

Traffic Impact Study

Paristown Pointe Planned Development District

Louisville, Jefferson County, KY

Prepared For:

CARMAN

Prepared By:



Adam Kirk Engineering
137 McClelland Springs Drive
Georgetown, KY 40324
859.421.2567
adam@adamkirkpe.com

January 4, 2023

TABLE OF CONTENTS

| | |
|-------------------------------------|---|
| INTRODUCTION | 2 |
| Data Collection..... | 1 |
| Trip Generation | 1 |
| Traffic Forecasting | 5 |
| Trip Distribution Methodology | 5 |
| Capacity Analysis..... | 6 |
| Recommendations | 6 |

LIST OF FIGURES

| | |
|--|-----|
| Figure 1: Study Area and Study Intersections | 1 |
| Table 1: Trip Generation Estimates | 2 |
| Figure 2a: AM Peak Hour Turning Movement Counts | 3 |
| Figure 2b: PM Peak Hour Turning Movement Counts | 4 |
| Figure 3a: Trip Distribution (Entering)..... | 5 |
| Figure C-1: AM Peak General Office Building (ITE Code 710)..... | C-1 |
| Figure C-2: PM Peak General Office Building (ITE Code 710)..... | C-1 |
| Figure C-3: AM Peak Hour Strip Retail Plaza (<40k) (ITE Code 822) | C-2 |
| Figure C-4: PM Peak Hour Strip Retail Plaza (<40k) (ITE Code 822) | C-2 |
| Figure C-5: AM Peak Multifamily (Mid-Rise) Dense Multi-Use Urban..... | C-3 |
| Figure C-6: PM Peak Multifamily (Mid-Rise) Dense Multi-Use Urban..... | C-3 |
| Figure C-7: AM Peak Hotel (ITE Code 310) | C-4 |
| Figure C-8: PM Peak Hotel (ITE Code 310) | C-4 |
| Figure D-1: KYTC Historice Traffic Data Station 056M34 (Barrett Avenue) | D-1 |
| Figure D-2: Barrett Avenue Traffic Forecast | D-2 |
| Figure D-3: KYTC Historice Traffic Data Station 056917 (Broadway; US 150) | D-3 |
| Figure D-4: Broadway Traffic Forecast | D-4 |
| Figure E-1: AM Peak Hour Trip Distribution..... | E-1 |
| Figure E-2: PM Peak Hour Trip Distribution..... | E-2 |
| Figure E-3: AM Peak Trips Generated (Proposed)..... | E-3 |
| Figure E-4: PM Peak Trips Generated (Proposed) | E-4 |
| Figure E-5: Final AM Peak Hour Traffic Volumes (Proposed) | E-5 |
| Figure E-6: Final PM Peak Hour Traffic Volumes (Proposed) | E-6 |
| Figure E-7: Final AM Peak Hour Traffic Volumes (Existing Government Center)..... | E-7 |
| Figure E-8: Final PM Peak Hour Traffic Volumes (Existing Government Center)..... | E-8 |

LIST OF TABLES

| | |
|---|---|
| Table 1: Trip Generation Estimates | 2 |
| Table 2: AM Peak Hour Capacity Analysis Summary | 7 |
| Table 3: PM Peak Hour Capacity Analysis Summary | 8 |

APPENDICES

| |
|--------------------------------------|
| Appendix A: Concept Plan |
| Appendix B: Traffic Data |
| Appendix C: ITE Trip Generation Data |
| Appendix D: Traffic Forecast |
| Appendix E: Traffic Volume Figures |
| Appendix F: Capacity Analysis Output |

INTRODUCTION

This Traffic Impact Study summarizes the trip generation and capacity analysis conducted for the proposed redevelopment of the Louisville Government Center at the northwest quadrant of E. Breckenridge Street and Barret Avenue. The proposed Paristown Heights District Development Plan calls for removal of all existing uses and proposes a mix-use development that may consist of Apartments, Offices, and Hotel. While the nature of a Planned Development will allow for other land use combinations, a proposed combination of the above land uses was used to represent probable land uses and represents a conservative approach, providing higher traffic volumes, for the purpose of this study. Access will be provided through reconfigured connections at St. Anthony at Barrett Avenue and Vine Street and Debarr Street at Barrett Avenue and Vine Street. A conceptual development plan is provided in **Appendix A**. This study will evaluate the intersections listed below; **Figure 1** shows the proposed site and study intersections.

- Broadway (US 150) at Brent Street
- Barrett Avenue at Broadway (US 1250)
- Barrett Avenue at St. Anthony Place
- Barrett Avenue at Debarr Street
- Barrett Avenue at E. Breckinridge Street
- Barrett Avenue at Kentucky Avenue
- Vine Street at St. Anthony Place (extended)
- Vine Street at Debarr Street (extended)
- Vine Street at E. Breckinridge Street
- Swan Street at E. Breckinridge Street

This Traffic Impact Study has been performed to demonstrate that the proposed land use change will have no impact on the traffic conditions, compared to the existing zoning. A previous assessment performed in April 2022 confirmed that traffic generated by the proposed development will not exceed traffic generation potential of the Urban Government Center. This assessment was accepted by Louisville Metro Public Works to the extent that this TIS is not required in connection with the proposed zone map.

Figure 1: Study Area and Study Intersections



DATA COLLECTION

AM and PM peak hour turning movement counts were collected for the study intersections on from 7:00 to 9:00 AM and 4:00 to 6:00 PM on November 30, 2022. Raw traffic data is provided in **Appendix B**. **Figures 2a and 2b** summarize the existing AM and PM peak hour turning movement counts at this intersection, respectively.

TRIP GENERATION

Trip generation was conducted using the 11th Edition ITE Trip Generation Manual, as applied by the ITE TripGen Web-based App. Trip generation was determined for the AM and PM peak hour of the generator (except for the office land use which only provided data based on the peak hour of adjacent street traffic). The following ITE land use codes were used:

- Existing Government Center: Land Use Code 730 (Government Office Building)
- Proposed Office: Land Use Code 710 (General Office Building)
- Proposed Apartments: Land Use Code 820 (Multi-Family Residential; Mid Rise)
- Proposed Retail: Land Use Code

- Proposed Hotel: Land Use Code 310: Hotel

Table 1 shows the results of the trip generation for the AM and PM peak hours. **Appendix C** contains output from the ITE Trip Generation Manual. As can be seen from the table, the existing land use and building is estimated to generate 583 trips during the AM peak hour and 504 trips during the PM peak hour. This trip generation is significantly higher than the proposed land uses which is anticipated to generate 331 trips during the AM peak and 398 trips during the PM peak. Based on this analysis the proposed site, does not generate over 200 peak hour trips per hour over the existing use as identified in the land use code for the requirements of a Traffic Impact Study.

Table 1: Trip Generation Estimates

| <i>ITE Land Use Code</i> | <i>Land Use Description</i> | <i>Ind. Var. (X)</i> | <i>Ind. Var. Units</i> | <i>Period</i> | <i>Trips Generated</i> | <i>Entering</i> | <i>Exiting</i> | | | |
|-----------------------------|--|----------------------|------------------------|---------------|------------------------|-----------------|----------------|--|--|--|
| Existing Land Use | | | | | | | | | | |
| 730 | Government Office Building | 158.1 | 1000 sf GFA | AM | 583 | 320 | 263 | | | |
| | | | | PM | 504 | 217 | 287 | | | |
| Proposed Development | | | | | | | | | | |
| TOTAL | | | | AM | 331 | 180 | 151 | | | |
| | | | | PM | 398 | 178 | 220 | | | |
| 710 | General Office Building | 172 | 1000 sf GFA | AM | 144 | 125 | 19 | | | |
| | | | | PM | 150 | 24 | 126 | | | |
| 822 | Retail | 9 | 1000 sf GFA | AM | 21 | 13 | 8 | | | |
| | | | | PM | 72 | 36 | 36 | | | |
| 221 | Multifamily Residential (mid Rise) (Dense Urban) | 470 | units | AM | 123 | 18 | 105 | | | |
| | | | | PM | 130 | 95 | 35 | | | |
| 310 | Hotel | 100 | Rooms | AM | 43 | 24 | 19 | | | |
| | | | | PM | 46 | 23 | 23 | | | |

Figure 2a: AM Peak Hour Turning Movement Counts

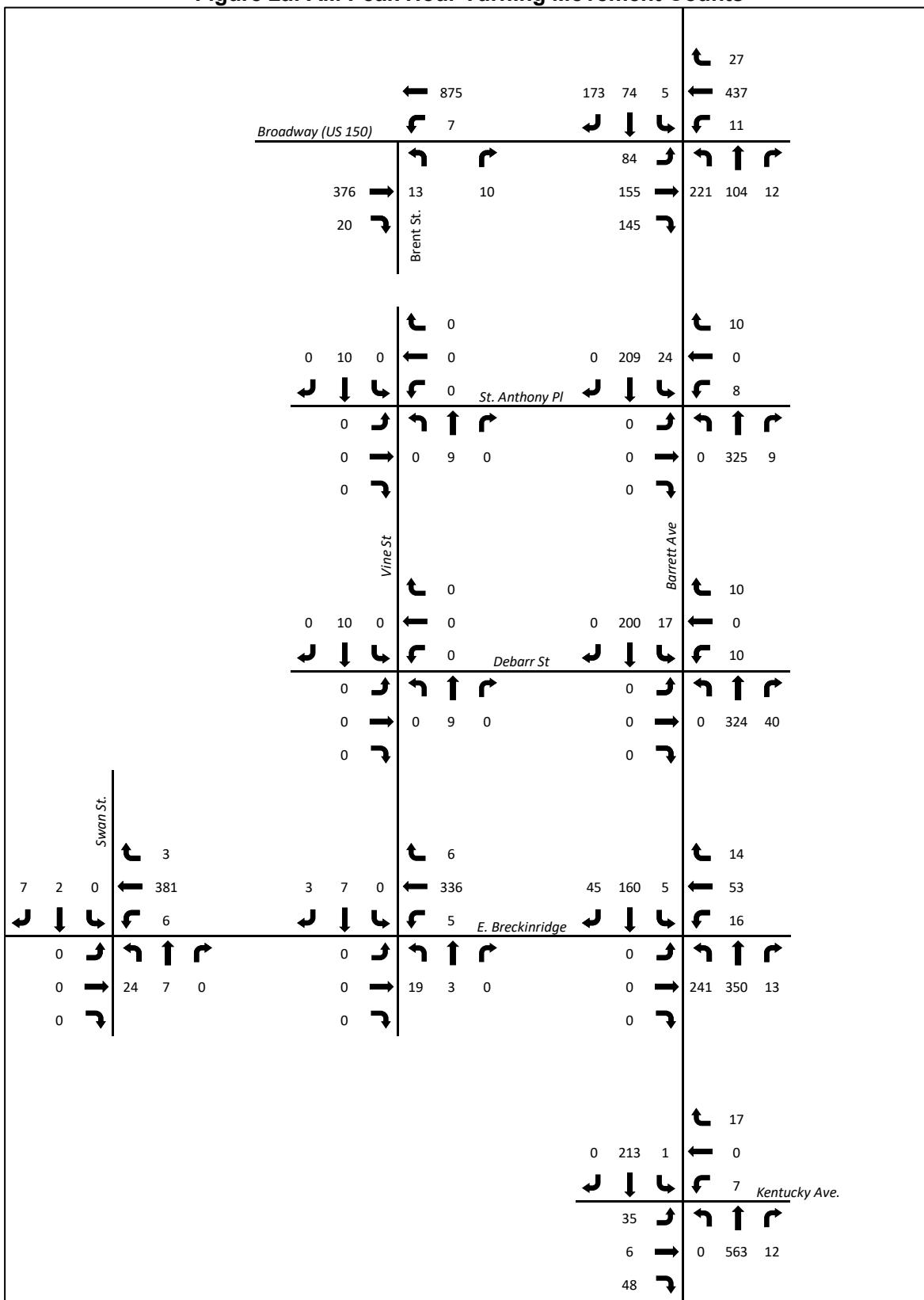
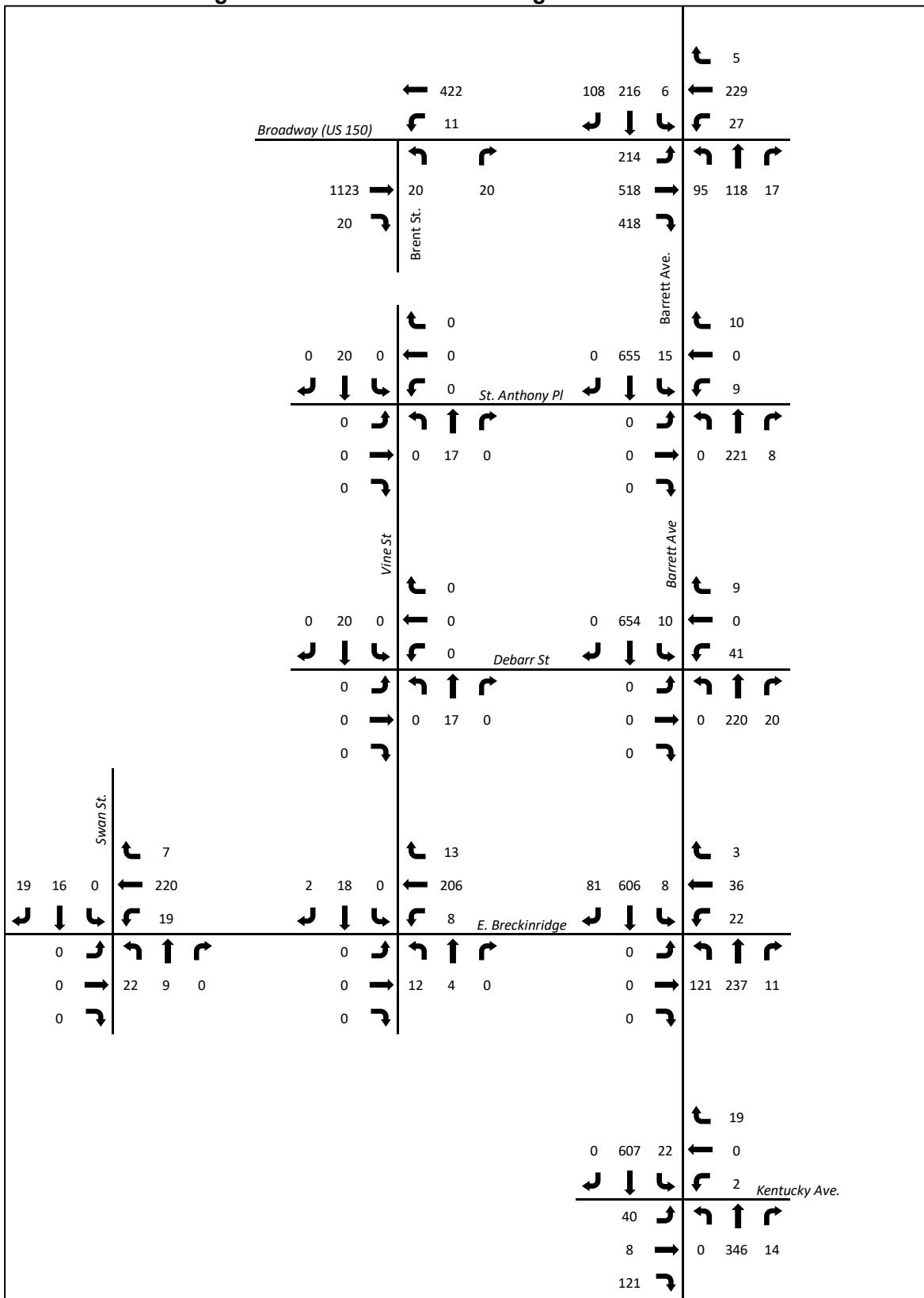


Figure 2b: PM Peak Hour Turning Movement Counts



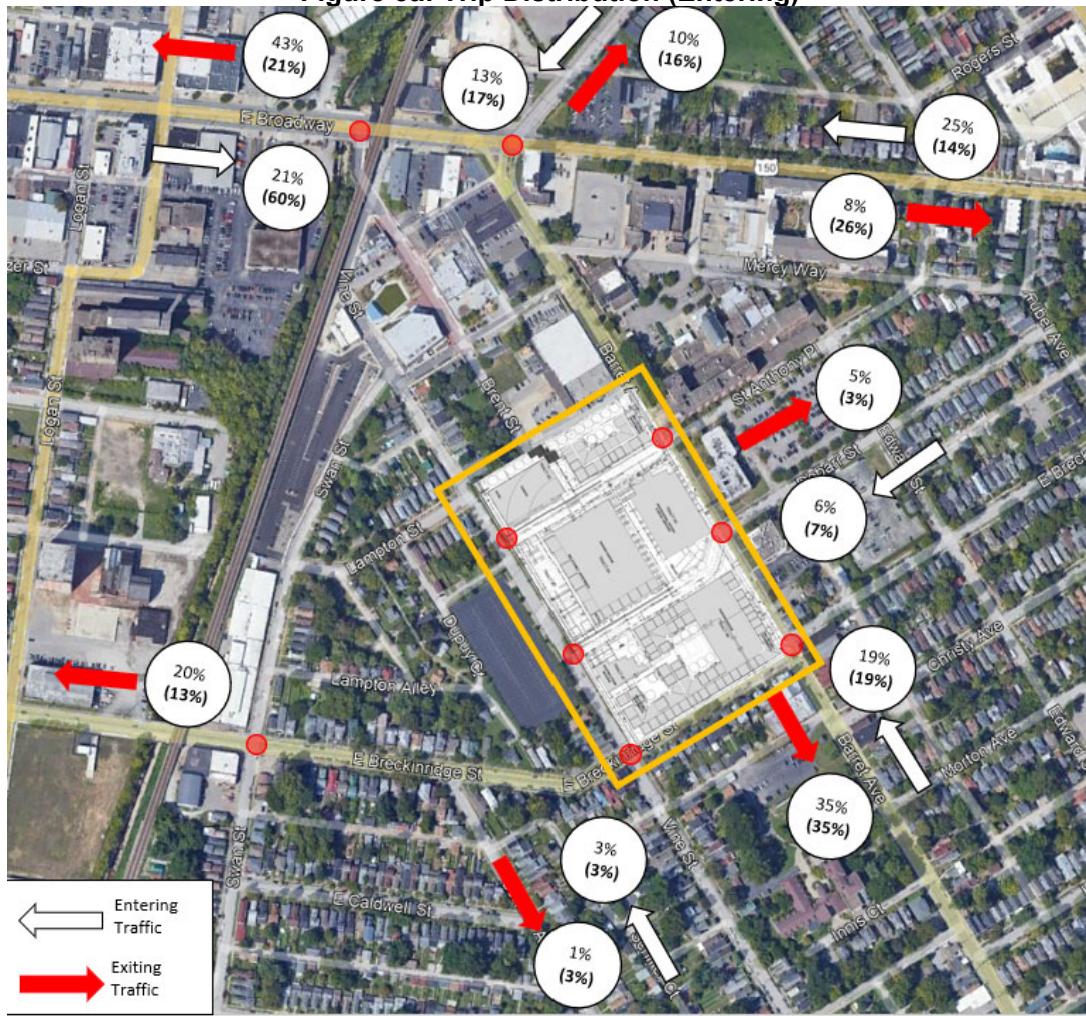
TRAFFIC FORECASTING

A background growth rate of negative 5.4 percent was calculated based on historic growth trends observed at KYTC Traffic Count Station 056M34 on Barrett Avenue and negative 2.98% on US 150 at count station 056917. KYTC count station data and the KYTC TIS Forecast Spreadsheet are contained in **Appendix D**. Based on the negative growth rates, no adjustment for future year conditions were made as year of opening appears to represent the worst case scenario for traffic.

TRIP DISTRIBUTION METHODOLOGY

Cordon Line analysis was conducted to determined existing trip distributions for vehicles entering and exiting the study area. Generated trips were distributed onto the roadway network based on recorded travel patterns. Traffic destined to the west on E. Breckinridge Avenue was assumed to exit via Vine Street to E. Breckinridge, while traffic exiting to the north on Broadway and/or south on Barrett Avenue were assumed to utilized Barrett Avenue. Five percent of traffic was assigned to Brent Street. Figure 3 shows the general trip distributions within the study area. **Appendix E** contains the full trip distribution used in the analysis and final build volumes for the development. Analysis was also conducted for the existing land use; Appendix E also contains final build volumes for this scenario.

Figure 3a: Trip Distribution (Entering)



CAPACITY ANALYSIS

Capacity analysis for the existing and build scenarios was completed for the study intersections during the AM and PM peak hours using HCM/HCS methodologies. Signal timing for signal controlled intersections was optimized using Highway Capacity Software procedures for all scenarios. **Tables 2 and 3** summarize the AM and PM peak hour Level of Service (LOS), and delay for the AM and PM peak periods for the existing conditions, existing land use, and proposed development plan. Full capacity analysis output is provided in **Appendix E**.

As can be seen from the table, the proposed development has minimal impact on the operations of the adjacent intersections, and in fact, does not impact the intersection level of service for any intersection and only degrades level of service for one intersection approach (eastbound at Kentucky Avenue/Barrett Avenue) while delay is only increased 3.4 seconds. Moreover, the proposed development plan provides lower delays at all intersections than with the existing government center operations.

RECOMMENDATIONS

Based on the potential land use scenario reviewed in the Pattern Book for Paristown Pointe Planned Development District, the following conclusions and recommendations are made. It is recommended that signal timing adjustments be conducted at the study intersections to accommodate changes in traffic distributions, should the Paristown District Development Plan be approved. No additional improvements have been identified or are recommended, as the existing street system appears capable of accommodating the estimate trip generation.

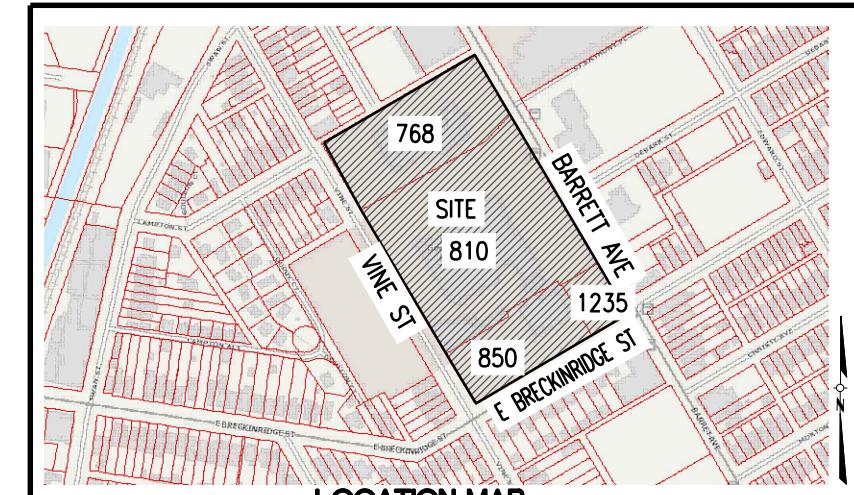
Table 2: AM Peak Hour Capacity Analysis Summary

| Intersection | Movement | Existing Conditions | | Existing Land Use (Government Center) | | Proposed District Development Plan | |
|--|--------------|---------------------|-------------|--|-------------|---------------------------------------|-------------|
| | | LOS | Delay | LOS | Delay | LOS | Delay |
| Brent Street at Broadway | Intersection | - | - | - | - | - | - |
| | eastbound | A | 0.0 | A | 0.0 | A | 0.0 |
| | westbound | A | 0.1 | A | 0.1 | A | 0.1 |
| | northbound | B | 13.2 | C | 15.7 | B | 14.7 |
| Brent Street at Broadway | Intersection | C | 33.8 | D | 36.4 | C | 34.8 |
| | eastbound | B | 13.3 | B | 19.4 | B | 18.5 |
| | westbound | C | 21.5 | C | 30.0 | C | 28.2 |
| | northbound | E | 57.4 | D | 47.1 | D | 45.0 |
| | southbound | E | 56.5 | E | 56.2 | E | 56.2 |
| St. Anthony at Barrett Avenue | Intersection | A | 2.7 | A | 8.1 | A | 6.2 |
| | eastbound | - | - | D | 39.8 | D | 45.4 |
| | westbound | D | 39.9 | C | 33.9 | D | 40.1 |
| | northbound | A | 1.5 | A | 3.0 | A | 1.6 |
| | southbound | A | 1.5 | A | 3.1 | A | 1.6 |
| Debarr St. at Barrett Avenue | Intersection | - | - | - | - | - | - |
| | eastbound | - | - | C | 15.9 | B | 13.6 |
| | westbound | B | 11.2 | B | 14.2 | B | 13.0 |
| | northbound | - | - | A | 1.1 | A | 0.6 |
| | southbound | A | 0.8 | A | 0.6 | A | 0.6 |
| E. Breckinridge Street at Barrett Avenue | Intersection | A | 6.7 | A | 7.0 | A | 7.0 |
| | westbound | D | 39.8 | D | 46.7 | D | 40.8 |
| | northbound | A | 3.6 | A | 3.4 | A | 3.9 |
| | southbound | A | 2.5 | A | 2.1 | A | 2.5 |
| Kentucky Avenue at Barrett Avenue | Intersection | B | 12.1 | B | 15.1 | B | 13.9 |
| | eastbound | E | 61.6 | E | 63.2 | E | 64.2 |
| | westbound | D | 52.7 | E | 62.7 | E | 56.1 |
| | northbound | A | 5.5 | A | 5.6 | A | 5.6 |
| | southbound | A | 4.7 | A | 4.8 | A | 4.7 |
| Vine Street at E. Breckinridge Street | Intersection | - | - | - | - | - | - |
| | westbound | A | 0.2 | A | 0.2 | A | 0.2 |
| | northbound | B | 11.7 | B | 12.5 | B | 12.1 |
| | southbound | B | 11.3 | B | 11.5 | B | 11.2 |
| Swan Street at E. Breckinridge Street | Intersection | - | - | - | - | - | - |
| | westbound | A | 0.1 | A | 0.2 | A | 0.2 |
| | northbound | B | 12.4 | B | 13.2 | B | 12.9 |
| | southbound | B | 11.1 | B | 11.6 | B | 11.3 |
| St. Anthony at Vine Street | Intersection | - | - | - | - | - | - |
| | westbound | - | - | A | 8.9 | A | 8.7 |
| | southbound | - | - | A | 2.8 | A | 1.9 |
| Debarr Street at Vine Street | Intersection | - | - | - | - | - | - |
| | westbound | - | - | A | 9.1 | A | 8.9 |
| | southbound | - | - | A | 1.1 | A | 1.0 |

Table 3: PM Peak Hour Capacity Analysis Summary

| Intersection | Movement | Existing Conditions | | Existing Land Use (Government Center) | | Proposed District Development Plan | |
|--|--------------|---------------------|-------|--|-------|---------------------------------------|-------|
| | | LOS | Delay | LOS | Delay | LOS | Delay |
| Brent Street at Broadway | Intersection | - | - | - | - | - | - |
| | eastbound | A | 0.0 | A | 0.0 | A | 0.0 |
| | westbound | A | 0.3 | A | 0.3 | A | 0.3 |
| | northbound | C | 24.3 | E | 36.1 | D | 33.0 |
| Broadway at Barrett Avenue | Intersection | C | 26.2 | C | 31.9 | C | 26.5 |
| | eastbound | B | 13.3 | C | 20.2 | B | 19.7 |
| | westbound | B | 16.2 | C | 21.6 | C | 22.3 |
| | northbound | E | 62.8 | E | 63.5 | D | 41.2 |
| | southbound | D | 53.6 | D | 43.8 | D | 38.9 |
| St. Anthony at Barrett Avenue | Intersection | A | 2.6 | A | 7.9 | A | 6.6 |
| | eastbound | - | - | D | 47.2 | D | 46.0 |
| | westbound | D | 40.0 | D | 37.9 | D | 39.0 |
| | northbound | A | 1.4 | A | 1.9 | A | 1.7 |
| | southbound | A | 1.9 | A | 2.7 | A | 2.4 |
| Debarr St. at Barrett Avenue | Intersection | - | - | - | - | - | - |
| | eastbound | - | - | C | 23.0 | C | 20.1 |
| | westbound | B | 14.0 | C | 19.9 | C | 18.8 |
| | northbound | - | - | A | 0.9 | A | 0.7 |
| | southbound | A | 0.2 | A | 0.2 | A | 0.2 |
| E. Breckinridge Street at Barrett Avenue | Intersection | A | 4.7 | A | 5.0 | A | 5.0 |
| | westbound | D | 45.9 | D | 48.0 | D | 48.0 |
| | northbound | A | 2.4 | A | 2.8 | A | 2.7 |
| | southbound | A | 2.2 | A | 2.4 | A | 2.3 |
| Kentucky Avenue at Barrett Avenue | Intersection | B | 19.8 | B | 19.4 | B | 19.4 |
| | eastbound | D | 51 | D | 51.0 | D | 51.0 |
| | westbound | D | 45.0 | D | 44.5 | D | 44.4 |
| | northbound | B | 12.1 | B | 12.1 | B | 12.0 |
| | southbound | B | 13.8 | B | 14.2 | B | 14.1 |
| Vine Street at E. Breckinridge Street | Intersection | - | - | - | - | - | - |
| | westbound | A | 0.4 | A | 0.3 | A | 0.3 |
| | northbound | B | 10.6 | B | 10.8 | B | 10.8 |
| | southbound | B | 10.6 | B | 10.4 | B | 10.4 |
| Swan Street at E. Breckinridge Street | Intersection | - | - | - | - | - | - |
| | westbound | A | 0.6 | A | 0.6 | A | 0.6 |
| | northbound | B | 11.2 | B | 11.6 | B | 11.5 |
| | southbound | B | 10.4 | B | 10.7 | B | 10.7 |
| St. Anthony at Vine Street | Intersection | - | - | - | - | - | - |
| | westbound | - | - | A | 9.0 | A | 8.7 |
| | southbound | - | - | A | 3.6 | A | 1.9 |
| Debarr Street at Vine Street | Intersection | - | - | - | - | - | - |
| | westbound | - | - | A | 9.0 | A | 8.9 |
| | southbound | - | - | A | 1.7 | A | 1.6 |

APPENDIX A: CONCEPT PLAN



LOCATION MAP

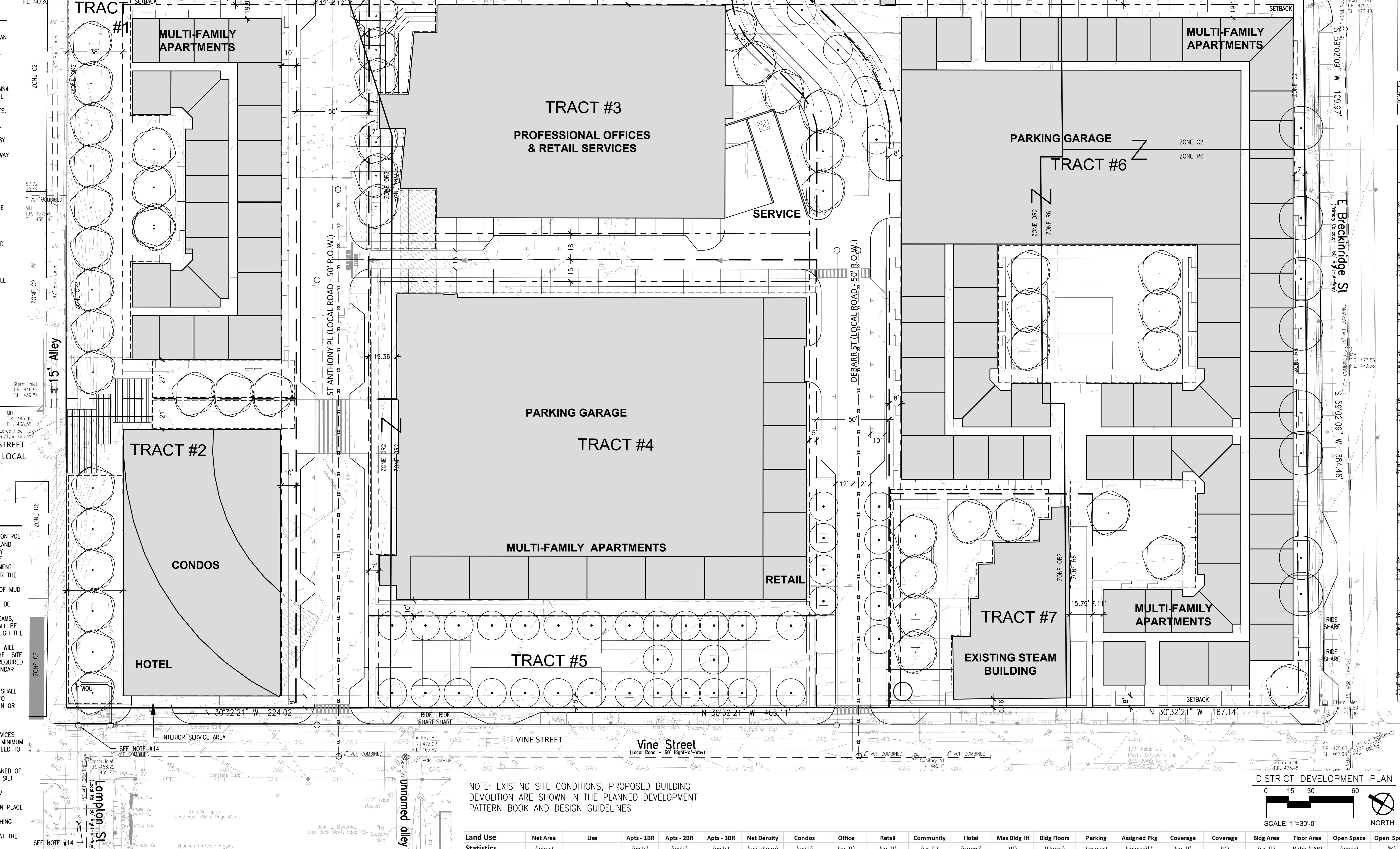
LOUISVILLE, JEFFERSON COUNTY, KENTUCKY
NOT TO SCALE

GENERAL NOTES

- CONSTRUCTION PLANS AND DOCUMENTS SHALL COMPLY WITH LOUISVILLE AND JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT'S DESIGN MANUAL AND STANDARD SPECIFICATIONS AND OTHER LOCAL, STATE AND FEDERAL ORDINANCES.
- SANITARY SEWER SERVICE PROVIDED BY LATERAL EXTENSION SUBJECT TO FEES AND ANY APPLICABLE CHARGES.
- THE FINAL DESIGN OF THIS PROJECT MUST MEET ALL MS4 WATER QUALITY REGULATIONS ESTABLISHED BY MSD. SITE LAYOUT MAY CHANGE DURING THE DESIGN PHASE DUE TO PROPOSED STORM SEWER GRADING AND ALIGNMENT PRACTICES. COMPARTMENT UTILITIES SHALL BE PLACED IN A COMMON TRENCH UNLESS OTHERWISE REQUIRED BY APPROPRIATE AGENCIES.
- TOPOGRAPHIC AND BOUNDARY INFORMATION PROVIDED BY ENRIS ENGINEERING ON 9/7/18.
- THERE SHALL BE NO LANDSCAPING IN THE RIGHT-OF-WAY WITHIN THE PUBLIC RIGHT-OF-WAY.
- VERGE AREAS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE PROVIDED PER LOUISVILLE METRO PUBLIC WORKS.
- CONSTRUCTION PLANS WILL BE REQUIRED PRIOR TO CONSTRUCTION.
- ALL PROPOSED SIDEWALKS ARE A MINIMUM OF 4' WIDE ALONG ALLEYS AND INTERNAL TO DEVELOPMENT, 6' WIDE ALONG THE STREET.
- DEVELOPER SHALL BE RESPONSIBLE FOR UTILITY RELOCATIONS, IF REQUIRED.
- ALL CONSTRUCTION AND SALES TRAILERS MUST BE PERMITTED BY THE DEPARTMENT OF PUBLIC HEALTH AND WELLNESS IN ACCORDANCE WITH CHAPTER 115 OF LOUISVILLE JEFFERSON CITY ORDINANCES.
- MOSQUITO CONTROL IN ACCORDANCE WITH CHAPTER 96 OF LOUISVILLE JEFFERSON COUNTY ORDINANCES.
- EXISTING SIDEWALK RECONSTRUCTION AND REPAIRS SHALL BE REQUIRED, IF NECESSARY, TO MEET CURRENT MPW STANDARDS AND SHALL BE INSPECTED PRIOR TO FINAL BOND RELEASE.
- DEVELOPER WILL EXTEND STORM SEWER TO THE INTERSECTION OF SWAN/LAMPTON STREAM SEWER PER AGREEMENT WITH MSD THAT WILL MITIGATE NEED FOR ONSITE STORMWATER DETENTION.

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

- THE APPROVED EROSION PREVENTION AND SEDIMENT CONTROL (EPC) PLAN SHALL BE IMPLEMENTED PRIOR TO ANY LAND DISTURBING ACTIVITY ON THE CONSTRUCTION SITE. ANY MODIFICATIONS TO THE APPROVED EPC PLAN MUST BE REVIEWED AND APPROVED BY MSD PRIVATE DEVELOPMENT REVIEW OFFICE. EPC BMP'S SHALL BE INSTALLED PER THE PLAN AND MSD STANDARDS.
- ACTION MUST BE TAKEN TO MINIMIZE THE TRACKING OF MUD AND SOIL FROM CONSTRUCTION AREAS onto PUBLIC ROADWAYS. SOIL TRACKED onto THE ROADWAY SHALL BE REMOVED DAILY.
- SOIL STOCKPILES SHALL BE LOCATED AWAY FROM STREAMS, PONDS, SWALES AND CATCH BASINS. STOCKPILES SHALL BE SEALED, MULCHED AND SECURED AND CONTAINED THROUGH THE USE OF EROSION CONTROL.
- WHERE CONSTRUCTION OR LAND DISTURBANCE ACTIVITY WILL OR HAS CEASED ON ANY PORTION OF THE SITE, TEMPORARY SITE STABILIZATION MEASURES SHALL BE REQUIRED AS SOON AS POSSIBLE, BUT NOT LATER THAN 14 CALENDAR DAYS AFTER THE ACTIVITY HAS CEASED.
- ALL EXCAVATION AND DRILLING ACTIVITIES ENCOUNTERED DURING TRENCHING, BORING OR OTHER EXCAVATION ACTIVITIES SHALL BE PUMPED TO A SEDIMENT TRAPPING DEVICE PRIOR TO DISCHARGE INTO A STREAM, POND, SWALE, CATCH BASIN OR PUBLIC RIGHT OF WAY.
- CONCRETE WASHER PIT TO BE PLACED ON SITE AT CONTRACTOR'S DISCRETION.
- THE EROSION PREVENTION AND SEDIMENT CONTROL DEVICES SHOWN ON THIS PLAN SET ARE INTENDED TO BE THE MINIMUM CONTROL MEASURES. ADDITIONAL EPC DEVICES MAY NEED TO BE INSTALLED AS NECESSARY BY THE CONTRACTOR TO PREVENT EROSION AND SEDIMENTATION.
- THE EROSION AND SEDIMENTATION RAY SITE SHALL BE CLEANED OF SEDIMENT AND DEBRIS. DISTURBED AREAS SHALL HAVE SILT CONTROL INSTALLED OR WILL BE STABILIZED SO THAT SEDIMENT WILL NOT GET OFF SITE OR INTO THE STORM SYSTEM DURING A RAIN EVENT.
- MITIGATION MEASURES FOR SEDIMENT CONTROL SHALL BE IN PLACE DURING CONSTRUCTION AND DEMOLITION ACTIVITIES TO PREVENT FUGITIVE PARTICULATE EMISSIONS FROM REACHING EXISTING ROADS AND NEIGHBORHOODS.
- NO INCREASE IN STORM WATER DISCHARGE VELOCITY AT THE POINT OF DISCHARGE AT THE PROPERTY LINE.



NOTE: EXISTING SITE CONDITIONS, PROPOSED BUILDING DEMOLITION ARE SHOWN IN THE PLANNED DEVELOPMENT PATTERN BOOK AND DESIGN GUIDELINES

LEGEND

- EXISTING PROPERTY BOUNDARY
- PROPOSED TRACT BOUNDARY
- SETBACK
- PROPOSED BUILDING
- PROPOSED CANOPY
- STORM SEWER
- SANITARY SEWER
- PROPOSED OPEN SPACE
- BIKE RACK

TREE CANOPY REQUIREMENTS

| Site Area (Gross Proposed Zoning) | 421399.44 S.F. (9.674 Ac.) |
|-----------------------------------|---|
| EXISTING TREE CANOPY | 49,775 S.F. (11.8%) |
| PRESERVED TREE CANOPY | 10,032 S.F. (BRECKINRIDGE ST) |
| PROVIDED NEW TREE CANOPY | 6,120 S.F. (BRENT ST) = 16,152 S.F. (3.8%) |
| TOTAL TREE CANOPY | 69,144 S.F. (16.4%) |

Planned Unit Development Land Use Summary

| Project Address | 768 Barret Avenue | 810 Barret Avenue | 1235 E. Beckenridge St | 850 Barret Avenue |
|-----------------|------------------------------------|-----------------------------------|--|--|
| Property Owner | Louisville Metro Housing Authority | Jefferson County Kentucky Capital | Louisville Jefferson County Metro Government | Louisville Jefferson County Metro Government |
| Parcel ID # | 021J00900000 | 021J01300000 | 021J01140000 | 021J01130000 |
| Parcel Acreage | 2.46 acres | 5.287 acres | 0.4163 acres | 1.51 acres |
| Existing Zoning | OR2 | OR2 | C2 | R6 |
| Form District | Traditional Neighborhood | Traditional Neighborhood | Traditional Neighborhood | Traditional Neighborhood |
| Proposed Zoning | PUD | PUD | PUD | PUD |

NOTES:

The Land Use Standards represented in this table are separated by Tract for clarity and Land Use Totals are to be considered as the "comprehensive standard" for consideration.

*Multi-family Apartments are allocated at 1.00 spaces per unit - less than the required minimum of 2 spaces per unit.

**Traditional Form District does not require a minimum number of parking spaces for Multi-Family Residential.

***Traditional Form District requirement of 1 parking space per Hotel room.

****Traditional Form District requirement of 1 parking space per 750 gross square feet of Office space.

*****Traditional Form District requirement of 1 parking space per 1000 gross square feet of Retail space.

*****Required Parking does not account for non-allowable parking.

**Parking totals include on-street parallel parking and parking within parking structures.

***Dwelling Unit Density - Gross Acreage

The weighted gross density for existing OR2, C2 and R6 Zoning Districts on the site is 57.73 dwelling units per acre.

NOT FOR CONSTRUCTION
DISTRICT DEVELOPMENT PLAN

PARISTOWN
POINTE PLANNED
DEVELOPMENT
DISTRICT

768, 810, 850 Barret Avenue
1235 E Beckenridge Street
Louisville, Kentucky

Owner:
UPPT, LLC

Applicant:
Upper Paristown Preservation Trust
761 Brent Street
Louisville, Kentucky 40204

Landscape Architect/Civil **CARMAN**
400 Main Street, Ste. 106
Louisville, Kentucky 40202
502.742.6581

Architect:

DRAWN BY: MH
APPROVED BY: JLC
PROJECT NUMBER: 22-110
REVISIONS:

CASE NUMBER:
MSD WM#:
SEWER TREATMENT PLANT:
MORRIS FOREMAN

CARMAN
LANDSCAPE ARCHITECTURE
URBAN PLANNING
CIVIL ENGINEERING

COPYRIGHT NOTICE: THE ARCHITECTURAL AND ENGINEERING DRAWING IS OWNED IN CONFIDENCE AND SHALL BE USED ONLY PURSUANT TO THE AGREEMENT WITH CARMAN. NO OTHER USE, DISSEMINATION OR DUPLICATION OF THIS DRAWING IS EXPRESSLY FORBIDDEN. CONSENT OF CARMAN, ALL COMMON LAW RIGHTS OF COPYRIGHT AND OTHERWISE AR HEREBY SPECIFICALLY RESERVED.

