1	0
Configuration							LTR					TR		LT		
Volume (veh/h)						0	0	23			211	0		5	173	
Percent Heavy Vehicles (%)						0	0	0						0		
Proportion Time Blocked																
Percent Grade (%)						()									
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)						7.1	6.5	6.2						4.1		
Critical Headway (sec)						7.10	6.50	6.20						4.10		
Base Follow-Up Headway (sec)						3.5	4.0	3.3						2.2		
Follow-Up Headway (sec)						3.50	4.00	3.30						2.20		
Delay, Queue Length, and	l Leve	l of Se	ervice													
Flow Rate, v (veh/h)							29							6		
Capacity, c (veh/h)							780							1312		
v/c Ratio							0.04							0.00		
95% Queue Length, Q ₉₅ (veh)							0.1							0.0		
Control Delay (s/veh)							9.8							7.8		
Level of Service (LOS)							А							А		
Approach Delay (s/veh)						9.8							0.3			
Approach LOS						,	4									

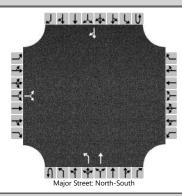


	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Road / Boulder Blvd
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Boulder Blvd
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY AM Peak 'Build'	Peak Hour Factor	0.80
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



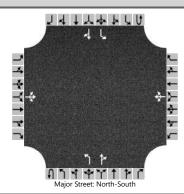
Vehicle Volumes and Ad	justme	nts														
Approach	T	Eastb	oound			Westl	bound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	0	0	1	1	0	0	0	1	0
Configuration			LR							L	Т					TR
Volume (veh/h)		46		10						1	709				418	5
Percent Heavy Vehicles (%)		0		0						100						
Proportion Time Blocked																
Percent Grade (%)			0													
Right Turn Channelized																
Median Type Storage				Left	Only								1			
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)	T	7.1		6.2						4.1						
Critical Headway (sec)		6.40		6.20						5.10						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.50		3.30						3.10						
Delay, Queue Length, an	d Leve	l of S	ervice	•												
Flow Rate, v (veh/h)	T		70							1						
Capacity, c (veh/h)			313							684						
v/c Ratio			0.22							0.00						
95% Queue Length, Q ₉₅ (veh)			0.8							0.0						
Control Delay (s/veh)			19.8							10.3						
Level of Service (LOS)			С							В						
Approach Delay (s/veh)		19	9.8							0	.0					
Approach LOS			С													

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Road / Boulder Blvd
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Boulder Blvd
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY PM Peak 'Build'	Peak Hour Factor	0.92
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



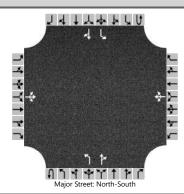
Vehicle Volumes and Adju	stme	nts														
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	T	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	0	0	1	1	0	0	0	1	0
Configuration			LR							L	T					TR
Volume (veh/h)		38		8						16	613				803	35
Percent Heavy Vehicles (%)		0		20						0						
Proportion Time Blocked																
Percent Grade (%)		(0													
Right Turn Channelized																
Median Type Storage				Left	Only								1			
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)		7.1		6.2						4.1						
Critical Headway (sec)		6.40		6.40						4.10						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.50		3.48						2.20						
Delay, Queue Length, and	Leve	l of Se	ervice													
Flow Rate, v (veh/h)			50							17						
Capacity, c (veh/h)			263							756						
v/c Ratio			0.19							0.02						
95% Queue Length, Q ₉₅ (veh)			0.7							0.1						
Control Delay (s/veh)			21.9							9.9						
Level of Service (LOS)			С							А						
Approach Delay (s/veh)	21.9								0.3							
Approach LOS		C C														

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/ Falls Com Pkwy
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Falls Commerce Parkway
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY AM Peak 'Build'	Peak Hour Factor	0.86
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



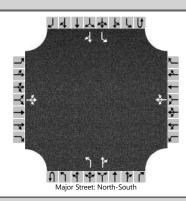
Vehicle Volumes and Ad	justme	nts														
Approach		Eastb	ound			Westl	bound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	1	1	0	0	1	1	0
Configuration			LTR				LTR			L		TR		L		TR
Volume (veh/h)		0	0	0		1	0	9		1	771	13		11	413	1
Percent Heavy Vehicles (%)		0	0	0		0	0	66		0				67		
Proportion Time Blocked																
Percent Grade (%)			0				0									
Right Turn Channelized																
Median Type Storage				Left	Only								1			
Critical and Follow-up H	leadwa	ys														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.10	6.50	6.20		7.10	6.50	6.86		4.10				4.77		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3.30		3.50	4.00	3.89		2.20				2.80		
Delay, Queue Length, ar	nd Leve	l of Se	ervice													
Flow Rate, v (veh/h)	T		0				12			1				13		
Capacity, c (veh/h)							256			1092				536		
v/c Ratio							0.05			0.00				0.02		
95% Queue Length, Q ₉₅ (veh)							0.1			0.0				0.1		
Control Delay (s/veh)							19.7			8.3				11.9		
Level of Service (LOS)							С			А				В		
Approach Delay (s/veh)						19	9.7			0	.0			0	.3	
Approach LOS	1					(С									

	HCS7 Two-Way Stop	o-Control Report								
General Information		Site Information								
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/ Falls Com Pkwy							
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls							
Date Performed	9/22/2023	East/West Street	Falls Commerce Parkway							
Analysis Year	2048	North/South Street	State Road							
Time Analyzed	DY PM Peak 'Build'	Peak Hour Factor	0.93							
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25							
Project Description	State Road Corridor Study									



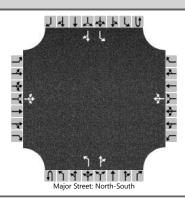
Vehicle Volumes and Ad	justme	nts														
Approach	T	Eastb	ound			Westl	bound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	1	1	0	0	1	1	0
Configuration			LTR				LTR			L		TR		L		TR
Volume (veh/h)		1	0	4		4	0	14		0	686	0		9	778	0
Percent Heavy Vehicles (%)		0	0	33		0	0	10		0				67		
Proportion Time Blocked																
Percent Grade (%)			0				0									
Right Turn Channelized																
Median Type Storage				Left	Only								1			
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)	T	7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.10	6.50	6.53		7.10	6.50	6.30		4.10				4.77		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3.60		3.50	4.00	3.39		2.20				2.80		
Delay, Queue Length, an	d Leve	l of Se	ervice													
Flow Rate, v (veh/h)	Т		5				19			0				10		
Capacity, c (veh/h)			290				336			806				635		
v/c Ratio			0.02				0.06			0.00				0.02		
95% Queue Length, Q ₉₅ (veh)			0.1				0.2			0.0				0.0		
Control Delay (s/veh)			17.6				16.4			9.5				10.8		
Level of Service (LOS)			С				С			А				В		
Approach Delay (s/veh)		17	7.6			16	5.4			0	.0			0	.1	
Approach LOS		(С			(С									

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Buckeye/Str it
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Buckeye Dr / Storr it Dr
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY AM Peak 'Build'	Peak Hour Factor	0.86
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



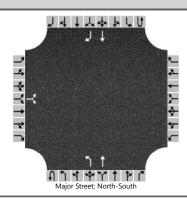
Vehicle Volumes and Adju	ıstme	nts														
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	1	1	0	0	1	1	0
Configuration			LTR				LTR			L		TR		L		TR
Volume (veh/h)		1	0	4		0	0	4		14	779	3		3	405	9
Percent Heavy Vehicles (%)		0	0	33		0	0	67		10				0		
Proportion Time Blocked																
Percent Grade (%)			0			()									
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.10	6.50	6.53		7.10	6.50	6.87		4.20				4.10		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3.60		3.50	4.00	3.90		2.29				2.20		
Delay, Queue Length, and	l Leve	of Se	ervice													
Flow Rate, v (veh/h)			6				5			16				3		
Capacity, c (veh/h)			301				256			1041				757		
v/c Ratio			0.02				0.02			0.02				0.00		
95% Queue Length, Q ₉₅ (veh)			0.1				0.1			0.0				0.0		
Control Delay (s/veh)			17.2				19.3			8.5				9.8		
Level of Service (LOS)			С				С			А				А		
Approach Delay (s/veh)		17.2 19.3 0.1 0.1														
Approach LOS		(С			(C									

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Buckeye/Str it
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Buckeye Dr / Storr it Dr
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY PM Peak 'Build'	Peak Hour Factor	0.93
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



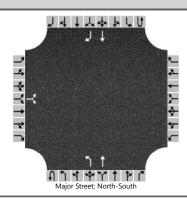
Vehicle Volumes and Ad	justme	nts														
Approach		Eastk	ound			Westl	bound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	1	0	0	1	1	0	0	1	1	0
Configuration			LTR				LTR			L		TR		L		TR
Volume (veh/h)		6	0	9		1	0	6		6	675	1		9	768	0
Percent Heavy Vehicles (%)		0	0	0		0	0	0		0				33		
Proportion Time Blocked																
Percent Grade (%)			0				0									
Right Turn Channelized																
Median Type Storage				Undi	vided											
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)		7.10	6.50	6.20		7.10	6.50	6.20		4.10				4.43		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3.30		3.50	4.00	3.30		2.20				2.50		
Delay, Queue Length, an	d Leve	l of S	ervice													
Flow Rate, v (veh/h)	Т		16				8			6				10		
Capacity, c (veh/h)			159				270			814				750		
v/c Ratio			0.10				0.03			0.01				0.01		
95% Queue Length, Q ₉₅ (veh)			0.3				0.1			0.0				0.0		
Control Delay (s/veh)			30.1				18.7			9.5				9.9		
Level of Service (LOS)	Ì		D			Ì	С		Ì	А		Ì		А		
Approach Delay (s/veh)		30	0.1			18	3.7			0	.1			0	.1	
Approach LOS			D D				C									

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Salt Creek Run
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Salt Creek Run
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY AM Peak 'Build'	Peak Hour Factor	0.85
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



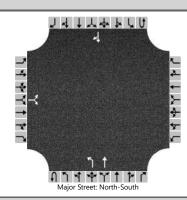
Vehicle Volumes and Ad	justme	nts														
Approach	T	Eastk	oound			Westl	bound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	0	0	1	1	0	0	0	1	1
Configuration			LR							L	Т				Т	R
Volume (veh/h)		73		13						5	665				423	20
Percent Heavy Vehicles (%)		2		0						25						
Proportion Time Blocked																
Percent Grade (%)			0													
Right Turn Channelized														N	No	
Median Type Storage				Left	Only								1			
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)		7.1		6.2						4.1						
Critical Headway (sec)		6.42		6.20						4.35						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.52		3.30						2.43						
Delay, Queue Length, an	d Leve	of S	ervice													
Flow Rate, v (veh/h)	T	Π	101							6						
Capacity, c (veh/h)			336							938						
v/c Ratio			0.30							0.01						
95% Queue Length, Q ₉₅ (veh)			1.2							0.0						
Control Delay (s/veh)			20.3							8.9						
Level of Service (LOS)			С							Α						
Approach Delay (s/veh)		2	0.3							0	.1					
Approach LOS			С													

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Salt Creek Run
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Salt Creek Run
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY PM Peak 'Build'	Peak Hour Factor	0.86
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



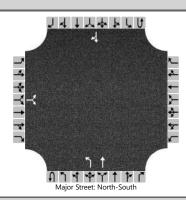
Vehicle Volumes and Ad	justme	nts														
Approach	T	Eastb	oound			Westl	bound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	0	0	1	1	0	0	0	1	1
Configuration			LR							L	Т				Т	R
Volume (veh/h)		39		15						19	615				703	50
Percent Heavy Vehicles (%)		4		0						0						
Proportion Time Blocked																
Percent Grade (%)			0													
Right Turn Channelized														١	10	
Median Type Storage				Left	Only								1			
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)	T	7.1		6.2						4.1						
Critical Headway (sec)		6.44		6.20						4.10						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.54		3.30						2.20						
Delay, Queue Length, an	d Leve	l of S	ervice													
Flow Rate, v (veh/h)	T		63							22						
Capacity, c (veh/h)			279							780						
v/c Ratio			0.23							0.03						
95% Queue Length, Q ₉₅ (veh)			0.8							0.1						
Control Delay (s/veh)			21.6							9.8						
Level of Service (LOS)			С							А						
Approach Delay (s/veh)		2	1.6							0	.3					
Approach LOS			С													

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Woodridge N Dr
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Woodridge Elem. North Dr
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY AM Peak 'Build'	Peak Hour Factor	0.93
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



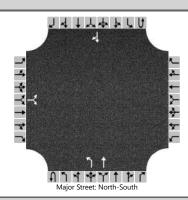
Vehicle Volumes and Adju	ıstme	nts														
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	T	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	0	0	1	1	0	0	0	1	0
Configuration			LR							L	T					TR
Volume (veh/h)		21		3						15	650				376	33
Percent Heavy Vehicles (%)		7		100						0						
Proportion Time Blocked																
Percent Grade (%)		(0													
Right Turn Channelized																
Median Type Storage				Left	Only								1			
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)		7.1		6.2						4.1						
Critical Headway (sec)		6.47		7.20						4.10						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.56		4.20						2.20						
Delay, Queue Length, and	Leve	of Se	ervice													
Flow Rate, v (veh/h)			26							16						
Capacity, c (veh/h)			350							1131						
v/c Ratio			0.07							0.01						
95% Queue Length, Q ₉₅ (veh)			0.2							0.0						
Control Delay (s/veh)			16.1							8.2						
Level of Service (LOS)			С							А						
Approach Delay (s/veh)	16.1								0.2							
Approach LOS		(C													

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Woodridge N Dr
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Woodridge Elem. North Dr
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY PM Peak 'Build'	Peak Hour Factor	0.95
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