SHEET TITLE:
DISTRICT DEVELOPMENT
PLAN AND PRELIMINARY
PLAT

SHEET NUMBER:

DP1

MSD WM# - 11836

APPENDIX B: TRAFFIC DATA

Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

"2022 ... Data Collection simplified"

Partly Sunny
Schools in Session
Wednesday - 8HI and 45Q

File Name : 1_Barret_Avenue_at_US150-Broadway_11-30-2022
Site Code : Site 1
Start Date : 11/30/2022
Page No : 1

| Groups Printed- Cars - Buses - Trucks | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-----------------------------|------|-------|--------|------------|-------------------------------|------|-------|--------|------------|-----------------------------|------|-------|--------|------------|-------------------------------|------|-------|--------|------------|------------|
| | Barret Avenue From North | | | | | US150 - Broadway From East | | | | | Barret Avenue From South | | | | | US150 - Broadway From West | | | | | |
| Start Time | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Int. Total |
| 07:00 AM | 0 | 18 | 22 | 0 | 40 | 4 | 68 | 0 | 0 | 72 | 34 | 9 | 2 | 0 | 45 | 15 | 31 | 38 | 0 | 84 | 241 |
| 07:15 AM | 1 | 25 | 42 | 0 | 68 | 1 | 102 | 1 | 0 | 104 | 47 | 17 | 5 | 0 | 69 | 18 | 38 | 43 | 0 | 99 | 340 |
| 07:30 AM | 1 | 16 | 46 | 0 | 63 | 4 | 80 | 7 | 0 | 91 | 69 | 26 | 2 | 0 | 97 | 27 | 38 | 39 | 0 | 104 | 355 |
| 07:45 AM | 1 | 18 | 48 | 0 | 67 | 1 | 127 | 18 | 0 | 146 | 56 | 30 | 0 | 0 | 86 | 22 | 40 | 41 | 0 | 103 | 402 |
| Total | 3 | 77 | 158 | 0 | 238 | 10 | 377 | 26 | 0 | 413 | 206 | 82 | 9 | 0 | 297 | 82 | 147 | 161 | 0 | 390 | 1338 |
| 08:00 AM | 1 | 24 | 38 | 0 | 63 | 3 | 105 | 1 | 0 | 109 | 56 | 25 | 5 | 0 | 86 | 20 | 40 | 36 | 0 | 96 | 354 |
| 08:15 AM | 2 | 16 | 41 | 0 | 59 | 3 | 125 | 1 | 0 | 129 | 46 | 28 | 5 | 0 | 79 | 15 | 37 | 29 | 0 | 81 | 348 |
| 08:30 AM | 0 | 20 | 54 | 0 | 74 | 1 | 106 | 0 | 0 | 107 | 46 | 20 | 2 | 0 | 68 | 26 | 32 | 30 | 0 | 88 | 337 |
| 08:45 AM | 1 | 23 | 33 | 0 | 57 | 4 | 97 | 0 | 0 | 101 | 26 | 28 | 3 | 0 | 57 | 23 | 44 | 34 | 0 | 101 | 316 |
| Total | 4 | 83 | 166 | 0 | 253 | 11 | 433 | 2 | 0 | 446 | 174 | 101 | 15 | 0 | 290 | 84 | 153 | 129 | 0 | 366 | 1355 |
| 04:00 PM | 2 | 34 | 33 | 0 | 69 | 3 | 60 | 1 | 0 | 64 | 26 | 34 | 5 | 0 | 65 | 41 | 112 | 95 | 0 | 248 | 446 |
| 04:15 PM | 1 | 30 | 24 | 0 | 55 | 1 | 54 | 0 | 0 | 55 | 32 | 38 | 8 | 0 | 78 | 45 | 113 | 75 | 0 | 233 | 421 |
| 04:30 PM | 1 | 48 | 16 | 0 | 65 | 5 | 55 | 2 | 0 | 62 | 32 | 32 | 4 | 0 | 68 | 50 | 129 | 75 | 0 | 254 | 449 |
| 04:45 PM | 1 | 54 | 17 | 0 | 72 | 6 | 62 | 1 | 0 | 69 | 25 | 24 | 4 | 0 | 53 | 53 | 144 | 100 | 0 | 297 | 491 |
| Total | 5 | 166 | 90 | 0 | 261 | 15 | 231 | 4 | 0 | 250 | 115 | 128 | 21 | 0 | 264 | 189 | 498 | 345 | 0 | 1032 | 1807 |
| 05:00 PM | 1 | 66 | 26 | 0 | 93 | 6 | 51 | 1 | 0 | 58 | 20 | 37 | 3 | 0 | 60 | 39 | 120 | 92 | 0 | 251 | 462 |
| 05:15 PM | 2 | 50 | 29 | 0 | 81 | 8 | 53 | 2 | 0 | 63 | 35 | 28 | 5 | 0 | 68 | 61 | 142 | 123 | 0 | 326 | 538 |
| 05:30 PM | 2 | 46 | 36 | 0 | 84 | 7 | 63 | 1 | 0 | 71 | 17 | 29 | 5 | 0 | 51 | 61 | 112 | 103 | 1 | 277 | 483 |
| 05:45 PM | 5 | 48 | 28 | 0 | 81 | 3 | 44 | 2 | 0 | 49 | 27 | 29 | 2 | 0 | 58 | 36 | 87 | 86 | 0 | 209 | 397 |
| Total | 10 | 210 | 119 | 0 | 339 | 24 | 211 | 6 | 0 | 241 | 99 | 123 | 15 | 0 | 237 | 197 | 461 | 404 | 1 | 1063 | 1880 |
| Grand Total | 22 | 536 | 533 | 0 | 1091 | 60 | 1252 | 38 | 0 | 1350 | 594 | 434 | 60 | 0 | 1088 | 552 | 1259 | 1039 | 1 | 2851 | 6380 |
| Apprch % | 2 | 49.1 | 48.9 | 0 | | 4.4 | 92.7 | 2.8 | 0 | | 54.6 | 39.9 | 5.5 | 0 | | 19.4 | 44.2 | 36.4 | 0 | | |
| Total % | 0.3 | 8.4 | 8.4 | 0 | 17.1 | 0.9 | 19.6 | 0.6 | 0 | 21.2 | 9.3 | 6.8 | 0.9 | 0 | 17.1 | 8.7 | 19.7 | 16.3 | 0 | 44.7 | |
| Cars | 19 | 531 | 524 | 0 | 1074 | 58 | 1224 | 38 | 0 | 1320 | 576 | 427 | 60 | 0 | 1063 | 543 | 1233 | 1009 | 1 | 2786 | 6243 |
| % Cars | 86.4 | 99.1 | 98.3 | 0 | 98.4 | 96.7 | 97.8 | 100 | 0 | 97.8 | 97 | 98.4 | 100 | 0 | 97.7 | 98.4 | 97.9 | 97.1 | 100 | 97.7 | 97.9 |
| Buses | 0 | 2 | 3 | 0 | 5 | 2 | 24 | 0 | 0 | 26 | 11 | 2 | 0 | 0 | 13 | 6 | 19 | 21 | 0 | 46 | 90 |
| % Buses | 0 | 0.4 | 0.6 | 0 | 0.5 | 3.3 | 1.9 | 0 | 0 | 1.9 | 1.9 | 0.5 | 0 | 0 | 1.2 | 1.1 | 1.5 | 2 | 0 | 1.6 | 1.4 |
| Trucks | 3 | 3 | 6 | 0 | 12 | 0 | 4 | 0 | 0 | 4 | 7 | 5 | 0 | 0 | 12 | 3 | 7 | 9 | 0 | 19 | 47 |
| % Trucks | 13.6 | 0.6 | 1.1 | 0 | 1.1 | 0 | 0.3 | 0 | 0 | 0.3 | 1.2 | 1.2 | 0 | 0 | 1.1 | 0.5 | 0.6 | 0.9 | 0 | 0.7 | 0.7 |

Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

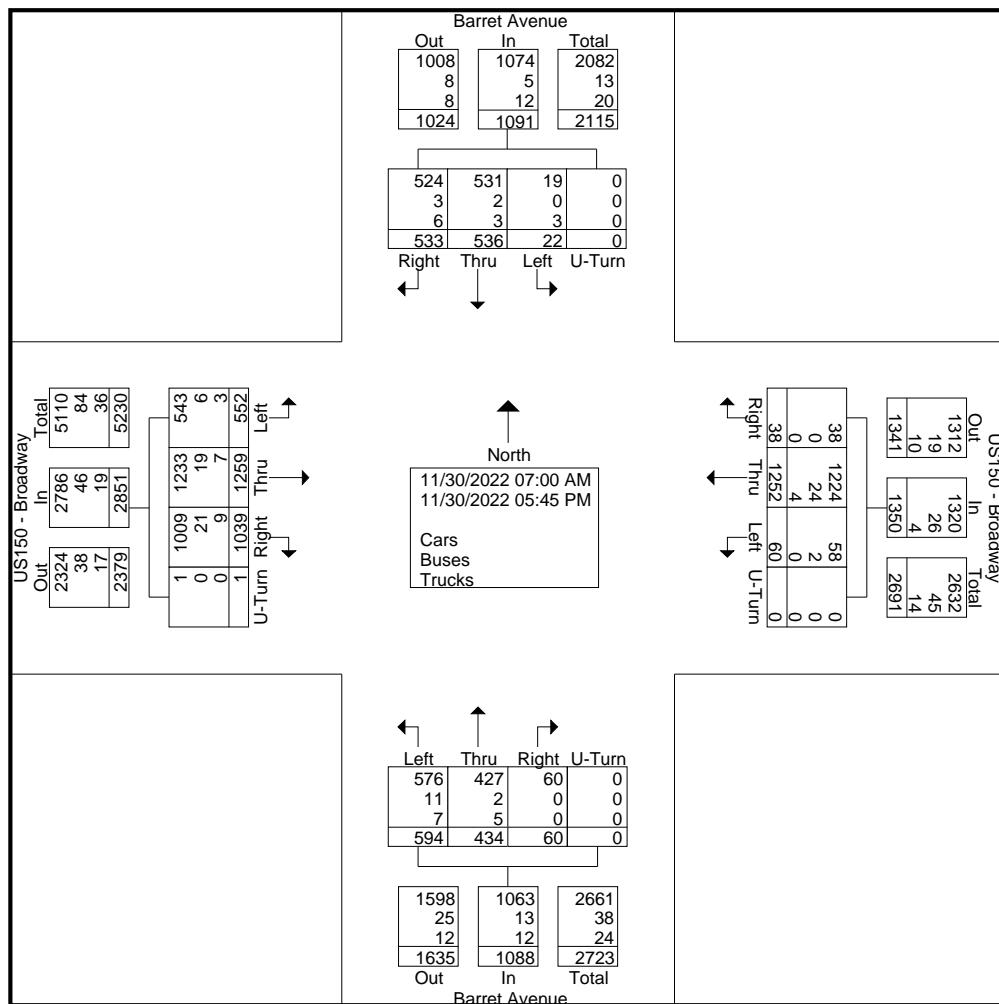
"2022 ... Data Collection simplified"

File Name : 1_Barret_Avenue_at_US150-Broadway_11-30-2022

Site Code : Site 1

Start Date : 11/30/2022

Page No : 2



Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

"2022 ... Data Collection simplified"

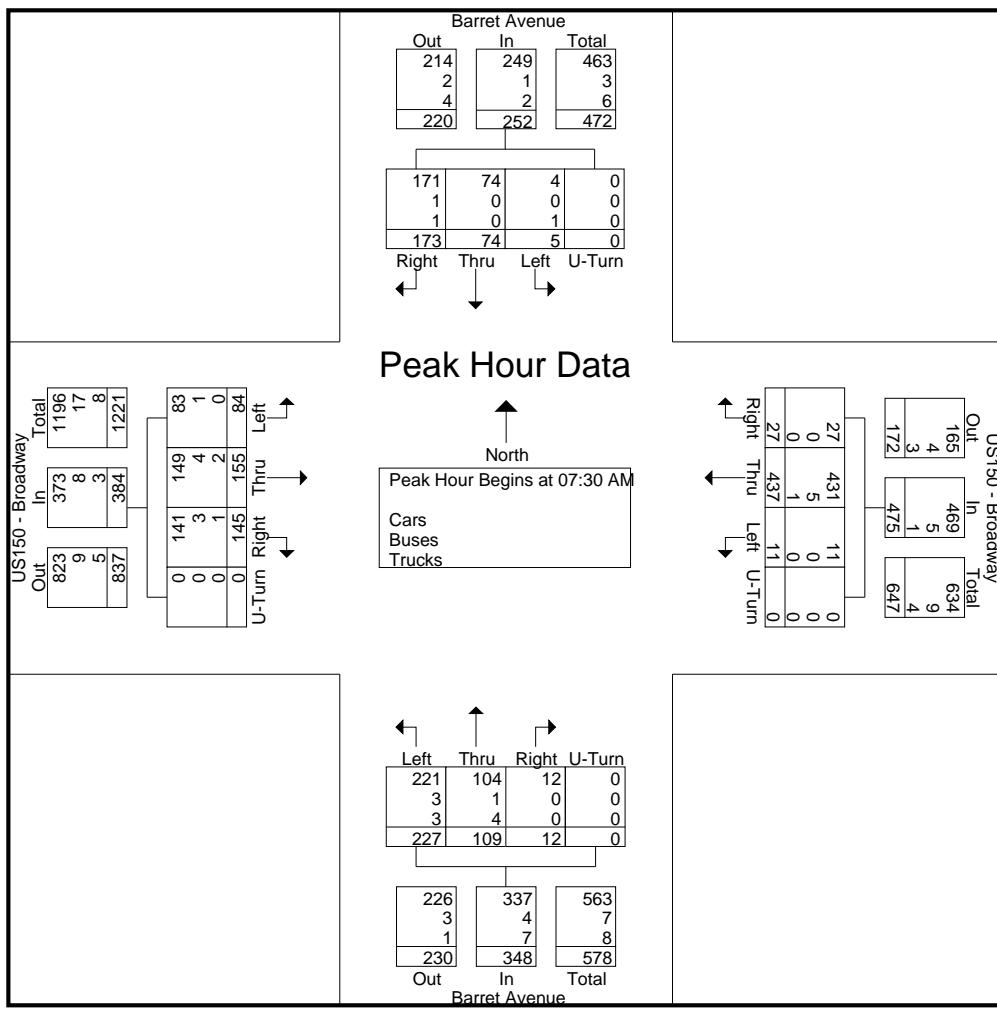
File Name : 1_Barret_Avenue_at_US150-Broadway_11-30-2022

Site Code : Site 1

Start Date : 11/30/2022

Page No : 3

| | Barret Avenue From North | | | | | US150 - Broadway From East | | | | | Barret Avenue From South | | | | | US150 - Broadway From West | | | | | |
|--|-----------------------------|------|-------|--------|------------|-------------------------------|------|-------|--------|------------|-----------------------------|------|-------|--------|------------|-------------------------------|------|-------|--------|------------|------------|
| Start Time | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | | | | | |
| 07:30 AM | 1 | 16 | 46 | 0 | 63 | 4 | 80 | 7 | 0 | 91 | 69 | 26 | 2 | 0 | 97 | 27 | 38 | 39 | 0 | 104 | 355 |
| 07:45 AM | 1 | 18 | 48 | 0 | 67 | 1 | 127 | 18 | 0 | 146 | 56 | 30 | 0 | 0 | 86 | 22 | 40 | 41 | 0 | 103 | 402 |
| 08:00 AM | 1 | 24 | 38 | 0 | 63 | 3 | 105 | 1 | 0 | 109 | 56 | 25 | 5 | 0 | 86 | 20 | 40 | 36 | 0 | 96 | 354 |
| 08:15 AM | 2 | 16 | 41 | 0 | 59 | 3 | 125 | 1 | 0 | 129 | 46 | 28 | 5 | 0 | 79 | 15 | 37 | 29 | 0 | 81 | 348 |
| Total Volume | 5 | 74 | 173 | 0 | 252 | 11 | 437 | 27 | 0 | 475 | 227 | 109 | 12 | 0 | 348 | 84 | 155 | 145 | 0 | 384 | 1459 |
| % App. Total | 2 | 29.4 | 68.7 | 0 | | 2.3 | 92 | 5.7 | 0 | | 65.2 | 31.3 | 3.4 | 0 | | 21.9 | 40.4 | 37.8 | 0 | | |
| PHF | .625 | .771 | .901 | .000 | .940 | .688 | .860 | .375 | .000 | .813 | .822 | .908 | .600 | .000 | .897 | .778 | .969 | .884 | .000 | .923 | .907 |
| Cars | 4 | 74 | 171 | 0 | 249 | 11 | 431 | 27 | 0 | 469 | 221 | 104 | 12 | 0 | 337 | 83 | 149 | 141 | 0 | 373 | 1428 |
| % Cars | 80.0 | 100 | 98.8 | 0 | 98.8 | 100 | 98.6 | 100 | 0 | 98.7 | 97.4 | 95.4 | 100 | 0 | 96.8 | 98.8 | 96.1 | 97.2 | 0 | 97.1 | 97.9 |
| Buses | 0 | 0 | 1 | 0 | 1 | 0 | 5 | 0 | 0 | 5 | 3 | 1 | 0 | 0 | 4 | 1 | 4 | 3 | 0 | 8 | 18 |
| % Buses | 0 | 0 | 0.6 | 0 | 0.4 | 0 | 1.1 | 0 | 0 | 1.1 | 1.3 | 0.9 | 0 | 0 | 1.1 | 1.2 | 2.6 | 2.1 | 0 | 2.1 | 1.2 |
| Trucks | 1 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 3 | 4 | 0 | 0 | 7 | 0 | 2 | 1 | 0 | 3 | 13 |
| % Trucks | 20.0 | 0 | 0.6 | 0 | 0.8 | 0 | 0.2 | 0 | 0 | 0.2 | 1.3 | 3.7 | 0 | 0 | 2.0 | 0 | 1.3 | 0.7 | 0 | 0.8 | 0.9 |



Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

"2022 ... Data Collection simplified"

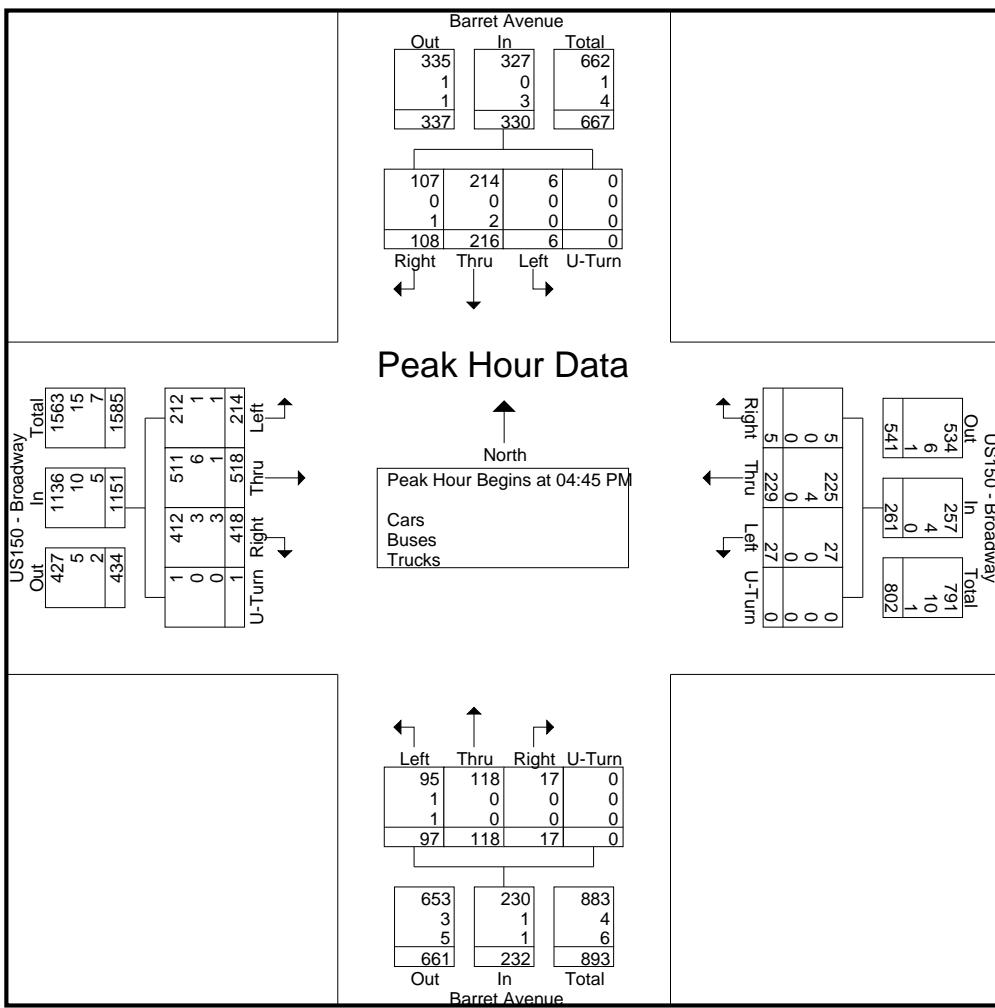
File Name : 1_Barret_Avenue_at_US150-Broadway_11-30-2022

Site Code : Site 1

Start Date : 11/30/2022

Page No : 4

| | Barret Avenue From North | | | | | US150 - Broadway From East | | | | | Barret Avenue From South | | | | | US150 - Broadway From West | | | | | |
|--|-----------------------------|-------|-------|--------|------------|-------------------------------|-------|-------|--------|------------|-----------------------------|-------|-------|--------|------------|-------------------------------|-------|-------|--------|------------|------------|
| Start Time | Left | Thr u | Right | U-Turn | App. Total | Left | Thr u | Right | U-Turn | App. Total | Left | Thr u | Right | U-Turn | App. Total | Left | Thr u | Right | U-Turn | App. Total | Int. Total |
| Peak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:45 PM | | | | | | | | | | | | | | | | | | | | | |
| 04:45 PM | 1 | 54 | 17 | 0 | 72 | 6 | 62 | 1 | 0 | 69 | 25 | 24 | 4 | 0 | 53 | 53 | 144 | 100 | 0 | 297 | 491 |
| 05:00 PM | 1 | 66 | 26 | 0 | 93 | 6 | 51 | 1 | 0 | 58 | 20 | 37 | 3 | 0 | 60 | 39 | 120 | 92 | 0 | 251 | 462 |
| 05:15 PM | 2 | 50 | 29 | 0 | 81 | 8 | 53 | 2 | 0 | 63 | 35 | 28 | 5 | 0 | 68 | 61 | 142 | 123 | 0 | 326 | 538 |
| 05:30 PM | 2 | 46 | 36 | 0 | 84 | 7 | 63 | 1 | 0 | 71 | 17 | 29 | 5 | 0 | 51 | 61 | 112 | 103 | 1 | 277 | 483 |
| Total Volume | 6 | 216 | 108 | 0 | 330 | 27 | 229 | 5 | 0 | 261 | 97 | 118 | 17 | 0 | 232 | 214 | 518 | 418 | 1 | 1151 | 1974 |
| % App. Total | 1.8 | 65.5 | 32.7 | 0 | | 10.3 | 87.7 | 1.9 | 0 | | 41.8 | 50.9 | 7.3 | 0 | | 18.6 | 45 | 36.3 | 0.1 | | |
| PHF | .750 | .818 | .750 | .000 | .887 | .844 | .909 | .625 | .000 | .919 | .693 | .797 | .850 | .000 | .853 | .877 | .899 | .850 | .250 | .883 | .917 |
| Cars | 6 | 214 | 107 | 0 | 327 | 27 | 225 | 5 | 0 | 257 | 95 | 118 | 17 | 0 | 230 | 212 | 511 | 412 | 1 | 1136 | 1950 |
| % Cars | 100 | 99.1 | 99.1 | 0 | 99.1 | 100 | 98.3 | 100 | 0 | 98.5 | 97.9 | 100 | 100 | 0 | 99.1 | 99.1 | 98.6 | 98.6 | 100 | 98.7 | 98.8 |
| Buses | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 1 | 6 | 3 | 0 | 10 | 15 |
| % Buses | 0 | 0 | 0 | 0 | 0 | 0 | 1.7 | 0 | 0 | 1.5 | 1.0 | 0 | 0 | 0 | 0.4 | 0.5 | 1.2 | 0.7 | 0 | 0.9 | 0.8 |
| Trucks | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 0 | 5 | 9 |
| % Trucks | 0 | 0.9 | 0.9 | 0 | 0.9 | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 | 0.4 | 0.5 | 0.2 | 0.7 | 0 | 0.4 | 0.5 |



Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

"2022 ... Data Collection simplified"

Partly Sunny
Schools in Session
Wednesday - 9X5

File Name : 2_Barret_Avenue_at_St_Anthony_Place_11-30-2022
Site Code : Site 2
Start Date : 11/30/2022
Page No : 1

Groups Printed- Cars - Buses - Trucks

| | Barret Avenue From North | | | | | St Anthony Place From East | | | | | Barret Avenue From South | | | | | St Anthony Place From West | | | | | | |
|-------------|-----------------------------|------|------|-------|--------|-------------------------------|------|------|-------|--------|-----------------------------|------|------|-------|--------|-------------------------------|------|------|-------|--------|------------|------------|
| | Start Time | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Int. Total |
| 07:00 AM | 3 | 47 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 | 3 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 100 |
| 07:15 AM | 8 | 53 | 0 | 0 | 61 | 4 | 0 | 5 | 0 | 9 | 0 | 72 | 3 | 0 | 75 | 0 | 0 | 0 | 0 | 0 | 145 | |
| 07:30 AM | 7 | 55 | 0 | 0 | 62 | 3 | 0 | 2 | 0 | 5 | 0 | 88 | 3 | 0 | 91 | 0 | 0 | 0 | 0 | 0 | 158 | |
| 07:45 AM | 4 | 55 | 0 | 0 | 59 | 0 | 0 | 1 | 0 | 1 | 0 | 76 | 3 | 0 | 79 | 0 | 0 | 0 | 0 | 0 | 139 | |
| Total | 22 | 210 | 0 | 0 | 232 | 7 | 0 | 8 | 0 | 15 | 0 | 283 | 12 | 0 | 295 | 0 | 0 | 0 | 0 | 0 | 542 | |
| 08:00 AM | 5 | 46 | 0 | 0 | 51 | 1 | 0 | 2 | 0 | 3 | 0 | 89 | 0 | 0 | 89 | 0 | 0 | 0 | 0 | 0 | 143 | |
| 08:15 AM | 3 | 39 | 0 | 0 | 42 | 0 | 0 | 2 | 0 | 2 | 0 | 66 | 1 | 0 | 67 | 0 | 0 | 0 | 0 | 0 | 111 | |
| 08:30 AM | 9 | 36 | 0 | 0 | 45 | 1 | 0 | 3 | 0 | 4 | 0 | 72 | 2 | 0 | 74 | 0 | 0 | 0 | 0 | 0 | 123 | |
| 08:45 AM | 6 | 48 | 0 | 0 | 54 | 1 | 0 | 4 | 0 | 5 | 0 | 55 | 3 | 0 | 58 | 0 | 0 | 0 | 0 | 0 | 117 | |
| Total | 23 | 169 | 0 | 0 | 192 | 3 | 0 | 11 | 0 | 14 | 0 | 282 | 6 | 0 | 288 | 0 | 0 | 0 | 0 | 0 | 494 | |
| 04:00 PM | 5 | 123 | 0 | 0 | 128 | 6 | 0 | 4 | 0 | 10 | 0 | 57 | 1 | 0 | 58 | 0 | 0 | 0 | 0 | 0 | 196 | |
| 04:15 PM | 1 | 106 | 0 | 0 | 107 | 0 | 0 | 7 | 0 | 7 | 0 | 68 | 1 | 0 | 69 | 0 | 0 | 0 | 0 | 0 | 183 | |
| 04:30 PM | 0 | 130 | 0 | 0 | 130 | 1 | 0 | 2 | 0 | 3 | 0 | 54 | 2 | 0 | 56 | 0 | 0 | 0 | 0 | 0 | 189 | |
| 04:45 PM | 3 | 160 | 0 | 0 | 163 | 2 | 0 | 3 | 0 | 5 | 0 | 53 | 1 | 0 | 54 | 0 | 0 | 0 | 0 | 0 | 222 | |
| Total | 9 | 519 | 0 | 0 | 528 | 9 | 0 | 16 | 0 | 25 | 0 | 232 | 5 | 0 | 237 | 0 | 0 | 0 | 0 | 0 | 790 | |
| 05:00 PM | 3 | 163 | 0 | 0 | 166 | 2 | 0 | 4 | 0 | 6 | 0 | 60 | 0 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 232 | |
| 05:15 PM | 6 | 180 | 0 | 0 | 186 | 1 | 0 | 1 | 0 | 2 | 0 | 58 | 4 | 0 | 62 | 0 | 0 | 0 | 0 | 0 | 250 | |
| 05:30 PM | 3 | 152 | 0 | 0 | 155 | 4 | 0 | 2 | 0 | 6 | 0 | 50 | 3 | 0 | 53 | 0 | 0 | 0 | 0 | 0 | 214 | |
| 05:45 PM | 5 | 134 | 0 | 0 | 139 | 2 | 0 | 1 | 0 | 3 | 0 | 59 | 5 | 0 | 64 | 0 | 0 | 0 | 0 | 0 | 206 | |
| Total | 17 | 629 | 0 | 0 | 646 | 9 | 0 | 8 | 0 | 17 | 0 | 227 | 12 | 0 | 239 | 0 | 0 | 0 | 0 | 0 | 902 | |
| Grand Total | 71 | 1527 | 0 | 0 | 1598 | 28 | 0 | 43 | 0 | 71 | 0 | 1024 | 35 | 0 | 1059 | 0 | 0 | 0 | 0 | 0 | 2728 | |
| Apprch % | 4.4 | 95.6 | 0 | 0 | | 39.4 | 0 | 60.6 | 0 | | 0 | 96.7 | 3.3 | 0 | | 0 | 0 | 0 | 0 | 0 | | |
| Total % | 2.6 | 56 | 0 | 0 | 58.6 | 1 | 0 | 1.6 | 0 | 2.6 | 0 | 37.5 | 1.3 | 0 | 38.8 | 0 | 0 | 0 | 0 | 0 | | |
| Cars | 70 | 1488 | 0 | 0 | 1558 | 28 | 0 | 43 | 0 | 71 | 0 | 1002 | 34 | 0 | 1036 | 0 | 0 | 0 | 0 | 0 | 2665 | |
| % Cars | 98.6 | 97.4 | 0 | 0 | 97.5 | 100 | 0 | 100 | 0 | 100 | 0 | 97.9 | 97.1 | 0 | 97.8 | 0 | 0 | 0 | 0 | 0 | 97.7 | |
| Buses | 0 | 24 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 35 | |
| % Buses | 0 | 1.6 | 0 | 0 | 1.5 | 0 | 0 | 0 | 0 | 0 | 0 | 1.1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1.3 | |
| Trucks | 1 | 15 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 1 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 28 | |
| % Trucks | 1.4 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1.1 | 2.9 | 0 | 1.1 | 0 | 0 | 0 | 0 | 0 | 1 | |

Cummins Consulting Services, LLC
swcummins@ccsdata.com 859-361-2589
"2022 ... Data Collection simplified"

2022 ... Data Collection simplified™

2022 ... Data Collection Simplified

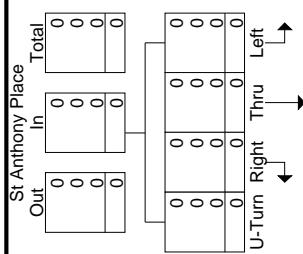
File Name : 2_Barret_Avenue_at_St_Anthony_Place_11-30-2022
Site Code : Site 2

Site Code : Site 2

Start Date : 11/30/2022

Page No : 2

| Barret Avenue | | | |
|---------------|------|-------|--------|
| Out | In | Total | |
| 1045 | 1558 | 2603 | |
| 11 | 24 | 35 | |
| 11 | 16 | 27 | |
| 1067 | 1598 | 2665 | |
| | | | |
| 0 | 1488 | 70 | 0 |
| 0 | 24 | 0 | 0 |
| 0 | 15 | 1 | 0 |
| 0 | 1527 | 71 | 0 |
| Right | Thru | Left | U-Turn |



11/30/2022 07:00 AM
11/30/2022 05:45 PM

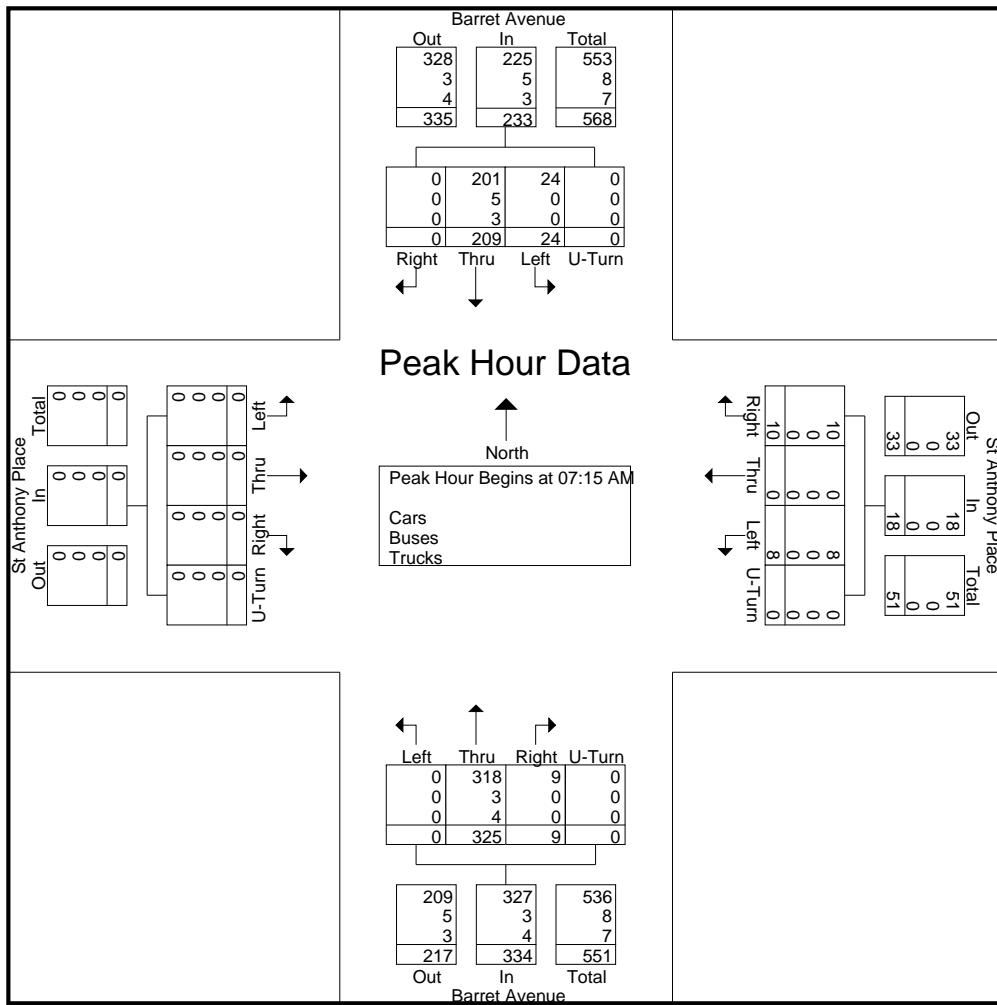
| | Out | In | Total |
|--------|-----|----|-------|
| Right | 43 | 0 | 43 |
| Thru | 0 | 0 | 0 |
| Left | 28 | 0 | 28 |
| U-Turn | 0 | 28 | 28 |
| | 104 | 71 | 175 |
| | 2 | 0 | 2 |
| | 106 | 71 | 177 |

| Left | Thru | Right | U-Turn |
|---------------|------|-------|--------|
| 0 | 1002 | 34 | 0 |
| 0 | 11 | 0 | 0 |
| 0 | 11 | 1 | 0 |
| 0 | 1024 | 35 | 0 |
| <hr/> | | | |
| 1516 | 1036 | 2552 | |
| 24 | 11 | 35 | |
| 15 | 12 | 27 | |
| 1555 | 1059 | 2614 | |
| Out | In | | Total |
| <hr/> | | | |
| Barret Avenue | | | |

Cummins Consulting Services, LLC
swcummins@ccsdata.com 859-361-2589
"2022 ... Data Collection simplified"

File Name : 2_Barret_Avenue_at_St_Anthony_Place_11-30-2022
Site Code : Site 2
Start Date : 11/30/2022
Page No : 3

| | Barret Avenue From North | | | | | St Anthony Place From East | | | | | Barret Avenue From South | | | | | St Anthony Place From West | | | | | |
|--|-----------------------------|------|------|-------|--------|-------------------------------|------|------|-------|--------|-----------------------------|------|------|-------|--------|-------------------------------|------|------|-------|--------|------------|
| | Start Time | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total |
| Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | | | | | | | | | | | | |
| 07:15 AM | 8 | 53 | 0 | 0 | 61 | 4 | 0 | 5 | 0 | 9 | 0 | 72 | 3 | 0 | 75 | 0 | 0 | 0 | 0 | 0 | 145 |
| 07:30 AM | 7 | 55 | 0 | 0 | 62 | 3 | 0 | 2 | 0 | 5 | 0 | 88 | 3 | 0 | 91 | 0 | 0 | 0 | 0 | 0 | 158 |
| 07:45 AM | 4 | 55 | 0 | 0 | 59 | 0 | 0 | 1 | 0 | 1 | 0 | 76 | 3 | 0 | 79 | 0 | 0 | 0 | 0 | 0 | 139 |
| 08:00 AM | 5 | 46 | 0 | 0 | 51 | 1 | 0 | 2 | 0 | 3 | 0 | 89 | 0 | 0 | 89 | 0 | 0 | 0 | 0 | 0 | 143 |
| Total Volume | 24 | 209 | 0 | 0 | 233 | 8 | 0 | 10 | 0 | 18 | 0 | 325 | 9 | 0 | 334 | 0 | 0 | 0 | 0 | 0 | 585 |
| % App. Total | 10.3 | 89.7 | 0 | 0 | | 44.4 | 0 | 55.6 | 0 | | 0 | 97.3 | 2.7 | 0 | | 0 | 0 | 0 | 0 | 0 | |
| PHF | .750 | .950 | .000 | .000 | .940 | .500 | .000 | .500 | .000 | .500 | .000 | .913 | .750 | .000 | .918 | .000 | .000 | .000 | .000 | .000 | .926 |
| Cars | 24 | 201 | 0 | 0 | 225 | 8 | 0 | 10 | 0 | 18 | 0 | 318 | 9 | 0 | 327 | 0 | 0 | 0 | 0 | 0 | 570 |
| % Cars | 100 | 96.2 | 0 | 0 | 96.6 | 100 | 0 | 100 | 0 | 100 | 0 | 97.8 | 100 | 0 | 97.9 | 0 | 0 | 0 | 0 | 0 | 97.4 |
| Buses | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 8 |
| % Buses | 0 | 2.4 | 0 | 0 | 2.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0.9 | 0 | 0 | 0.9 | 0 | 0 | 0 | 0 | 0 | 1.4 |
| Trucks | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 7 |
| % Trucks | 0 | 1.4 | 0 | 0 | 1.3 | 0 | 0 | 0 | 0 | 0 | 0 | 1.2 | 0 | 0 | 1.2 | 0 | 0 | 0 | 0 | 0 | 1.2 |



Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

"2022 ... Data Collection simplified"

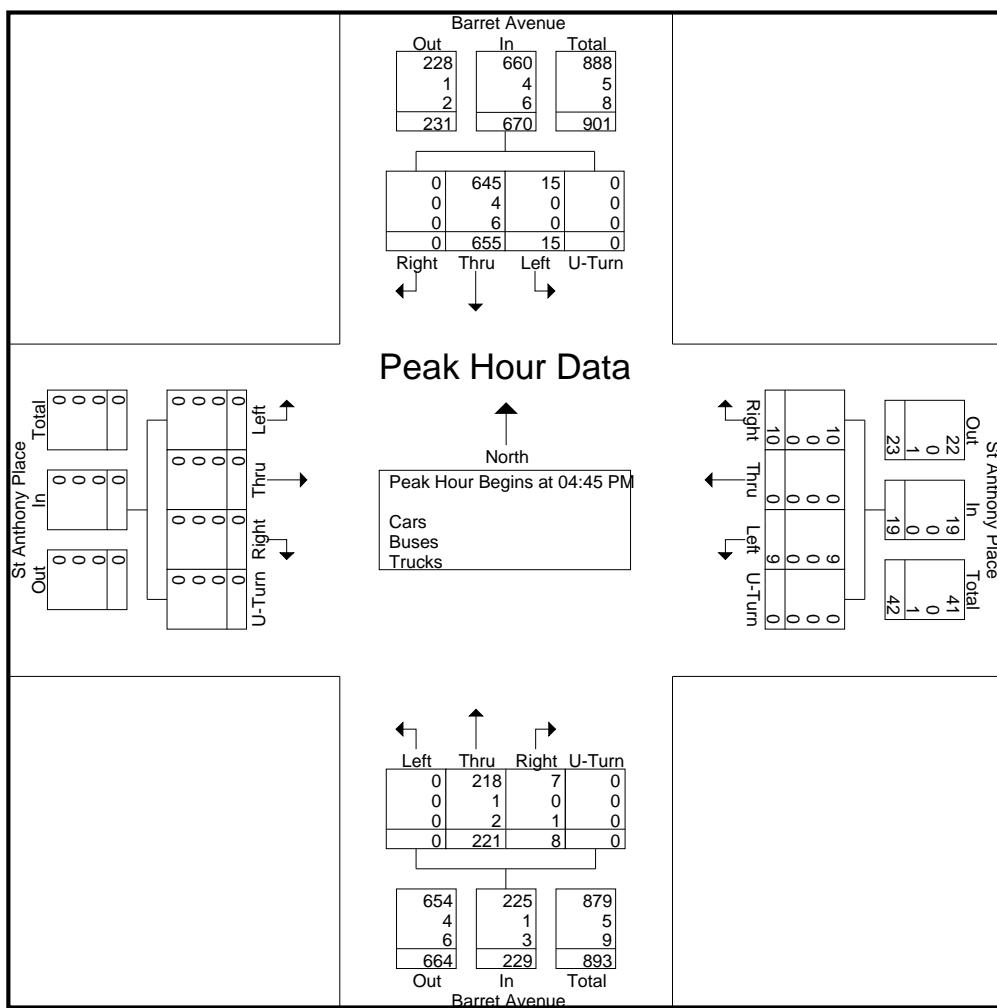
File Name : 2_Barret_Avenue_at_St_Anthony_Place_11-30-2022