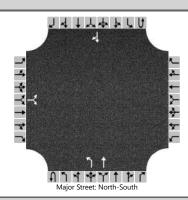
Vehicle Volumes and Adju	stme	nts														
Approach		Eastb	ound			West	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	T	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	0	0	1	1	0	0	0	1	0
Configuration			LR							L	T					TR
Volume (veh/h)		24		3						0	583				611	24
Percent Heavy Vehicles (%)		6		0						0						
Proportion Time Blocked																
Percent Grade (%)		(0													
Right Turn Channelized																
Median Type Storage				Left	Only								1			
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)		7.1		6.2						4.1						
Critical Headway (sec)		6.46		6.20						4.10						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.55		3.30						2.20						
Delay, Queue Length, and	Leve	of Se	ervice													
Flow Rate, v (veh/h)			28							0						
Capacity, c (veh/h)			332							931						
v/c Ratio			0.09							0.00						
95% Queue Length, Q ₉₅ (veh)			0.3							0.0						
Control Delay (s/veh)			16.8							8.9						
Level of Service (LOS)			С							А						
Approach Delay (s/veh)	16.8								0.0							
Approach LOS		(C													

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Woodridge S Dr
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Woodridge Elem. South Dr
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY AM Peak 'Build'	Peak Hour Factor	0.91
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



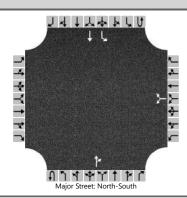
Vehicle Volumes and Adju	ıstme	nts														
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	T	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	0	0	1	1	0	0	0	1	0
Configuration			LR							L	T					TR
Volume (veh/h)		1		3						19	650				373	8
Percent Heavy Vehicles (%)		0		0						0						
Proportion Time Blocked																
Percent Grade (%)		(0													
Right Turn Channelized																
Median Type Storage				Left	Only								1			
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)		7.1		6.2						4.1						
Critical Headway (sec)		6.40		6.20						4.10						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.50		3.30						2.20						
Delay, Queue Length, and	Leve	l of Se	ervice													
Flow Rate, v (veh/h)			4							21						
Capacity, c (veh/h)			525							1151						
v/c Ratio			0.01							0.02						
95% Queue Length, Q ₉₅ (veh)			0.0							0.1						
Control Delay (s/veh)			11.9							8.2						
Level of Service (LOS)			В							А						
Approach Delay (s/veh)	11.9								0	.2						
Approach LOS			В													

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd / Woodridge S Dr
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Woodridge Elem. South Dr
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY PM Peak 'Build'	Peak Hour Factor	0.92
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



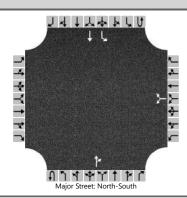
Vehicle Volumes and Adju	ıstme	nts														
Approach		Eastb	ound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	T	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	0	0	0	1	1	0	0	0	1	0
Configuration			LR							L	T					TR
Volume (veh/h)		0		15						1	568				648	0
Percent Heavy Vehicles (%)		0		0						0						
Proportion Time Blocked																
Percent Grade (%)		(0													
Right Turn Channelized																
Median Type Storage				Left	Only								1			
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)		7.1		6.2						4.1						
Critical Headway (sec)		6.40		6.20						4.10						
Base Follow-Up Headway (sec)		3.5		3.3						2.2						
Follow-Up Headway (sec)		3.50		3.30						2.20						
Delay, Queue Length, and	Leve	of Se	ervice													
Flow Rate, v (veh/h)			16							1						
Capacity, c (veh/h)			440							903						
v/c Ratio			0.04							0.00						
95% Queue Length, Q ₉₅ (veh)			0.1							0.0						
Control Delay (s/veh)			13.5							9.0						
Level of Service (LOS)			В							А						
Approach Delay (s/veh)		13.5										-				
Approach LOS			В													

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Falls Indu. pkwy
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Falls Industrial Parkway
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY AM Peak 'Build'	Peak Hour Factor	0.83
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		



Vehicle Volumes and Ad	justme	nts														
Approach	Т	Eastk	oound			Westl	oound			North	bound		Π	South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	1	1	0
Configuration							LR					TR		L	Т	
Volume (veh/h)						16		5			676	29		29	355	
Percent Heavy Vehicles (%)						8		25						19		
Proportion Time Blocked																
Percent Grade (%)							0									
Right Turn Channelized																
Median Type Storage				Left	Only								1			
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)	Т					7.1		6.2						4.1		
Critical Headway (sec)						6.48		6.45						4.29		
Base Follow-Up Headway (sec)						3.5		3.3						2.2		
Follow-Up Headway (sec)						3.57		3.53						2.37		
Delay, Queue Length, an	d Leve	l of S	ervice													
Flow Rate, v (veh/h)	Т						25							35		
Capacity, c (veh/h)							299							720		
v/c Ratio							0.08							0.05		
95% Queue Length, Q ₉₅ (veh)							0.3							0.2		
Control Delay (s/veh)							18.1							10.3		
Level of Service (LOS)							С		Ì		Ì	Ì		В		
Approach Delay (s/veh)			•			18	3.1	•						0	.8	•
Approach LOS						(C									

	HCS7 Two-Way Stop	o-Control Report	
General Information		Site Information	
Analyst	Naser J. Tabanja, P.E.	Intersection	State Rd/Falls Indu. pkwy
Agency/Co.	GPD Group	Jurisdiction	City of Cuyahoga Falls
Date Performed	9/22/2023	East/West Street	Falls Industrial Parkway
Analysis Year	2048	North/South Street	State Road
Time Analyzed	DY PM Peak 'Build'	Peak Hour Factor	0.89
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	State Road Corridor Study		

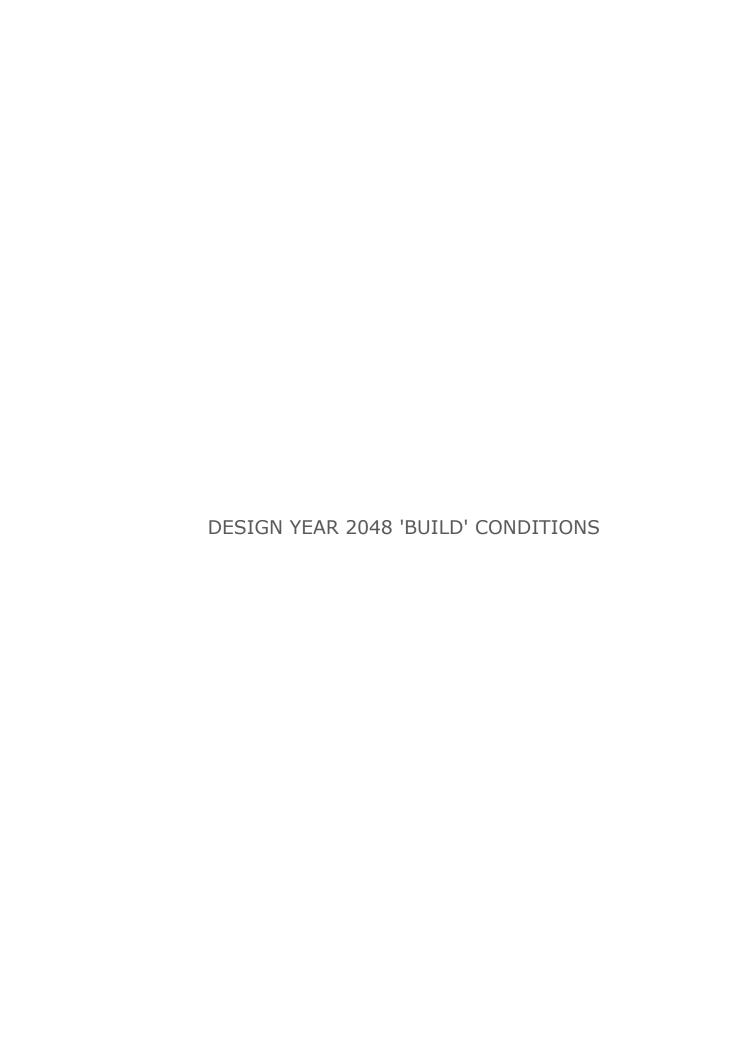


Vehicle Volumes and Adj	ustme	nts														
Approach		Eastb	oound			Westl	oound			North	bound			South	bound	
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	0		0	1	0	0	0	1	0	0	1	1	0
Configuration							LR					TR		L	Т	
Volume (veh/h)						60		34			564	29		13	698	
Percent Heavy Vehicles (%)						2		0						33		
Proportion Time Blocked																
Percent Grade (%)						(0									
Right Turn Channelized																
Median Type Storage				Left	Only								1			
Critical and Follow-up H	eadwa	ys														
Base Critical Headway (sec)						7.1		6.2						4.1		
Critical Headway (sec)						6.42		6.20						4.43		
Base Follow-Up Headway (sec)						3.5		3.3						2.2		
Follow-Up Headway (sec)						3.52		3.30						2.50		
Delay, Queue Length, an	d Leve	l of S	ervice													
Flow Rate, v (veh/h)	T						106							15		
Capacity, c (veh/h)							326							793		
v/c Ratio							0.32							0.02		
95% Queue Length, Q ₉₅ (veh)							1.4							0.1		
Control Delay (s/veh)							21.3							9.6		
Level of Service (LOS)		Ì					С							А		
Approach Delay (s/veh)	21.3										0.2					
Approach LOS		C														

				HC:	S7 Rc	und	abo	outs	Re	port								
General Information							Sit	e Inf	orn	natio	า							
Analyst	Naser	J. Tabar	nja, P.E.			+		<u>a</u>		Inters	ntersection				ate Roa	d / Q	uick Ro	oad / A
Agency or Co.	GPD (Group								E/W S				Qı	Quick Road / Audi Dealershi			
Date Performed	9/29/	2023					M		*	N/S S	treet Na	me		Sta	State Road			
Analysis Year	2048						Analy	sis Time	Period (h	ırs)	0.2	25						
Time Analyzed	DY A	И Peak '	Build'		*					Peak	Hour Fac	tor		0.6	34			
Project Description	State	Road Co	orridor St	udy	Juris			Juriso	liction			Cit	ty of Cu	ıyaho	ga Fall	5		
Volume Adjustments	and S	Site C	harac	teristic	cs													
Approach		E	ΕB			٧	VB				N	В				SE	3	
Movement	U	L	Т	R	U	L	Т		R	U	L	Т	R	U		L	Т	R
Number of Lanes (N)	0	0	1	0	0	0	1		0	0	0	1	0	0		0	1	0
Lane Assignment			Ľ	ΓR				LTR				LT	'R				I	LTR
Volume (V), veh/h	0	26	0	259	0	0	0		1	0	381	675	1	0		5	385	5
Percent Heavy Vehicles, %	0	0	0	7	0	0	0		0	0	2	2	0	0		0	6	0
Flow Rate (VPCE), pc/h	0	31	0	330	0	0	0		1	0	463	820	1	0		6	486	6
Right-Turn Bypass		No	one		· ·	N	one				No	ne				No	ne	
Conflicting Lanes			1		1				,	1				1				
Pedestrians Crossing, p/h			0		0 0						0							
Critical and Follow-U	Јр Неа	adway	y Adju	stmen	ıt													
Approach				EB				WB				NB					SB	
Lane			Left	Right	Bypas	s L	eft	Righ		Bypass	Left	Right	Вур	ass	Left	R	ight	Bypass
Critical Headway (s)				4.9763				4.976	3			4.9763	3			4.	9763	
Follow-Up Headway (s)				2.6087				2.608	7			2.6087	7			2.	6087	
Flow Computations,	Capac	ity ar	nd v/c	Ratio	s													
Approach				EB				WB				NB					SB	
Lane			Left	Right	Bypas	s L	eft	Righ	: 1	Bypass	Left	Right	Вур	ass	Left	R	ight	Bypass
Entry Flow (v _e), pc/h				361				1	Т			1284					498	
Entry Volume, veh/h				339				1	T			1259				4	470	
Circulating Flow (v₀), pc/h				492				1314				37					463	
Exiting Flow (vex), pc/h				7				469				852				8	316	
Capacity (Cpce), pc/h				835				361	T			1329				8	361	
Capacity (c), veh/h				786				361				1303				8	313	
v/c Ratio (x)				0.43				0.00				0.97				(0.58	
Delay and Level of S	ervice																	
Approach				EB				WB				NB					SB	
Lane			Left	Right	Bypas	s L	eft	Righ		Bypass	Left	Right	Вур	ass	Left	R	ight	Bypass
Lane Control Delay (d), s/veh				10.2				10.0				35.5				1	13.2	
Lane LOS				В				В				Е					В	
95% Queue, veh				2.2				0.0				19.1					3.8	
Approach Delay, s/veh				10.2				10.0			35.5				13.2			
Approach LOS				В				В				E			В			
Intersection Delay, s/veh LO	S					26.3								D				