Site Code : Site 2

Start Date : 11/30/2022

Page No : 4

| | Barret Avenue From North | | | | | St Anthony Place From East | | | | | Barret Avenue From South | | | | | St Anthony Place From West | | | | | |
|--|-----------------------------|------------|-------|--------|------------|-------------------------------|------|-------|--------|------------|-----------------------------|------|-------|--------|------------|-------------------------------|------|-------|--------|------------|------------|
| Start Time | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Int. Total |
| Peak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:45 PM | | | | | | | | | | | | | | | | | | | | | |
| 04:45 PM | 3 | 160 | 0 | 0 | 163 | 2 | 0 | 3 | 0 | 5 | 0 | 53 | 1 | 0 | 54 | 0 | 0 | 0 | 0 | 0 | 222 |
| 05:00 PM | 3 | 163 | 0 | 0 | 166 | 2 | 0 | 4 | 0 | 6 | 0 | 60 | 0 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 232 |
| 05:15 PM | 6 | 180 | 0 | 0 | 186 | 1 | 0 | 1 | 0 | 2 | 0 | 58 | 4 | 0 | 62 | 0 | 0 | 0 | 0 | 0 | 250 |
| 05:30 PM | 3 | 152 | 0 | 0 | 155 | 4 | 0 | 2 | 0 | 6 | 0 | 50 | 3 | 0 | 53 | 0 | 0 | 0 | 0 | 0 | 214 |
| Total Volume | 15 | 655 | 0 | 0 | 670 | 9 | 0 | 10 | 0 | 19 | 0 | 221 | 8 | 0 | 229 | 0 | 0 | 0 | 0 | 0 | 918 |
| % App. Total | 2.2 | 97.8 | 0 | 0 | | 47.4 | 0 | 52.6 | 0 | | 0 | 96.5 | 3.5 | 0 | | 0 | 0 | 0 | 0 | 0 | |
| PHF | .625 | .910 | .000 | .000 | .901 | .563 | .000 | .625 | .000 | .792 | .000 | .921 | .500 | .000 | .923 | .000 | .000 | .000 | .000 | .000 | .918 |
| Cars | 15 | 645 | 0 | 0 | 660 | 9 | 0 | 10 | 0 | 19 | 0 | 218 | 7 | 0 | 225 | 0 | 0 | 0 | 0 | 0 | 904 |
| % Cars | 100 | 98.5 | 0 | 0 | 98.5 | 100 | 0 | 100 | 0 | 100 | 0 | 98.6 | 87.5 | 0 | 98.3 | 0 | 0 | 0 | 0 | 0 | 98.5 |
| Buses | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| % Buses | 0 | 0.6 | 0 | 0 | 0.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 | 0 | 0 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0.5 |
| Trucks | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 9 |
| % Trucks | 0 | 0.9 | 0 | 0 | 0.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0.9 | 12.5 | 0 | 1.3 | 0 | 0 | 0 | 0 | 0 | 1.0 |



Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

"2022 ... Data Collection simplified"

Partly Sunny
Schools in Session
Wednesday - 5GG

File Name : 3_Barret_Avenue_at_E_Breckenridge_Street_11-30-2022
Site Code : Site 3
Start Date : 11/30/2022
Page No : 1

| Groups Printed- Cars - Buses - Trucks | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-----------------------------|------|-------|--------|------------|------------------------------------|------|-------|--------|------------|-----------------------------|------|-------|--------|------------|------------------------------------|------|-------|--------|------------|------------|
| | Barret Avenue From North | | | | | E Breckenridge Street From East | | | | | Barret Avenue From South | | | | | E Breckenridge Street From West | | | | | |
| Start Time | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Int. Total |
| 07:00 AM | 40 | 52 | 1 | 0 | 93 | 0 | 0 | 0 | 0 | 0 | 4 | 36 | 5 | 0 | 45 | 1 | 8 | 3 | 0 | 12 | 150 |
| 07:15 AM | 51 | 71 | 2 | 0 | 124 | 0 | 0 | 0 | 0 | 0 | 2 | 44 | 8 | 0 | 54 | 11 | 17 | 4 | 0 | 32 | 210 |
| 07:30 AM | 59 | 96 | 2 | 0 | 157 | 0 | 0 | 0 | 0 | 0 | 1 | 40 | 16 | 0 | 57 | 3 | 16 | 2 | 0 | 21 | 235 |
| 07:45 AM | 71 | 80 | 5 | 0 | 156 | 0 | 0 | 0 | 0 | 0 | 2 | 41 | 12 | 0 | 55 | 1 | 11 | 8 | 0 | 20 | 231 |
| Total | 221 | 299 | 10 | 0 | 530 | 0 | 0 | 0 | 0 | 0 | 9 | 161 | 41 | 0 | 211 | 16 | 52 | 17 | 0 | 85 | 826 |
| 08:00 AM | 60 | 103 | 4 | 0 | 167 | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 9 | 0 | 44 | 1 | 9 | 0 | 0 | 10 | 221 |
| 08:15 AM | 69 | 69 | 2 | 0 | 140 | 0 | 0 | 0 | 0 | 0 | 1 | 31 | 10 | 0 | 42 | 0 | 5 | 2 | 0 | 7 | 189 |
| 08:30 AM | 64 | 76 | 3 | 0 | 143 | 0 | 0 | 0 | 0 | 0 | 2 | 28 | 7 | 0 | 37 | 4 | 5 | 0 | 0 | 9 | 189 |
| 08:45 AM | 70 | 63 | 11 | 0 | 144 | 0 | 0 | 0 | 0 | 0 | 2 | 30 | 18 | 0 | 50 | 1 | 6 | 2 | 0 | 9 | 203 |
| Total | 263 | 311 | 20 | 0 | 594 | 0 | 0 | 0 | 0 | 0 | 5 | 124 | 44 | 0 | 173 | 6 | 25 | 4 | 0 | 35 | 802 |
| 04:00 PM | 38 | 59 | 8 | 0 | 105 | 0 | 0 | 0 | 0 | 0 | 5 | 119 | 15 | 0 | 139 | 4 | 7 | 5 | 0 | 16 | 260 |
| 04:15 PM | 28 | 62 | 7 | 0 | 97 | 0 | 0 | 0 | 0 | 0 | 4 | 100 | 10 | 0 | 114 | 2 | 4 | 1 | 0 | 7 | 218 |
| 04:30 PM | 38 | 55 | 1 | 0 | 94 | 0 | 0 | 0 | 0 | 0 | 3 | 113 | 27 | 0 | 143 | 5 | 8 | 2 | 0 | 15 | 252 |
| 04:45 PM | 31 | 62 | 2 | 0 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 144 | 21 | 0 | 165 | 7 | 3 | 1 | 0 | 11 | 271 |
| Total | 135 | 238 | 18 | 0 | 391 | 0 | 0 | 0 | 0 | 0 | 12 | 476 | 73 | 0 | 561 | 18 | 22 | 9 | 0 | 49 | 1001 |
| 05:00 PM | 33 | 60 | 2 | 0 | 95 | 0 | 0 | 0 | 0 | 0 | 2 | 151 | 21 | 0 | 174 | 6 | 16 | 0 | 0 | 22 | 291 |
| 05:15 PM | 26 | 56 | 3 | 0 | 85 | 0 | 0 | 0 | 0 | 0 | 3 | 168 | 18 | 0 | 189 | 4 | 7 | 2 | 0 | 13 | 287 |
| 05:30 PM | 31 | 59 | 4 | 0 | 94 | 0 | 0 | 0 | 0 | 0 | 3 | 143 | 21 | 0 | 167 | 5 | 10 | 0 | 0 | 15 | 276 |
| 05:45 PM | 33 | 70 | 1 | 0 | 104 | 0 | 0 | 0 | 0 | 0 | 2 | 120 | 14 | 0 | 136 | 6 | 3 | 2 | 0 | 11 | 251 |
| Total | 123 | 245 | 10 | 0 | 378 | 0 | 0 | 0 | 0 | 0 | 10 | 582 | 74 | 0 | 666 | 21 | 36 | 4 | 0 | 61 | 1105 |
| Grand Total | 742 | 1093 | 58 | 0 | 1893 | 0 | 0 | 0 | 0 | 0 | 36 | 1343 | 232 | 0 | 1611 | 61 | 135 | 34 | 0 | 230 | 3734 |
| Apprch % | 39.2 | 57.7 | 3.1 | 0 | | 0 | 0 | 0 | 0 | 0 | 2.2 | 83.4 | 14.4 | 0 | | 26.5 | 58.7 | 14.8 | 0 | | |
| Total % | 19.9 | 29.3 | 1.6 | 0 | 50.7 | 0 | 0 | 0 | 0 | 0 | 1 | 36 | 6.2 | 0 | 43.1 | 1.6 | 3.6 | 0.9 | 0 | 6.2 | |
| Cars | 727 | 1072 | 55 | 0 | 1854 | 0 | 0 | 0 | 0 | 0 | 35 | 1322 | 219 | 0 | 1576 | 61 | 130 | 32 | 0 | 223 | 3653 |
| % Cars | 98 | 98.1 | 94.8 | 0 | 97.9 | 0 | 0 | 0 | 0 | 0 | 97.2 | 98.4 | 94.4 | 0 | 97.8 | 100 | 96.3 | 94.1 | 0 | 97 | 97.8 |
| Buses | 10 | 12 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 9 | 0 | 23 | 0 | 5 | 0 | 0 | 5 | 50 |
| % Buses | 1.3 | 1.1 | 0 | 0 | 1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3.9 | 0 | 1.4 | 0 | 3.7 | 0 | 0 | 2.2 | 1.3 |
| Trucks | 5 | 9 | 3 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 1 | 7 | 4 | 0 | 12 | 0 | 0 | 2 | 0 | 2 | 31 |
| % Trucks | 0.7 | 0.8 | 5.2 | 0 | 0.9 | 0 | 0 | 0 | 0 | 0 | 2.8 | 0.5 | 1.7 | 0 | 0.7 | 0 | 0 | 5.9 | 0 | 0.9 | 0.8 |

Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

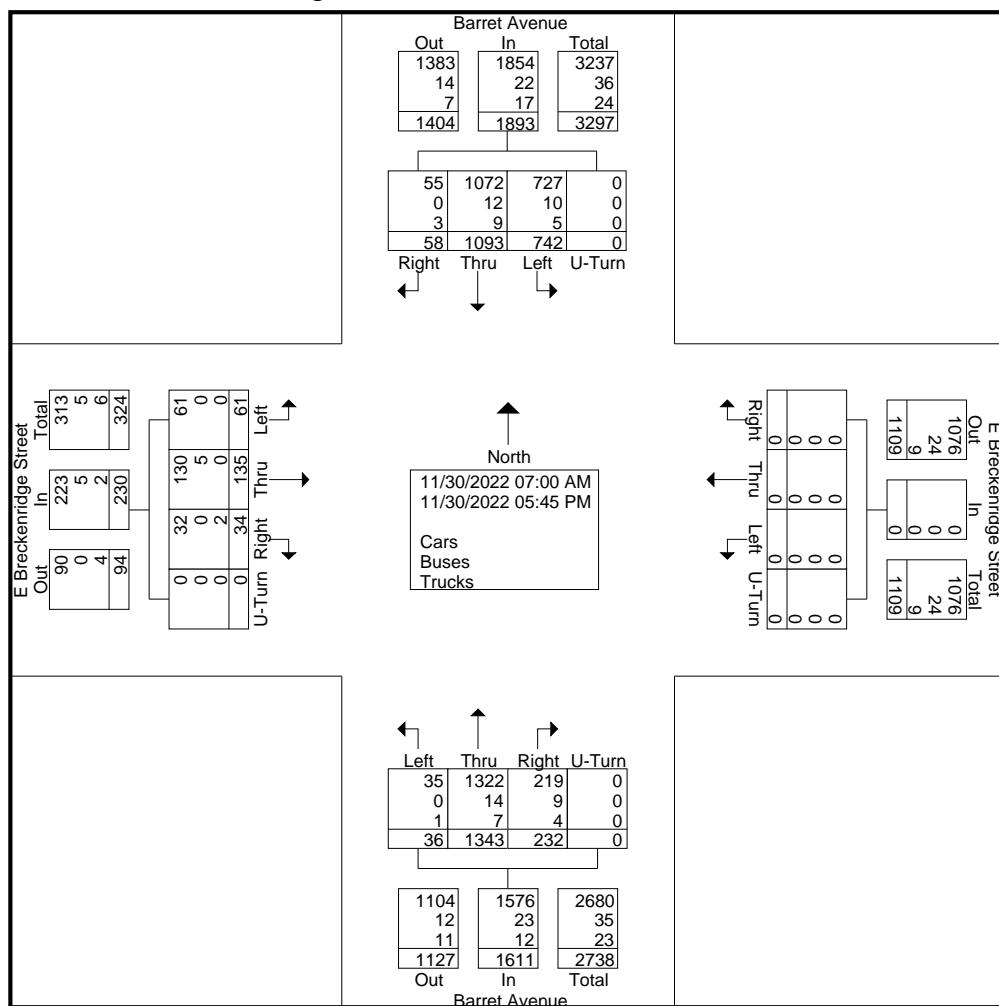
"2022 ... Data Collection simplified"

File Name : 3_Barret_Avenue_at_E_Breckenridge_Street_11-30-2022

Site Code : Site 3

Start Date : 11/30/2022

Page No : 2



Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

"2022 ... Data Collection simplified"

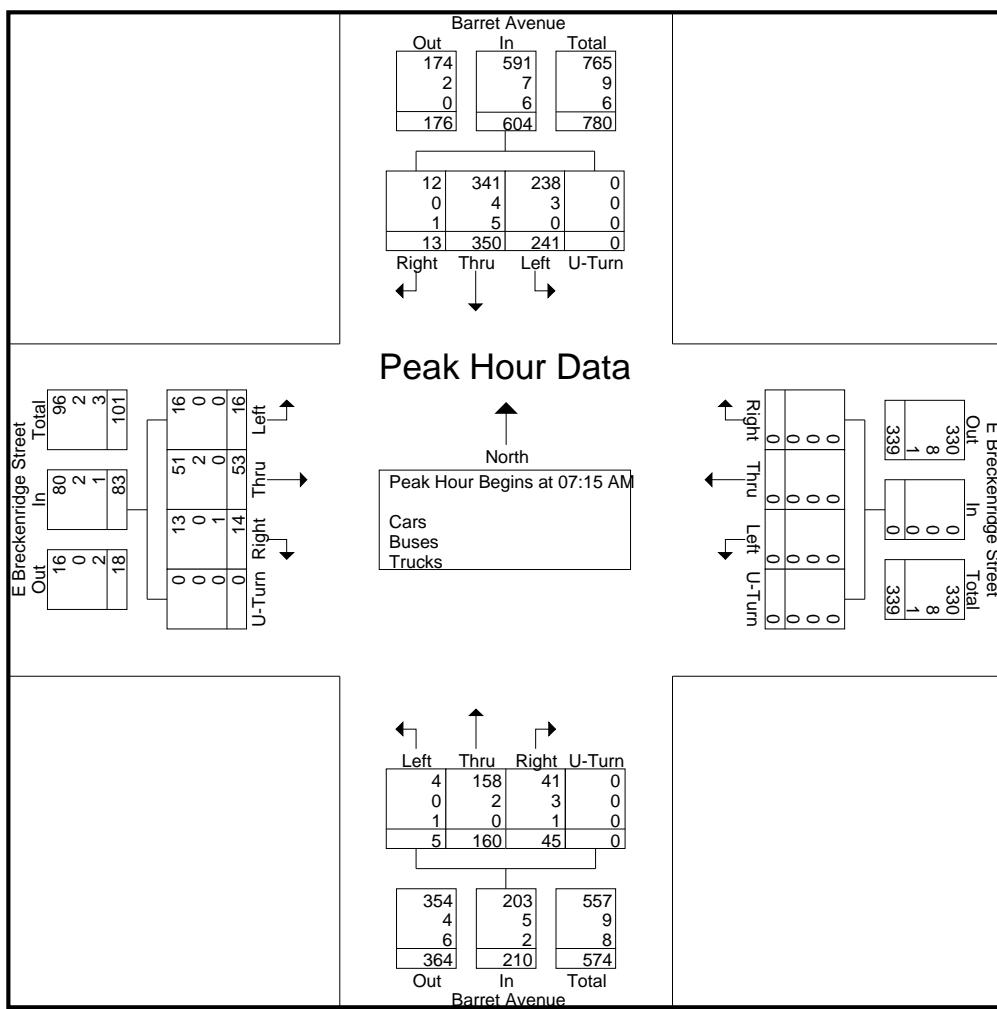
File Name : 3_Barret_Avenue_at_E_Breckenridge_Street_11-30-2022

Site Code : Site 3

Start Date : 11/30/2022

Page No : 3

| | Barret Avenue From North | | | | | E Breckenridge Street From East | | | | | Barret Avenue From South | | | | | E Breckenridge Street From West | | | | | | | |
|--|-----------------------------|------|-------|--------|------------|------------------------------------|------|-------|--------|------------|-----------------------------|------|-------|--------|------------|------------------------------------|------|-------|--------|------------|------------|------|-----|
| Start Time | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Int. Total | | |
| Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | | | | | | | | | | | | | | |
| 07:15 AM | 51 | 71 | 2 | 0 | 124 | 0 | 0 | 0 | 0 | 0 | 2 | 44 | 8 | 0 | 54 | 11 | 17 | 4 | 0 | 32 | 210 | | |
| 07:30 AM | 59 | 96 | 2 | 0 | 157 | 0 | 0 | 0 | 0 | 0 | 1 | 40 | 16 | 0 | 57 | 3 | 16 | 2 | 0 | 21 | 235 | | |
| 07:45 AM | 71 | 80 | 5 | 0 | 156 | 0 | 0 | 0 | 0 | 0 | 2 | 41 | 12 | 0 | 55 | 1 | 11 | 8 | 0 | 20 | 231 | | |
| 08:00 AM | 60 | 103 | 4 | 0 | 167 | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 9 | 0 | 44 | 1 | 9 | 0 | 0 | 10 | 221 | | |
| Total Volume | 241 | 350 | 13 | 0 | 604 | 0 | 0 | 0 | 0 | 0 | 5 | 160 | 45 | 0 | 210 | 16 | 53 | 14 | 0 | 83 | 897 | | |
| % App. Total | 39.9 | 57.9 | 2.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.4 | 76.2 | 21.4 | 0 | 0 | 19.3 | 63.9 | 16.9 | 0 | 0 | 0 | | |
| PHF | .849 | .850 | .650 | .000 | .904 | .000 | .000 | .000 | .000 | .000 | .625 | .909 | .703 | .000 | .921 | .364 | .779 | .438 | .000 | .648 | .954 | | |
| Cars | 238 | 341 | 12 | 0 | 591 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 158 | 41 | 0 | 203 | 16 | 51 | 13 | 0 | 80 | 874 | |
| % Cars | 98.8 | 97.4 | 92.3 | 0 | 97.8 | 0 | 0 | 0 | 0 | 0 | 80.0 | 98.8 | 91.1 | 0 | 96.7 | 100 | 96.2 | 92.9 | 0 | 0 | 96.4 | 97.4 | |
| Buses | 3 | 4 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 5 | 0 | 2 | 0 | 0 | 0 | 2 | 14 | |
| % Buses | 1.2 | 1.1 | 0 | 0 | 1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.3 | 6.7 | 0 | 2.4 | 0 | 3.8 | 0 | 0 | 0 | 2.4 | 1.6 |
| Trucks | 0 | 5 | 1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 9 | |
| % Trucks | 0 | 1.4 | 7.7 | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 | 20.0 | 0 | 2.2 | 0 | 1.0 | 0 | 0 | 0 | 7.1 | 0 | 1.2 | 1.0 | |



Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

"2022 ... Data Collection simplified"

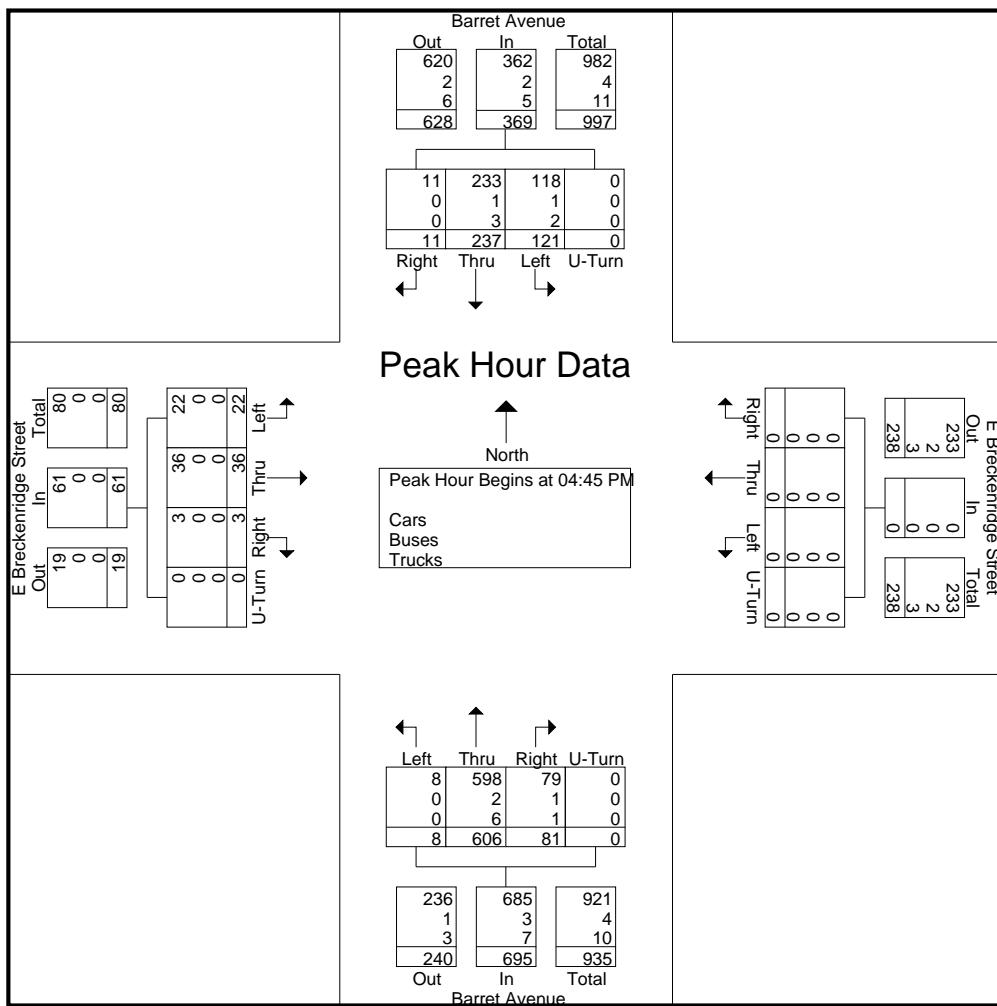
File Name : 3_Barret_Avenue_at_E_Breckenridge_Street_11-30-2022

Site Code : Site 3

Start Date : 11/30/2022

Page No : 4

| | Barret Avenue From North | | | | | E Breckenridge Street From East | | | | | Barret Avenue From South | | | | | E Breckenridge Street From West | | | | | |
|--|-----------------------------|-------|-------|--------|------------|------------------------------------|-------|-------|--------|------------|-----------------------------|-------|-------|--------|------------|------------------------------------|-------|-------|--------|------------|------------|
| Start Time | Left | Thr u | Right | U-Turn | App. Total | Left | Thr u | Right | U-Turn | App. Total | Left | Thr u | Right | U-Turn | App. Total | Left | Thr u | Right | U-Turn | App. Total | Int. Total |
| Peak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:45 PM | | | | | | | | | | | | | | | | | | | | | |
| 04:45 PM | 31 | 62 | 2 | 0 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 144 | 21 | 0 | 165 | 7 | 3 | 1 | 0 | 11 | 271 |
| 05:00 PM | 33 | 60 | 2 | 0 | 95 | 0 | 0 | 0 | 0 | 0 | 2 | 151 | 21 | 0 | 174 | 6 | 16 | 0 | 0 | 22 | 291 |
| 05:15 PM | 26 | 56 | 3 | 0 | 85 | 0 | 0 | 0 | 0 | 0 | 3 | 168 | 18 | 0 | 189 | 4 | 7 | 2 | 0 | 13 | 287 |
| 05:30 PM | 31 | 59 | 4 | 0 | 94 | 0 | 0 | 0 | 0 | 0 | 3 | 143 | 21 | 0 | 167 | 5 | 10 | 0 | 0 | 15 | 276 |
| Total Volume | 121 | 237 | 11 | 0 | 369 | 0 | 0 | 0 | 0 | 0 | 8 | 606 | 81 | 0 | 695 | 22 | 36 | 3 | 0 | 61 | 1125 |
| % App. Total | 32.8 | 64.2 | 3 | 0 | | 0 | 0 | 0 | 0 | | 1.2 | 87.2 | 11.7 | 0 | | 36.1 | 59 | 4.9 | 0 | | |
| PHF | .917 | .956 | .688 | .000 | .971 | .000 | .000 | .000 | .000 | | .667 | .902 | .964 | .000 | .919 | .786 | .563 | .375 | .000 | .693 | .966 |
| Cars | 118 | 233 | 11 | 0 | 362 | 0 | 0 | 0 | 0 | | 8 | 598 | 79 | 0 | 685 | 22 | 36 | 3 | 0 | 61 | 1108 |
| % Cars | 97.5 | 98.3 | 100 | 0 | 98.1 | 0 | 0 | 0 | 0 | | 100 | 98.7 | 97.5 | 0 | 98.6 | 100 | 100 | 100 | 0 | 100 | 98.5 |
| Buses | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 5 |
| % Buses | 0.8 | 0.4 | 0 | 0 | 0.5 | 0 | 0 | 0 | 0 | | 0 | 0.3 | 1.2 | 0 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0.4 |
| Trucks | 2 | 3 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | | 0 | 6 | 1 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 12 |
| % Trucks | 1.7 | 1.3 | 0 | 0 | 1.4 | 0 | 0 | 0 | 0 | | 0 | 1.0 | 1.2 | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 | 1.1 |



Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

"2022 ... Data Collection simplified"

Partly Sunny
Schools in Session
Wednesday - 9XO

File Name : 4_Barret_Avenue_at_E_Kentucky_Street_11-30-2022
Site Code : Site 4
Start Date : 11/30/2022
Page No : 1

Groups Printed- Cars - Buses - Trucks

| | Barret Avenue From North | | | | | Hepburn Avenue From East | | | | | Barret Avenue From South | | | | | E Kentucky Street From West | | | | | |
|-------------|-----------------------------|------|-------|--------|------------|-----------------------------|------|-------|--------|------------|-----------------------------|------|-------|--------|------------|--------------------------------|------|-------|--------|------------|------------|
| Start Time | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Int. Total |
| 07:00 AM | 1 | 40 | 0 | 0 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 96 | 2 | 0 | 98 | 5 | 1 | 7 | 0 | 13 | 152 |
| 07:15 AM | 1 | 62 | 0 | 0 | 63 | 3 | 0 | 5 | 0 | 8 | 0 | 145 | 4 | 0 | 149 | 19 | 2 | 9 | 0 | 30 | 250 |
| 07:30 AM | 0 | 65 | 0 | 0 | 65 | 1 | 0 | 1 | 0 | 2 | 0 | 135 | 3 | 0 | 138 | 7 | 2 | 13 | 0 | 22 | 227 |
| 07:45 AM | 0 | 45 | 0 | 1 | 46 | 1 | 0 | 8 | 0 | 9 | 0 | 146 | 3 | 0 | 149 | 5 | 1 | 12 | 0 | 18 | 222 |
| Total | 2 | 212 | 0 | 1 | 215 | 5 | 0 | 14 | 0 | 19 | 0 | 522 | 12 | 0 | 534 | 36 | 6 | 41 | 0 | 83 | 851 |
| 08:00 AM | 0 | 41 | 0 | 0 | 41 | 2 | 0 | 3 | 0 | 5 | 0 | 157 | 2 | 0 | 159 | 4 | 1 | 14 | 0 | 19 | 224 |
| 08:15 AM | 0 | 37 | 0 | 0 | 37 | 0 | 0 | 1 | 0 | 1 | 0 | 135 | 3 | 0 | 138 | 11 | 1 | 14 | 0 | 26 | 202 |
| 08:30 AM | 0 | 39 | 0 | 0 | 39 | 0 | 0 | 2 | 0 | 2 | 0 | 128 | 1 | 0 | 129 | 9 | 0 | 17 | 0 | 26 | 196 |
| 08:45 AM | 2 | 33 | 0 | 0 | 35 | 1 | 0 | 2 | 0 | 3 | 0 | 135 | 1 | 0 | 136 | 8 | 0 | 21 | 0 | 29 | 203 |
| Total | 2 | 150 | 0 | 0 | 152 | 3 | 0 | 8 | 0 | 11 | 0 | 555 | 7 | 0 | 562 | 32 | 2 | 66 | 0 | 100 | 825 |
| 04:00 PM | 5 | 129 | 0 | 0 | 134 | 4 | 0 | 7 | 0 | 11 | 0 | 100 | 6 | 0 | 106 | 11 | 2 | 45 | 0 | 58 | 309 |
| 04:15 PM | 0 | 117 | 0 | 0 | 117 | 2 | 0 | 5 | 0 | 7 | 0 | 85 | 3 | 0 | 88 | 14 | 3 | 38 | 0 | 55 | 267 |
| 04:30 PM | 3 | 129 | 0 | 0 | 132 | 0 | 0 | 12 | 0 | 12 | 0 | 83 | 1 | 0 | 84 | 11 | 2 | 43 | 0 | 56 | 284 |
| 04:45 PM | 1 | 149 | 0 | 0 | 150 | 1 | 0 | 5 | 0 | 6 | 0 | 90 | 3 | 0 | 93 | 4 | 4 | 29 | 0 | 37 | 286 |
| Total | 9 | 524 | 0 | 0 | 533 | 7 | 0 | 29 | 0 | 36 | 0 | 358 | 13 | 0 | 371 | 40 | 11 | 155 | 0 | 206 | 1146 |
| 05:00 PM | 4 | 154 | 0 | 0 | 158 | 0 | 0 | 6 | 0 | 6 | 0 | 77 | 5 | 0 | 82 | 15 | 3 | 37 | 0 | 55 | 301 |
| 05:15 PM | 6 | 169 | 0 | 0 | 175 | 0 | 0 | 4 | 0 | 4 | 0 | 84 | 2 | 0 | 86 | 5 | 0 | 23 | 0 | 28 | 293 |
| 05:30 PM | 7 | 143 | 0 | 0 | 150 | 1 | 0 | 2 | 0 | 3 | 0 | 79 | 2 | 0 | 81 | 12 | 2 | 40 | 0 | 54 | 288 |
| 05:45 PM | 5 | 141 | 0 | 0 | 146 | 1 | 0 | 7 | 0 | 8 | 0 | 106 | 5 | 0 | 111 | 8 | 3 | 21 | 0 | 32 | 297 |
| Total | 22 | 607 | 0 | 0 | 629 | 2 | 0 | 19 | 0 | 21 | 0 | 346 | 14 | 0 | 360 | 40 | 8 | 121 | 0 | 169 | 1179 |
| Grand Total | 35 | 1493 | 0 | 1 | 1529 | 17 | 0 | 70 | 0 | 87 | 0 | 1781 | 46 | 0 | 1827 | 148 | 27 | 383 | 0 | 558 | 4001 |
| Apprch % | 2.3 | 97.6 | 0 | 0.1 | 19.5 | 0 | 0 | 80.5 | 0 | 0 | 0 | 97.5 | 2.5 | 0 | 26.5 | 4.8 | 68.6 | 0 | | | |
| Total % | 0.9 | 37.3 | 0 | 0 | 38.2 | 0.4 | 0 | 1.7 | 0 | 2.2 | 0 | 44.5 | 1.1 | 0 | 45.7 | 3.7 | 0.7 | 9.6 | 0 | 13.9 | |
| Cars | 34 | 1477 | 0 | 1 | 1512 | 16 | 0 | 70 | 0 | 86 | 0 | 1740 | 46 | 0 | 1786 | 145 | 27 | 374 | 0 | 546 | 3930 |
| % Cars | 97.1 | 98.9 | 0 | 100 | 98.9 | 94.1 | 0 | 100 | 0 | 98.9 | 0 | 97.7 | 100 | 0 | 97.8 | 98 | 100 | 97.7 | 0 | 97.8 | 98.2 |
| Buses | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 26 | 0 | 0 | 3 | 0 | 3 | 41 |
| % Buses | 0 | 0.8 | 0 | 0 | 0.8 | 0 | 0 | 0 | 0 | 0 | 0 | 1.5 | 0 | 0 | 1.4 | 0 | 0 | 0.8 | 0 | 0.5 | 1 |
| Trucks | 1 | 4 | 0 | 0 | 5 | 1 | 0 | 0 | 0 | 1 | 0 | 15 | 0 | 0 | 15 | 3 | 0 | 6 | 0 | 9 | 30 |
| % Trucks | 2.9 | 0.3 | 0 | 0 | 0.3 | 5.9 | 0 | 0 | 0 | 1.1 | 0 | 0.8 | 0 | 0 | 0.8 | 2 | 0 | 1.6 | 0 | 1.6 | 0.7 |

Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

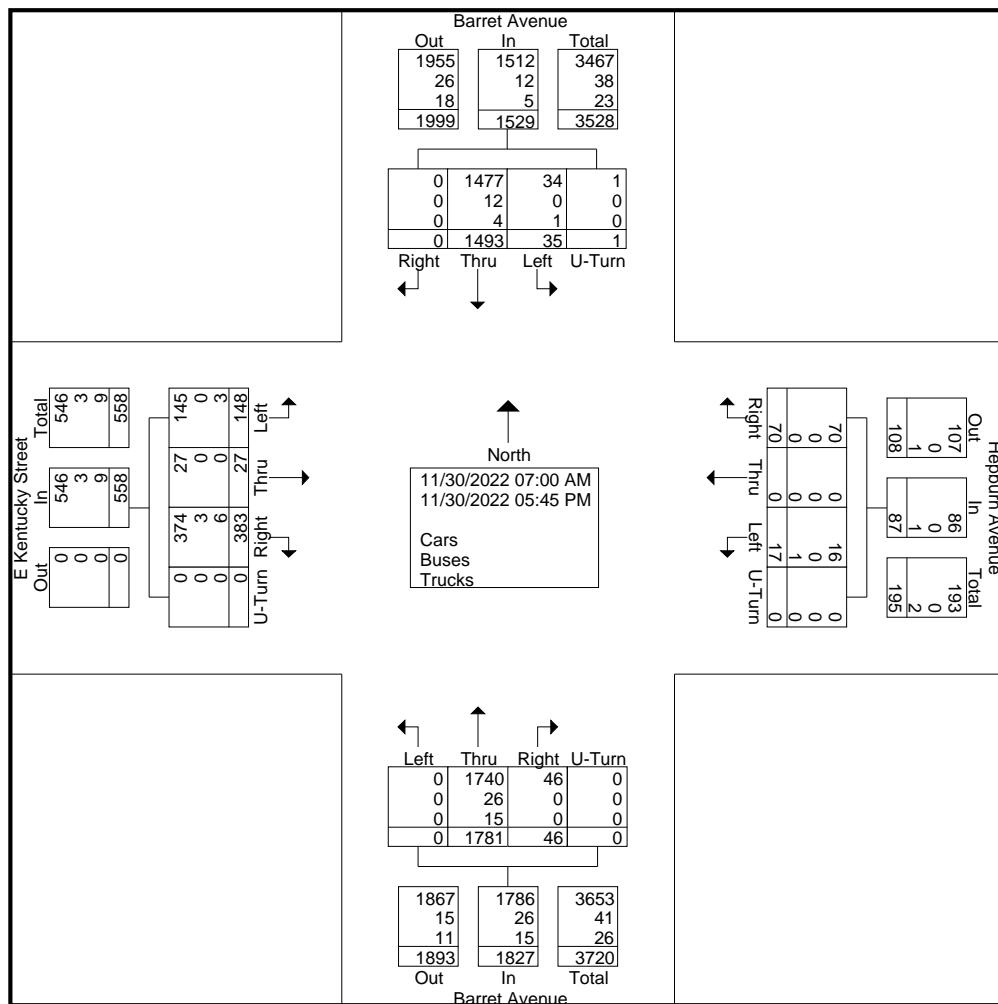
"2022 ... Data Collection simplified"

File Name : 4_Barret_Avenue_at_E_Kentucky_Street_11-30-2022

Site Code : Site 4

Start Date : 11/30/2022

Page No : 2



Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

"2022 ... Data Collection simplified"

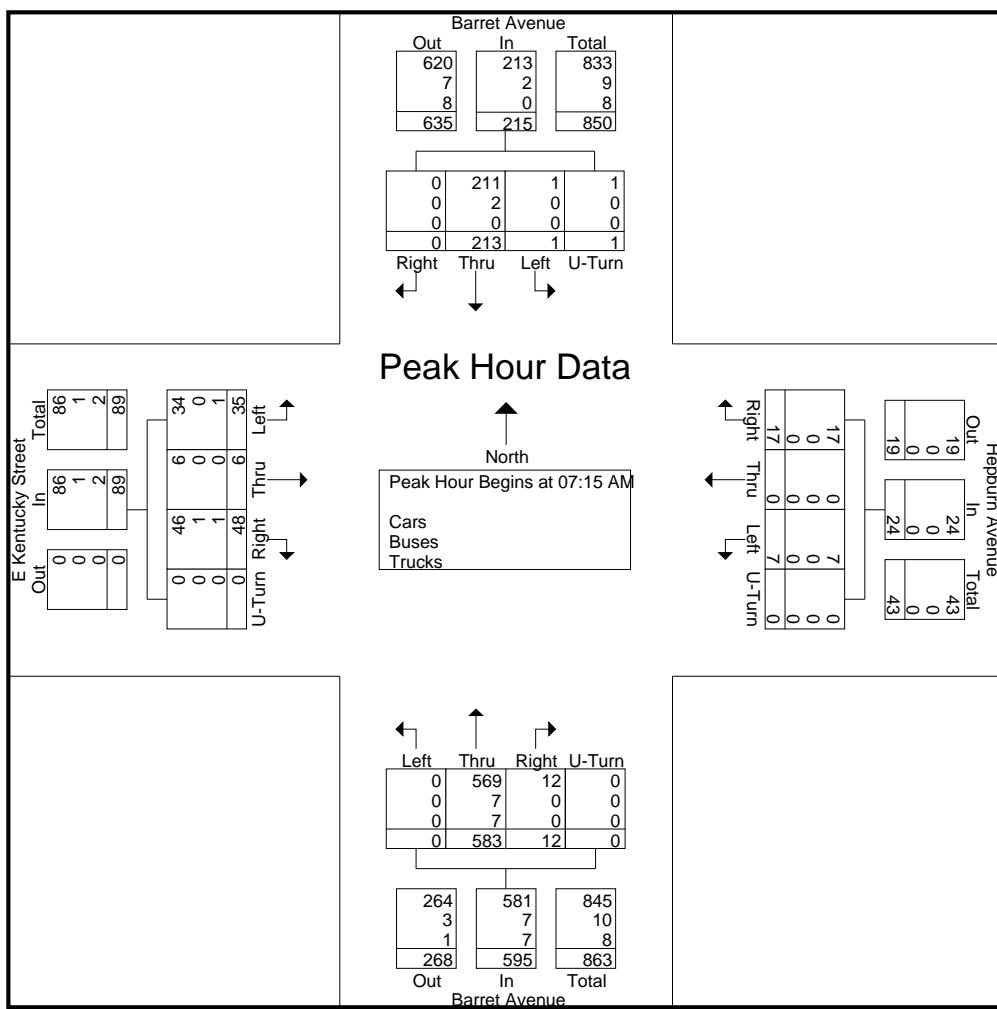
File Name : 4_Barret_Avenue_at_E_Kentucky_Street_11-30-2022

Site Code : Site 4

Start Date : 11/30/2022

Page No : 3

| | Barret Avenue From North | | | | | Hepburn Avenue From East | | | | | Barret Avenue From South | | | | | E Kentucky Street From West | | | | | |
|---|-----------------------------|------|-------|--------|------------|-----------------------------|------|-------|--------|------------|-----------------------------|------|-------|--------|------------|--------------------------------|------|-------|--------|------------|------------|
| Start Time | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | | | | | | | | | | | | |
| 07:15 AM | 1 | 62 | 0 | 0 | 63 | 3 | 0 | 5 | 0 | 8 | 0 | 145 | 4 | 0 | 149 | 19 | 2 | 9 | 0 | 30 | 250 |
| 07:30 AM | 0 | 65 | 0 | 0 | 65 | 1 | 0 | 1 | 0 | 2 | 0 | 135 | 3 | 0 | 138 | 7 | 2 | 13 | 0 | 22 | 227 |
| 07:45 AM | 0 | 45 | 0 | 1 | 46 | 1 | 0 | 8 | 0 | 9 | 0 | 146 | 3 | 0 | 149 | 5 | 1 | 12 | 0 | 18 | 222 |
| 08:00 AM | 0 | 41 | 0 | 0 | 41 | 2 | 0 | 3 | 0 | 5 | 0 | 157 | 2 | 0 | 159 | 4 | 1 | 14 | 0 | 19 | 224 |
| Total Volume | 1 | 213 | 0 | 1 | 215 | 7 | 0 | 17 | 0 | 24 | 0 | 583 | 12 | 0 | 595 | 35 | 6 | 48 | 0 | 89 | 923 |
| % App. Total | 0.5 | 99.1 | 0 | 0.5 | | 29.2 | 0 | 70.8 | 0 | | 0 | 98 | 2 | 0 | | 39.3 | 6.7 | 53.9 | 0 | | |
| PHF | .250 | .819 | .000 | .250 | .827 | .583 | .000 | .531 | .000 | .667 | .000 | .928 | .750 | .000 | .936 | .461 | .750 | .857 | .000 | .742 | .923 |
| Cars | 1 | 211 | 0 | 1 | 213 | 7 | 0 | 17 | 0 | 24 | 0 | 569 | 12 | 0 | 581 | 34 | 6 | 46 | 0 | 86 | 904 |
| % Cars | 100 | 99.1 | 0 | 100 | 99.1 | 100 | 0 | 100 | 0 | 100 | 0 | 97.6 | 100 | 0 | 97.6 | 97.1 | 100 | 95.8 | 0 | 96.6 | 97.9 |
| Buses | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 1 | 0 | 1 | 10 |
| % Buses | 0 | 0.9 | 0 | 0 | 0.9 | 0 | 0 | 0 | 0 | 0 | 0 | 1.2 | 0 | 0 | 1.2 | 0 | 0 | 2.1 | 0 | 1.1 | 1.1 |
| Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 1 | 0 | 1 | 0 | 2 | 9 |
| % Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.2 | 0 | 0 | 1.2 | 2.9 | 0 | 2.1 | 0 | 2.2 | 1.0 |



Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

"2022 ... Data Collection simplified"