				HC:	S7 Rc	und	abo	outs	Re	port								
General Information							Sit	e Inf	orn	natio	1							
Analyst	Naser	J. Tabar	nja, P.E.	П		/ *		<u>.</u>		Inters	ection			Stat	e Road	/ Quick R	.oad / A	
Agency or Co.	GPD (Group								E/W S	E/W Street Name (Qui	Quick Road / Audi Dealershi			
Date Performed	9/29/	2023					M		\ *	N/S S	N/S Street Name			Stat	State Road			
Analysis Year	2048							Analy	sis Time	Period (h	ırs)	0.25	5					
Time Analyzed	DY PN	∕l Peak 'l	Build'		*			Peak	Hour Fac	tor		0.92	0.92					
Project Description	State	Road Co	orridor St	udy	Juris 1			Juriso	liction			City	of Cuy	ahoga Fal	ls			
Volume Adjustments	and S	Site C	harac	teristic	cs													
Approach		E	EB			٧	VB				N	В				SB		
Movement	U	L	Т	R	U	L	Т		R	U	L	Т	R	U	L	Т	R	
Number of Lanes (N)	0	0	1	0	0	0	1		0	0	0	1	0	0	0	1	0	
Lane Assignment		•	Ľ	ΓR				LTR				LT	R		•		LTR	
Volume (V), veh/h	0	5	0	173	0	9	0	1	5	0	212	546	3	0	3	708	21	
Percent Heavy Vehicles, %	0	0	0	2	0	0	0		0	0	3	3	0	0	0	2	0	
Flow Rate (VPCE), pc/h	0	5	0	192	0	10	0	•	6	0	237	611	3	0	3	785	23	
Right-Turn Bypass		No	one			N	one				No	ne			•	None		
Conflicting Lanes			1		1				,	1				1				
Pedestrians Crossing, p/h			0		0 0						0							
Critical and Follow-U	Јр Неа	adway	y Adju	stmen	ıt													
Approach				EB		Т		WB				NB		Т		SB		
Lane			Left	Right	Bypas	s L	eft	Righ	:	Bypass	Left	Right	Вура	ass	Left	Right	Bypass	
Critical Headway (s)				4.9763				4.976	3			4.9763	3	\top		4.9763		
Follow-Up Headway (s)				2.6087				2.608	7			2.6087	,			2.6087		
Flow Computations,	Capac	ity ar	nd v/c	Ratio	s													
Approach				EB		Т		WB				NB		Т		SB		
Lane			Left	Right	Bypas	s L	eft	Righ		Bypass	Left	Right	Вура	ass	Left	Right	Bypass	
Entry Flow (v _e), pc/h				197				26	T			851		T		811		
Entry Volume, veh/h				193				26				826				796		
Circulating Flow (v _c), pc/h				798	-			853				8	_	\top		247		
Exiting Flow (vex), pc/h				6				260				632				987		
Capacity (c _{pce}), pc/h				611				578				1369				1073		
Capacity (c), veh/h				600				578	Ť			1329				1052		
v/c Ratio (x)				0.32				0.04				0.62				0.76		
Delay and Level of S	ervice																	
Approach				EB				WB				NB				SB		
Lane			Left	Right	Bypas	s L	eft	Righ		Bypass	Left	Right	Вура	ass	Left	Right	Bypass	
Lane Control Delay (d), s/veh				10.4				6.7				10.2				16.9		
Lane LOS				В				А				В				С		
95% Queue, veh				1.4				0.1				4.6				7.5		
Approach Delay, s/veh				10.4				6.7			10.2				16.9			
Approach LOS				В				Α				В				С		
Intersection Delay, s/veh LO	S					13.1								В				

APPENDIX H STORAGE LENGTH ANALYSIS



DESIGN YEAR 2048 'BUILD' TRAFFIC VOLUMES - AM PEAK HOUR



STATE ROAD / BOULDER BOULEVARD

ANTICIPATED CYCLE LENGTH: 60 SEC.

NB STATE ROAD

NB STATE ROAD										
	DES	SIGN SPEED:	35	MPH						
MOVEMENT:	LEFT		THRU							
VOLUME:	1		709							
% OF APPROACH VOLUME:	0.1%		99.9%							
LANE GROUP:	LEFT		THRU							
LANE GROUP VOLUME:	1		709							
NUMBER OF LANES:	1									
VEHICLES PER CYCLE:	1									
CONTROLLING LANE GROUP:	X									
TAPER LENGTH:	50									
STORAGE LENGTH:	50									
TOTAL TURN LANE LENGTH:	100									

SB STATE ROAD

	DES	SIGN SPEED:	35	MPH	
MOVEMENT:			THRU		RIGHT
VOLUME:			418		5
% OF APPROACH VOLUME:			98.8%		1.2%
LANE GROUP:				THRU/RIGHT	
LANE GROUP VOLUME:					
NUMBER OF LANES:					
VEHICLES PER CYCLE:					
CONTROLLING LANE GROUP:					
TAPER LENGTH:					
STORAGE LENGTH:					
TOTAL TURN LANE LENGTH:					

EB BOULDER BLVD

	DES	SIGN SPEED:	35	MPH	
MOVEMENT:	LEFT				RIGHT
VOLUME:	46				10
% OF APPROACH VOLUME:	82.1%				17.9%
LANE GROUP:		-	LEFT/RIGHT		
LANE GROUP VOLUME:					
NUMBER OF LANES:					
VEHICLES PER CYCLE:					
CONTROLLING LANE GROUP:					
TAPER LENGTH:					
STORAGE LENGTH:					
TOTAL TURN LANE LENGTH:	•				

N/A

	,	DESIGN SPEED:	35	MPH	
MOVEMENT:					
VOLUME:					
% OF APPROACH VOLUME:					
LANE GROUP:					
LANE GROUP VOLUME:		·			
NUMBER OF LANES:					
VEHICLES PER CYCLE:					
CONTROLLING LANE GROUP:					
TAPER LENGTH:					
STORAGE LENGTH:					
TOTAL TURN LANE LENGTH:					

DESIGN YEAR 2048 'BUILD' TRAFFIC VOLUMES - PM PEAK HOUR



STATE ROAD / BOULDER BOULEVARD

ANTICIPATED CYCLE LENGTH: 60 SEC.

NB STATE ROAD

	NB STATE ROAD										
	DES	SIGN SPEED:	35	MPH							
MOVEMENT:	LEFT		THRU								
VOLUME:	16		613								
% OF APPROACH VOLUME:	2.5%		97.5%								
LANE GROUP:	LEFT		THRU								
LANE GROUP VOLUME:	16		613								
NUMBER OF LANES:	1										
VEHICLES PER CYCLE:	1										
CONTROLLING LANE GROUP:	X										
TAPER LENGTH:	50										
STORAGE LENGTH:	50										
TOTAL TURN LANE LENGTH:	100										

SB STATE ROAD

	DES	SIGN SPEED:	35	MPH	
MOVEMENT:			THRU		RIGHT
VOLUME:			803		35
% OF APPROACH VOLUME:			95.8%		4.2%
LANE GROUP:				THRU/RIGHT	
LANE GROUP VOLUME:					
NUMBER OF LANES:					
VEHICLES PER CYCLE:					
CONTROLLING LANE GROUP:					
TAPER LENGTH:					
STORAGE LENGTH:					
TOTAL TURN LANE LENGTH:					

EB BOULDER BLVD

	DE9	SIGN SPEED:	35	MPH	
MOVEMENT:	LEFT				RIGHT
VOLUME:	38				8
% OF APPROACH VOLUME:	82.6%				17.4%
LANE GROUP:			LEFT/RIGHT		
LANE GROUP VOLUME:					
NUMBER OF LANES:					
VEHICLES PER CYCLE:					
CONTROLLING LANE GROUP:					
TAPER LENGTH:					
STORAGE LENGTH:					
TOTAL TURN LANE LENGTH:					

	N/A	SION CDEED.	25	MDII	
	DES	SIGN SPEED:	35	MPH	
MOVEMENT:					
VOLUME:					
% OF APPROACH VOLUME:					
LANE GROUP:					
LANE GROUP VOLUME:					
NUMBER OF LANES:					
VEHICLES PER CYCLE:					
CONTROLLING LANE GROUP:					
TAPER LENGTH:					
STORAGE LENGTH:					
TOTAL TURN LANE LENGTH:					

STORAGE LENGTH CALCULATIONS DESIGN YEAR 2048 'BUILD' TRAFFIC VOLUMES - AM PEAK HOUR



STATE ROAD / SALT CREEK RUN

ANTICIPATED CYCLE LENGTH: 60 SEC.