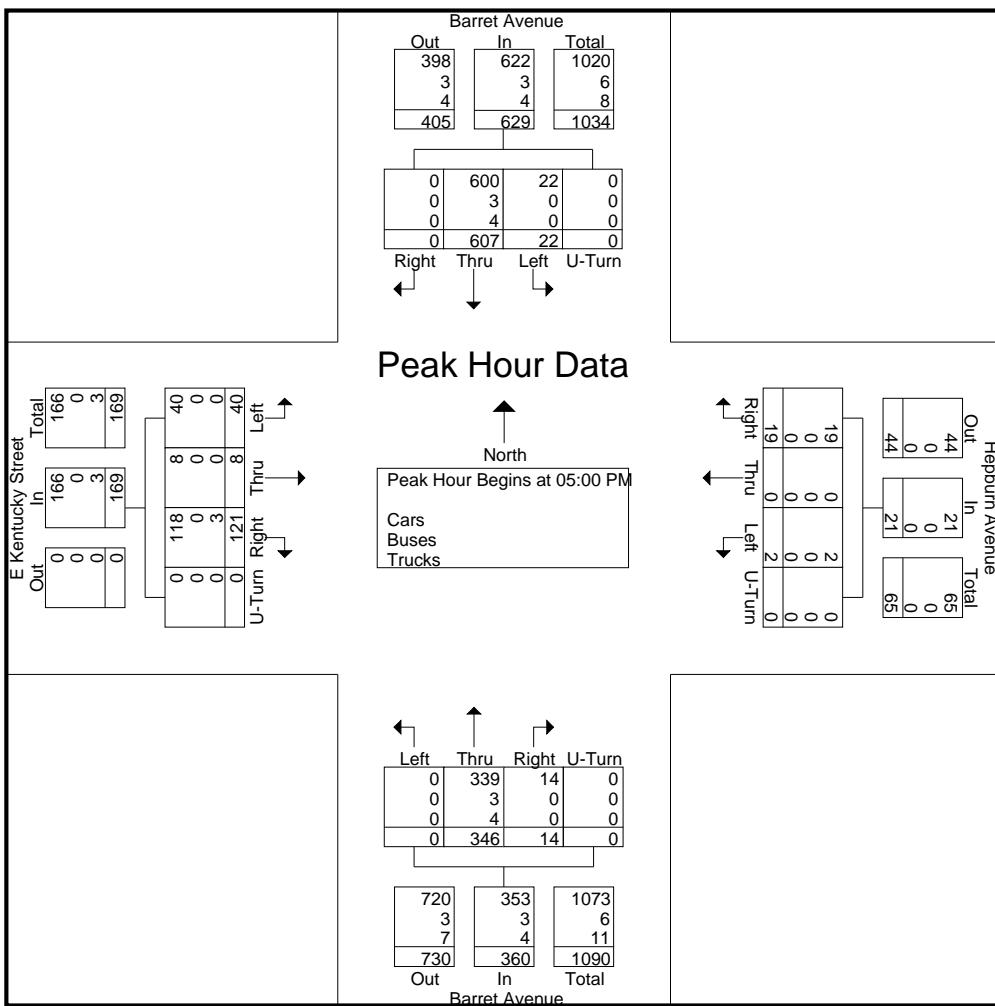
File Name : 4_Barret_Avenue_at_E_Kentucky_Street_11-30-2022

Site Code : Site 4

Start Date : 11/30/2022

Page No : 4

| | Barret Avenue From North | | | | | Hepburn Avenue From East | | | | | Barret Avenue From South | | | | | E Kentucky Street From West | | | | | |
|--|-----------------------------|-------|-------|--------|------------|-----------------------------|-------|-------|--------|------------|-----------------------------|-------|-------|--------|------------|--------------------------------|-------|-------|--------|------------|------------|
| Start Time | Left | Thr u | Right | U-Turn | App. Total | Left | Thr u | Right | U-Turn | App. Total | Left | Thr u | Right | U-Turn | App. Total | Left | Thr u | Right | U-Turn | App. Total | Int. Total |
| Peak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | | | | | |
| 05:00 PM | 4 | 154 | 0 | 0 | 158 | 0 | 0 | 6 | 0 | 6 | 0 | 77 | 5 | 0 | 82 | 15 | 3 | 37 | 0 | 55 | 301 |
| 05:15 PM | 6 | 169 | 0 | 0 | 175 | 0 | 0 | 4 | 0 | 4 | 0 | 84 | 2 | 0 | 86 | 5 | 0 | 23 | 0 | 28 | 293 |
| 05:30 PM | 7 | 143 | 0 | 0 | 150 | 1 | 0 | 2 | 0 | 3 | 0 | 79 | 2 | 0 | 81 | 12 | 2 | 40 | 0 | 54 | 288 |
| 05:45 PM | 5 | 141 | 0 | 0 | 146 | 1 | 0 | 7 | 0 | 8 | 0 | 106 | 5 | 0 | 111 | 8 | 3 | 21 | 0 | 32 | 297 |
| Total Volume | 22 | 607 | 0 | 0 | 629 | 2 | 0 | 19 | 0 | 21 | 0 | 346 | 14 | 0 | 360 | 40 | 8 | 121 | 0 | 169 | 1179 |
| % App. Total | 3.5 | 96.5 | 0 | 0 | | 9.5 | 0 | 90.5 | 0 | | 0 | 96.1 | 3.9 | 0 | | 23.7 | 4.7 | 71.6 | 0 | | |
| PHF | .786 | .898 | .000 | .000 | .899 | .500 | .000 | .679 | .000 | .656 | .000 | .816 | .700 | .000 | .811 | .667 | .667 | .756 | .000 | .768 | .979 |
| Cars | 22 | 600 | 0 | 0 | 622 | 2 | 0 | 19 | 0 | 21 | 0 | 339 | 14 | 0 | 353 | 40 | 8 | 118 | 0 | 166 | 1162 |
| % Cars | 100 | 98.8 | 0 | 0 | 98.9 | 100 | 0 | 100 | 0 | 100 | 0 | 98.0 | 100 | 0 | 98.1 | 100 | 100 | 97.5 | 0 | 98.2 | 98.6 |
| Buses | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 6 |
| % Buses | 0 | 0.5 | 0 | 0 | 0.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0.9 | 0 | 0 | 0.8 | 0 | 0 | 0 | 0 | 0 | 0.5 |
| Trucks | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 3 | 0 | 11 |
| % Trucks | 0 | 0.7 | 0 | 0 | 0.6 | 0 | 0 | 0 | 0 | 0 | 0 | 1.2 | 0 | 0 | 1.1 | 0 | 0 | 2.5 | 0 | 1.8 | 0.9 |



Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

"2022 ... Data Collection simplified"

Partly Sunny
Schools in Session
Wednesday - 9TS

File Name : 5_E_Breckenridge_Street_at_Vine_Street_11-30-2022
Site Code : Site 5
Start Date : 11/30/2022
Page No : 1

| Groups Printed- Cars - Buses - Trucks | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---------------------------|------|-------|--------|------------|------------------------------------|------|-------|--------|------------|---------------------------|------|-------|--------|------------|------------------------------------|------|-------|--------|------------|------------|
| | Vine Street From North | | | | | E Breckenridge Street From East | | | | | Vine Street From South | | | | | E Breckenridge Street From West | | | | | |
| Start Time | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 0 | 49 | 0 | 0 | 49 | 2 | 0 | 0 | 0 | 2 | 55 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 1 | 71 | 1 | 0 | 73 | 1 | 0 | 0 | 0 | 1 | 77 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 3 | 92 | 0 | 0 | 95 | 4 | 1 | 0 | 0 | 5 | 102 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 90 | 3 | 0 | 94 | 4 | 1 | 0 | 0 | 5 | 100 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 2 | 0 | 10 | 5 | 302 | 4 | 0 | 311 | 11 | 2 | 0 | 0 | 13 | 334 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 0 | 74 | 0 | 0 | 74 | 6 | 0 | 0 | 0 | 6 | 84 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 | 1 | 80 | 3 | 0 | 84 | 5 | 1 | 0 | 0 | 6 | 93 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 72 | 2 | 0 | 74 | 2 | 0 | 0 | 0 | 2 | 78 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 2 | 81 | 0 | 0 | 83 | 3 | 0 | 0 | 0 | 3 | 90 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 3 | 0 | 13 | 3 | 307 | 5 | 0 | 315 | 16 | 1 | 0 | 0 | 17 | 345 |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 0 | 7 | 3 | 55 | 5 | 0 | 63 | 1 | 1 | 0 | 0 | 2 | 72 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 4 | 2 | 43 | 2 | 0 | 47 | 2 | 1 | 0 | 0 | 3 | 54 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 5 | 0 | 60 | 3 | 0 | 63 | 0 | 0 | 0 | 0 | 0 | 68 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 4 | 50 | 0 | 0 | 54 | 0 | 0 | 0 | 0 | 0 | 56 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 4 | 1 | 18 | 9 | 208 | 10 | 0 | 227 | 3 | 2 | 0 | 0 | 5 | 250 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 3 | 60 | 2 | 0 | 65 | 3 | 0 | 0 | 0 | 3 | 72 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 2 | 46 | 3 | 0 | 51 | 1 | 3 | 0 | 0 | 4 | 61 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 1 | 52 | 5 | 0 | 58 | 3 | 0 | 0 | 0 | 3 | 66 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 5 | 2 | 48 | 3 | 0 | 53 | 5 | 1 | 0 | 0 | 6 | 64 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 2 | 0 | 20 | 8 | 206 | 13 | 0 | 227 | 12 | 4 | 0 | 0 | 16 | 263 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 49 | 11 | 1 | 61 | 25 | 1023 | 32 | 0 | 1080 | 42 | 9 | 0 | 0 | 51 | 1192 |
| Apprch % | 0 | 0 | 0 | 0 | 0 | 0 | 80.3 | 18 | 1.6 | | 2.3 | 94.7 | 3 | 0 | | 82.4 | 17.6 | 0 | 0 | | |
| Total % | 0 | 0 | 0 | 0 | 0 | 0 | 4.1 | 0.9 | 0.1 | 5.1 | 2.1 | 85.8 | 2.7 | 0 | 90.6 | 3.5 | 0.8 | 0 | 0 | 4.3 | |
| Cars | 0 | 0 | 0 | 0 | 0 | 0 | 46 | 11 | 1 | 58 | 24 | 991 | 31 | 0 | 1046 | 41 | 9 | 0 | 0 | 50 | 1154 |
| % Cars | 0 | 0 | 0 | 0 | 0 | 0 | 93.9 | 100 | 100 | 95.1 | 96 | 96.9 | 96.9 | 0 | 96.9 | 97.6 | 100 | 0 | 0 | 98 | 96.8 |
| Buses | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 27 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 28 |
| % Buses | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2.6 | 0 | 0 | 2.6 | 0 | 0 | 0 | 0 | 0 | 2.3 |
| Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 5 | 1 | 0 | 6 | 1 | 0 | 0 | 0 | 1 | 10 |
| % Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 6.1 | 0 | 0 | 4.9 | 0 | 0.5 | 3.1 | 0 | 0.6 | 2.4 | 0 | 0 | 0 | 2 | 0.8 |

Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

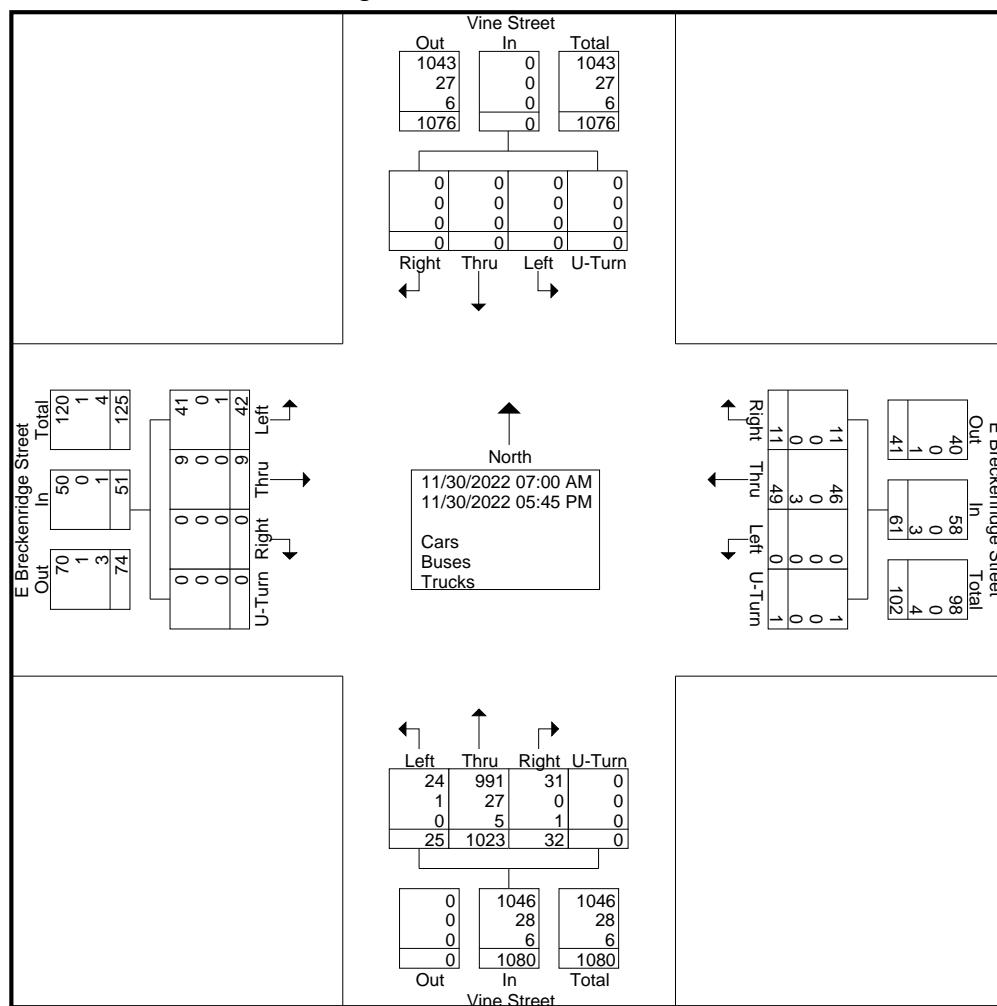
"2022 ... Data Collection simplified"

File Name : 5_E_Breckenridge_Street_at_Vine_Street_11-30-2022

Site Code : Site 5

Start Date : 11/30/2022

Page No : 2



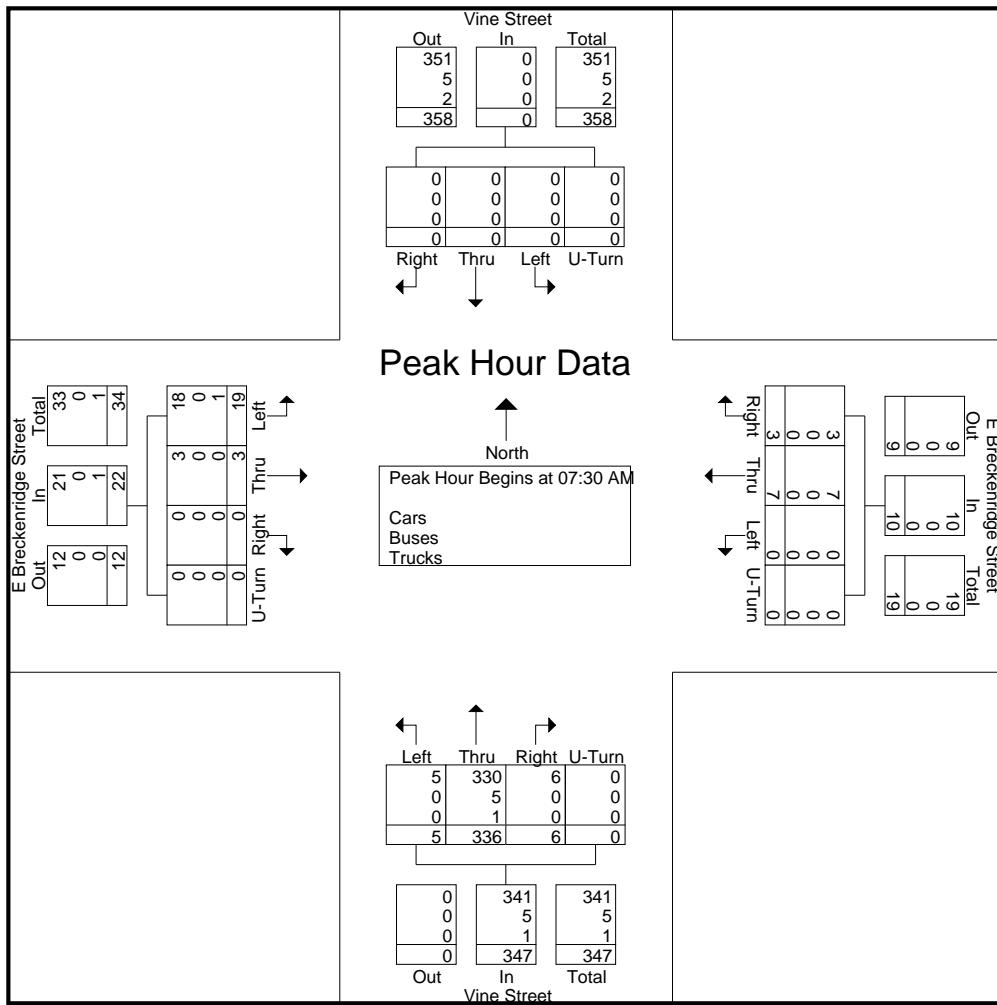
Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

"2022 ... Data Collection simplified"

File Name : 5_E_Breckenridge_Street_at_Vine_Street_11-30-2022
 Site Code : Site 5
 Start Date : 11/30/2022
 Page No : 3

| | Vine Street From North | | | | | E Breckenridge Street From East | | | | | Vine Street From South | | | | | E Breckenridge Street From West | | | | | | |
|--|---------------------------|------|-------|--------|------------|------------------------------------|------|-------|--------|------------|---------------------------|------|-------|--------|------------|------------------------------------|------|-------|--------|------------|------------|-----|
| Start Time | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Int. Total | |
| Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | | | | | | |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 3 | 92 | 0 | 0 | 95 | 4 | 1 | 0 | 0 | 5 | 102 | |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 90 | 3 | 0 | 94 | 4 | 1 | 0 | 0 | 5 | 100 | |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 0 | 74 | 0 | 0 | 74 | 6 | 0 | 0 | 0 | 6 | 84 | |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 | 1 | 80 | 3 | 0 | 84 | 5 | 1 | 0 | 0 | 6 | 93 | |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 3 | 0 | 10 | 5 | 336 | 6 | 0 | 347 | 19 | 3 | 0 | 0 | 22 | 379 | |
| % App. Total | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 30 | 0 | 1.4 | 96.8 | 1.7 | 0 | 86.4 | 13.6 | 0 | 0 | 0 | 0 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .583 | .750 | .000 | .625 | .417 | .913 | .500 | .000 | .913 | .792 | .750 | .000 | .000 | .917 | .929 | |
| Cars | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 3 | 0 | 10 | 5 | 330 | 6 | 0 | 341 | 18 | 3 | 0 | 0 | 21 | 372 | |
| % Cars | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 0 | 100 | 100 | 98.2 | 100 | 0 | 98.3 | 94.7 | 100 | 0 | 0 | 95.5 | 98.2 | |
| Buses | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 5 | |
| % Buses | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.5 | 0 | 0 | 1.4 | 0 | 0 | 0 | 0 | 0 | 1.3 | |
| Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 2 | |
| % Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.3 | 0 | 0 | 0.3 | 5.3 | 0 | 0 | 0 | 0 | 4.5 | 0.5 |



Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

"2022 ... Data Collection simplified"

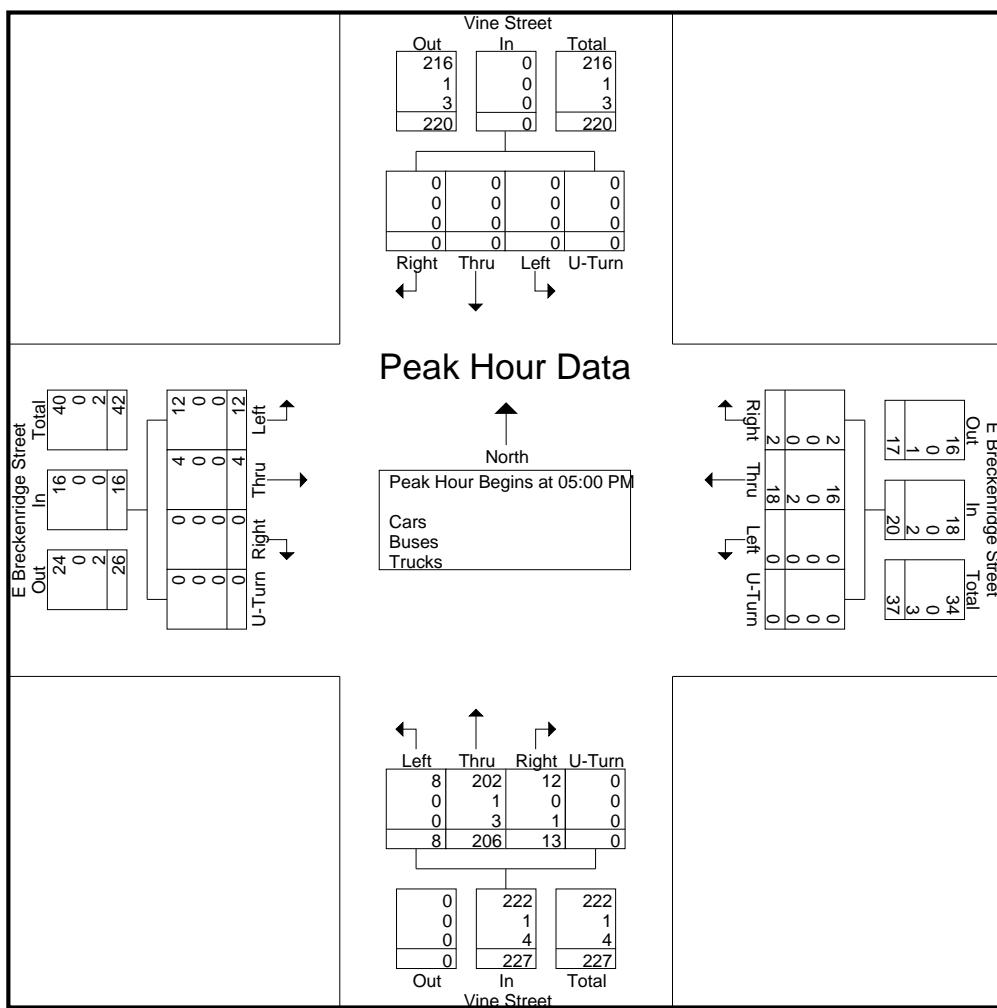
File Name : 5_E_Breckenridge_Street_at_Vine_Street_11-30-2022

Site Code : Site 5

Start Date : 11/30/2022

Page No : 4

| | Vine Street From North | | | | | E Breckenridge Street From East | | | | | Vine Street From South | | | | | E Breckenridge Street From West | | | | | | | | | |
|--|---------------------------|------|------|------|--------|------------------------------------|------|------|------|-------|---------------------------|------------|------|------|------|------------------------------------|--------|------------|------|------|------|-------|--------|------------|------------|
| Start Time | Left | Thr | Rig | ht | U-Turn | App. Total | Left | Thr | u | Right | U-Turn | App. Total | Left | Thr | u | Right | U-Turn | App. Total | Left | Thr | u | Right | U-Turn | App. Total | Int. Total |
| Peak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 3 | 60 | 2 | 0 | 65 | 3 | 0 | 0 | 0 | 3 | 72 | | | |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 2 | 46 | 3 | 0 | 51 | 1 | 3 | 0 | 0 | 4 | 61 | | | |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 1 | 52 | 5 | 0 | 58 | 3 | 0 | 0 | 0 | 3 | 66 | | | |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 5 | 2 | 48 | 3 | 0 | 53 | 5 | 1 | 0 | 0 | 6 | 64 | | | |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 2 | 0 | 20 | 8 | 206 | 13 | 0 | 227 | 12 | 4 | 0 | 0 | 16 | 263 | | | |
| % App. Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90 | 10 | 0 | 3.5 | 90.7 | 5.7 | 0 | 75 | 25 | 0 | 0 | 0 | 0 | 100 | 97.3 | | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .000 | .750 | .500 | .000 | .833 | .667 | .858 | .650 | .000 | .873 | .600 | .333 | .000 | .000 | .667 | .913 | | | | |
| Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 2 | 0 | 18 | 8 | 202 | 12 | 0 | 222 | 12 | 4 | 0 | 0 | 16 | 256 | | | |
| % Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 88.9 | 100 | 0 | 90.0 | 100 | 98.1 | 92.3 | 0 | 97.8 | 100 | 100 | 0 | 0 | 0 | 100 | 97.3 | | |
| Buses | 0 | 0 | 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 | 0 | 0.5 | 0 | 0 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0.4 | | |
| Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 3 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | | |
| % Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11.1 | 0 | 0 | 10.0 | 0 | 1.5 | 7.7 | 0 | 1.8 | 0 | 0 | 0 | 0 | 0 | 0 | 2.3 | | |



Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

"2022 ... Data Collection simplified"

Partly Sunny
Schools in Session
Wednesday - 4GA

File Name : 6_E_Breckenridge_Street_at_Swan_Street_11-30-2022
Site Code : Site 6
Start Date : 11/30/2022
Page No : 1

| Groups Printed- Cars - Buses - Trucks | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---------------------------|------|-------|--------|------------|------------------------------------|------|-------|--------|------------|---------------------------|------|-------|--------|------------|------------------------------------|------|-------|--------|------------|------------|
| | Swan Street From North | | | | | E Breckenridge Street From East | | | | | Swan Street From South | | | | | E Breckenridge Street From West | | | | | |
| Start Time | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Int. Total |
| 07:00 AM | 0 | 1 | 1 | 0 | 2 | 1 | 60 | 1 | 0 | 62 | 8 | 2 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 74 |
| 07:15 AM | 0 | 0 | 2 | 0 | 2 | 1 | 87 | 0 | 0 | 88 | 7 | 2 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 99 |
| 07:30 AM | 0 | 2 | 0 | 0 | 2 | 0 | 102 | 2 | 0 | 104 | 4 | 1 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 111 |
| 07:45 AM | 0 | 0 | 2 | 0 | 2 | 0 | 100 | 0 | 0 | 100 | 8 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 110 |
| Total | 0 | 3 | 5 | 0 | 8 | 2 | 349 | 3 | 0 | 354 | 27 | 5 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 394 |
| 08:00 AM | 0 | 0 | 2 | 0 | 2 | 3 | 87 | 1 | 0 | 91 | 7 | 4 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 104 |
| 08:15 AM | 0 | 0 | 3 | 0 | 3 | 3 | 92 | 0 | 0 | 95 | 5 | 2 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 105 |
| 08:30 AM | 0 | 1 | 4 | 0 | 5 | 2 | 82 | 0 | 0 | 84 | 8 | 1 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 98 |
| 08:45 AM | 0 | 1 | 1 | 0 | 2 | 0 | 99 | 0 | 0 | 99 | 4 | 3 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 108 |
| Total | 0 | 2 | 10 | 0 | 12 | 8 | 360 | 1 | 0 | 369 | 24 | 10 | 0 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 415 |
| 04:00 PM | 0 | 3 | 7 | 0 | 10 | 7 | 54 | 1 | 0 | 62 | 5 | 3 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 80 |
| 04:15 PM | 0 | 2 | 3 | 0 | 5 | 2 | 47 | 4 | 0 | 53 | 10 | 0 | 1 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 69 |
| 04:30 PM | 0 | 5 | 3 | 0 | 8 | 6 | 59 | 2 | 0 | 67 | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 80 |
| 04:45 PM | 0 | 1 | 8 | 0 | 9 | 2 | 47 | 1 | 0 | 50 | 3 | 2 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 64 |
| Total | 0 | 11 | 21 | 0 | 32 | 17 | 207 | 8 | 0 | 232 | 23 | 5 | 1 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 293 |
| 05:00 PM | 0 | 6 | 4 | 0 | 10 | 7 | 65 | 3 | 0 | 75 | 5 | 3 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 93 |
| 05:15 PM | 0 | 4 | 4 | 0 | 8 | 4 | 49 | 1 | 0 | 54 | 9 | 4 | 2 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 77 |
| 05:30 PM | 0 | 2 | 4 | 0 | 6 | 3 | 51 | 1 | 0 | 55 | 9 | 5 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 75 |
| 05:45 PM | 0 | 2 | 3 | 0 | 5 | 1 | 51 | 0 | 0 | 52 | 0 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 60 |
| Total | 0 | 14 | 15 | 0 | 29 | 15 | 216 | 5 | 0 | 236 | 23 | 13 | 4 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 305 |
| Grand Total | 0 | 30 | 51 | 0 | 81 | 42 | 1132 | 17 | 0 | 1191 | 97 | 33 | 5 | 0 | 135 | 0 | 0 | 0 | 0 | 0 | 1407 |
| Apprch % | 0 | 37 | 63 | 0 | 0 | 3.5 | 95 | 1.4 | 0 | 0 | 71.9 | 24.4 | 3.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total % | 0 | 2.1 | 3.6 | 0 | 5.8 | 3 | 80.5 | 1.2 | 0 | 84.6 | 6.9 | 2.3 | 0.4 | 0 | 9.6 | 0 | 0 | 0 | 0 | 0 | |
| Cars | 0 | 30 | 51 | 0 | 81 | 42 | 1094 | 17 | 0 | 1153 | 94 | 33 | 5 | 0 | 132 | 0 | 0 | 0 | 0 | 0 | 1366 |
| % Cars | 0 | 100 | 100 | 0 | 100 | 100 | 96.6 | 100 | 0 | 96.8 | 96.9 | 100 | 100 | 0 | 97.8 | 0 | 0 | 0 | 0 | 0 | 97.1 |
| Buses | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| % Buses | 0 | 0 | 0 | 0 | 0 | 0 | 2.6 | 0 | 0 | 2.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.1 |
| Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 12 |
| % Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0.8 | 0 | 0 | 0.8 | 3.1 | 0 | 0 | 0 | 2.2 | 0 | 0 | 0 | 0 | 0 | 0.9 |

Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

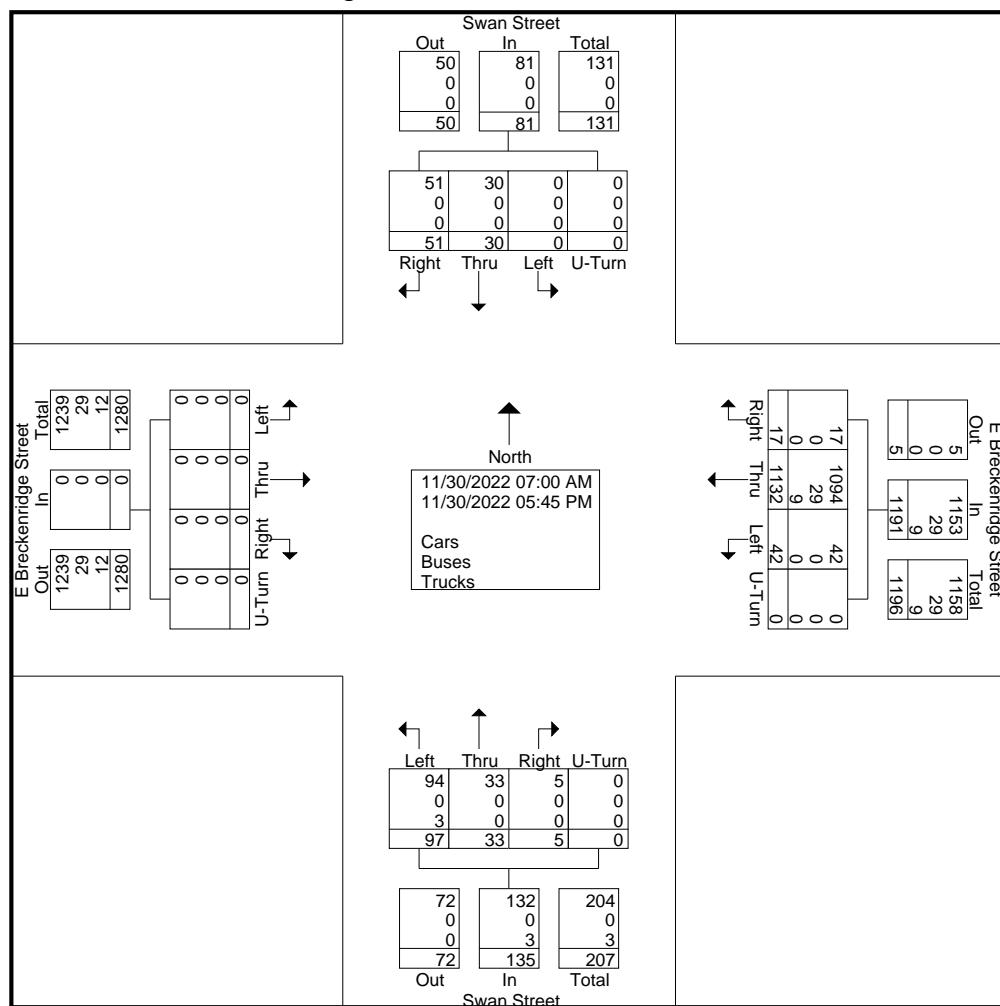
"2022 ... Data Collection simplified"

File Name : 6_E_Breckenridge_Street_at_Swan_Street_11-30-2022

Site Code : Site 6

Start Date : 11/30/2022

Page No : 2



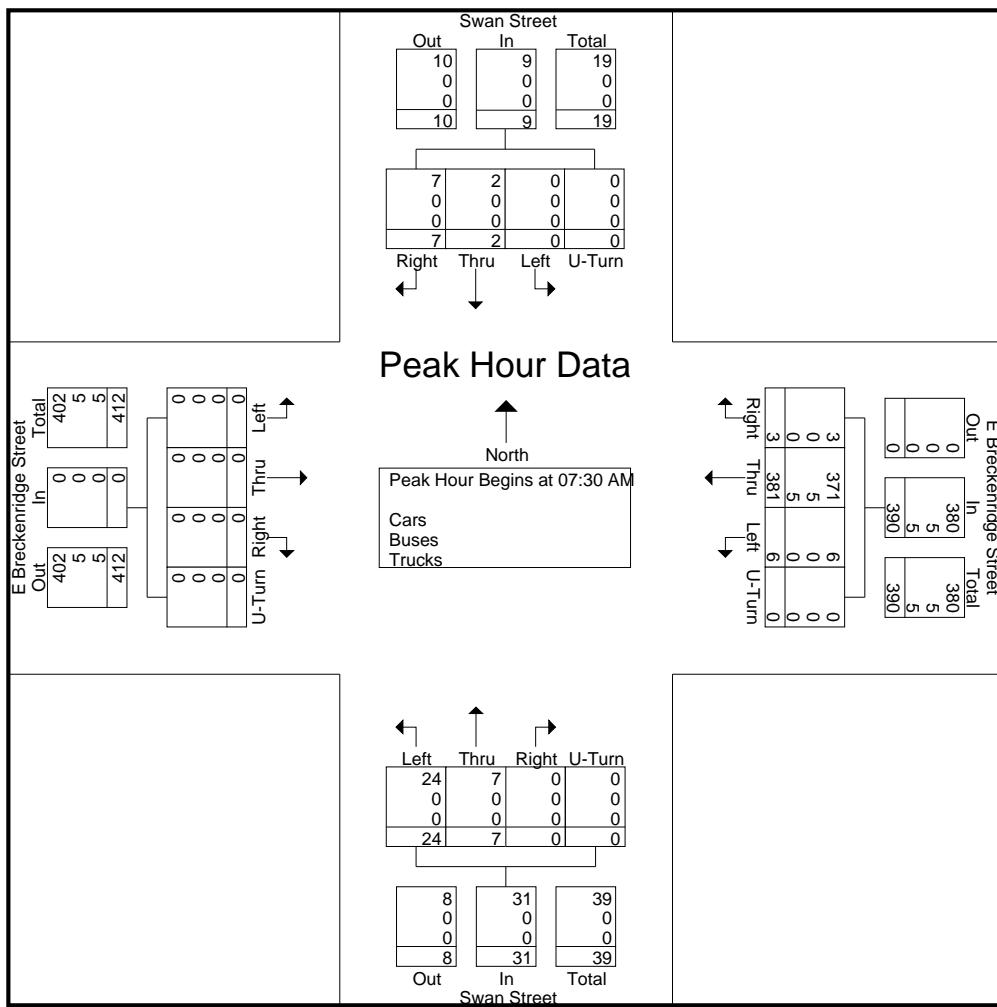
Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

"2022 ... Data Collection simplified"

File Name : 6_E_Breckenridge_Street_at_Swan_Street_11-30-2022
 Site Code : Site 6
 Start Date : 11/30/2022
 Page No : 3

| | Swan Street From North | | | | | E Breckenridge Street From East | | | | | Swan Street From South | | | | | E Breckenridge Street From West | | | | | |
|--|---------------------------|------|-------|--------|------------|------------------------------------|------|-------|--------|------------|---------------------------|------|-------|--------|------------|------------------------------------|------|-------|--------|------------|------------|
| Start Time | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | | | | | |
| 07:30 AM | 0 | 2 | 0 | 0 | 2 | 0 | 102 | 2 | 0 | 104 | 4 | 1 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 111 |
| 07:45 AM | 0 | 0 | 2 | 0 | 2 | 0 | 100 | 0 | 0 | 100 | 8 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 110 |
| 08:00 AM | 0 | 0 | 2 | 0 | 2 | 3 | 87 | 1 | 0 | 91 | 7 | 4 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 104 |
| 08:15 AM | 0 | 0 | 3 | 0 | 3 | 3 | 92 | 0 | 0 | 95 | 5 | 2 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 105 |
| Total Volume | 0 | 2 | 7 | 0 | 9 | 6 | 381 | 3 | 0 | 390 | 24 | 7 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 430 |
| % App. Total | 0 | 22.2 | 77.8 | 0 | | 1.5 | 97.7 | 0.8 | 0 | | 77.4 | 22.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PHF | .000 | .250 | .583 | .000 | .750 | .500 | .934 | .375 | .000 | .938 | .750 | .438 | .000 | .000 | .705 | .000 | .000 | .000 | .000 | .968 | |
| Cars | 0 | 2 | 7 | 0 | 9 | 6 | 371 | 3 | 0 | 380 | 24 | 7 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 420 |
| % Cars | 0 | 100 | 100 | 0 | 100 | 100 | 97.4 | 100 | 0 | 97.4 | 100 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 97.7 |
| Buses | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| % Buses | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.3 | 0 | 0 | 1.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.2 |
| Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| % Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 1.3 | 0 | 0 | 1.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.2 |



Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

"2022 ... Data Collection simplified"

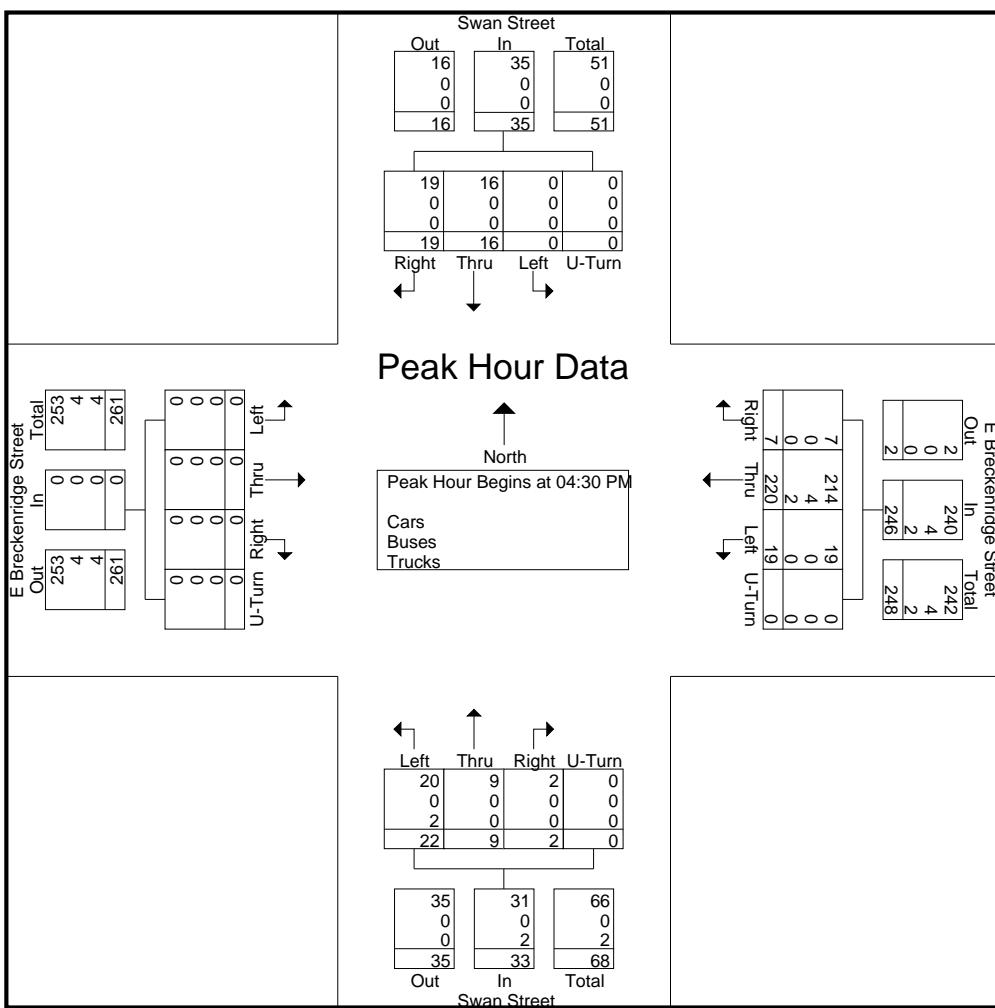
File Name : 6_E_Breckenridge_Street_at_Swan_Street_11-30-2022

Site Code : Site 6

Start Date : 11/30/2022

Page No : 4

| | Swan Street From North | | | | | E Breckenridge Street From East | | | | | Swan Street From South | | | | | E Breckenridge Street From West | | | | | | | | | |
|--|---------------------------|------|------|------|--------|------------------------------------|------|------|------|------|---------------------------|------------|------|------|------|------------------------------------|--------|------------|------|------|------|------|--------|------------|------------|
| Start Time | Left | Thr | Rig | u | U-Turn | App. Total | Left | Thr | Rig | u | U-Turn | App. Total | Left | Thr | Rig | u | U-Turn | App. Total | Left | Thr | Rig | u | U-Turn | App. Total | Int. Total |
| Peak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:30 PM | | | | | | | | | | | | | | | | | | | | | | | | | |
| 04:30 PM | 0 | 5 | 3 | 0 | 8 | 6 | 59 | 2 | 0 | 67 | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| 04:45 PM | 0 | 1 | 8 | 0 | 9 | 2 | 47 | 1 | 0 | 50 | 3 | 2 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 64 |
| 05:00 PM | 0 | 6 | 4 | 0 | 10 | 7 | 65 | 3 | 0 | 75 | 5 | 3 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 93 |
| 05:15 PM | 0 | 4 | 4 | 0 | 8 | 4 | 49 | 1 | 0 | 54 | 9 | 4 | 2 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 77 |
| Total Volume | 0 | 16 | 19 | 0 | 35 | 19 | 220 | 7 | 0 | 246 | 22 | 9 | 2 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 314 |
| % App. Total | 0 | 45.7 | 54.3 | 0 | | 7.7 | 89.4 | 2.8 | 0 | | 66.7 | 27.3 | 6.1 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 97.5 |
| PHF | .000 | .667 | .594 | .000 | .875 | .679 | .846 | .583 | .000 | .820 | .611 | .563 | .250 | .000 | .550 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .844 | |
| Cars | 0 | 16 | 19 | 0 | 35 | 19 | 214 | 7 | 0 | 240 | 20 | 9 | 2 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 306 |
| % Cars | 0 | 100 | 100 | 0 | 100 | 100 | 97.3 | 100 | 0 | 97.6 | 90.9 | 100 | 0 | 0 | 93.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 97.5 |
| Buses | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| % Buses | 0 | 0 | 0 | 0 | 0 | 0 | 1.8 | 0 | 0 | 1.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.3 |
| Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| % Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0.9 | 0 | 0 | 0.8 | 9.1 | 0 | 0 | 0 | 6.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.3 |



Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

"2022 ... Data Collection simplified"

Partly Sunny
Schools in Session
Wednesday - 8FK

File Name : 7_E_Broadway_at_Brent_Street_11-30-2022
Site Code : Site 7
Start Date : 11/30/2022
Page No : 1

| Groups Printed- Cars - Buses - Trucks | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|------------|------|-------|--------|------------|-------------------------|------|-------|--------|------------|----------------------------|------|-------|--------|------------|-------------------------|------|-------|--------|------------|------------|
| | From North | | | | | E Broadway From East | | | | | Brent Street From South | | | | | E Broadway From West | | | | | |
| Start Time | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Int. Total |
| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 118 | 0 | 0 | 118 | 1 | 0 | 1 | 0 | 2 | 0 | 86 | 0 | 0 | 86 | 206 |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 1 | 188 | 0 | 0 | 189 | 3 | 0 | 3 | 0 | 6 | 0 | 86 | 0 | 0 | 86 | 281 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 1 | 215 | 0 | 0 | 216 | 7 | 0 | 5 | 0 | 12 | 0 | 105 | 3 | 0 | 108 | 336 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 2 | 237 | 0 | 0 | 239 | 3 | 0 | 0 | 0 | 3 | 0 | 105 | 5 | 0 | 110 | 352 |
| Total | 0 | 0 | 0 | 0 | 0 | 4 | 758 | 0 | 0 | 762 | 14 | 0 | 9 | 0 | 23 | 0 | 382 | 8 | 0 | 390 | 1175 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 3 | 201 | 0 | 0 | 204 | 1 | 0 | 2 | 0 | 3 | 0 | 88 | 5 | 0 | 93 | 300 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 1 | 222 | 0 | 0 | 223 | 2 | 0 | 3 | 0 | 5 | 0 | 78 | 7 | 0 | 85 | 313 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 5 | 193 | 0 | 0 | 198 | 3 | 0 | 0 | 0 | 3 | 0 | 81 | 4 | 0 | 85 | 286 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 4 | 154 | 0 | 0 | 158 | 2 | 0 | 2 | 0 | 4 | 0 | 101 | 5 | 0 | 106 | 268 |
| Total | 0 | 0 | 0 | 0 | 0 | 13 | 770 | 0 | 0 | 783 | 8 | 0 | 7 | 0 | 15 | 0 | 348 | 21 | 0 | 369 | 1167 |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 1 | 114 | 0 | 0 | 115 | 4 | 0 | 4 | 0 | 8 | 0 | 238 | 15 | 0 | 253 | 376 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 106 | 0 | 0 | 106 | 4 | 0 | 2 | 0 | 6 | 0 | 225 | 10 | 0 | 235 | 347 |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 1 | 103 | 0 | 0 | 104 | 3 | 0 | 1 | 0 | 4 | 0 | 258 | 7 | 0 | 265 | 373 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 3 | 100 | 0 | 0 | 103 | 7 | 0 | 7 | 0 | 14 | 0 | 286 | 0 | 0 | 286 | 403 |
| Total | 0 | 0 | 0 | 0 | 0 | 5 | 423 | 0 | 0 | 428 | 18 | 0 | 14 | 0 | 32 | 0 | 1007 | 32 | 0 | 1039 | 1499 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 1 | 95 | 0 | 0 | 96 | 6 | 0 | 1 | 0 | 7 | 0 | 243 | 8 | 0 | 251 | 354 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 4 | 118 | 0 | 0 | 122 | 1 | 0 | 3 | 0 | 4 | 0 | 333 | 7 | 0 | 340 | 466 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 3 | 109 | 0 | 0 | 112 | 6 | 0 | 9 | 0 | 15 | 0 | 261 | 5 | 0 | 266 | 393 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 2 | 102 | 0 | 0 | 104 | 1 | 0 | 1 | 0 | 2 | 0 | 216 | 4 | 0 | 220 | 326 |
| Total | 0 | 0 | 0 | 0 | 0 | 10 | 424 | 0 | 0 | 434 | 14 | 0 | 14 | 0 | 28 | 0 | 1053 | 24 | 0 | 1077 | 1539 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 32 | 2375 | 0 | 0 | 2407 | 54 | 0 | 44 | 0 | 98 | 0 | 2790 | 85 | 0 | 2875 | 5380 |
| Apprch % | 0 | 0 | 0 | 0 | 0 | 1.3 | 98.7 | 0 | 0 | 0 | 55.1 | 0 | 44.9 | 0 | 0 | 0 | 97 | 3 | 0 | 0 | 0 |
| Total % | 0 | 0 | 0 | 0 | 0 | 0.6 | 44.1 | 0 | 0 | 44.7 | 1 | 0 | 0.8 | 0 | 1.8 | 0 | 51.9 | 1.6 | 0 | 53.4 | 0 |
| Cars | 0 | 0 | 0 | 0 | 0 | 32 | 2319 | 0 | 0 | 2351 | 54 | 0 | 43 | 0 | 97 | 0 | 2726 | 84 | 0 | 2810 | 5258 |
| % Cars | 0 | 0 | 0 | 0 | 0 | 100 | 97.6 | 0 | 0 | 97.7 | 100 | 0 | 97.7 | 0 | 99 | 0 | 97.7 | 98.8 | 0 | 97.7 | 97.7 |
| Buses | 0 | 0 | 0 | 0 | 0 | 0 | 39 | 0 | 0 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 45 | 0 | 0 | 45 | 84 |
| % Buses | 0 | 0 | 0 | 0 | 0 | 0 | 1.6 | 0 | 0 | 1.6 | 0 | 0 | 0 | 0 | 0 | 0 | 1.6 | 0 | 0 | 1.6 | 1.6 |
| Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 17 | 0 | 0 | 1 | 0 | 1 | 0 | 19 | 1 | 0 | 20 | 38 |
| % Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0.7 | 0 | 0 | 0.7 | 0 | 0 | 2.3 | 0 | 1 | 0 | 0.7 | 1.2 | 0 | 0.7 | 0.7 |

Cummins Consulting Services, LLC

swcummins@ccsdata.com 859-361-2589

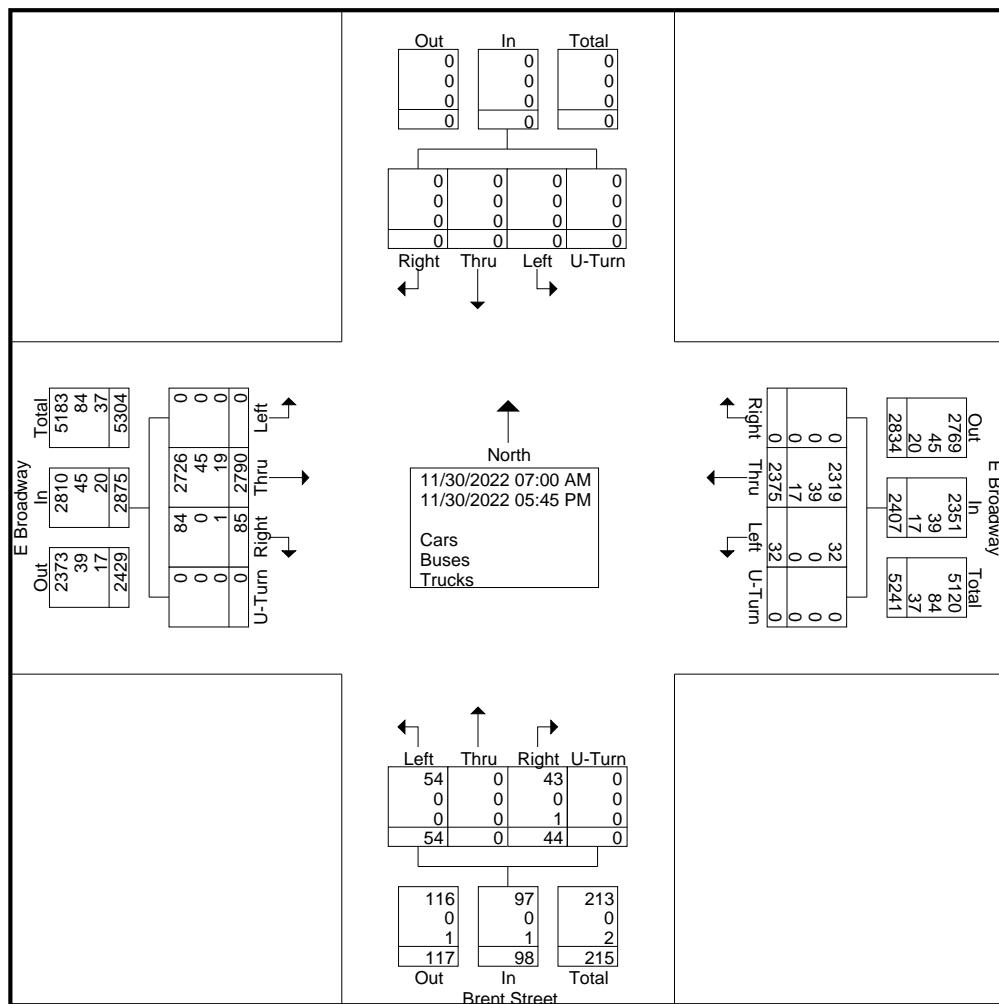
"2022 ... Data Collection simplified"

File Name : 7_E_Broadway_at_Brent_Street_11-30-2022

Site Code : Site 7

Start Date : 11/30/2022

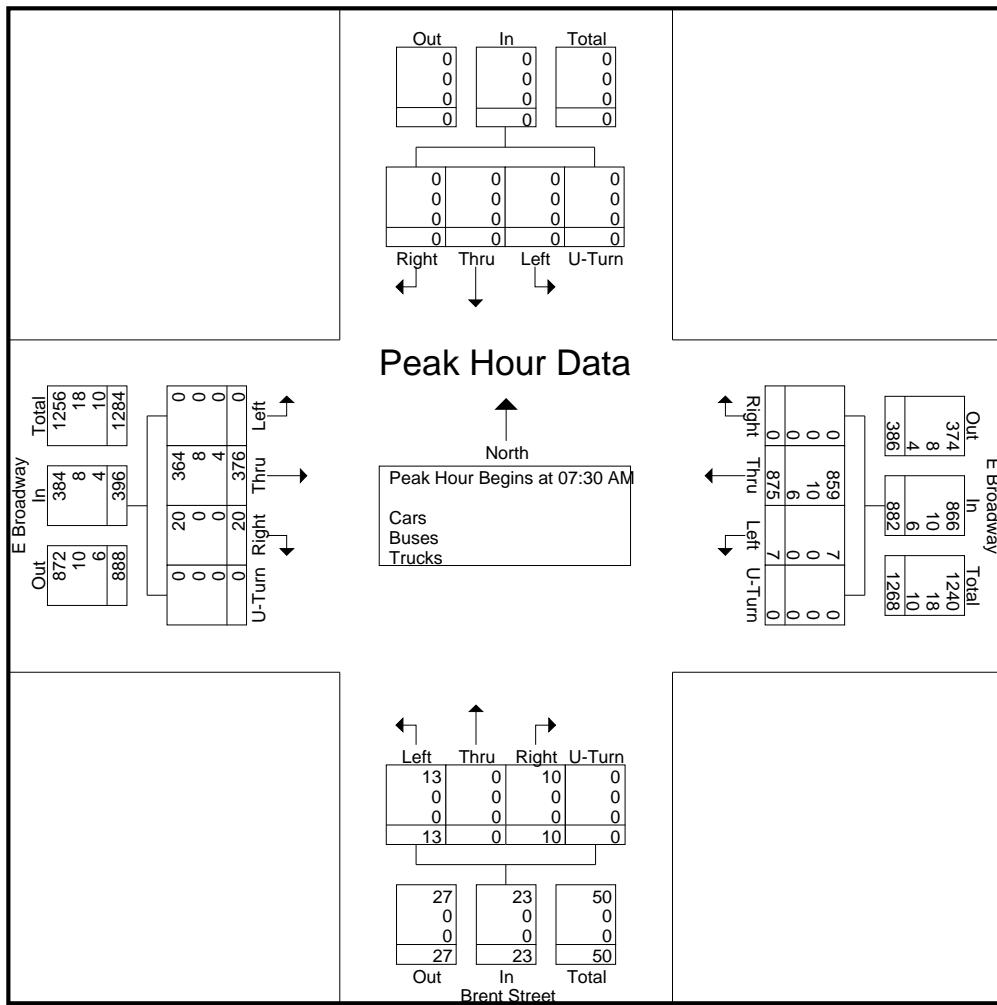
Page No : 2



Cummins Consulting Services, LLC
swcummins@ccsdata.com 859-361-2589
"2022 ... Data Collection simplified"

File Name : 7_E_Broadway_at_Brent_Street_11-30-2022
Site Code : Site 7
Start Date : 11/30/2022
Page No : 3

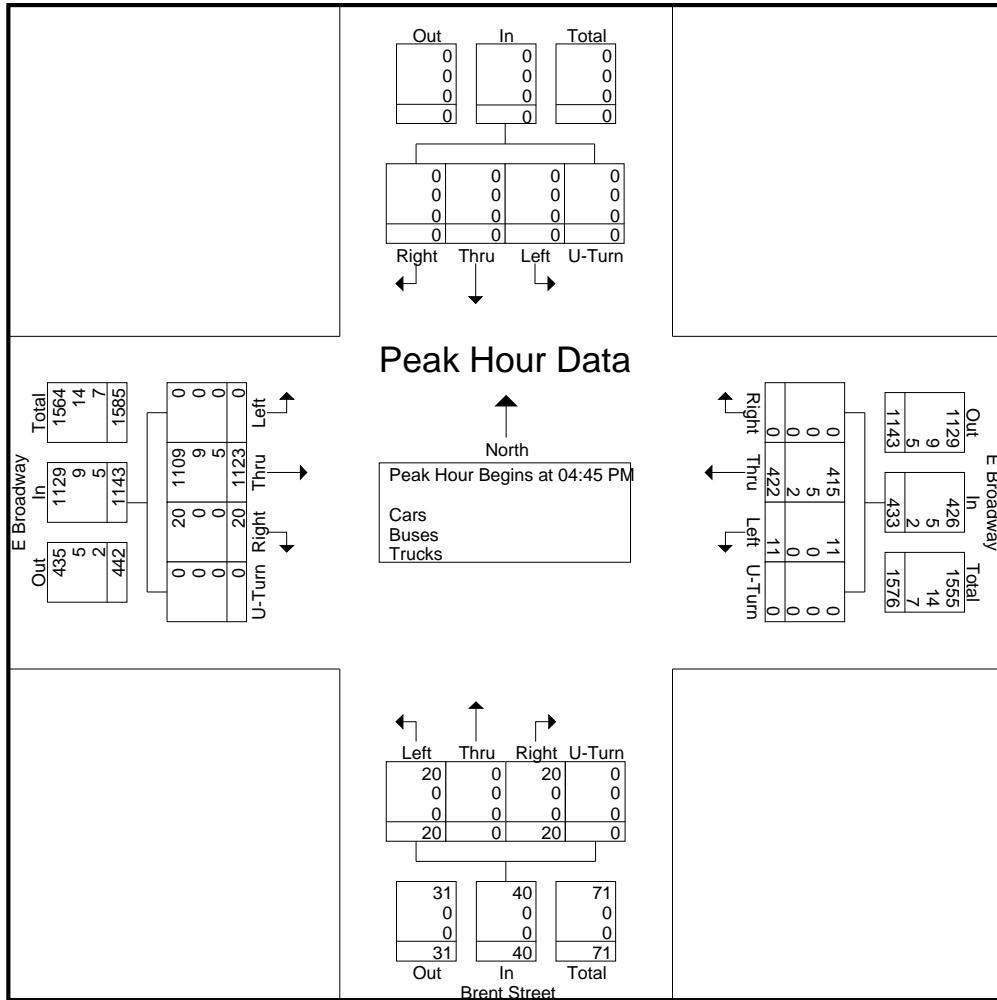
| | From North | | | | | E Broadway From East | | | | | Brent Street From South | | | | | E Broadway From West | | | | | Int. Total | |
|--|------------|------|------|-------|--------|----------------------|------|------|-------|--------|-------------------------|------|------|-------|--------|----------------------|------|------|-------|--------|------------|------|
| | Start Time | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | Left | Thru | Right | U-Turn | App. Total | |
| Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | | | | | | |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 215 | 0 | 0 | 216 | 7 | 0 | 5 | 0 | 12 | 0 | 105 | 3 | 0 | 108 | 336 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 237 | 0 | 0 | 239 | 3 | 0 | 0 | 0 | 3 | 0 | 105 | 5 | 0 | 110 | 352 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 201 | 0 | 0 | 204 | 1 | 0 | 2 | 0 | 3 | 0 | 88 | 5 | 0 | 93 | 300 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 222 | 0 | 0 | 223 | 2 | 0 | 3 | 0 | 5 | 0 | 78 | 7 | 0 | 85 | 313 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 875 | 0 | 0 | 882 | 13 | 0 | 10 | 0 | 23 | 0 | 376 | 20 | 0 | 396 | 1301 |
| % App. Total | 0 | 0 | 0 | 0 | 0 | 0.8 | 99.2 | 0 | 0 | 0 | 56.5 | 0 | 43.5 | 0 | 0 | 0 | 0 | 94.9 | 5.1 | 0 | 0 | 0 |
| PHF | .000 | .000 | .000 | .000 | .000 | .583 | .923 | .000 | .000 | .923 | .464 | .000 | .500 | .000 | .479 | .000 | .895 | .714 | .000 | .900 | .924 | |
| Cars | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 859 | 0 | 0 | 866 | 13 | 0 | 10 | 0 | 23 | 0 | 364 | 20 | 0 | 384 | 1273 |
| % Cars | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 98.2 | 0 | 0 | 98.2 | 100 | 0 | 100 | 0 | 100 | 0 | 96.8 | 100 | 0 | 97.0 | 97.8 |
| Buses | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 | 18 |
| % Buses | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.1 | 0 | 0 | 1.1 | 0 | 0 | 0 | 0 | 0 | 0 | 2.1 | 0 | 0 | 2.0 | 1.4 |
| Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 10 |
| % Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.7 | 0 | 0 | 0.7 | 0 | 0 | 0 | 0 | 0 | 0 | 1.1 | 0 | 0 | 1.0 | 0.8 |



Cummins Consulting Services, LLC
swcummins@ccsdata.com 859-361-2589
"2022 ... Data Collection simplified"

File Name : 7_E_Broadway_at_Brent_Street_11-30-2022
Site Code : Site 7
Start Date : 11/30/2022
Page No : 4

| Start Time | From North | | | | | E Broadway From East | | | | | Brent Street From South | | | | | E Broadway From West | | | | | |
|--|------------|-------|-------|--------|------------|----------------------|-------|-------|--------|------------|-------------------------|-------|-------|--------|------------|----------------------|-------|-------|--------|------------|------------|
| | Left | Thr u | Right | U-Turn | App. Total | Left | Thr u | Right | U-Turn | App. Total | Left | Thr u | Right | U-Turn | App. Total | Left | Thr u | Right | U-Turn | App. Total | Int. Total |
| Peak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:45 PM | | | | | | | | | | | | | | | | | | | | | |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 3 | 100 | 0 | 0 | 103 | 7 | 0 | 7 | 0 | 14 | 0 | 286 | 0 | 0 | 286 | 403 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 1 | 95 | 0 | 0 | 96 | 6 | 0 | 1 | 0 | 7 | 0 | 243 | 8 | 0 | 251 | 354 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 4 | 118 | 0 | 0 | 122 | 1 | 0 | 3 | 0 | 4 | 0 | 333 | 7 | 0 | 340 | 466 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 3 | 109 | 0 | 0 | 112 | 6 | 0 | 9 | 0 | 15 | 0 | 261 | 5 | 0 | 266 | 393 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 11 | 422 | 0 | 0 | 433 | 20 | 0 | 20 | 0 | 40 | 0 | 1123 | 20 | 0 | 1143 | 1616 |
| % App. Total | 0 | 0 | 0 | 0 | 0 | 2.5 | 97.5 | 0 | 0 | 50 | 0 | 0 | 50 | 0 | 0 | 0 | 98.3 | 1.7 | 0 | 0 | 98.7 |
| PHF | .000 | .000 | .000 | .000 | .000 | .688 | .894 | .000 | .000 | .887 | .714 | .000 | .556 | .000 | .667 | .000 | .843 | .625 | .000 | .840 | .867 |
| Cars | 0 | 0 | 0 | 0 | 0 | 11 | 415 | 0 | 0 | 426 | 20 | 0 | 20 | 0 | 40 | 0 | 1109 | 0 | 0 | 0 | 98.7 |
| % Cars | 0 | 0 | 0 | 0 | 0 | 100 | 98.3 | 0 | 0 | 98.4 | 100 | 0 | 100 | 0 | 100 | 0 | 98.8 | 100 | 0 | 0 | 98.8 |
| Buses | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 |
| % Buses | 0 | 0 | 0 | 0 | 0 | 0 | 1.2 | 0 | 0 | 1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.8 | 0 | 0 | 0.9 |
| Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 |
| % Trucks | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 | 0 | 0 | 0.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.4 | 0 | 0 | 0.4 |



APPENDIX C: TRIP GENERATION DATA

Figure C-1: AM Peak General Office Building (ITE Code 710)

Data Plot and Equation

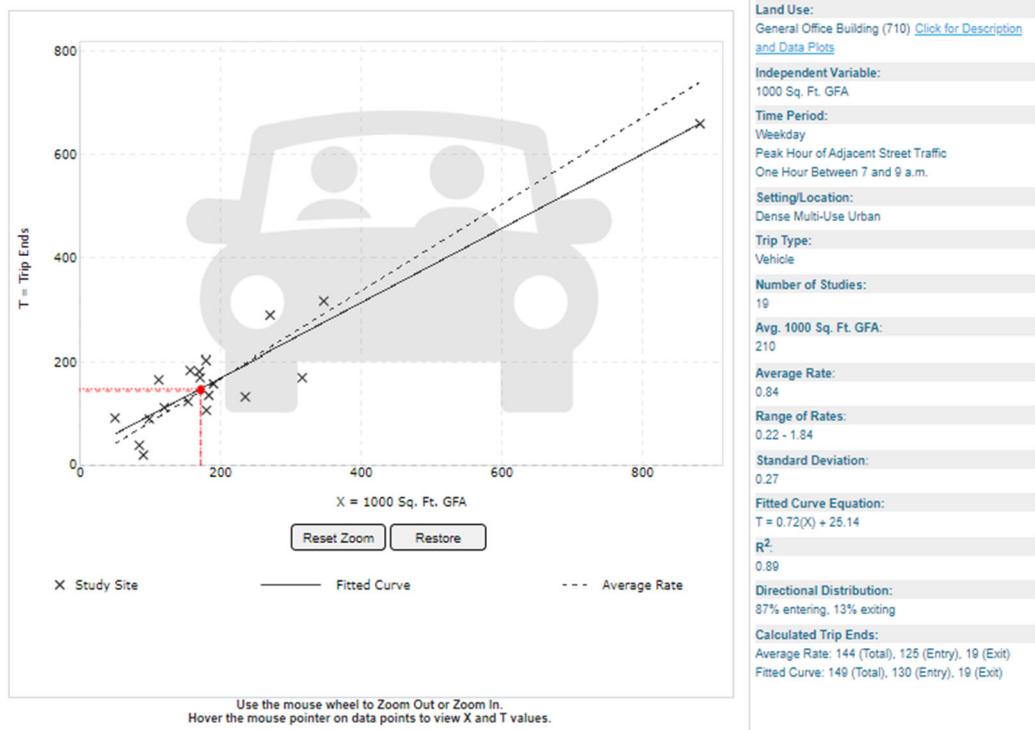


Figure C-2: PM Peak General Office Building (ITE Code 710)

Data Plot and Equation

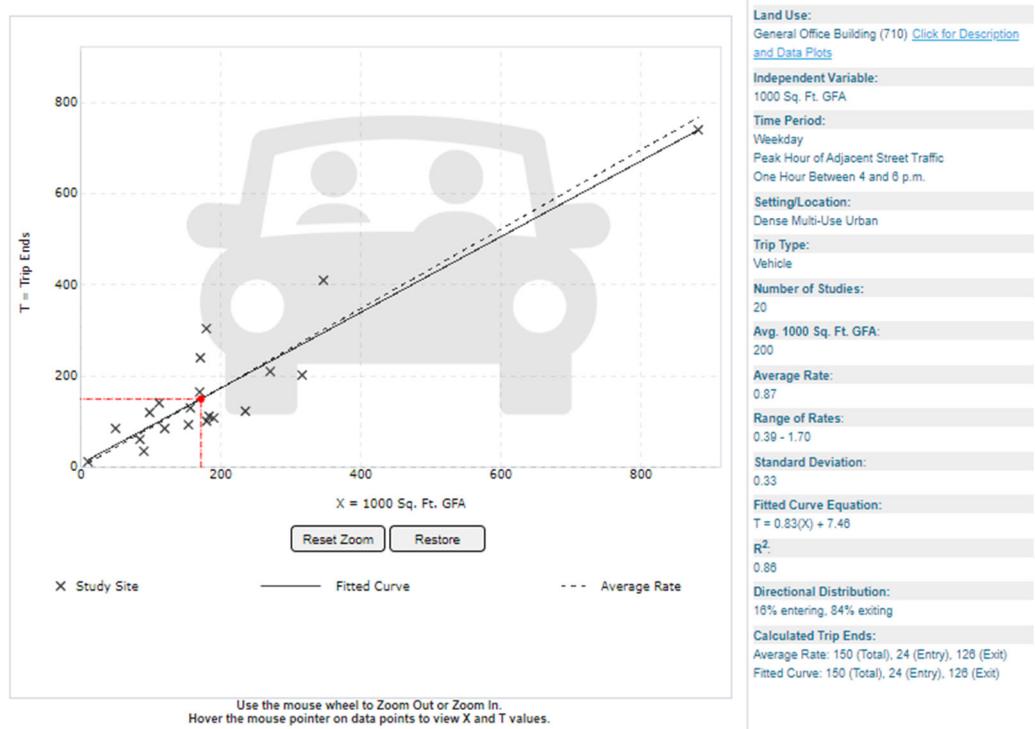


Figure C-3: AM Peak Hour Strip Retail Plaza (<40k) (ITE Code 822)

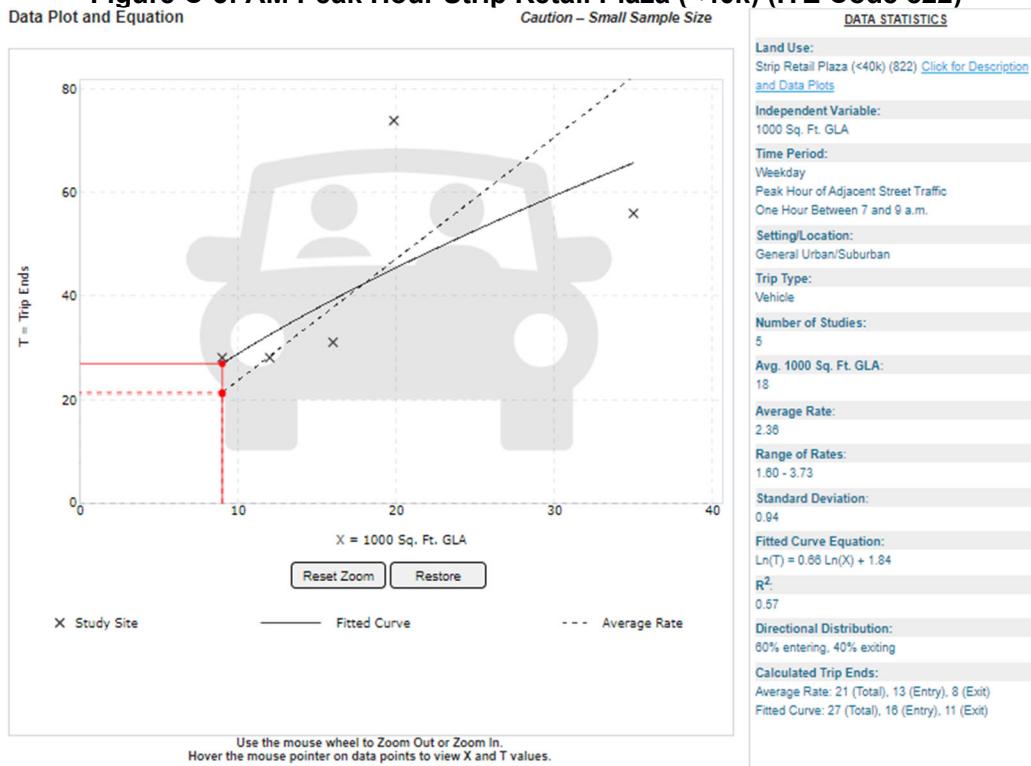


Figure C-4: PM Peak Hour Strip Retail Plaza (<40k) (ITE Code 822)

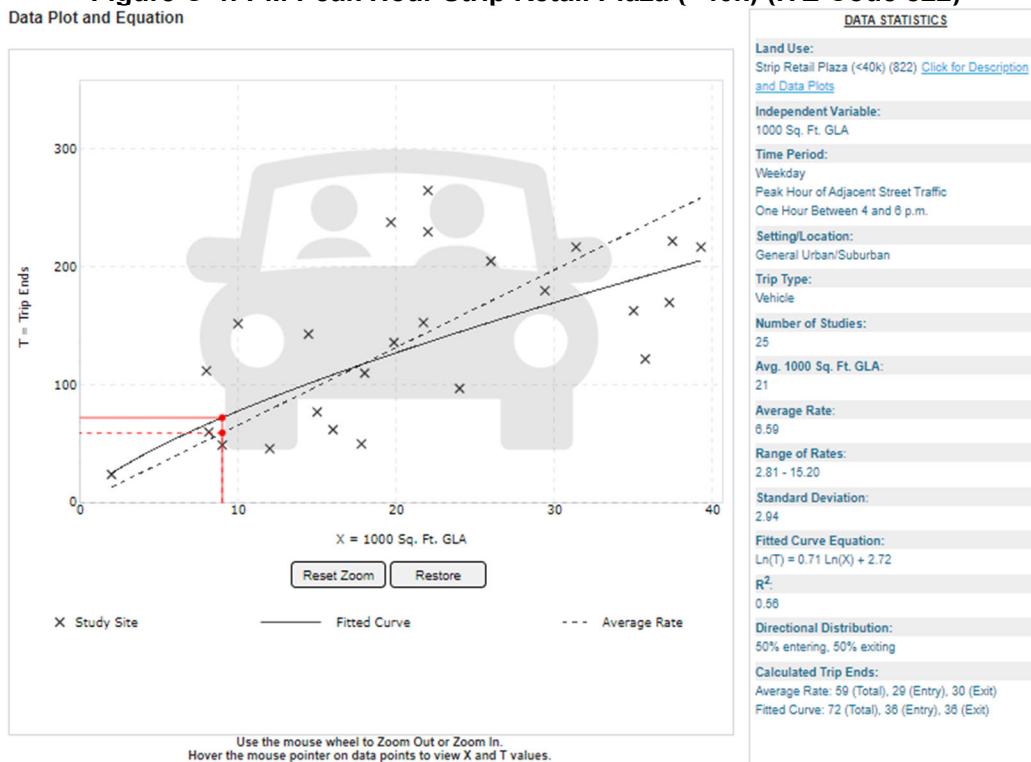


Figure C-5: AM Peak Multifamily (Mid-Rise) Dense Multi-Use Urban
Data Plot and Equation

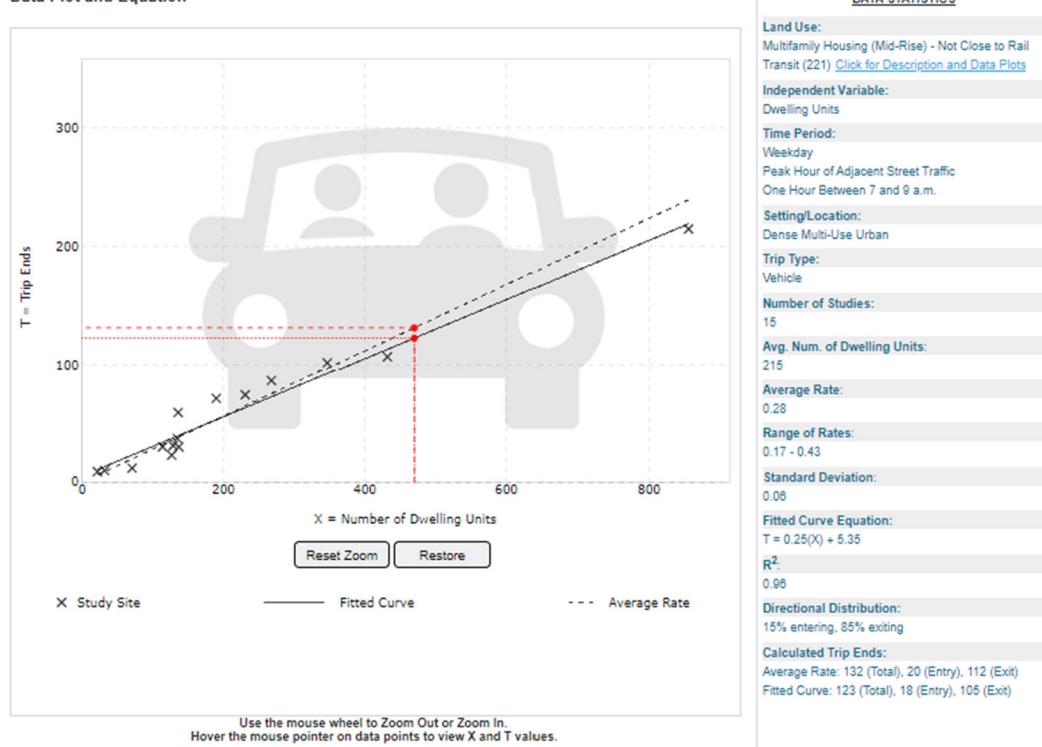


Figure C-6: PM Peak Multifamily (Mid-Rise) Dense Multi-Use Urban
Data Plot and Equation

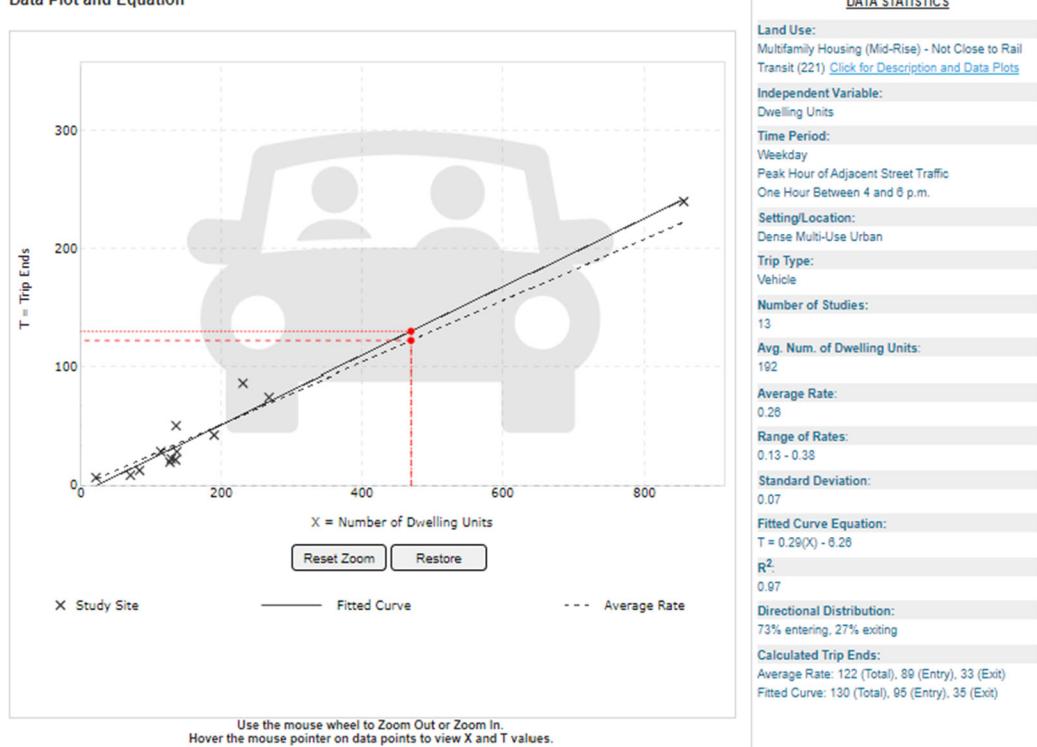


Figure C-7: AM Peak Hotel (ITE Code 310)

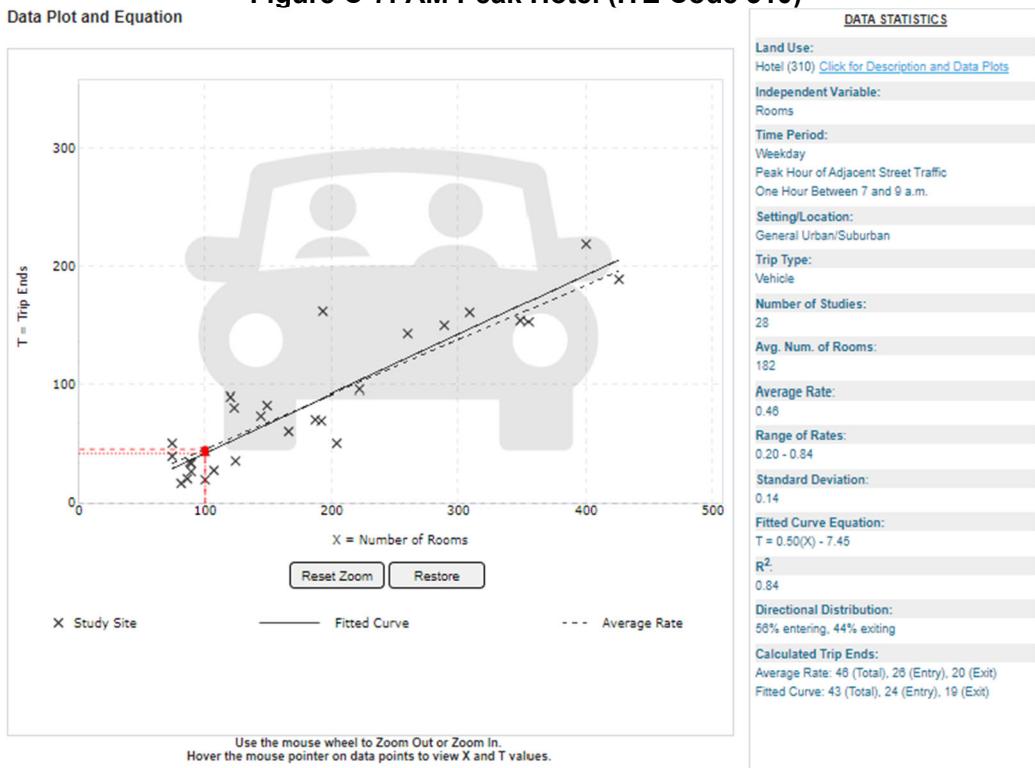
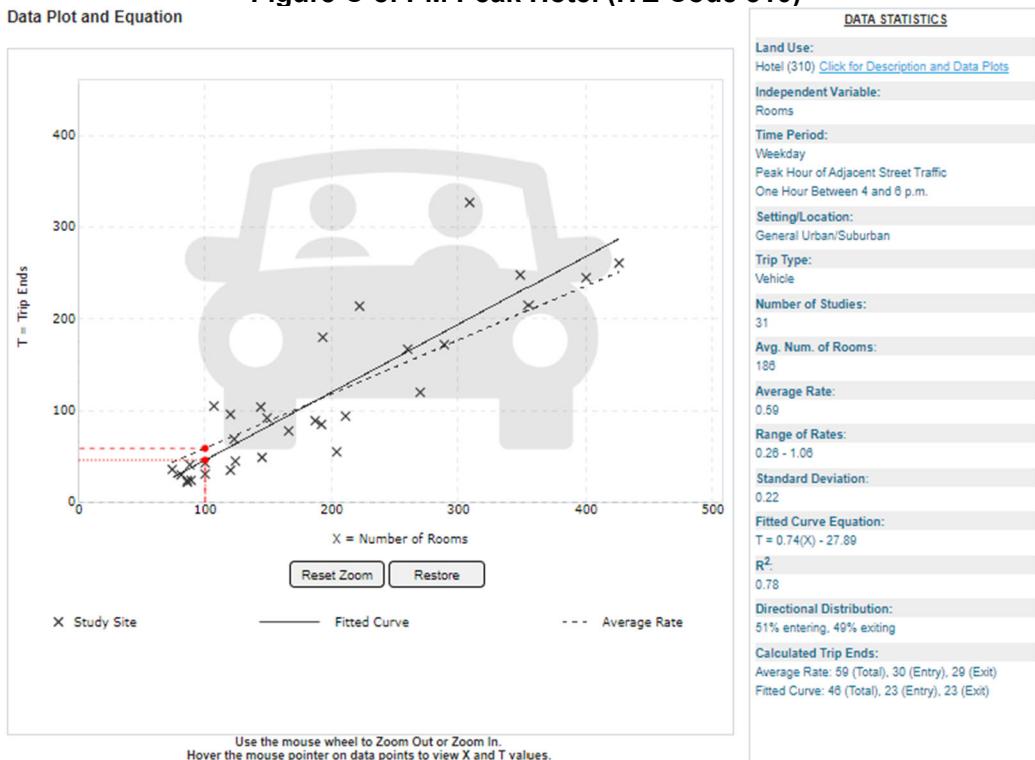


Figure C-8: PM Peak Hotel (ITE Code 310)



APPENDIX D: TRAFFIC FORECAST

Figure D-1: KYTC Historic Traffic Data Station 056M34 (Barrett Avenue)

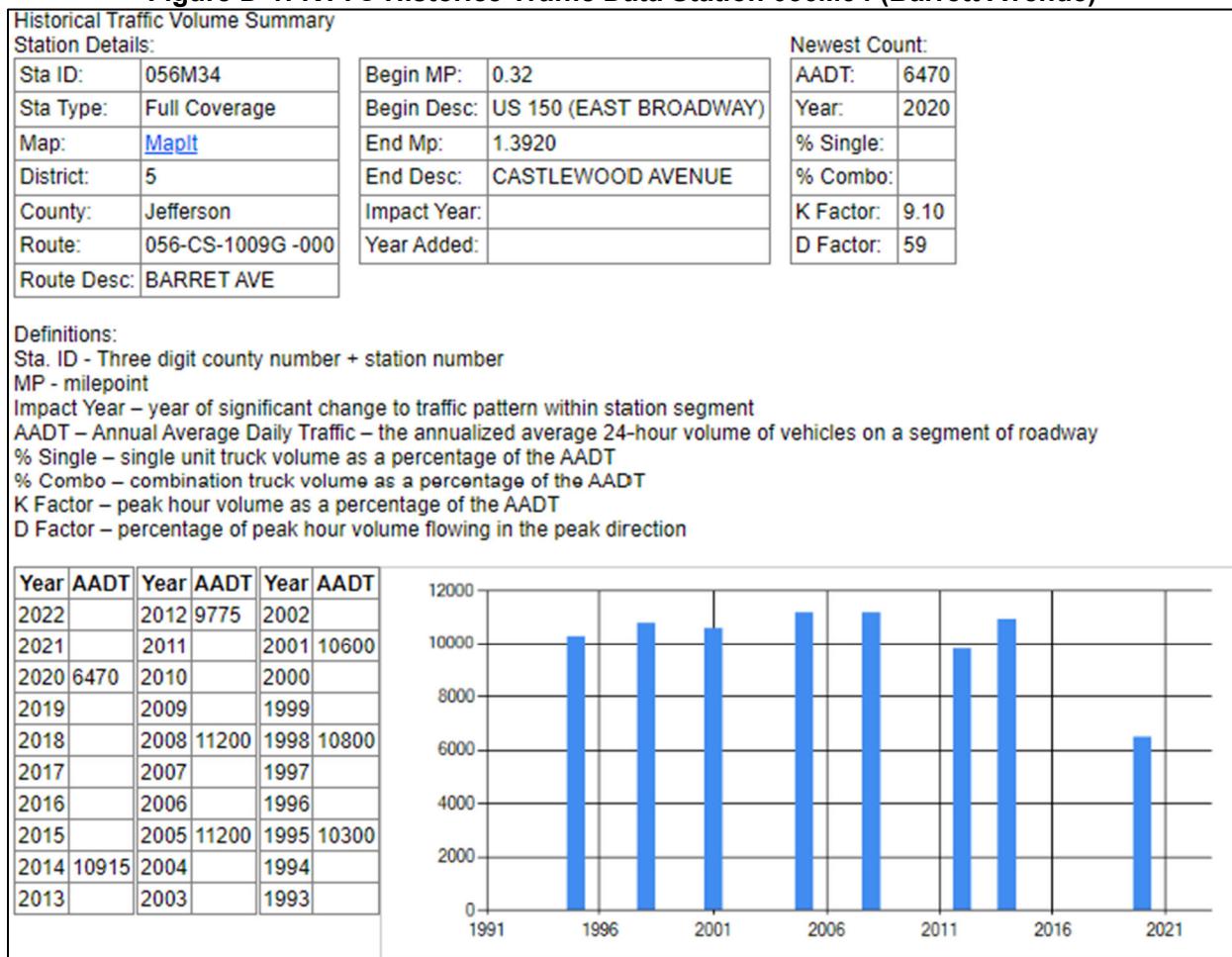


Figure D-2: Barrett Avenue Traffic Forecast

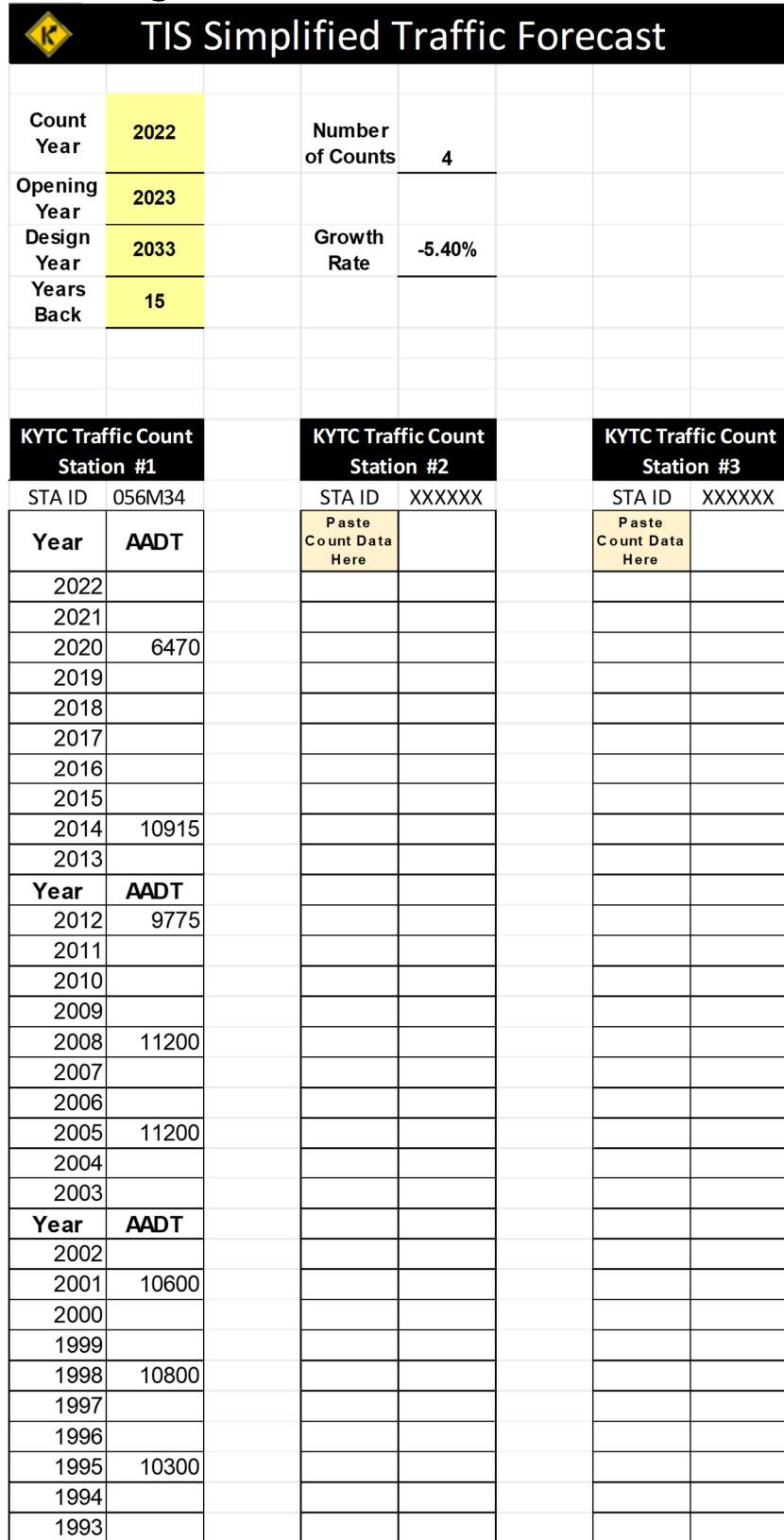
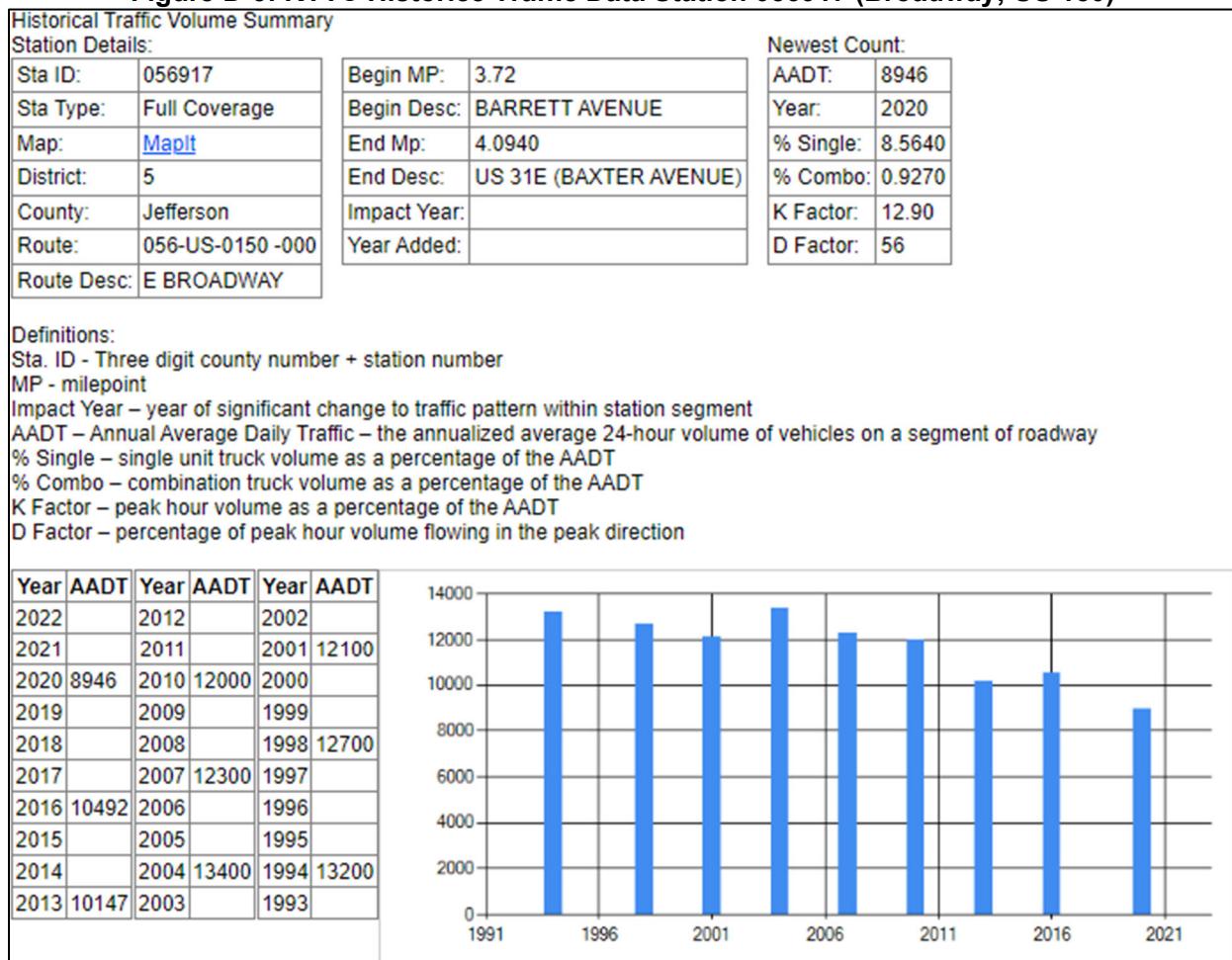


Figure D-3: KYTC Historic Traffic Data Station 056917 (Broadway; US 150)



APPENDIX E: TRIP DISTRIBUTION AND TURNING MOVEMENT FIGURES

Figure E-1: AM Peak Hour Trip Distribution

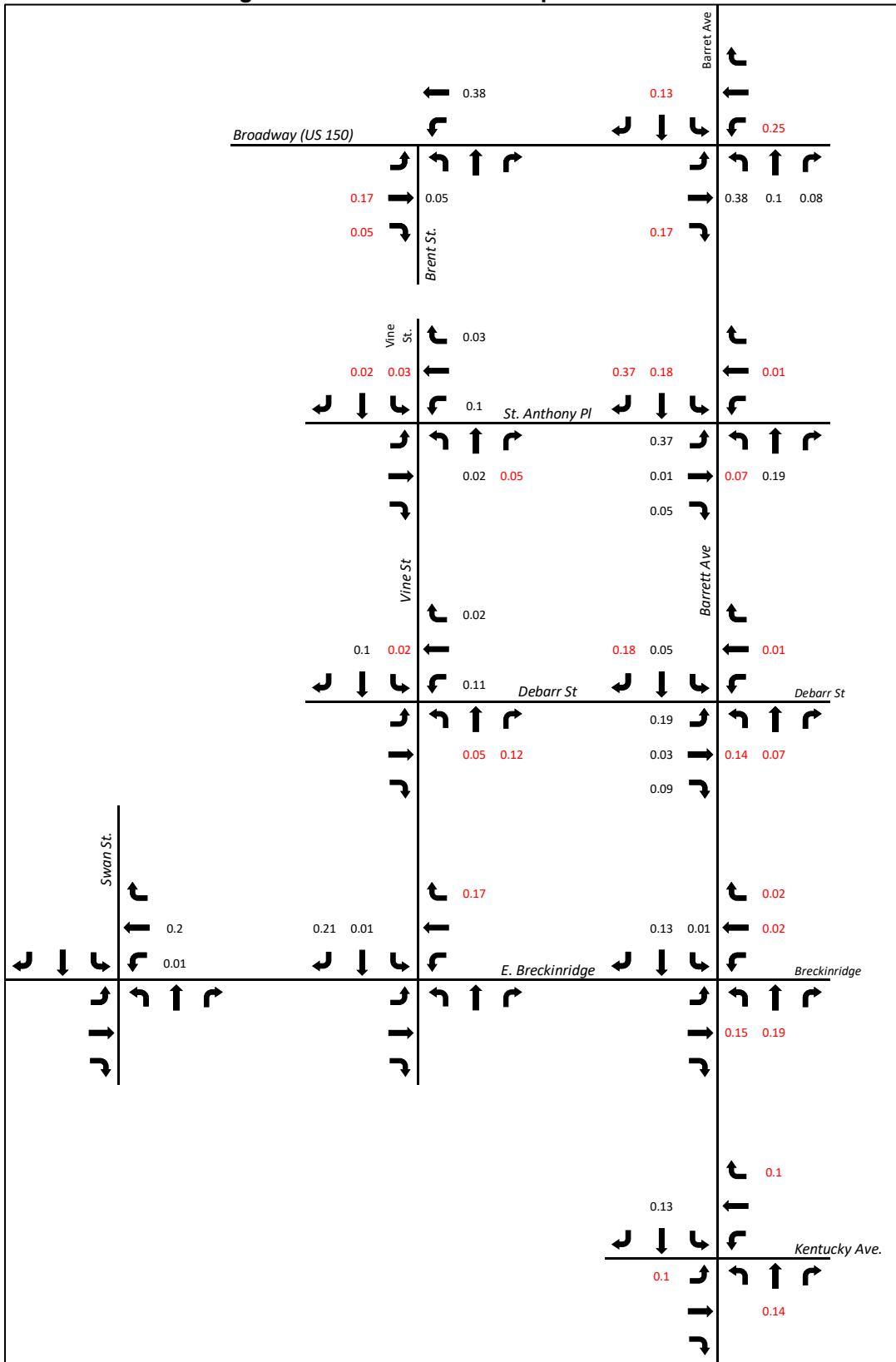


Figure E-2: PM Peak Hour Trip Distribution

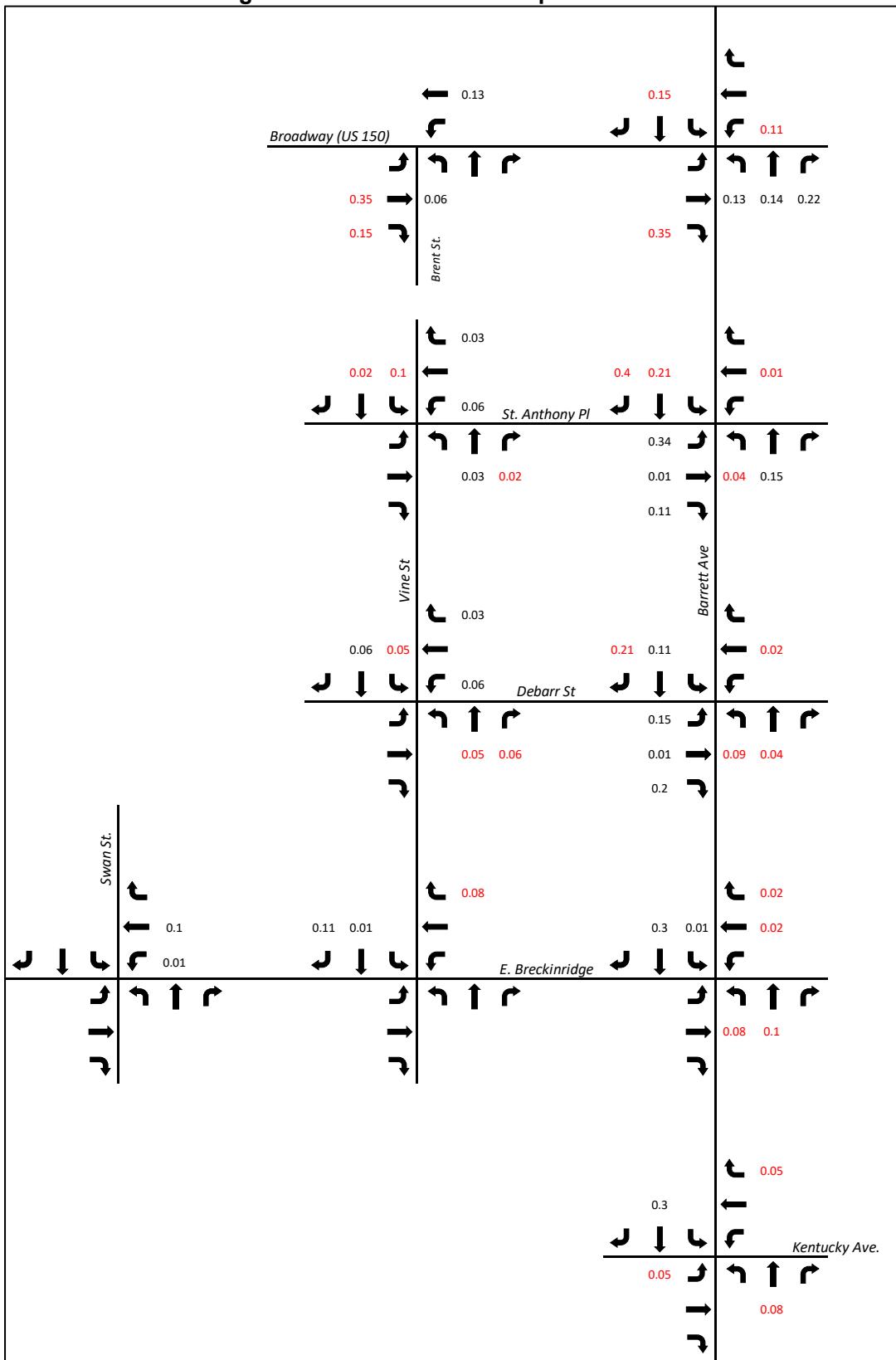


Figure E-3: AM Peak Trips Generated (Proposed)

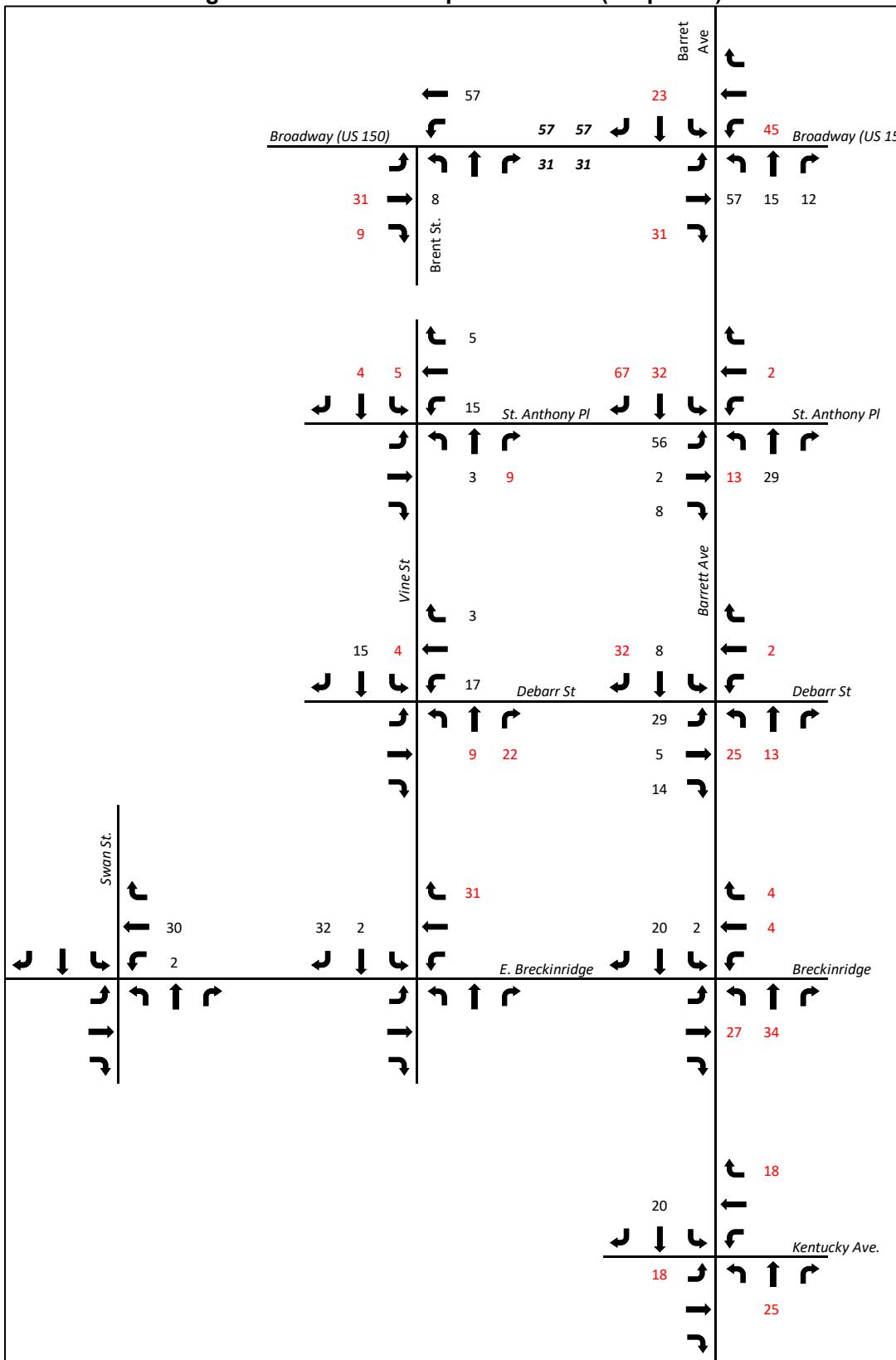


Figure E-4: PM Peak Trips Generated (Proposed)

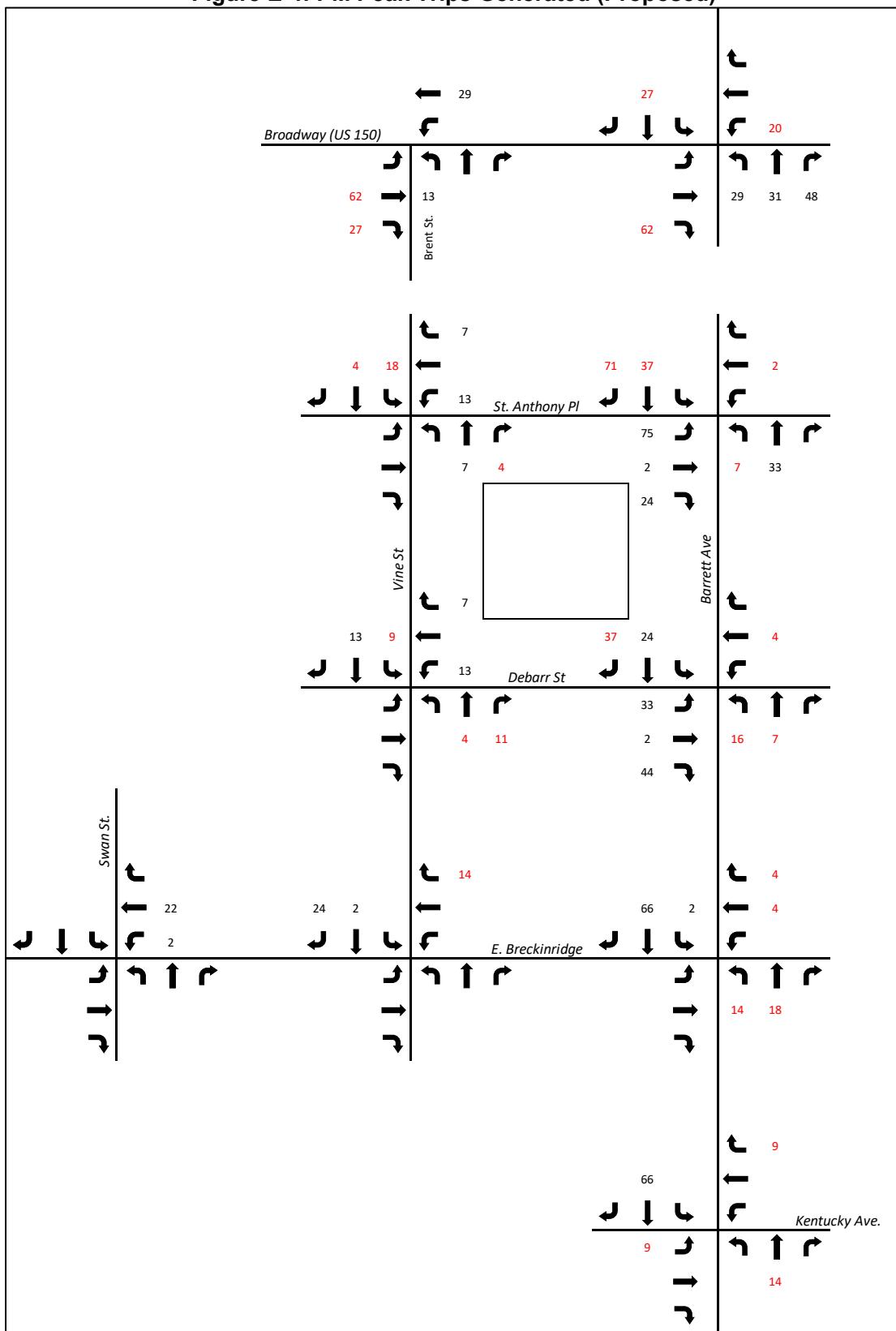


Figure E-5: Final AM Peak Hour Traffic Volumes (Proposed)

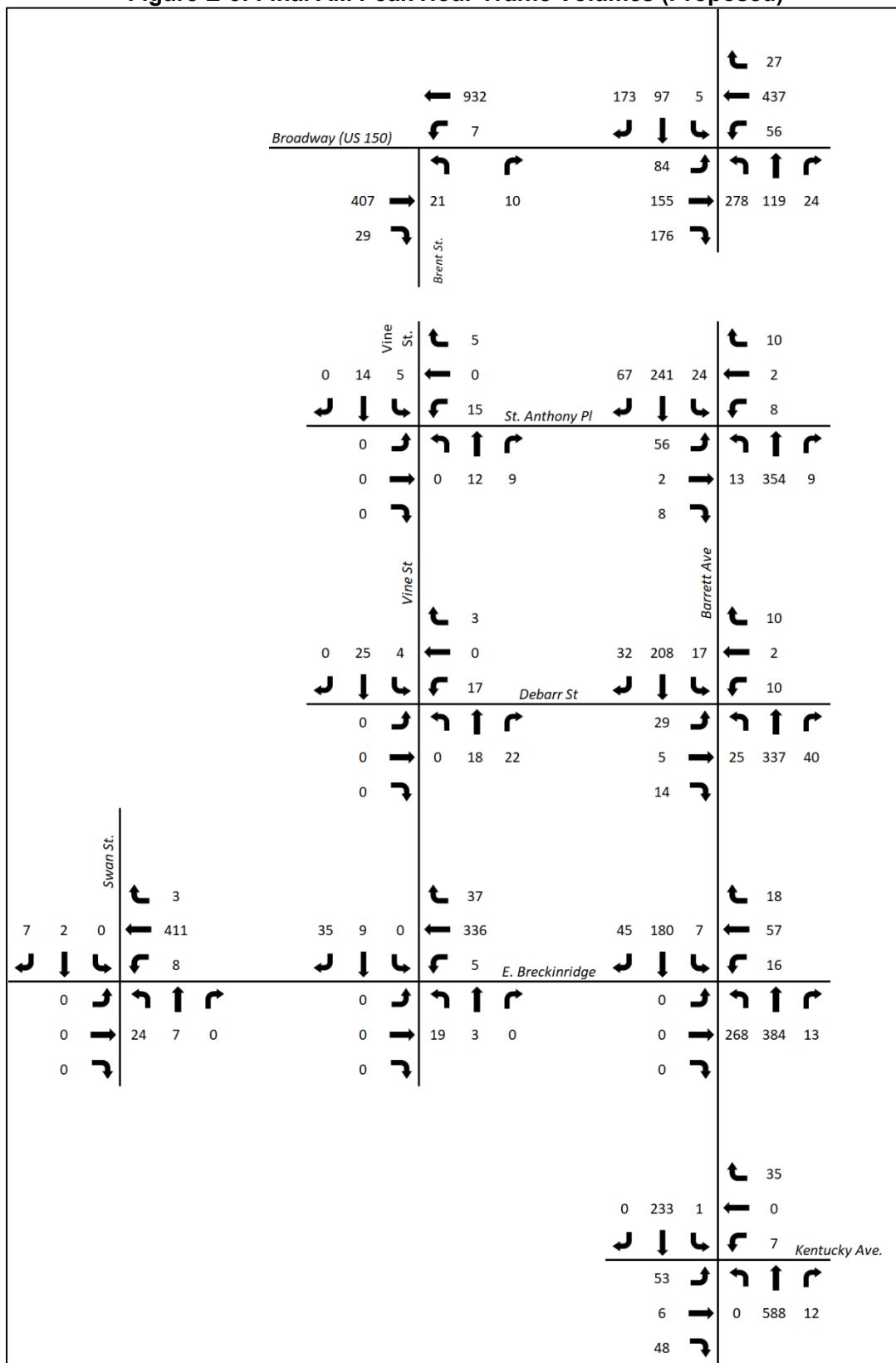


Figure E-6: Final PM Peak Hour Traffic Volumes (Proposed)

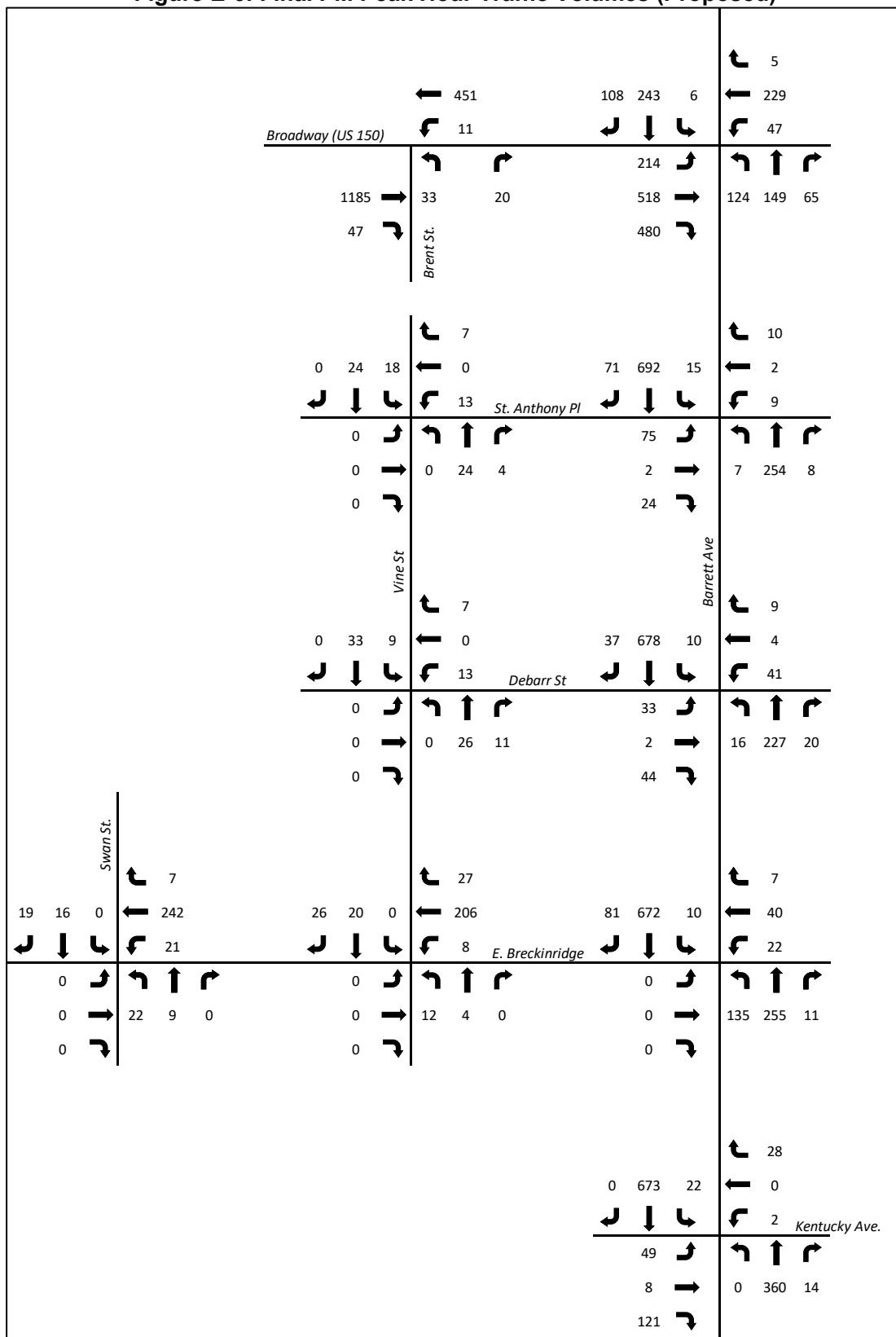


Figure E-7: Final AM Peak Hour Traffic Volumes (Existing Government Center)

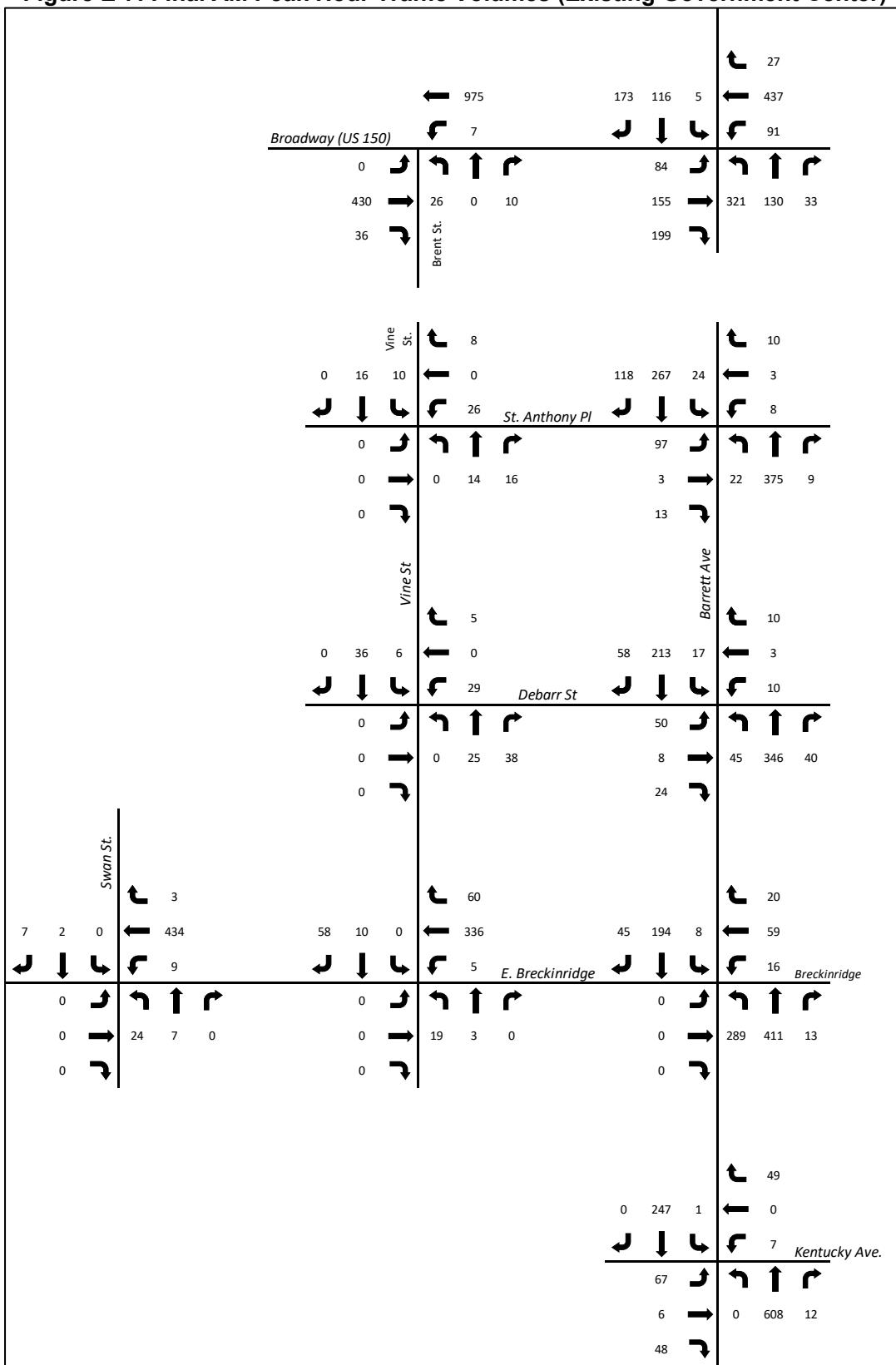
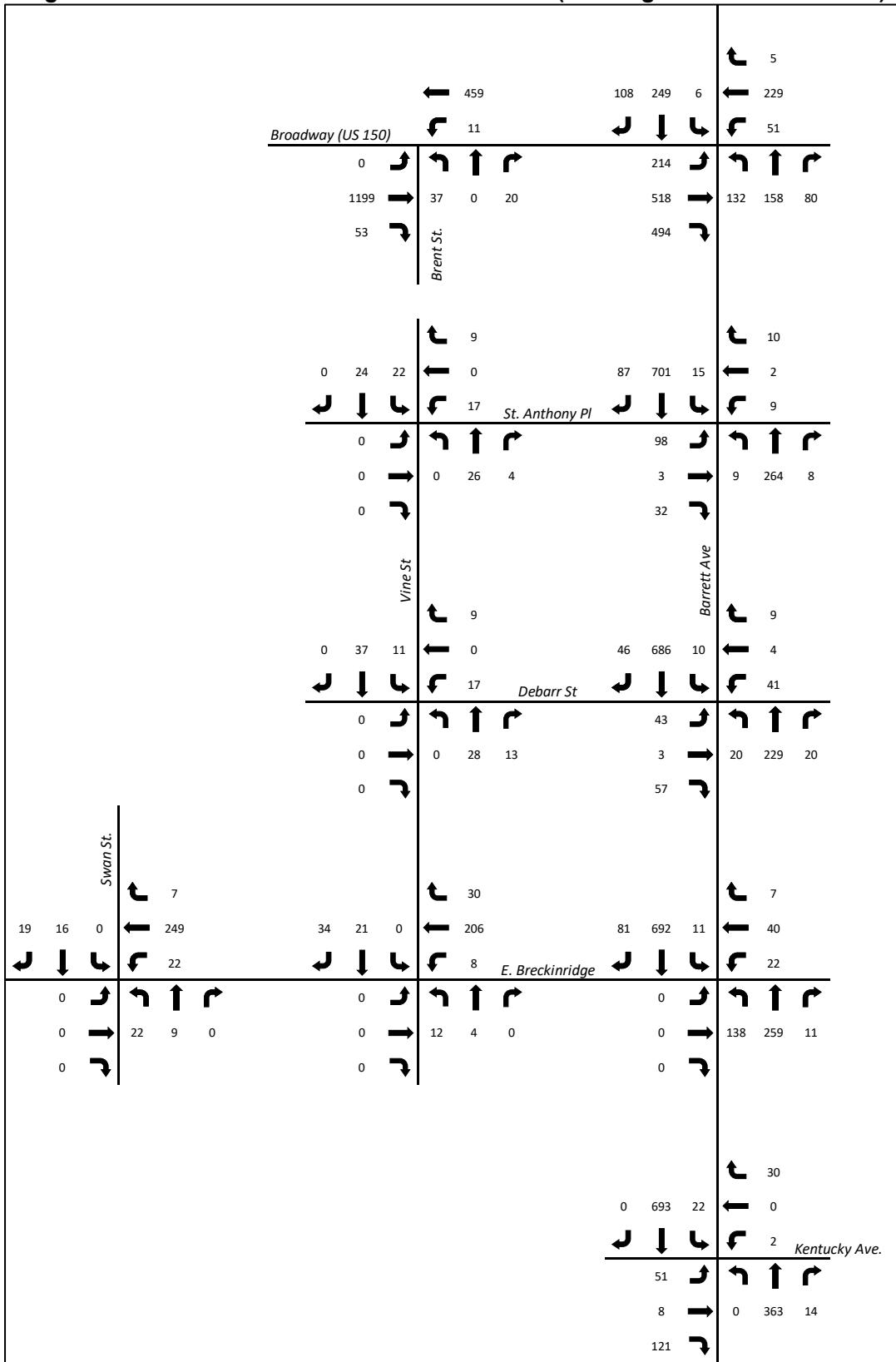
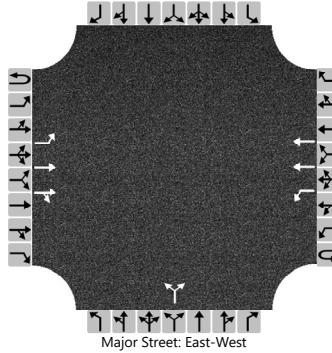


Figure E-8: Final PM Peak Hour Traffic Volumes (Existing Government Center)

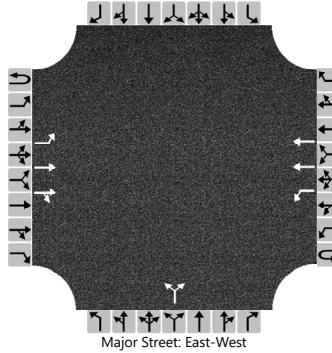


APPENDIX F: CAPACITY ANALYSIS OUTPUT

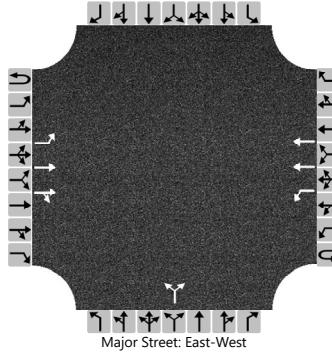
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|------|-----|----------------------------|----|----------------------|------------|---|------|------------|------|----|----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | Brent St at Broadway | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/7/2022 | | | East/West Street | | Broadway (US 150) | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | Brent St. | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | AM No Build | | | Peak Hour Factor | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | East-West | | | Analysis Time Period (hrs) | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: East-West | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | | | | | | | | | | | | | | | | | | |
| Priority | 1U | 1 | 2 | 3 | 4U | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | | | | | | | | | | | | | | |
| Number of Lanes | 0 | 1 | 2 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | |
| Configuration | | L | T | TR | | L | T | | | LR | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | 0 | 0 | 376 | 20 | 0 | 7 | 875 | | 13 | | 10 | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | 3 | 3 | | | 3 | 3 | | | 3 | | 3 | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Left Only | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | 4.1 | | | | 4.1 | | | 7.5 | | 6.9 | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | 4.16 | | | | 4.16 | | | 7.56 | | 6.96 | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | 2.2 | | | | 2.2 | | | 3.5 | | 3.3 | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | 2.23 | | | | 2.23 | | | 3.53 | | 3.33 | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | 0 | | | | 8 | | | | 25 | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | 712 | | | | 1118 | | | | 465 | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | 0.00 | | | | 0.01 | | | | 0.05 | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | 0.0 | | | | 0.0 | | | | 0.2 | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | 10.1 | | | | 8.2 | | | | 13.2 | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | B | | | | A | | | | B | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | 0.0 | | | 0.1 | | | 13.2 | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | A | | | A | | | B | | | | | | | | | | | | | | | | | | | | | | | |