NB STATE ROAD

_	DES	SIGN SPEED:	35	MPH	
MOVEMENT:	LEFT		THRU		
VOLUME:	5		665		
% OF APPROACH VOLUME:	0.7%		99.3%		
LANE GROUP:	LEFT		THRU		
LANE GROUP VOLUME:	5		665		
NUMBER OF LANES:	1				
VEHICLES PER CYCLE:	1				
CONTROLLING LANE GROUP:	X				
TAPER LENGTH:	50				
STORAGE LENGTH:	50				
TOTAL TURN LANE LENGTH:	100				

SB STATE ROAD

	DES	SIGN SPEED:	35	MPH	
MOVEMENT:			THRU		RIGHT
VOLUME:			423		20
% OF APPROACH VOLUME:			95.5%		4.5%
LANE GROUP:			THRU		RIGHT
LANE GROUP VOLUME:					20
NUMBER OF LANES:					1
VEHICLES PER CYCLE:					1
CONTROLLING LANE GROUP:					X
TAPER LENGTH:					50
STORAGE LENGTH:					50
TOTAL TURN LANE LENGTH:					100

EB Salt Creek Run

	DES	SIGN SPEED:	35	MPH	
MOVEMENT:	LEFT				RIGHT
VOLUME:	73				13
% OF APPROACH VOLUME:	84.9%				15.1%
LANE GROUP:			LEFT/RIGHT		
LANE GROUP VOLUME:					
NUMBER OF LANES:					
VEHICLES PER CYCLE:					
CONTROLLING LANE GROUP:					
TAPER LENGTH:					
STORAGE LENGTH:					
TOTAL TURN LANE LENGTH:					

	N/A					
		DES	SIGN SPEED:	35	MPH	
MOVEMENT:						
VOLUME:						
% OF APPROACH VOLUME:						
LANE GROUP:						
LANE GROUP VOLUME:						
NUMBER OF LANES:						
VEHICLES PER CYCLE:						
CONTROLLING LANE GROUP:						
TAPER LENGTH:						
STORAGE LENGTH:						
TOTAL TURN LANE LENGTH:						

DESIGN YEAR 2048 'BUILD' TRAFFIC VOLUMES - PM PEAK HOUR



STATE ROAD / SALT CREEK RUN

ANTICIPATED CYCLE LENGTH: 60 SEC.

NB STATE ROAD

_	DES	SIGN SPEED:	35	MPH	
MOVEMENT:	LEFT		THRU		
VOLUME:	19		615		
% OF APPROACH VOLUME:	3.0%		97.0%		
LANE GROUP:	LEFT		THRU		
LANE GROUP VOLUME:	19				
NUMBER OF LANES:	1				
VEHICLES PER CYCLE:	1				
CONTROLLING LANE GROUP:	X				
TAPER LENGTH:	50				
STORAGE LENGTH:	50				
TOTAL TURN LANE LENGTH:	100				

SB STATE ROAD

	DES	SIGN SPEED:	35	MPH	
MOVEMENT:			THRU		RIGHT
VOLUME:			703		50
% OF APPROACH VOLUME:			93.4%		6.6%
LANE GROUP:			THRU		RIGHT
LANE GROUP VOLUME:					50
NUMBER OF LANES:					1
VEHICLES PER CYCLE:					1
CONTROLLING LANE GROUP:					X
TAPER LENGTH:					50
STORAGE LENGTH:					50
TOTAL TURN LANE LENGTH:					100

EB Salt Creek Run

	DES	SIGN SPEED:	35	MPH	
MOVEMENT:	LEFT				RIGHT
VOLUME:	39				15
% OF APPROACH VOLUME:	72.2%				27.8%
LANE GROUP:			LEFT/RIGHT		
LANE GROUP VOLUME:					
NUMBER OF LANES:					
VEHICLES PER CYCLE:					
CONTROLLING LANE GROUP:					
TAPER LENGTH:					
STORAGE LENGTH:					
TOTAL TURN LANE LENGTH:					

	N/A					
		DES	SIGN SPEED:	35	MPH	
MOVEMENT:						
VOLUME:						
% OF APPROACH VOLUME:						
LANE GROUP:						
LANE GROUP VOLUME:						
NUMBER OF LANES:						
VEHICLES PER CYCLE:						
CONTROLLING LANE GROUP:						
TAPER LENGTH:						
STORAGE LENGTH:						
TOTAL TURN LANE LENGTH:						

DESIGN YEAR 2048 'BUILD' TRAFFIC VOLUMES - AM PEAK HOUR



STATE ROAD / WOODRIDGE ELEMENTARY N DR

ANTICIPATED CYCLE LENGTH: 60 SEC.

NB STATE ROAD								
	DES	SIGN SPEED:	35	MPH				
MOVEMENT:	LEFT		THRU					
VOLUME:	65		650					
% OF APPROACH VOLUME:	9.1%		90.9%					
LANE GROUP:	LEFT		THRU					
LANE GROUP VOLUME:	65		650					
NUMBER OF LANES:	1							
VEHICLES PER CYCLE:	2							
CONTROLLING LANE GROUP:	Χ							
TAPER LENGTH:	50							
STORAGE LENGTH:	100							
TOTAL TURN LANE LENGTH:	150							

SB STATE ROAD

	DES	IGN SPEED:	35	MPH	
MOVEMENT:			THRU		RIGHT
VOLUME:			376		33
% OF APPROACH VOLUME:			91.9%		8.1%
LANE GROUP:				THRU/RIGHT	
LANE GROUP VOLUME:					
NUMBER OF LANES:					
VEHICLES PER CYCLE:					
CONTROLLING LANE GROUP:					
TAPER LENGTH:					
STORAGE LENGTH:					
TOTAL TURN LANE LENGTH:					

EB WOODRIDGE ELEM. N DR

	DES	SIGN SPEED:	35	MPH	
MOVEMENT:	LEFT				RIGHT
VOLUME:	21				3
% OF APPROACH VOLUME:	87.5%				12.5%
LANE GROUP:			LEFT/RIGHT		
LANE GROUP VOLUME:					
NUMBER OF LANES:					
VEHICLES PER CYCLE:					
CONTROLLING LANE GROUP:					
TAPER LENGTH:					
STORAGE LENGTH:					
TOTAL TURN LANE LENGTH:					

N/A

	DES	SIGN SPEED:	35	MPH	
MOVEMENT:					
VOLUME:					
% OF APPROACH VOLUME:					
LANE GROUP:					
LANE GROUP VOLUME:					
NUMBER OF LANES:					
VEHICLES PER CYCLE:					
CONTROLLING LANE GROUP:					
TAPER LENGTH:					
STORAGE LENGTH:					
TOTAL TURN LANE LENGTH:					

DESIGN YEAR 2048 'BUILD' TRAFFIC VOLUMES - PM PEAK HOUR



STATE ROAD / WOODRIDGE ELEMENTARY N DR

ANTICIPATED CYCLE LENGTH: 60 SEC.