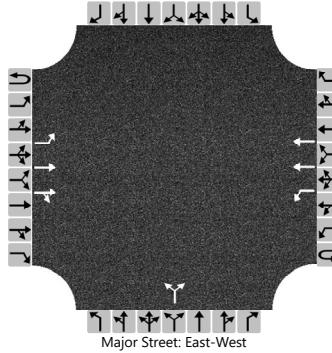
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------|------|-----|----------------------------|----|------|----------------------|---|------|------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | Brent St at Broadway | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/7/2022 | | | East/West Street | | | Broadway (US 150) | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | Brent St. | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | AM Build (Govt Ctr) | | | Peak Hour Factor | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | East-West | | | Analysis Time Period (hrs) | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: East-West | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | | | | | | | | | | | | | | | | | | | |
| Priority | 1U | 1 | 2 | 3 | 4U | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | 0 | 1 | 2 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | | | | | | | | | | | | | | | | | | | |
| Configuration | | L | T | TR | | L | T | | | LR | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | 0 | 0 | 430 | 36 | 0 | 7 | 975 | | 26 | | 10 | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | 3 | 3 | | | 3 | 3 | | | 3 | | 3 | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Left Only | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | 4.1 | | | | 4.1 | | | 7.5 | | 6.9 | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | 4.16 | | | | 4.16 | | | 7.56 | | 6.96 | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | 2.2 | | | | 2.2 | | | 3.5 | | 3.3 | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | 2.23 | | | | 2.23 | | | 3.53 | | 3.33 | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | 0 | | | | 8 | | | 39 | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | 647 | | | | 1047 | | | 374 | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | 0.00 | | | | 0.01 | | | 0.10 | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | 0.0 | | | | 0.0 | | | 0.3 | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | 10.6 | | | | 8.5 | | | 15.7 | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | B | | | | A | | | C | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | 0.0 | | | 0.1 | | | 15.7 | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | A | | | A | | | C | | | | | | | | | | | | | | | | | | | | | | | |

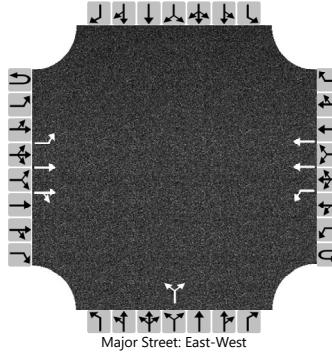
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|------|-----|----------------------------|----|------|----------------------|---|------|------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | Brent St at Broadway | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/7/2022 | | | East/West Street | | | Broadway (US 150) | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | Brent St. | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | AM Build | | | Peak Hour Factor | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | East-West | | | Analysis Time Period (hrs) | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: East-West | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | | | | | | | | | | | | | | | | | | | |
| Priority | 1U | 1 | 2 | 3 | 4U | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | 0 | 1 | 2 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | | | | | | | | | | | | | | | | | | | |
| Configuration | | L | T | TR | | L | T | | | LR | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | 0 | 0 | 407 | 29 | 0 | 7 | 932 | | 21 | | 10 | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | 3 | 3 | | | 3 | 3 | | | 3 | | 3 | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Left Only | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | 4.1 | | | | 4.1 | | | 7.5 | | 6.9 | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | 4.16 | | | | 4.16 | | | 7.56 | | 6.96 | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | 2.2 | | | | 2.2 | | | 3.5 | | 3.3 | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | 2.23 | | | | 2.23 | | | 3.53 | | 3.33 | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | 0 | | | | 8 | | | 34 | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | 674 | | | | 1077 | | | 404 | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | 0.00 | | | | 0.01 | | | 0.08 | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | 0.0 | | | | 0.0 | | | 0.3 | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | 10.3 | | | | 8.4 | | | 14.7 | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | B | | | | A | | | B | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | 0.0 | | | 0.1 | | | 14.7 | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | A | | | A | | | B | | | | | | | | | | | | | | | | | | | | | | | |

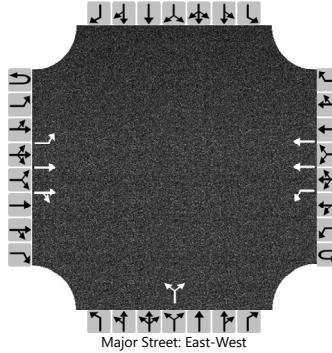
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|------|------|----------------------------|----|------|----------------------|---|------|------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | Brent St at Broadway | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/7/2022 | | | East/West Street | | | Broadway (US 150) | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | Brent St. | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | PM No Build | | | Peak Hour Factor | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | East-West | | | Analysis Time Period (hrs) | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: East-West | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | | | | | | | | | | | | | | | | | | | |
| Priority | 1U | 1 | 2 | 3 | 4U | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | 0 | 1 | 2 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | | | | | | | | | | | | | | | | | | | |
| Configuration | | L | T | TR | | L | T | | | LR | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | 0 | 0 | 1123 | 20 | 0 | 11 | 422 | | 20 | | 20 | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | 3 | 3 | | | 3 | 3 | | | 3 | | 3 | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Left Only | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | 4.1 | | | | 4.1 | | | 7.5 | | 6.9 | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | 4.16 | | | | 4.16 | | | 7.56 | | 6.96 | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | 2.2 | | | | 2.2 | | | 3.5 | | 3.3 | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | 2.23 | | | | 2.23 | | | 3.53 | | 3.33 | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | 0 | | | | 12 | | | 43 | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | 1092 | | | | 551 | | | 230 | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | 0.00 | | | | 0.02 | | | 0.19 | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | 0.0 | | | | 0.1 | | | 0.7 | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | 8.3 | | | | 11.7 | | | 24.3 | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | A | | | | B | | | C | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | 0.0 | | | 0.3 | | | 24.3 | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | A | | | A | | | C | | | | | | | | | | | | | | | | | | | | | | | |

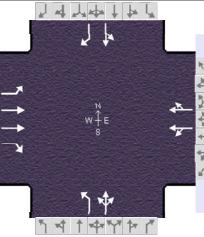
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------|------|------|----------------------------|-----------|------|----------------------|---|------------|----|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | Brent St at Broadway | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/7/2022 | | | East/West Street | | | Broadway (US 150) | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | Brent St. | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | PM Build (Govt Ctr) | | | Peak Hour Factor | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | East-West | | | Analysis Time Period (hrs) | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: East-West | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | | Westbound | | | | Northbound | | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | | | | | | | | | | | | | | | | | | | |
| Priority | 1U | 1 | 2 | 3 | 4U | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | 0 | 1 | 2 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | | | | | | | | | | | | | | | | | | | |
| Configuration | | L | T | TR | | L | T | | | LR | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | 0 | 0 | 1199 | 53 | 0 | 11 | 459 | | 37 | | 20 | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | 3 | 3 | | | 3 | 3 | | | 3 | | 3 | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Left Only | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | 4.1 | | | | 4.1 | | | 7.5 | | 6.9 | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | 4.16 | | | | 4.16 | | | 7.56 | | 6.96 | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | 2.2 | | | | 2.2 | | | 3.5 | | 3.3 | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | 2.23 | | | | 2.23 | | | 3.53 | | 3.33 | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | 0 | | | | 12 | | | 62 | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | 1054 | | | | 496 | | | 176 | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | 0.00 | | | | 0.02 | | | 0.35 | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | 0.0 | | | | 0.1 | | | 1.5 | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | 8.4 | | | | 12.4 | | | 36.1 | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | A | | | | B | | | E | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | 0.0 | | | 0.3 | | | 36.1 | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | A | | | A | | | E | | | | | | | | | | | | | | | | | | | | | | | |

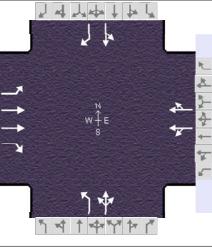
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|------|------|----------------------------|----|----------------------|------------|---|------|------------|------|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | Brent St at Broadway | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/7/2022 | | | East/West Street | | Broadway (US 150) | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | Brent St. | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | PM Build | | | Peak Hour Factor | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | East-West | | | Analysis Time Period (hrs) | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: East-West | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | | | | | | | | | | | | | | | | | | |
| Priority | 1U | 1 | 2 | 3 | 4U | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | | | | | | | | | | | | | | | | |
| Number of Lanes | 0 | 1 | 2 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | | | | | | | | | | | | | | | | | | |
| Configuration | | L | T | TR | | L | T | | | LR | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | 0 | 0 | 1185 | 47 | 0 | 11 | 451 | | 33 | | 20 | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | 3 | 3 | | | 3 | 3 | | | 3 | | 3 | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Left Only | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | 4.1 | | | | 4.1 | | | 7.5 | | 6.9 | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | 4.16 | | | | 4.16 | | | 7.56 | | 6.96 | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | 2.2 | | | | 2.2 | | | 3.5 | | 3.3 | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | 2.23 | | | | 2.23 | | | 3.53 | | 3.33 | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | 0 | | | | 12 | | | 58 | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | 1062 | | | | 505 | | | 185 | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | 0.00 | | | | 0.02 | | | 0.31 | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | 0.0 | | | | 0.1 | | | 1.3 | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | 8.4 | | | | 12.3 | | | 33.0 | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | A | | | | B | | | D | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | 0.0 | | | 0.3 | | | 33.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | A | | | A | | | D | | | | | | | | | | | | | | | | | | | | | | | |

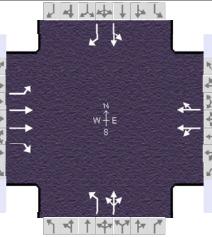
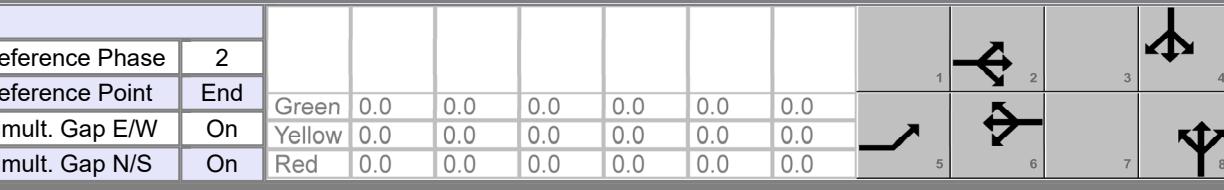
HCS Signalized Intersection Results Summary

| General Information | | | | | | Intersection Information | | |  | | | | | | | | | | | | | | | |
|--|---------------------|-----------------|---------------------------------|-----------------|-------------|--------------------------|-------|-------|---|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Agency | | | | | Duration, h | | 0.250 | | | | | | | | | | | | | | | | | |
| Analyst | | Analysis Date | | 12/7/2022 | | Area Type | | Other | | | | | | | | | | | | | | | | |
| Jurisdiction | | Time Period | | PHF | | 0.92 | | | | | | | | | | | | | | | | | | |
| Urban Street | US 150 | Analysis Year | 2022 | Analysis Period | | 1 > 7:00 | | | | | | | | | | | | | | | | | | |
| Intersection | Barrett at Broadway | File Name | Broadway_Barrett_AM_NoBuild.xus | | | | | | | | | | | | | | | | | | | | | |
| Project Description | | AM No Build | | | | | | | | | | | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | | | | | | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | | | | | | | | | | |
| Demand (v), veh/h | | | | 84 | 155 | 145 | 11 | 437 | 27 | 221 | 104 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Signal Information | | | | | | | | | | | | | | | | | | | | | | | | |
| Cycle, s | 120.0 | Reference Phase | 2 | | | | | | | | | | | | | | | | | | | | | |
| Offset, s | 0 | Reference Point | End | | Green | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | | Yellow | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | | |
| Timer Results | | | | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT | | | | | | | | | | | | | |
| Assigned Phase | | | | 5 | 2 | | 6 | | 8 | | 4 | | | | | | | | | | | | | |
| Case Number | | | | 1.0 | 3.0 | | 8.3 | | 10.0 | | 11.0 | | | | | | | | | | | | | |
| Phase Duration, s | | | | 12.0 | 71.0 | | 59.0 | | 25.0 | | 24.0 | | | | | | | | | | | | | |
| Change Period, (Y+R _c), s | | | | 4.0 | 4.0 | | 4.0 | | 4.0 | | 4.0 | | | | | | | | | | | | | |
| Max Allow Headway (MAH), s | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | | | | | | | | | | | |
| Queue Clearance Time (g _s), s | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | | | | | | | | | | | |
| Green Extension Time (g _e), s | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | | | | | | | | | | | |
| Phase Call Probability | | | | 0.00 | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | |
| Max Out Probability | | | | 0.00 | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | | | | | | | | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | | | | | | | | | | |
| Assigned Movement | | | | 5 | 2 | 12 | 1 | 6 | 16 | 3 | 8 | | | | | | | | | | | | | |
| Adjusted Flow Rate (v), veh/h | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | |
| Queue Service Time (g _s), s | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | | |
| Cycle Queue Clearance Time (g _c), s | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | | |
| Green Ratio (g/C) | | | | 0.54 | 0.56 | 0.56 | 0.46 | 0.46 | 0.18 | 0.18 | 0.17 | | | | | | | | | | | | | |
| Capacity (c), veh/h | | | | 514 | 2020 | 899 | 893 | 776 | 317 | 326 | 316 | | | | | | | | | | | | | |
| Volume-to-Capacity Ratio (X) | | | | 0.178 | 0.083 | 0.175 | 0.304 | 0.315 | 0.759 | 0.386 | 0.272 | | | | | | | | | | | | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | 2.3 | 1.9 | 3.8 | 8.6 | 8.0 | 12.8 | 6.5 | 4.3 | | | | | | | | | | | | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | |
| Uniform Delay (d ₁), s/veh | | | | 14.1 | 12.3 | 13.0 | 20.5 | 20.6 | 47.1 | 43.8 | 43.6 | | | | | | | | | | | | | |
| Incremental Delay (d ₂), s/veh | | | | 0.8 | 0.1 | 0.4 | 0.9 | 1.1 | 15.6 | 3.4 | 2.1 | | | | | | | | | | | | | |
| Initial Queue Delay (d ₃), s/veh | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | | |
| Control Delay (d), s/veh | | | | 14.8 | 12.4 | 13.4 | 21.4 | 21.6 | 62.7 | 47.2 | 45.8 | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | B | B | B | C | C | E | D | E | | | | | | | | | | | | | |
| Approach Delay, s/veh / LOS | | | | 13.3 | B | | 21.5 | C | 57.4 | E | 56.5 | | | | | | | | | | | | | |
| Intersection Delay, s/veh / LOS | | | | | | | 33.8 | | | C | | | | | | | | | | | | | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | | | | | | | | | | | | | |
| Pedestrian LOS Score / LOS | | | | 1.90 | B | | 1.91 | B | 2.15 | B | 2.46 | | | | | | | | | | | | | |
| Bicycle LOS Score / LOS | | | | 0.83 | A | | 0.91 | A | 1.09 | A | 0.94 | | | | | | | | | | | | | |

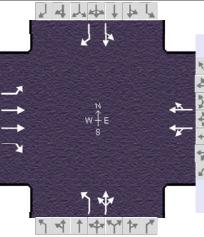
HCS Signalized Intersection Results Summary

| General Information | | | | | | Intersection Information | | |  | | | | | |
|--|-------|---------------------|-----|---------------|-------------|--------------------------------------|-------|-----------------|---|----------|-------|--|--|--|
| Agency | | | | | Duration, h | | 0.250 | | | | | | | |
| Analyst | | Analysis Date | | 12/7/2022 | | Area Type | | Other | | | | | | |
| Jurisdiction | | Time Period | | PHF | | 0.92 | | | | | | | | |
| Urban Street | | US 150 | | Analysis Year | | 2022 | | Analysis Period | | 1 > 7:00 | | | | |
| Intersection | | Barrett at Broadway | | File Name | | Broadway_Barrett_AM_BuildGovtCtr.xus | | | | | | | | |
| Project Description | | AM Build (Govt Ctr) | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | |
| Demand (v), veh/h | | | | 84 | 155 | 199 | 91 | 437 | 27 | 321 | 130 | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Signal Information | | | | | | | | | | | | | | |
| Cycle, s | 120.0 | Reference Phase | 2 | | | | | | | | | | | |
| Offset, s | 0 | Reference Point | End | | Green | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| Uncoordinated | No | Simult. Gap E/W | On | | Yellow | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| Timer Results | | | | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT | | | |
| Assigned Phase | | | | 5 | 2 | | 6 | | 8 | | 4 | | | |
| Case Number | | | | 1.0 | 3.0 | | 8.3 | | 10.0 | | 11.0 | | | |
| Phase Duration, s | | | | 11.0 | 61.0 | | 50.0 | | 35.0 | | 24.0 | | | |
| Change Period, (Y+R _c), s | | | | 4.0 | 4.0 | | 4.0 | | 4.0 | | 4.0 | | | |
| Max Allow Headway (MAH), s | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | |
| Queue Clearance Time (g _s), s | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | |
| Green Extension Time (g _e), s | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | |
| Phase Call Probability | | | | 0.00 | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| Max Out Probability | | | | 0.00 | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | |
| Assigned Movement | | | | 5 | 2 | 12 | 1 | 6 | 16 | 3 | 8 | | | |
| Adjusted Flow Rate (v), veh/h | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Queue Service Time (g _s), s | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| Cycle Queue Clearance Time (g _c), s | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| Green Ratio (g/C) | | | | 0.46 | 0.48 | 0.48 | 0.38 | 0.38 | 0.26 | 0.26 | 0.17 | | | |
| Capacity (c), veh/h | | | | 393 | 1718 | 765 | 668 | 651 | 467 | 474 | 316 | | | |
| Volume-to-Capacity Ratio (X) | | | | 0.232 | 0.098 | 0.283 | 0.452 | 0.463 | 0.746 | 0.374 | 0.416 | | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | 2.8 | 2.3 | 6.8 | 11.1 | 11.1 | 16.0 | 8.0 | 6.9 | | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| Uniform Delay (d ₁), s/veh | | | | 20.0 | 17.3 | 19.1 | 27.6 | 27.7 | 40.9 | 36.5 | 44.8 | | | |
| Incremental Delay (d ₂), s/veh | | | | 1.4 | 0.1 | 0.9 | 2.2 | 2.4 | 10.4 | 2.3 | 4.0 | | | |
| Initial Queue Delay (d ₃), s/veh | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| Control Delay (d), s/veh | | | | 21.4 | 17.5 | 20.0 | 29.8 | 30.1 | 51.3 | 38.8 | 48.8 | | | |
| Level of Service (LOS) | | | | C | B | C | C | C | D | D | E | | | |
| Approach Delay, s/veh / LOS | | | | 19.4 | B | 30.0 | C | 47.1 | D | 56.2 | E | | | |
| Intersection Delay, s/veh / LOS | | | | | | 36.4 | | | D | | | | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | | | |
| Pedestrian LOS Score / LOS | | | | 1.91 | B | 1.92 | B | 2.15 | B | 2.46 | B | | | |
| Bicycle LOS Score / LOS | | | | 0.88 | A | 0.99 | A | 1.36 | A | 1.01 | A | | | |

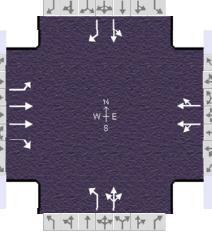
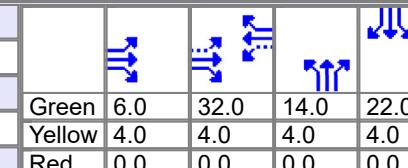
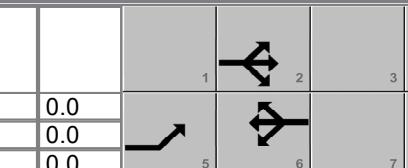
HCS Signalized Intersection Results Summary

| General Information | | | | | | Intersection Information | | |  | | | | | |
|--|---------------------|-----------------|-----|--|-------|-------------------------------|-------|-------|---|-------|------|--|--|--|
| Agency | | | | Duration, h | | 0.250 | | | | | | | | |
| Analyst | | | | Analysis Date | | 12/7/2022 | | | | | | | | |
| Jurisdiction | | | | Time Period | | PHF | | | | | | | | |
| Urban Street | US 150 | | | Analysis Year | | 2022 | | | Analysis Period | | | | | |
| Intersection | Barrett at Broadway | | | File Name | | Broadway_Barrett_AM_Build.xus | | | | | | | | |
| Project Description | AM Build | | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | |
| Demand (v), veh/h | | | | 84 | 155 | 176 | 56 | 437 | 27 | 278 | 119 | | | |
| | | | | | | | | | | | 24 | | | |
| | | | | | | | | | | | 5 | | | |
| | | | | | | | | | | | 97 | | | |
| | | | | | | | | | | | 173 | | | |
| Signal Information | | | |  | | | | | | | | | | |
| Cycle, s | 120.0 | Reference Phase | 2 | | | | | | | | | | | |
| Offset, s | 0 | Reference Point | End | Green | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | Yellow | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| | | | | | | | | | | | | | | |
| Timer Results | | | | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT | | | |
| Assigned Phase | | | | 5 | 2 | | 6 | | 8 | | 4 | | | |
| Case Number | | | | 1.0 | 3.0 | | 8.3 | | 10.0 | | 11.0 | | | |
| Phase Duration, s | | | | 11.0 | 62.0 | | 51.0 | | 34.0 | | 24.0 | | | |
| Change Period, (Y+R _c), s | | | | 4.0 | 4.0 | | 4.0 | | 4.0 | | 4.0 | | | |
| Max Allow Headway (MAH), s | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | |
| Queue Clearance Time (g _s), s | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | |
| Green Extension Time (g _e), s | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | |
| Phase Call Probability | | | | 0.00 | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| Max Out Probability | | | | 0.00 | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | |
| Assigned Movement | | | | 5 | 2 | 12 | 1 | 6 | 16 | 3 | 8 | | | |
| Adjusted Flow Rate (v), veh/h | | | | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Queue Service Time (g _s), s | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | | | |
| Cycle Queue Clearance Time (g _c), s | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | | | |
| Green Ratio (g/C) | | | | 0.47 | 0.48 | 0.48 | 0.39 | 0.39 | 0.25 | 0.25 | | | | |
| Capacity (c), veh/h | | | | 414 | 1749 | 778 | 717 | 664 | 452 | 461 | | | | |
| Volume-to-Capacity Ratio (X) | | | | 0.221 | 0.096 | 0.246 | 0.403 | 0.415 | 0.668 | 0.337 | | | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | 2.8 | 2.3 | 5.8 | 10.3 | 10.0 | 13.8 | 7.1 | | | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| Uniform Delay (d ₁), s/veh | | | | 19.2 | 16.8 | 18.2 | 26.3 | 26.5 | 40.5 | 36.9 | | | | |
| Incremental Delay (d ₂), s/veh | | | | 1.2 | 0.1 | 0.8 | 1.7 | 1.9 | 7.6 | 2.0 | | | | |
| Initial Queue Delay (d ₃), s/veh | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| Control Delay (d), s/veh | | | | 20.4 | 16.9 | 18.9 | 28.0 | 28.4 | 48.1 | 38.8 | | | | |
| Level of Service (LOS) | | | | C | B | B | C | C | D | D | | | | |
| Approach Delay, s/veh / LOS | | | | 18.5 | B | | 28.2 | C | 45.0 | D | 56.2 | | | |
| Intersection Delay, s/veh / LOS | | | | | | | 34.8 | | | C | | | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | | | |
| Pedestrian LOS Score / LOS | | | | 1.91 | B | | 1.92 | B | 2.15 | B | 2.46 | | | |
| Bicycle LOS Score / LOS | | | | 0.86 | A | | 0.95 | A | 1.24 | A | 0.98 | | | |

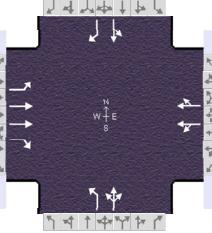
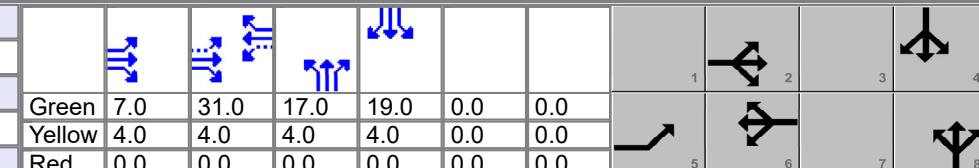
HCS Signalized Intersection Results Summary

| General Information | | | | | | Intersection Information | | |  | | | | | | |
|--|-------|---------------------|-----|---|-------------|---------------------------------|-------|-----------------|---|----------|-------|--|--|--|--|
| Agency | | | | | Duration, h | | 0.250 | | | | | | | | |
| Analyst | | Analysis Date | | 12/7/2022 | | Area Type | | Other | | | | | | | |
| Jurisdiction | | Time Period | | PHF | | 0.92 | | | | | | | | | |
| Urban Street | | US 150 | | Analysis Year | | 2022 | | Analysis Period | | 1 > 7:00 | | | | | |
| Intersection | | Barrett at Broadway | | File Name | | Broadway_Barrett_PM_NoBuild.xus | | | | | | | | | |
| Project Description | | PM No Build | | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | |
| Demand (v), veh/h | | | | 214 | 518 | 418 | 27 | 229 | 5 | 95 | 118 | | | | |
| Demand (v), veh/h | | | | | | | | | | | 17 | | | | |
| Demand (v), veh/h | | | | | | | | | | 6 | 216 | | | | |
| Demand (v), veh/h | | | | | | | | | | | 108 | | | | |
| Signal Information | | | |  | | | | | | | | | | | |
| Cycle, s | 120.0 | Reference Phase | 2 | | | | | | | | | | | | |
| Offset, s | 0 | Reference Point | End | Green | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | Yellow | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| | | | | | | | | | | | | | | | |
| Timer Results | | | | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT | | | | |
| Assigned Phase | | | | 5 | 2 | | 6 | | 8 | | 4 | | | | |
| Case Number | | | | 1.0 | 3.0 | | 8.3 | | 10.0 | | 11.0 | | | | |
| Phase Duration, s | | | | 11.0 | 76.0 | | 65.0 | | 18.0 | | 26.0 | | | | |
| Change Period, (Y+R _c), s | | | | 4.0 | 4.0 | | 4.0 | | 4.0 | | 4.0 | | | | |
| Max Allow Headway (MAH), s | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | | |
| Queue Clearance Time (g _s), s | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | | |
| Green Extension Time (g _e), s | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | | |
| Phase Call Probability | | | | 0.00 | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| Max Out Probability | | | | 0.00 | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | |
| Assigned Movement | | | | 5 | 2 | 12 | 1 | 6 | 16 | 3 | 8 | | | | |
| Adjusted Flow Rate (v), veh/h | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| Queue Service Time (g _s), s | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| Cycle Queue Clearance Time (g _c), s | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| Green Ratio (g/C) | | | | 0.58 | 0.60 | 0.60 | 0.51 | 0.51 | 0.12 | 0.12 | 0.18 | | | | |
| Capacity (c), veh/h | | | | 696 | 2171 | 966 | 834 | 873 | 211 | 217 | 348 | | | | |
| Volume-to-Capacity Ratio (X) | | | | 0.334 | 0.259 | 0.470 | 0.171 | 0.162 | 0.489 | 0.677 | 0.694 | | | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | 5.6 | 6.3 | 11.2 | 3.9 | 3.9 | 6.0 | 8.9 | 12.3 | | | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| Uniform Delay (d ₁), s/veh | | | | 12.4 | 11.4 | 13.4 | 15.7 | 15.8 | 49.6 | 50.8 | 45.8 | | | | |
| Incremental Delay (d ₂), s/veh | | | | 1.3 | 0.3 | 1.6 | 0.4 | 0.4 | 7.9 | 15.7 | 10.9 | | | | |
| Initial Queue Delay (d ₃), s/veh | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| Control Delay (d), s/veh | | | | 13.7 | 11.7 | 15.0 | 16.1 | 16.2 | 57.5 | 66.5 | 56.7 | | | | |
| Level of Service (LOS) | | | | B | B | B | B | B | E | E | D | | | | |
| Approach Delay, s/veh / LOS | | | | 13.3 | B | 16.2 | B | 62.8 | E | 53.6 | D | | | | |
| Intersection Delay, s/veh / LOS | | | | | 26.2 | | | | C | | | | | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | | | | |
| Pedestrian LOS Score / LOS | | | | 1.89 | B | 1.90 | B | 2.15 | B | 2.46 | B | | | | |
| Bicycle LOS Score / LOS | | | | 1.52 | B | 0.72 | A | 0.90 | A | 1.08 | A | | | | |

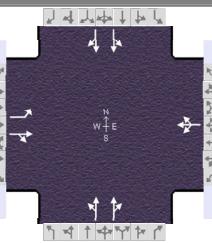
HCS Signalized Intersection Results Summary

| General Information | | | | | | Intersection Information | | |  | | | | | |
|--|-------|---------------------|-----|---|-------------|--------------------------------------|-------|---|---|----------|-------|--|--|--|
| Agency | | | | | Duration, h | | 0.250 | | | | | | | |
| Analyst | | Analysis Date | | 12/7/2022 | | Area Type | | Other | | | | | | |
| Jurisdiction | | Time Period | | PHF | | 0.92 | | | | | | | | |
| Urban Street | | US 150 | | Analysis Year | | 2022 | | Analysis Period | | 1 > 7:00 | | | | |
| Intersection | | Barrett at Broadway | | File Name | | Broadway_Barrett_PM_BuildGovtCtr.xus | | | | | | | | |
| Project Description | | PM Build (Govt Ctr) | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | |
| Demand (v), veh/h | | | | 214 | 518 | 494 | 51 | 229 | 5 | 132 | 158 | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Signal Information | | | |  | | | |  | | | | | | |
| Cycle, s | 90.0 | Reference Phase | 2 | | | | 1 | 2 | 3 | | | | | |
| Offset, s | 0 | Reference Point | End | Green | 6.0 | 32.0 | 14.0 | 22.0 | 0.0 | 0.0 | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | Yellow | 4.0 | 4.0 | 4.0 | 4.0 | 0.0 | 0.0 | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| Timer Results | | | | EBL | | EBT | | WBL | | WBT | | | | |
| Assigned Phase | | | | 5 | | 2 | | 6 | | 8 | | | | |
| Case Number | | | | 1.0 | | 3.0 | | 8.3 | | 10.0 | | | | |
| Phase Duration, s | | | | 10.0 | | 46.0 | | 36.0 | | 18.0 | | | | |
| Change Period, (Y+R _c), s | | | | 4.0 | | 4.0 | | 4.0 | | 4.0 | | | | |
| Max Allow Headway (MAH), s | | | | 3.1 | | 0.0 | | 0.0 | | 3.1 | | | | |
| Queue Clearance Time (g _s), s | | | | 8.0 | | | | | | 14.8 | | | | |
| Green Extension Time (g _e), s | | | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | | |
| Phase Call Probability | | | | 1.00 | | | | | | 1.00 | | | | |
| Max Out Probability | | | | 1.00 | | | | | | 1.00 | | | | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | |
| Assigned Movement | | | | 5 | 2 | 12 | 1 | 6 | 16 | 3 | 8 | | | |
| Adjusted Flow Rate (v), veh/h | | | | 233 | 563 | 537 | 151 | | 159 | 143 | 259 | | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | 1810 | 1809 | 1610 | 1378 | | 1718 | 1810 | 1792 | | | |
| Queue Service Time (g _s), s | | | | 6.0 | 8.8 | 24.0 | 2.3 | | 5.9 | 6.5 | 12.8 | | | |
| Cycle Queue Clearance Time (g _c), s | | | | 6.0 | 8.8 | 24.0 | 5.8 | | 5.9 | 6.5 | 12.8 | | | |
| Green Ratio (g/C) | | | | 0.44 | 0.47 | 0.47 | 0.36 | | 0.36 | 0.16 | 0.16 | | | |
| Capacity (c), veh/h | | | | 532 | 1688 | 751 | 545 | | 611 | 281 | 279 | | | |
| Volume-to-Capacity Ratio (X) | | | | 0.437 | 0.334 | 0.715 | 0.276 | | 0.261 | 0.510 | 0.928 | | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | 5.8 | 6.3 | 14.5 | 4.2 | | 4.4 | 6.0 | 13.2 | | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | | | |
| Uniform Delay (d ₁), s/veh | | | | 17.5 | 15.2 | 19.2 | 20.4 | | 20.6 | 34.9 | 37.5 | | | |
| Incremental Delay (d ₂), s/veh | | | | 2.6 | 0.5 | 5.7 | 1.3 | | 1.0 | 6.5 | 38.2 | | | |
| Initial Queue Delay (d ₃), s/veh | | | | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | | |
| Control Delay (d), s/veh | | | | 20.1 | 15.7 | 24.9 | 21.6 | | 21.6 | 41.3 | 75.7 | | | |
| Level of Service (LOS) | | | | C | B | C | C | | C | D | E | | | |
| Approach Delay, s/veh / LOS | | | | 20.2 | | C | 21.6 | | C | 63.5 | E | | | |
| Intersection Delay, s/veh / LOS | | | | | | | 31.9 | | | C | | | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | | | |
| Pedestrian LOS Score / LOS | | | | 1.90 | | B | 1.91 | | B | 2.14 | B | | | |
| Bicycle LOS Score / LOS | | | | 1.59 | | B | 0.74 | | A | 1.15 | A | | | |

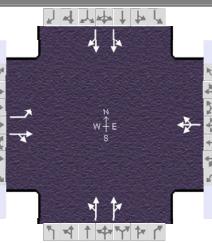
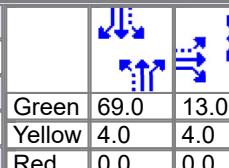
HCS Signalized Intersection Results Summary

| General Information | | | | | | | | Intersection Information | | |  | |
|--|-------|---------------------|-----|--|-------|-------------------------------|-------|--------------------------|-------|----------|---|--|
| Agency | | | | | | Duration, h | | 0.250 | | | | |
| Analyst | | Analysis Date | | 12/7/2022 | | Area Type | | Other | | | | |
| Jurisdiction | | Time Period | | PHF | | 0.92 | | | | | | |
| Urban Street | | US 150 | | Analysis Year | | 2022 | | Analysis Period | | 1 > 7:00 | | |
| Intersection | | Barrett at Broadway | | File Name | | Broadway_Barrett_PM_Build.xus | | | | | | |
| Project Description | | PM Build | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | |
| Demand (v), veh/h | | | | 214 | 518 | 480 | 47 | 229 | 5 | 124 | 149 | |
| Demand (v), veh/h | | | | 65 | 1 | 1 | 6 | 243 | 108 | R | R | |
| Signal Information | | | |  | | | | | | | | |
| Cycle, s | 90.0 | Reference Phase | 2 | | | | | | | | | |
| Offset, s | 0 | Reference Point | End | Green | 7.0 | 31.0 | 17.0 | 19.0 | 0.0 | 0.0 | | |
| Uncoordinated | No | Simult. Gap E/W | On | Yellow | 4.0 | 4.0 | 4.0 | 4.0 | 0.0 | 0.0 | | |
| Force Mode | Fixed | Simult. Gap N/S | On | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| | | | | | | | | | | | | |
| Timer Results | | | | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT | |
| Assigned Phase | | | | 5 | 2 | | 6 | | 8 | | 4 | |
| Case Number | | | | 1.0 | 3.0 | | 8.3 | | 10.0 | | 11.0 | |
| Phase Duration, s | | | | 11.0 | 46.0 | | 35.0 | | 21.0 | | 23.0 | |
| Change Period, (Y+R _c), s | | | | 4.0 | 4.0 | | 4.0 | | 4.0 | | 4.0 | |
| Max Allow Headway (MAH), s | | | | 3.1 | 0.0 | | 0.0 | | 3.1 | | 3.1 | |
| Queue Clearance Time (g _s), s | | | | 9.0 | | | | | 12.8 | | 13.8 | |
| Green Extension Time (g _e), s | | | | 0.0 | 0.0 | | 0.0 | | 0.3 | | 0.4 | |
| Phase Call Probability | | | | 1.00 | | | | | 1.00 | | 1.00 | |
| Max Out Probability | | | | 1.00 | | | | | 0.46 | | 0.23 | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | |
| Assigned Movement | | | | 5 | 2 | 12 | 1 | 6 | 16 | 3 | 8 | |
| Adjusted Flow Rate (v), veh/h | | | | 233 | 563 | 522 | 150 | | 156 | 135 | 233 | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | 1810 | 1809 | 1610 | 1414 | | 1718 | 1810 | 1802 | |
| Queue Service Time (g _s), s | | | | 7.0 | 8.8 | 23.0 | 1.7 | | 5.9 | 5.9 | 10.8 | |
| Cycle Queue Clearance Time (g _c), s | | | | 7.0 | 8.8 | 23.0 | 5.6 | | 5.9 | 5.9 | 10.8 | |
| Green Ratio (g/C) | | | | 0.44 | 0.47 | 0.47 | 0.34 | | 0.34 | 0.19 | 0.19 | |
| Capacity (c), veh/h | | | | 540 | 1688 | 751 | 541 | | 592 | 342 | 340 | |
| Volume-to-Capacity Ratio (X) | | | | 0.431 | 0.334 | 0.694 | 0.277 | | 0.263 | 0.394 | 0.684 | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | 5.8 | 6.3 | 13.9 | 4.2 | | 4.4 | 5.1 | 9.5 | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | |
| Uniform Delay (d ₁), s/veh | | | | 16.7 | 15.2 | 18.9 | 21.0 | | 21.3 | 32.0 | 34.0 | |
| Incremental Delay (d ₂), s/veh | | | | 2.5 | 0.5 | 5.2 | 1.3 | | 1.1 | 3.4 | 10.6 | |
| Initial Queue Delay (d ₃), s/veh | | | | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | |
| Control Delay (d), s/veh | | | | 19.2 | 15.7 | 24.2 | 22.3 | | 22.4 | 35.4 | 44.6 | |
| Level of Service (LOS) | | | | B | B | C | C | | D | D | | |
| Approach Delay, s/veh / LOS | | | | 19.7 | B | 22.3 | C | | 41.2 | D | 38.9 | |
| Intersection Delay, s/veh / LOS | | | | | | 26.5 | | | | C | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | |
| Pedestrian LOS Score / LOS | | | | 1.90 | B | 1.92 | B | | 2.14 | B | 2.44 | |
| Bicycle LOS Score / LOS | | | | 1.57 | B | 0.74 | A | | 1.09 | A | 1.13 | |

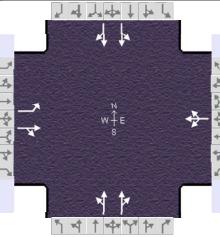
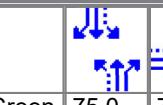
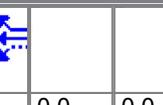
HCS Signalized Intersection Results Summary

| General Information | | | | | | Intersection Information | | |  | | | | | | | |
|--|-----------------------|-----------------|-----|---------------|----------------------------------|--------------------------|-----------------|------|---|-------|-------|--|--|--|--|--|
| Agency | | | | Duration, h | | 0.250 | | | | | | | | | | |
| Analyst | | | | Analysis Date | 12/7/2022 | | Area Type | | Other | | | | | | | |
| Jurisdiction | | | | Time Period | | | PHF | | 0.92 | | | | | | | |
| Urban Street | Barrett | | | Analysis Year | 2022 | | Analysis Period | | 1 > 7:00 | | | | | | | |
| Intersection | St Anthony at Barrett | | | File Name | StAnthony_Barrett_AM_NoBuild.xus | | | | | | | | | | | |
| Project Description | AM No Build | | | | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | | |
| Demand (v), veh/h | | | | 0 | 0 | 0 | 8 | 0 | 10 | 0 | 325 | | | | | |
| Demand (v), veh/h | | | | | | | | | | 24 | 209 | | | | | |
| Demand (v), veh/h | | | | | | | | | | 9 | 0 | | | | | |
| Signal Information | | | | | | | | | | | | | | | | |
| Cycle, s | 90.0 | Reference Phase | 2 | | | | | | | | | | | | | |
| Offset, s | 0 | Reference Point | End | Green | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 | 2 | | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | Yellow | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3 | 4 | | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 6 | | | | | |
| Timer Results | | | | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT | | | | | |
| Assigned Phase | | | | | 4 | | 8 | | 2 | | 6 | | | | | |
| Case Number | | | | | 6.0 | | 8.0 | | 8.0 | | 8.0 | | | | | |
| Phase Duration, s | | | | | 11.0 | | 11.0 | | 79.0 | | 79.0 | | | | | |
| Change Period, (Y+R _c), s | | | | | 4.0 | | 4.0 | | 4.0 | | 4.0 | | | | | |
| Max Allow Headway (MAH), s | | | | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | | | |
| Queue Clearance Time (g _s), s | | | | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | | | |
| Green Extension Time (g _e), s | | | | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | | | |
| Phase Call Probability | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| Max Out Probability | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | | |
| Assigned Movement | | | | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | | | | | |
| Adjusted Flow Rate (v), veh/h | | | | 0 | 0 | | 0 | | 0 | 0 | 0 | | | | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | 0 | 0 | | 0 | | 0 | 0 | 0 | | | | | |
| Queue Service Time (g _s), s | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | |
| Cycle Queue Clearance Time (g _c), s | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | |
| Green Ratio (g/C) | | | | 0.08 | | | 0.08 | | | 0.83 | 0.83 | | | | | |
| Capacity (c), veh/h | | | | 80 | | | 182 | | | 1568 | 1426 | | | | | |
| Volume-to-Capacity Ratio (X) | | | | 0.000 | 0.000 | | 0.108 | | 0.000 | 0.115 | 0.090 | | | | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | 0.0 | 0.0 | | 0.8 | | 0.0 | 0.5 | 0.3 | | | | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | 0.00 | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| Uniform Delay (d ₁), s/veh | | | | 0.0 | | | 38.7 | | | 1.4 | 1.3 | | | | | |
| Incremental Delay (d ₂), s/veh | | | | 0.0 | 0.0 | | 1.2 | | 0.0 | 0.1 | 0.1 | | | | | |
| Initial Queue Delay (d ₃), s/veh | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | |
| Control Delay (d), s/veh | | | | 0.0 | | | 39.9 | | | 1.5 | 1.5 | | | | | |
| Level of Service (LOS) | | | | | | | D | | | A | A | | | | | |
| Approach Delay, s/veh / LOS | | | | 0.0 | | | 39.9 | | D | 1.5 | A | | | | | |
| Intersection Delay, s/veh / LOS | | | | | | | 2.7 | | | A | | | | | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | | | | | |
| Pedestrian LOS Score / LOS | | | | 2.13 | B | 2.13 | B | 1.58 | B | 1.81 | B | | | | | |
| Bicycle LOS Score / LOS | | | | 0.49 | A | 0.52 | A | 0.79 | A | 0.70 | A | | | | | |