NB STATE ROAD								
	DES	SIGN SPEED:	35	MPH				
MOVEMENT:	LEFT		THRU					
VOLUME:	1		583					
% OF APPROACH VOLUME:	0.2%		99.8%					
LANE GROUP:	LEFT		THRU					
LANE GROUP VOLUME:	1							
NUMBER OF LANES:	1							
VEHICLES PER CYCLE:	1							
CONTROLLING LANE GROUP:	Χ							
TAPER LENGTH:	50							
STORAGE LENGTH:	50							
TOTAL TURN LANE LENGTH:	100							

SB STATE ROAD

	DES	SIGN SPEED:	35	MPH	
MOVEMENT:			THRU		RIGHT
VOLUME:			611		24
% OF APPROACH VOLUME:			96.2%		3.8%
LANE GROUP:				THRU/RIGHT	
LANE GROUP VOLUME:					
NUMBER OF LANES:					
VEHICLES PER CYCLE:					
CONTROLLING LANE GROUP:					
TAPER LENGTH:					
STORAGE LENGTH:					
TOTAL TURN LANE LENGTH:					

EB WOODRIDGE ELEM. N DR

	DES	SIGN SPEED:	35	MPH	
MOVEMENT:	LEFT				RIGHT
VOLUME:	24				3
% OF APPROACH VOLUME:	88.9%				11.1%
LANE GROUP:			LEFT/RIGHT		
LANE GROUP VOLUME:					
NUMBER OF LANES:					
VEHICLES PER CYCLE:					
CONTROLLING LANE GROUP:					
TAPER LENGTH:					
STORAGE LENGTH:					
TOTAL TURN LANE LENGTH:					

N/A

	DES	SIGN SPEED:	35	MPH	
MOVEMENT:					
VOLUME:					
% OF APPROACH VOLUME:					
LANE GROUP:					
LANE GROUP VOLUME:					
NUMBER OF LANES:					
VEHICLES PER CYCLE:					
CONTROLLING LANE GROUP:					
TAPER LENGTH:					
STORAGE LENGTH:					
TOTAL TURN LANE LENGTH:					

DESIGN YEAR 2048 'BUILD' TRAFFIC VOLUMES - AM PEAK HOUR



STATE ROAD / FALLS INDUSTRIALS PARKWAY

ANTICIPATED CYCLE LENGTH: 60 SEC.

NB STATE ROAD

	DES	SIGN SPEED:	35	MPH	
MOVEMENT:			THRU		RIGHT
VOLUME:			676		29
% OF APPROACH VOLUME:			95.9%		4.1%
LANE GROUP:				THRU/RIGHT	
LANE GROUP VOLUME:					
NUMBER OF LANES:					
VEHICLES PER CYCLE:					
CONTROLLING LANE GROUP:					
TAPER LENGTH:					
STORAGE LENGTH:					
TOTAL TURN LANE LENGTH:					

SB STATE ROAD

	DES	SIGN SPEED:	35	MPH	
MOVEMENT:	LEFT		THRU		
VOLUME:	29		676		
% OF APPROACH VOLUME:	4.1%		95.9%		
LANE GROUP:	LEFT		THRU		
LANE GROUP VOLUME:	29				
NUMBER OF LANES:	1				
VEHICLES PER CYCLE:	1				
CONTROLLING LANE GROUP:	X				
TAPER LENGTH:	50				
STORAGE LENGTH:	50				
TOTAL TURN LANE LENGTH:	100				

N/A

_	DES	DESIGN SPEED:		MPH	
MOVEMENT:					
VOLUME:					
% OF APPROACH VOLUME:					
LANE GROUP:					
LANE GROUP VOLUME:					
NUMBER OF LANES:					
VEHICLES PER CYCLE:					
CONTROLLING LANE GROUP:					
TAPER LENGTH:					
STORAGE LENGTH:					
TOTAL TURN LANE LENGTH:					<u>"</u>

WB WOODRIDGE ELEM. N DR

	DES	SIGN SPEED:	35	MPH		
MOVEMENT:	LEFT				RIGHT	
VOLUME:	16				5	
% OF APPROACH VOLUME:	76.2%				23.8%	
LANE GROUP:		LEFT/RIGHT				
LANE GROUP VOLUME:						
NUMBER OF LANES:						
VEHICLES PER CYCLE:						
CONTROLLING LANE GROUP:						
TAPER LENGTH:						
STORAGE LENGTH:	•					
TOTAL TURN LANE LENGTH:	•					

DESIGN YEAR 2048 'BUILD' TRAFFIC VOLUMES - PM PEAK HOUR



STATE ROAD / FALLS INDUSTRIALS PARKWAY

ANTICIPATED CYCLE LENGTH: 60 SEC.

NB STATE ROAD

	DES	SIGN SPEED:	35	MPH	
MOVEMENT:			THRU		RIGHT
VOLUME:			564		29
% OF APPROACH VOLUME:			95.1%		4.9%
LANE GROUP:				THRU/RIGHT	
LANE GROUP VOLUME:					
NUMBER OF LANES:					
VEHICLES PER CYCLE:					
CONTROLLING LANE GROUP:					
TAPER LENGTH:					
STORAGE LENGTH:					
TOTAL TURN LANE LENGTH:					

SB STATE ROAD

	DES	SIGN SPEED:	35	MPH	
MOVEMENT:	LEFT		THRU		
VOLUME:	13		698		
% OF APPROACH VOLUME:	1.8%		98.2%		
LANE GROUP:	LEFT		THRU		
LANE GROUP VOLUME:	13				
NUMBER OF LANES:	1				
VEHICLES PER CYCLE:	1				
CONTROLLING LANE GROUP:	Χ				
TAPER LENGTH:	50				
STORAGE LENGTH:	50				
TOTAL TURN LANE LENGTH:	100				

N/A

_	DESIGN SPEED:		35	MPH	
MOVEMENT:					
VOLUME:					
% OF APPROACH VOLUME:					
LANE GROUP:					
LANE GROUP VOLUME:					
NUMBER OF LANES:					
VEHICLES PER CYCLE:					
CONTROLLING LANE GROUP:					
TAPER LENGTH:					
STORAGE LENGTH:					
TOTAL TURN LANE LENGTH:					

WB WOODRIDGE ELEM. N DR

	DES	SIGN SPEED:	35	MPH		
MOVEMENT:	LEFT				RIGHT	
VOLUME:	60				34	
% OF APPROACH VOLUME:	63.8%				36.2%	
LANE GROUP:		LEFT/RIGHT				
LANE GROUP VOLUME:						
NUMBER OF LANES:						
VEHICLES PER CYCLE:						
CONTROLLING LANE GROUP:						
TAPER LENGTH:						
STORAGE LENGTH:						
TOTAL TURN LANE LENGTH:						

APPENDIX I OPINION OF PROBABLE COST

Preliminary Opinion of Probable Cost

ITEM	DESCRIPTION	TOTAL QUANTITY	UNIT	ESTIMATED PRICE	TOTAL COST
	ROADWAY				
201	CLEARING AND GRUBBING	1	LS	\$80,000	\$80,000
202	PAVEMENT REMOVED CURB REMOVED	28,000 2,500	SY FT	\$15 \$7	\$420,000 \$17,500
202	WALK REMOVED	3,000	SF	\$7 \$5	\$17,500
608	4" CONCRETE SIDEWALK	38,000	SF	\$10	\$380,000
608	6" CONCRETE TRAFFIC ISLAND	600	SY	\$110	\$66,000
608	8" CONCRETE TRUCK APRON	700	SY	\$125	\$87,500
	CURB AND GUTTER, TYPE 10 CURB. TYPE 6	400 15,000	FT FT	\$40 \$30	\$16,000 \$450,000
659	SEEDING & MULCHING	25,000	SY	\$4	\$100,000
832	EROSION CONTROL	140,000	LS	\$1	\$140,000
832	STORM WATER POLLUTION PREVENTION PLAN	1	LS	\$35,000	\$35,000
	ROADWAY SUBTOTAL:				\$1,807,000
	DRAINAGE				
262	DIDE DEMONIES ON AND LINDED				1=0.7
	PIPE REMOVED, 24" AND UNDER	2,000		\$25	\$50,000
202	MANHOLE OR CATCH BASIN REMOVED MANHOLE ADJUSTED TO GRADE		EACH EACH	\$850 \$700	\$34,000 \$14,000
	6" BASE PIPE UNDERDRAINS WITH FABRIC WRAP	15,000		\$20	\$300,000
	12" TO 24" CONDUIT, TYPE B	8,000	FT	\$150	\$1,200,000
611	CATCH BASIN, NO. 3A	60		\$3,250	\$195,000
611	MANHOLE #3	30		\$4,000	\$120,000
611	MANHOLE OR CATCH BASIN RECONSTRUCTED TO GRADE	10	EACH	\$2,000	\$20,000
	DRAINAGE SUBTOTAL:				\$1,933,000
	PAVEMENT				
202	C" ACLIDALT CONCRETE DACE DCC4 22	F 000	CV	#1FF	¢77F 000
	6" ASHPALT CONCRETE BASE, PG64-22 AGGREGATE BASE (6" @ PAVEMENT, 2" @ SIDEWALKS)	5,000 6,600	CY	\$155 \$85	\$775,000 \$561,000
407	TACK COAT	4,500		\$5	\$22,500
442	1-3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	1,500	CY	\$185	\$277,500
442	1-1/4" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)	1,100	CY	\$215	\$236,500
452	8" NON-REINFOCED CONCRETE PAVEMENT, CLASS QC1	7,500	SY	\$90	\$675,000
	PAVEMENT SUBTOTAL:				\$2,547,500
	LIGHTING				
	CONTINUOUS ROADWAY LIGHTING	0	EACH	\$18,000	\$0
	LIGHTING SUBTOTAL:	0	LACII	\$18,000	\$0
					Ψ0
	TRAFFIC CONTROL				
	SIGNING	1	LS	\$175,000	\$175,000
	STRIPING	1	LS	\$100,000	\$100,000
	TRAFFIC CONTROL SUBTOTAL:				\$275,000
	SIGNALIZATION				
632	TRAFFIC SIGNAL MODIFICATION	n	EACH	\$70,000	\$0
	TRAFFIC SIGNAL MODIFICATION TRAFFIC SIGNAL RECONSTRUCTION		EACH		\$0
	TRAFFIC SIGNAL FIBER INTERCONNET	0		\$275,000	\$0
igdash	CIONALITATION CURTOTAL				4.6
	SIGNALIZATION SUBTOTAL:	l			\$0

Preliminary Opinion of Probable Cost

ITEM	DESCRIPTION	TOTAL QUANTITY	UNIT	ESTIMATED PRICE	TOTAL COST
	MAINTENANCE OF TRAFFIC				
	MAINTENANCE OF TRAFFIC	1	LS	\$500,000	\$500,000
					•
	MAINTENANCE OF TRAFFIC SUBTOTAL:				\$500,000
	MISCELLANEOUS				
614	MAINTAINING TRAFFIC	1	LS	\$250,000	\$250,000
619	FIELD OFFICE	18	MON	\$2,000	\$36,000
623	CONSTRUCTION LAYOUT STAKES	1	LS	\$80,000	\$80,000
	MOBILIZATION	1	LS	\$200,000	\$200,000
SPEC	PERFORMANCE BOND	1	LS	\$80,000	\$80,000
	MISCELLANEOUS SUBTOTAL:				\$646,000
	PIISCELLANEOUS SUBTOTAL.				\$040,000
	RIGHT OF WAY				
	TEMPORARY R/W TAKE - COMMERCIAL		EACH	\$5,000	\$15,000
	TEMPORARY R/W TAKE - RESIDENTIAL		EACH	\$2,000	\$4,000
	PERMANENT R/W TAKE - MINOR - COMMERCIAL		EACH	\$25,000	\$25,000
	PERMANENT R/W TAKE - MINOR - RESIDENTIAL ACOUISITION SERVICES		EACH	\$10,000	\$0 \$39,000
	ACQUISITION SERVICES APPRAISAL REVIEW SERVICES		EACH EACH	\$6,500 \$650	\$39,000
	AFFINISAL KEVILW SEKVICES	0	LACII	\$0.50	\$3,900
	RIGHT OF WAY SUBTOTAL:				\$86,900
	TOTAL CONSTRUCT	ION AND RI	GHT C	F WAY COST:	\$7,795,400
	DESIGN ENGINEERING COST:	(15% OF	CONST	R. & R/W COST)	\$1,169,310
	GEOTECHNICAL ENGINEERING COST:			R. & R/W COST)	\$77,954
	ENVIRONMENTAL COST:			R. & R/W COST)	\$77,954
	SUBSURFACE UTILITY ENGINEERING (SUE):			R. & R/W COST)	\$233,862
	DESIGN CONTINGENCY COSTS	(20% OF	CONST	R. & R/W COST)	\$1,559,080
		В	POIE	T SUBTOTAL:	\$10,913,560
		<u>P</u>	KOJEC	I SUBTUTAL:	\$10,313,30U
	5% INFLATION CONTIN	NGENCY OV	ER 5 Y	EARS (25%):	\$2,728,390
	BRAIFAT TATAL WITHOUT	T CONCTR	CTTO	INCRESTICA	412 641 070
	PROJECT TOTAL WITHOU	CONSTRU	CITON	INSPECTION	\$13,641,950
	CONSTRUCTION INSPECTION COST:	(10)% OF F	PROJECT TOTAL)	\$1,364,195
		,		TOTAL:	\$15,006,145