HCS Signalized Intersection Results Summary

| General Information | | | | | | | Intersection Information | | |  | | | | | | |
|--|---------|---------------------|------|---|-------------|-----------|--------------------------|-------|-------|---|-------|-------|--|--|--|--|
| Agency | | | | | Duration, h | | 0.250 | | | | | | | | | |
| Analyst | | Analysis Date | | 12/7/2022 | | Area Type | | Other | | | | | | | | |
| Jurisdiction | | Time Period | | PHF | | 0.92 | | | | | | | | | | |
| Urban Street | Barrett | Analysis Year | 2022 | Analysis Period | | 1 > 7:00 | | | | | | | | | | |
| Intersection | | File Name | | StAnthony_Barrett_AM_BuildGovtCtr.xus | | | | | | | | | | | | |
| Project Description | | AM Build (Govt Ctr) | | | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | R | | | | |
| Demand (v), veh/h | | | | 97 | 3 | 13 | 8 | 3 | 10 | 22 | 375 | 9 | | | | |
| | | | | | | | | | | | | | | | | |
| Signal Information | | | |  | | | | | | | | | | | | |
| Cycle, s | 90.0 | Reference Phase | 2 | | | | | | 1 | 2 | 3 | | | | | |
| Offset, s | 0 | Reference Point | End | Green | 69.0 | 13.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | Yellow | 4.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| Timer Results | | | | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT | | | | | |
| Assigned Phase | | | | | | 4 | | 8 | | 2 | | 6 | | | | |
| Case Number | | | | | | 6.0 | | 8.0 | | 8.0 | | 8.0 | | | | |
| Phase Duration, s | | | | | | 17.0 | | 17.0 | | 73.0 | | 73.0 | | | | |
| Change Period, (Y+R _c), s | | | | | | 4.0 | | 4.0 | | 4.0 | | 4.0 | | | | |
| Max Allow Headway (MAH), s | | | | | | 3.1 | | 3.1 | | 0.0 | | 0.0 | | | | |
| Queue Clearance Time (g _s), s | | | | | | 9.3 | | 3.0 | | | | | | | | |
| Green Extension Time (g _e), s | | | | | | 0.1 | | 0.2 | | 0.0 | | 0.0 | | | | |
| Phase Call Probability | | | | | | 1.00 | | 1.00 | | | | | | | | |
| Max Out Probability | | | | | | 0.49 | | 0.00 | | | | | | | | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | R | | | | |
| Assigned Movement | | | | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | | | | |
| Adjusted Flow Rate (v), veh/h | | | | 105 | 17 | | 23 | | 227 | 215 | 236 | 209 | | | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | 1422 | 1658 | | 1608 | | 1771 | 1715 | 1763 | 1557 | | | | |
| Queue Service Time (g _s), s | | | | 6.2 | 0.8 | | 0.0 | | 0.0 | 3.0 | 0.0 | 3.3 | | | | |
| Cycle Queue Clearance Time (g _c), s | | | | 7.3 | 0.8 | | 1.0 | | 2.8 | 3.0 | 3.0 | 3.3 | | | | |
| Green Ratio (g/C) | | | | 0.14 | 0.14 | | 0.14 | | 0.77 | 0.77 | 0.77 | 0.77 | | | | |
| Capacity (c), veh/h | | | | 269 | 239 | | 287 | | 1402 | 1315 | 1396 | 1194 | | | | |
| Volume-to-Capacity Ratio (X) | | | | 0.392 | 0.073 | | 0.079 | | 0.162 | 0.163 | 0.169 | 0.175 | | | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | 4.4 | 0.6 | | 0.8 | | 1.4 | 1.4 | 1.5 | 1.4 | | | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | 0.00 | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| Uniform Delay (d ₁), s/veh | | | | 36.5 | 33.3 | | 33.4 | | 2.8 | 2.8 | 2.8 | 2.8 | | | | |
| Incremental Delay (d ₂), s/veh | | | | 4.2 | 0.6 | | 0.5 | | 0.2 | 0.3 | 0.3 | 0.3 | | | | |
| Initial Queue Delay (d ₃), s/veh | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| Control Delay (d), s/veh | | | | 40.8 | 33.9 | | 33.9 | | 3.0 | 3.1 | 3.1 | 3.1 | | | | |
| Level of Service (LOS) | | | | D | C | | C | | A | A | A | A | | | | |
| Approach Delay, s/veh / LOS | | | | 39.8 | D | 33.9 | C | | 3.0 | A | 3.1 | A | | | | |
| Intersection Delay, s/veh / LOS | | | | | | 8.1 | | | | A | | | | | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | | | | | |
| Pedestrian LOS Score / LOS | | | | 2.13 | B | 2.13 | B | 1.61 | B | 1.83 | B | | | | | |
| Bicycle LOS Score / LOS | | | | 0.69 | A | 0.53 | A | 0.85 | A | 0.85 | A | | | | | |

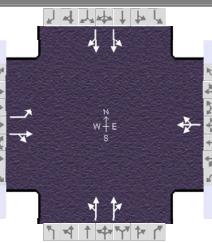
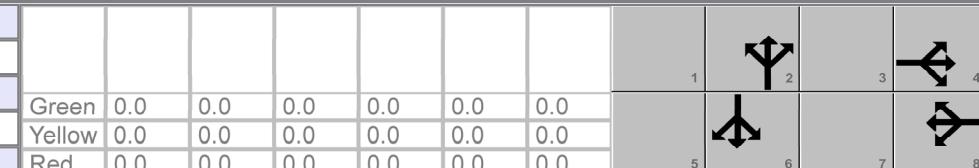
HCS Signalized Intersection Results Summary

| General Information | | | | | | Intersection Information | | |  | | | | | |
|--|-----------------------|-----------------|--------------------------------|---|-------------|--------------------------|-------|---|---|-------|-------|--|--|--|
| Agency | | | | | Duration, h | | 0.250 | | | | | | | |
| Analyst | | Analysis Date | | 12/7/2022 | | Area Type | | Other | | | | | | |
| Jurisdiction | | Time Period | | PHF | | 0.92 | | | | | | | | |
| Urban Street | Barrett | Analysis Year | 2022 | Analysis Period | | 1 > 7:00 | | | | | | | | |
| Intersection | St Anthony at Barrett | File Name | StAnthony_Barrett_AM_Build.xus | | | | | | | | | | | |
| Project Description | | AM Build | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | |
| Demand (v), veh/h | | | | 56 | 2 | 8 | 8 | 2 | 10 | 13 | 354 | | | |
| | | | | | | | | | | 9 | 24 | | | |
| | | | | | | | | | | 241 | 67 | | | |
| Signal Information | | | |  | | | |  | | | | | | |
| Cycle, s | 90.0 | Reference Phase | 2 | | | | 1 | 2 | | | | | | |
| Offset, s | 0 | Reference Point | End | Green | 75.0 | 7.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | Yellow | 4.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| Timer Results | | | | EBL | | EBT | | WBL | | WBT | | | | |
| Assigned Phase | | | | | | 4 | | 8 | | | | | | |
| Case Number | | | | | | 6.0 | | 8.0 | | | | | | |
| Phase Duration, s | | | | | | 11.0 | | 11.0 | | | | | | |
| Change Period, (Y+R _c), s | | | | | | 4.0 | | 4.0 | | | | | | |
| Max Allow Headway (MAH), s | | | | | | 3.1 | | 3.1 | | | | | | |
| Queue Clearance Time (g _s), s | | | | | | 6.8 | | 3.0 | | | | | | |
| Green Extension Time (g _e), s | | | | | | 0.0 | | 0.0 | | | | | | |
| Phase Call Probability | | | | | | 1.00 | | 1.00 | | | | | | |
| Max Out Probability | | | | | | 1.00 | | 0.32 | | | | | | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | |
| Assigned Movement | | | | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | | | |
| Adjusted Flow Rate (v), veh/h | | | | 61 | 11 | | 22 | | 212 | 196 | 188 | | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | 1423 | 1661 | | 1621 | | 1838 | 1714 | 1726 | | | |
| Queue Service Time (g _s), s | | | | 3.8 | 0.5 | | 0.0 | | 0.0 | 1.9 | 0.0 | | | |
| Cycle Queue Clearance Time (g _c), s | | | | 4.8 | 0.5 | | 1.0 | | 1.9 | 1.9 | 1.6 | | | |
| Green Ratio (g/C) | | | | 0.08 | 0.08 | | 0.08 | | 0.83 | 0.83 | 0.83 | | | |
| Capacity (c), veh/h | | | | 174 | 129 | | 182 | | 1574 | 1428 | 1484 | | | |
| Volume-to-Capacity Ratio (X) | | | | 0.350 | 0.084 | | 0.119 | | 0.135 | 0.137 | 0.127 | | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | 2.8 | 0.5 | | 0.9 | | 0.6 | 0.6 | 0.5 | | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | 0.00 | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | |
| Uniform Delay (d ₁), s/veh | | | | 41.0 | 38.5 | | 38.8 | | 1.4 | 1.4 | 1.4 | | | |
| Incremental Delay (d ₂), s/veh | | | | 5.5 | 1.3 | | 1.3 | | 0.2 | 0.2 | 0.2 | | | |
| Initial Queue Delay (d ₃), s/veh | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | 0.0 | 0.0 | | | |
| Control Delay (d), s/veh | | | | 46.5 | 39.8 | | 40.1 | | 1.6 | 1.6 | 1.6 | | | |
| Level of Service (LOS) | | | | D | D | | D | | A | A | A | | | |
| Approach Delay, s/veh / LOS | | | | 45.4 | D | | 40.1 | D | 1.6 | A | 1.6 | | | |
| Intersection Delay, s/veh / LOS | | | | 6.2 | | | | A | | | | | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | | | |
| Pedestrian LOS Score / LOS | | | | 2.13 | B | | 2.13 | B | 1.58 | B | 1.81 | | | |
| Bicycle LOS Score / LOS | | | | 0.61 | A | | 0.52 | A | 0.82 | A | 0.79 | | | |

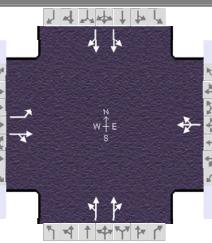
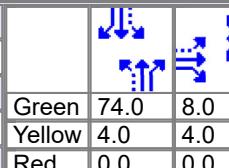
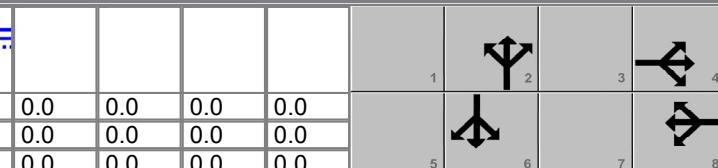
HCS Signalized Intersection Results Summary

| General Information | | | | | | Intersection Information | | | | | | | | | | |
|--|-----------------------|-----------------|-----|---------------|----------------------------------|--------------------------|-----------------|------|----------|-------|-------|--|--|--|--|--|
| Agency | | | | Duration, h | | 0.250 | | | | | | | | | | |
| Analyst | | | | Analysis Date | 12/7/2022 | | Area Type | | Other | | | | | | | |
| Jurisdiction | | | | Time Period | | | PHF | | 0.92 | | | | | | | |
| Urban Street | Barrett | | | Analysis Year | 2022 | | Analysis Period | | 1 > 7:00 | | | | | | | |
| Intersection | St Anthony at Barrett | | | File Name | StAnthony_Barrett_PM_NoBuild.xus | | | | | | | | | | | |
| Project Description | PM No Build | | | | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | | |
| Demand (v), veh/h | | | | 0 | 0 | 0 | 9 | 0 | 10 | 0 | 221 | | | | | |
| | | | | | | | | | | 15 | 655 | | | | | |
| | | | | | | | | | | | 0 | | | | | |
| Signal Information | | | | | | | | | | | | | | | | |
| Cycle, s | 90.0 | Reference Phase | 2 | | | | | | 1 | 2 | | | | | | |
| Offset, s | 0 | Reference Point | End | Green | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4 | | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | Yellow | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8 | | | | | |
| Timer Results | | | | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT | | | | | |
| Assigned Phase | | | | | | 4 | | | | | 2 | | | | | |
| Case Number | | | | | | 6.0 | | | | | 6.0 | | | | | |
| Phase Duration, s | | | | | | 11.0 | | | | | 79.0 | | | | | |
| Change Period, (Y+R _c), s | | | | | | 4.0 | | | | | 4.0 | | | | | |
| Max Allow Headway (MAH), s | | | | | | 0.0 | | | | | 0.0 | | | | | |
| Queue Clearance Time (g _s), s | | | | | | 0.0 | | | | | 0.0 | | | | | |
| Green Extension Time (g _e), s | | | | | | 0.0 | | | | | 0.0 | | | | | |
| Phase Call Probability | | | | | | 0.00 | | | | | 0.00 | | | | | |
| Max Out Probability | | | | | | 0.00 | | | | | 0.00 | | | | | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | | |
| Assigned Movement | | | | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | | | | | |
| Adjusted Flow Rate (v), veh/h | | | | 0 | 0 | | 0 | | 0 | 0 | 0 | | | | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | 0 | 0 | | 0 | | 0 | 0 | 0 | | | | | |
| Queue Service Time (g _s), s | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | |
| Cycle Queue Clearance Time (g _c), s | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | |
| Green Ratio (g/C) | | | | 0.08 | | | 0.08 | | | 0.83 | 0.83 | | | | | |
| Capacity (c), veh/h | | | | 80 | | | 182 | | | 1564 | 1602 | | | | | |
| Volume-to-Capacity Ratio (X) | | | | 0.000 | 0.000 | | 0.113 | | 0.000 | 0.079 | 0.237 | | | | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | 0.0 | 0.0 | | 0.9 | | 0.0 | 0.3 | 1.2 | | | | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | 0.00 | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| Uniform Delay (d ₁), s/veh | | | | 0.0 | | | 38.7 | | | 1.3 | 1.6 | | | | | |
| Incremental Delay (d ₂), s/veh | | | | 0.0 | 0.0 | | 1.3 | | 0.0 | 0.1 | 0.3 | | | | | |
| Initial Queue Delay (d ₃), s/veh | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | |
| Control Delay (d), s/veh | | | | 0.0 | | | 40.0 | | | 1.4 | 1.9 | | | | | |
| Level of Service (LOS) | | | | | | | D | | | A | A | | | | | |
| Approach Delay, s/veh / LOS | | | | 0.0 | | | 40.0 | | D | 1.4 | A | | | | | |
| Intersection Delay, s/veh / LOS | | | | | | | 2.6 | | | | A | | | | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | | | | | |
| Pedestrian LOS Score / LOS | | | | 2.13 | B | 2.13 | B | 1.58 | B | 1.81 | B | | | | | |
| Bicycle LOS Score / LOS | | | | 0.49 | A | 0.52 | A | 0.69 | A | 1.09 | A | | | | | |

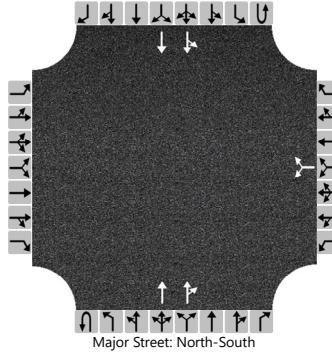
HCS Signalized Intersection Results Summary

| General Information | | | | | | Intersection Information | | |  | | | | | |
|--|-----------------------|-----------------|-----|--|-------|---------------------------------------|-------|------|---|-------|-------|--|--|--|
| Agency | | | | Duration, h | | 0.250 | | | | | | | | |
| Analyst | | | | Analysis Date | | 12/7/2022 | | | | | | | | |
| Jurisdiction | | | | Time Period | | PHF | | | | | | | | |
| Urban Street | Barrett | | | Analysis Year | | 2022 | | | Analysis Period | | | | | |
| Intersection | St Anthony at Barrett | | | File Name | | StAnthony_Barrett_PM_BuildGovtCtr.xus | | | | | | | | |
| Project Description | PM Build (Govt Ctr) | | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | |
| Demand (v), veh/h | | | | 98 | 3 | 32 | 9 | 2 | 10 | 9 | 264 | | | |
| | | | | | | | | | | 8 | 15 | | | |
| | | | | | | | | | | 701 | 87 | | | |
| Signal Information | | | |  | | | | | | | | | | |
| Cycle, s | 90.0 | Reference Phase | 2 | | | | | | 1 | 2 | | | | |
| Offset, s | 0 | Reference Point | End | Green | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | Yellow | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| Timer Results | | | | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT | | | |
| Assigned Phase | | | | | 4 | | 8 | | 2 | | 6 | | | |
| Case Number | | | | | 6.0 | | 8.0 | | 8.0 | | 8.0 | | | |
| Phase Duration, s | | | | | 13.0 | | 13.0 | | 77.0 | | 77.0 | | | |
| Change Period, (Y+R _c), s | | | | | 4.0 | | 4.0 | | 4.0 | | 4.0 | | | |
| Max Allow Headway (MAH), s | | | | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | |
| Queue Clearance Time (g _s), s | | | | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | |
| Green Extension Time (g _e), s | | | | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | |
| Phase Call Probability | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| Max Out Probability | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | |
| Assigned Movement | | | | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | | | |
| Adjusted Flow Rate (v), veh/h | | | | 0 | 0 | | 0 | | 0 | 0 | 0 | | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | 0 | 0 | | 0 | | 0 | 0 | 0 | | | |
| Queue Service Time (g _s), s | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | 0.0 | 0.0 | | | |
| Cycle Queue Clearance Time (g _c), s | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | 0.0 | 0.0 | | | |
| Green Ratio (g/C) | | | | 0.10 | 0.10 | | 0.10 | | 0.81 | 0.81 | 0.81 | | | |
| Capacity (c), veh/h | | | | 205 | 163 | | 216 | | 1482 | 1388 | 1565 | | | |
| Volume-to-Capacity Ratio (X) | | | | 0.519 | 0.233 | | 0.106 | | 0.106 | 0.107 | 0.296 | | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | 5.0 | 1.6 | | 0.9 | | 0.6 | 0.6 | 2.1 | | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | 0.00 | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | |
| Uniform Delay (d ₁), s/veh | | | | 40.4 | 37.3 | | 36.9 | | 1.8 | 1.8 | 2.1 | | | |
| Incremental Delay (d ₂), s/veh | | | | 9.1 | 3.3 | | 1.0 | | 0.1 | 0.2 | 0.5 | | | |
| Initial Queue Delay (d ₃), s/veh | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | 0.0 | 0.0 | | | |
| Control Delay (d), s/veh | | | | 49.5 | 40.6 | | 37.9 | | 1.9 | 1.9 | 2.6 | | | |
| Level of Service (LOS) | | | | D | D | | D | | A | A | A | | | |
| Approach Delay, s/veh / LOS | | | | 47.2 | D | 37.9 | D | | 1.9 | A | 2.7 | | | |
| Intersection Delay, s/veh / LOS | | | | | | 7.9 | | | | A | | | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | | | |
| Pedestrian LOS Score / LOS | | | | 2.13 | B | 2.13 | B | 1.59 | B | 1.82 | B | | | |
| Bicycle LOS Score / LOS | | | | 0.73 | A | 0.53 | A | 0.74 | A | 1.21 | A | | | |

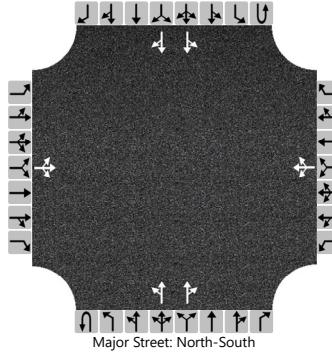
HCS Signalized Intersection Results Summary

| General Information | | | | | | Intersection Information | | |  | | | | | | | | | |
|--|---------|-----------------|------|---|-------------|--------------------------|-------|--|---|---------|-------|--|--|--|--|--|--|--|
| Agency | | | | | Duration, h | | 0.250 | | | | | | | | | | | |
| Analyst | | Analysis Date | | 12/7/2022 | | Area Type | | Other | | | | | | | | | | |
| Jurisdiction | | Time Period | | PHF | | 0.92 | | | | | | | | | | | | |
| Urban Street | Barrett | Analysis Year | 2022 | Analysis Period | | 1 > 7:00 | | | | | | | | | | | | |
| Intersection | | File Name | | StAnthony_Barrett_PM_Build.xus | | | | | | | | | | | | | | |
| Project Description | | PM Build | | | | | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | | | | |
| Demand (v), veh/h | | | | 75 | 2 | 24 | 9 | 2 | 10 | 7 | 254 | | | | | | | |
| | | | | | | | | | | | 8 | | | | | | | |
| Signal Information | | | |  | | | |  | | | | | | | | | | |
| Cycle, s | 90.0 | Reference Phase | 2 | | | | 1 | 2 | 3 | | | | | | | | | |
| Offset, s | 0 | Reference Point | End | Green | 74.0 | 8.0 | 0.0 | 0.0 | 0.0 | 4 | | | | | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | Yellow | 4.0 | 4.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 6 7 8 | | | | | | | | |
| Timer Results | | | | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT | | | | | | | |
| Assigned Phase | | | | | | 4 | | 8 | | 2 | 6 | | | | | | | |
| Case Number | | | | | | 6.0 | | 8.0 | | 8.0 | 8.0 | | | | | | | |
| Phase Duration, s | | | | | | 12.0 | | 12.0 | | 78.0 | 78.0 | | | | | | | |
| Change Period, (Y+R _c), s | | | | | | 4.0 | | 4.0 | | 4.0 | 4.0 | | | | | | | |
| Max Allow Headway (MAH), s | | | | | | 3.1 | | 3.1 | | 0.0 | 0.0 | | | | | | | |
| Queue Clearance Time (g _s), s | | | | | | 8.1 | | 3.1 | | | | | | | | | | |
| Green Extension Time (g _e), s | | | | | | 0.0 | | 0.1 | | 0.0 | 0.0 | | | | | | | |
| Phase Call Probability | | | | | | 1.00 | | 1.00 | | | | | | | | | | |
| Max Out Probability | | | | | | 1.00 | | 0.12 | | | | | | | | | | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | | | | |
| Assigned Movement | | | | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | | | | | | | |
| Adjusted Flow Rate (v), veh/h | | | | 82 | 28 | | 23 | | 152 | 141 | 448 | | | | | | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | 1423 | 1629 | | 1600 | | 1810 | 1710 | 1878 | | | | | | | |
| Queue Service Time (g _s), s | | | | 5.0 | 1.4 | | 0.0 | | 0.0 | 1.4 | 0.0 | | | | | | | |
| Cycle Queue Clearance Time (g _c), s | | | | 6.1 | 1.4 | | 1.1 | | 1.4 | 1.4 | 4.9 | | | | | | | |
| Green Ratio (g/C) | | | | 0.09 | 0.09 | | 0.09 | | 0.82 | 0.82 | 0.82 | | | | | | | |
| Capacity (c), veh/h | | | | 189 | 145 | | 199 | | 1530 | 1406 | 1585 | | | | | | | |
| Volume-to-Capacity Ratio (X) | | | | 0.431 | 0.195 | | 0.115 | | 0.099 | 0.100 | 0.282 | | | | | | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | 3.8 | 1.2 | | 0.9 | | 0.5 | 0.5 | 1.7 | | | | | | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | 0.00 | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | | | |
| Uniform Delay (d ₁), s/veh | | | | 40.7 | 38.0 | | 37.8 | | 1.5 | 1.5 | 1.9 | | | | | | | |
| Incremental Delay (d ₂), s/veh | | | | 7.0 | 3.0 | | 1.2 | | 0.1 | 0.1 | 0.4 | | | | | | | |
| Initial Queue Delay (d ₃), s/veh | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | | | |
| Control Delay (d), s/veh | | | | 47.7 | 41.0 | | 39.0 | | 1.7 | 1.7 | 2.3 | | | | | | | |
| Level of Service (LOS) | | | | D | D | | D | | A | A | A | | | | | | | |
| Approach Delay, s/veh / LOS | | | | 46.0 | D | 39.0 | D | | 1.7 | A | 2.4 | | | | | | | |
| Intersection Delay, s/veh / LOS | | | | | | 6.6 | | | | A | | | | | | | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | | | | | | | |
| Pedestrian LOS Score / LOS | | | | 2.13 | B | 2.13 | B | 1.59 | B | 1.81 | B | | | | | | | |
| Bicycle LOS Score / LOS | | | | 0.67 | A | 0.53 | A | 0.73 | A | 1.19 | A | | | | | | | |

HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|----|----|----------------------------|-----------|------|---|-------------------|------------|-----|----|---|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | | Debarr at Barrett | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | | | Debarr | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | | Barrett | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | AM No Build | | | Peak Hour Factor | | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | North-South | | | Analysis Time Period (hrs) | | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: North-South | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | | | | | | | | | | | | | | | | | | | | | | | |
| Priority | | 10 | 11 | 12 | | 7 | 8 | 9 | 1U | 1 | 2 | 3 | 4U | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | | 0 | 0 | 0 | | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | | LR | | | | T | TR | | LT | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | | 10 | | 10 | | 324 | 40 | | 17 | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | | 3 | | 3 | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | | 7.5 | | 6.9 | | | | | 4.1 | | | | | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | | 6.86 | | 6.96 | | | | | 4.16 | | | | | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | | 3.5 | | 3.3 | | | | | 2.2 | | | | | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | | 3.53 | | 3.33 | | | | | 2.23 | | | | | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | | 22 | | | | | | | 18 | | | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | | 598 | | | | | | | 1152 | | | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | | 0.04 | | | | | | | 0.02 | | | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | | 0.1 | | | | | | | 0.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | | 11.2 | | | | | | | 8.2 | | | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | | B | | | | | | | A | | | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | | | | 11.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | | | | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------|------|------|----------------------------|-----------|------|-------------------|------|------------|------|-----|-----|------------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | Debarr at Barrett | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | | Debarr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | Barrett | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | AM Build (Govt Ctr) | | | Peak Hour Factor | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | North-South | | | Analysis Time Period (hrs) | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: North-South | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | | | | | | | | | | | | | | | | | | | | | | | |
| Priority | | 10 | 11 | 12 | | 7 | 8 | 9 | 1U | 1 | 2 | 3 | 4U | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | | 0 | 1 | 0 | | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration | | LTR | | | | LTR | | | LT | | TR | | LT | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | 50 | 8 | 24 | | 10 | 3 | 10 | | 45 | 346 | 40 | | 17 | | | | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | 3 | 3 | 3 | | 3 | 3 | 3 | | 3 | | | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | 0 | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | 7.5 | 6.5 | 6.9 | | 7.5 | 6.5 | 6.9 | | 4.1 | | | 4.1 | | | | | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | 7.56 | 6.56 | 6.96 | | 7.56 | 6.56 | 6.96 | | 4.16 | | | 4.16 | | | | | | | | | | | | | | | | | | | | | | | |
| 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) | | 3.53 | 4.03 | 3.33 | | 3.53 | 4.03 | 3.33 | | 2.23 | | | 2.23 | | | | | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | 89 | | | | 25 | | | 49 | | | 18 | | | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | 420 | | | | 415 | | | 1257 | | | 1129 | | | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | 0.21 | | | | 0.06 | | | 0.04 | | | 0.02 | | | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | 0.8 | | | | 0.2 | | | 0.1 | | | 0.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | 15.9 | | | | 14.2 | | | 8.0 | 0.3 | | 8.2 | 0.1 | | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | C | | | | B | | | A | A | | A | A | | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | 15.9 | | | | 14.2 | | | | 1.1 | | | 0.6 | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | C | | | | B | | | | A | | | A | | | | | | | | | | | | | | | | | | | | | | | | |

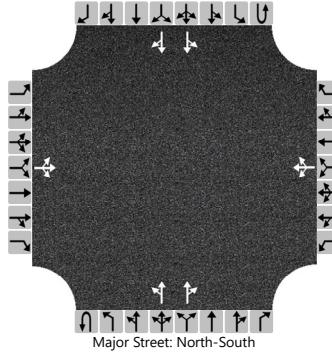
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|------|------|----------------------------|-----------|------|------|-------------------|------------|------|-----|-----|------------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | | Debarr at Barrett | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | | | Debarr | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | | Barrett | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | AM Build | | | Peak Hour Factor | | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | North-South | | | Analysis Time Period (hrs) | | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Major Street: North-South | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | | | | | | | | | | | | | | | | | | | | | | | |
| Priority | | 10 | 11 | 12 | | 7 | 8 | 9 | 1U | 1 | 2 | 3 | 4U | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | | 0 | 1 | 0 | | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration | | LTR | | | | LTR | | | LT | | TR | | LT | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | 29 | 5 | 14 | | 10 | 2 | 10 | | 25 | 337 | 40 | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | 3 | 3 | 3 | | 3 | 3 | 3 | | 3 | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | 0 | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | 7.5 | 6.5 | 6.9 | | 7.5 | 6.5 | 6.9 | | 4.1 | | | 4.1 | | | | | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | 7.56 | 6.56 | 6.96 | | 7.56 | 6.56 | 6.96 | | 4.16 | | | 4.16 | | | | | | | | | | | | | | | | | | | | | | | |
| 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) | | 3.53 | 4.03 | 3.33 | | 3.53 | 4.03 | 3.33 | | 2.23 | | | 2.23 | | | | | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | 52 | | | | 24 | | | 27 | | | 18 | | | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | 473 | | | | 472 | | | 1293 | | | 1138 | | | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | 0.11 | | | | 0.05 | | | 0.02 | | | 0.02 | | | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | 0.4 | | | | 0.2 | | | 0.1 | | | 0.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | 13.6 | | | | 13.0 | | | 7.8 | 0.2 | | 8.2 | 0.1 | | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | B | | | | B | | | A | A | | A | A | | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | 13.6 | | | | 13.0 | | | | 0.6 | | | 0.6 | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | B | | | | B | | | | A | | | A | | | | | | | | | | | | | | | | | | | | | | | | |

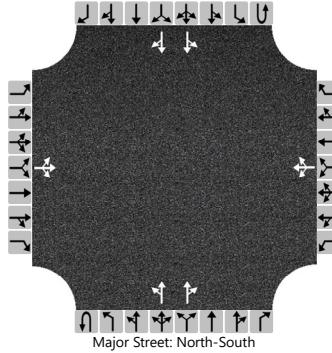
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|----|----|----------------------------|-----------|------|---|-------------------|------------|-----|----|----|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | | Debarr at Barrett | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | | | Debarr | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | | Barrett | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | PM No Build | | | Peak Hour Factor | | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | North-South | | | Analysis Time Period (hrs) | | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Major Street: North-South | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | | | | | | | | | | | | | | | | | | | | | | | |
| Priority | | 10 | 11 | 12 | | 7 | 8 | 9 | 1U | 1 | 2 | 3 | 4U | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | | 0 | 0 | 0 | | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | | LR | | | | T | TR | | LT | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | | 41 | | 9 | | 220 | | 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | | 3 | | 3 | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | | 7.5 | | 6.9 | | | | | 4.1 | | | | | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | | 6.86 | | 6.96 | | | | | 4.16 | | | | | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | | 3.5 | | 3.3 | | | | | 2.2 | | | | | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | | 3.53 | | 3.33 | | | | | 2.23 | | | | | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | | 54 | | | | | | | 11 | | | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | | 453 | | | | | | | 1293 | | | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | | 0.12 | | | | | | | 0.01 | | | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | | 0.4 | | | | | | | 0.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | | 14.0 | | | | | | | 7.8 | | | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | | B | | | | | | | A | | | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | 14.0 | | | | | | | | 0.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | B | | | | | | | | A | | | | | | | | | | | | | | | | | | | | | | | | | | | |

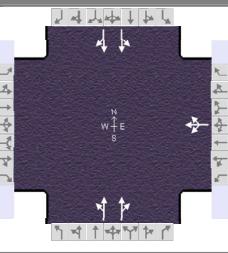
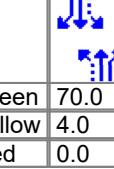
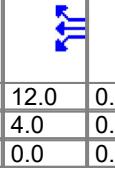
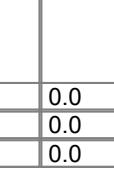
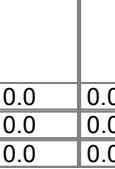
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------|------|------|----------------------------|-----------|------|-------------------|------|------------|------|-----|------|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | Debarr at Barrett | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | | Debarr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | Barrett | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | PM Build (Govt Ctr) | | | Peak Hour Factor | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | North-South | | | Analysis Time Period (hrs) | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: North-South | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | | | | | | | | | | | | | | | | | | | | | | | |
| Priority | | 10 | 11 | 12 | | 7 | 8 | 9 | 1U | 1 | 2 | 3 | 4U | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | | 0 | 1 | 0 | | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration | | LTR | | | | LTR | | | LT | | TR | | LT | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | 43 | 3 | 57 | | 41 | 4 | 9 | | 20 | 229 | 20 | 10 | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | 3 | 3 | 3 | | 3 | 3 | 3 | | 3 | | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | 0 | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | 7.5 | 6.5 | 6.9 | | 7.5 | 6.5 | 6.9 | | 4.1 | | | 4.1 | | | | | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | 7.56 | 6.56 | 6.96 | | 7.56 | 6.56 | 6.96 | | 4.16 | | | 4.16 | | | | | | | | | | | | | | | | | | | | | | | |
| 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) | | 3.53 | 4.03 | 3.33 | | 3.53 | 4.03 | 3.33 | | 2.23 | | | 2.23 | | | | | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | 112 | | | 59 | | | 22 | | | 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | 310 | | | 300 | | | 815 | | | 1283 | | | | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | 0.36 | | | 0.20 | | | 0.03 | | | 0.01 | | | | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | 1.6 | | | 0.7 | | | 0.1 | | | 0.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | 23.0 | | | 19.9 | | | 9.5 | 0.2 | | 7.8 | 0.1 | | | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | C | | | C | | | A | A | | A | A | | | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | 23.0 | | | 19.9 | | | 0.9 | | | | 0.2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | C | | | C | | | A | | | | A | | | | | | | | | | | | | | | | | | | | | | | | | |

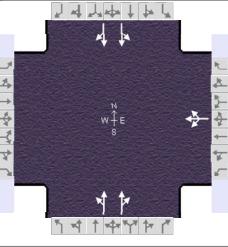
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|------|------|----------------------------|-----------|------|------|-------------------|------------|------|-----|-----|------------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | | Debarr at Barrett | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | | | Debarr | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | | Barrett | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | PM Build | | | Peak Hour Factor | | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | North-South | | | Analysis Time Period (hrs) | | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: North-South | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | | | | | | | | | | | | | | | | | | | | | | | |
| Priority | | 10 | 11 | 12 | | 7 | 8 | 9 | 1U | 1 | 2 | 3 | 4U | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | | 0 | 1 | 0 | | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration | | LTR | | | | LTR | | | LT | | TR | | LT | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | 33 | 2 | 44 | | 41 | 4 | 9 | | 16 | 227 | 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | 3 | 3 | 3 | | 3 | 3 | 3 | | 3 | | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | 0 | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | 7.5 | 6.5 | 6.9 | | 7.5 | 6.5 | 6.9 | | 4.1 | | | 4.1 | | | | | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | 7.56 | 6.56 | 6.96 | | 7.56 | 6.56 | 6.96 | | 4.16 | | | 4.16 | | | | | | | | | | | | | | | | | | | | | | | |
| 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) | | 3.53 | 4.03 | 3.33 | | 3.53 | 4.03 | 3.33 | | 2.23 | | | 2.23 | | | | | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | 86 | | | | 59 | | | 17 | | | 11 | | | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | 323 | | | | 319 | | | 829 | | | 1285 | | | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | 0.27 | | | | 0.18 | | | 0.02 | | | 0.01 | | | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | 1.0 | | | | 0.7 | | | 0.1 | | | 0.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | 20.1 | | | | 18.8 | | | 9.4 | 0.2 | | 7.8 | 0.1 | | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | C | | | | C | | | A | A | | A | A | | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | 20.1 | | | | 18.8 | | | | 0.7 | | | 0.2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | C | | | | C | | | | A | | | A | | | | | | | | | | | | | | | | | | | | | | | | |

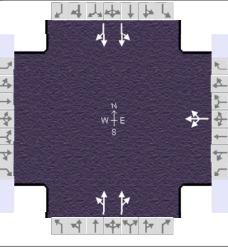
HCS Signalized Intersection Results Summary

| General Information | | | | | | Intersection Information | | |  | | | | | | | |
|--|-------------------------|-----------------|-----|---|---|--------------------------|-----------------|------|---|---|---|-----|--|--|--|--|
| Agency | | | | Duration, h | | 0.250 | | | | | | | | | | |
| Analyst | | | | Analysis Date | 12/7/2022 | | Area Type | | Other | | | | | | | |
| Jurisdiction | | | | Time Period | | | PHF | | 0.92 | | | | | | | |
| Urban Street | Barrett | | | Analysis Year | 2022 | | Analysis Period | | 1 > 7:00 | | | | | | | |
| Intersection | Barrett at Breckinridge | | | File Name | Streets1.xus | | | | | | | | | | | |
| Project Description | AM No Build | | | | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | | |
| Demand (v), veh/h | | | | | | | 16 | 53 | 14 | 241 | 350 | | | | | |
| | | | | | | | | | | 13 | 5 | | | | | |
| | | | | | | | | | | 160 | 45 | | | | | |
| Signal Information | | | |  |  | | | |  |  |  | | | | | |
| Cycle, s | 90.0 | Reference Phase | 2 | | | | | | | | | | | | | |
| Offset, s | 0 | Reference Point | End | | | | Green | 70.0 | 12.0 | 0.0 | 0.0 | 0.0 | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | | | | Yellow | 4.0 | 4.0 | 0.0 | 0.0 | 0.0 | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | | | | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| Timer Results | | | | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT | | | | | |
| Assigned Phase | | | | | | | | 8 | | 2 | 6 | | | | | |
| Case Number | | | | | | | | 12.0 | | 8.0 | 8.0 | | | | | |
| Phase Duration, s | | | | | | | | 16.0 | | 74.0 | 74.0 | | | | | |
| Change Period, (Y+R _c), s | | | | | | | | 4.0 | | 4.0 | 4.0 | | | | | |
| Max Allow Headway (MAH), s | | | | | | | | 3.1 | | 0.0 | 0.0 | | | | | |
| Queue Clearance Time (g _s), s | | | | | | | | 6.1 | | | | | | | | |
| Green Extension Time (g _e), s | | | | | | | | 0.1 | | 0.0 | 0.0 | | | | | |
| Phase Call Probability | | | | | | | | 1.00 | | | | | | | | |
| Max Out Probability | | | | | | | | 0.02 | | | | | | | | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | | |
| Assigned Movement | | | | | | | 3 | 8 | 18 | 5 | 2 | | | | | |
| Adjusted Flow Rate (v), veh/h | | | | | | | 90 | | 290 | 367 | 121 | | | | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | | | | 1827 | | 1202 | 1717 | 1862 | | | | | |
| Queue Service Time (g _s), s | | | | | | | 4.1 | | 6.2 | 5.4 | 0.0 | | | | | |
| Cycle Queue Clearance Time (g _c), s | | | | | | | 4.1 | | 7.7 | 5.4 | 1.4 | | | | | |
| Green Ratio (g/C) | | | | | | | 0.13 | | 0.78 | 0.78 | 0.78 | | | | | |
| Capacity (c), veh/h | | | | | | | 244 | | 1011 | 1336 | 1490 | | | | | |
| Volume-to-Capacity Ratio (X) | | | | | | | 0.370 | | 0.287 | 0.275 | 0.081 | | | | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | | | | 3.7 | | 2.2 | 2.4 | 0.6 | | | | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | | | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| Uniform Delay (d ₁), s/veh | | | | | | | 35.6 | | 3.2 | 2.8 | 2.4 | | | | | |
| Incremental Delay (d ₂), s/veh | | | | | | | 4.3 | | 0.7 | 0.5 | 0.1 | | | | | |
| Initial Queue Delay (d ₃), s/veh | | | | | | | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | |
| Control Delay (d), s/veh | | | | | | | 39.8 | | 3.9 | 3.3 | 2.5 | | | | | |
| Level of Service (LOS) | | | | | | | D | | A | A | A | | | | | |
| Approach Delay, s/veh / LOS | | | | 0.0 | | | 39.8 | D | 3.6 | A | 2.5 | | | | | |
| Intersection Delay, s/veh / LOS | | | | | | | 6.7 | | | | A | | | | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | | | | | |
| Pedestrian LOS Score / LOS | | | | 2.14 | B | 2.14 | B | 1.31 | A | 1.31 | A | | | | | |
| Bicycle LOS Score / LOS | | | | 0.64 | A | 1.03 | A | 0.68 | A | | | | | | | |

HCS Signalized Intersection Results Summary

| General Information | | | | | | Intersection Information | | |  | | | | | |
|--|-------------------------|---------------------|--|-----------------|-------------|--------------------------|-------|-------|---|-------|-------|-------|--|--|
| Agency | | | | | Duration, h | | 0.250 | | | | | | | |
| Analyst | | Analysis Date | | 12/7/2022 | | Area Type | | Other | | | | | | |
| Jurisdiction | | Time Period | | PHF | | 0.92 | | | | | | | | |
| Urban Street | Barrett | Analysis Year | 2022 | Analysis Period | | 1>7:00 | | | | | | | | |
| Intersection | Barrett at Breckinridge | File Name | Breckinridge_Barrett_AM_BuildGovtCtr.xus | | | | | | | | | | | |
| Project Description | | AM Build (Govt Ctr) | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | R | | |
| Demand (v), veh/h | | | | | | | 16 | 59 | 20 | 289 | 411 | 13 | | |
| | | | | | | | | | | 8 | 194 | 45 | | |
| Signal Information | | | | | | | | | | | | | | |
| Cycle, s | 90.0 | Reference Phase | 2 | | | | | | | | | | | |
| Offset, s | 0 | Reference Point | End | | Green | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | | Yellow | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| Timer Results | | | | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT | | | |
| Assigned Phase | | | | | | | 8 | | 2 | | 6 | | | |
| Case Number | | | | | | | 12.0 | | 8.0 | | 8.0 | | | |
| Phase Duration, s | | | | | | | 14.0 | | 76.0 | | 76.0 | | | |
| Change Period, (Y+R _c), s | | | | | | | 4.0 | | 4.0 | | 4.0 | | | |
| Max Allow Headway (MAH), s | | | | | | | 0.0 | | 0.0 | | 0.0 | | | |
| Queue Clearance Time (g _s), s | | | | | | | 0.0 | | 0.0 | | 0.0 | | | |
| Green Extension Time (g _e), s | | | | | | | 0.0 | | 0.0 | | 0.0 | | | |
| Phase Call Probability | | | | | | | 0.00 | | 0.00 | | 0.00 | | | |
| Max Out Probability | | | | | | | 0.00 | | 0.00 | | 0.00 | | | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | R | | |
| Assigned Movement | | | | | | | 3 | 8 | 18 | 5 | 2 | 12 | | |
| Adjusted Flow Rate (v), veh/h | | | | | | | 0 | | 0 | 0 | | 0 | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | | | | 0 | | 0 | 0 | | 0 | | |
| Queue Service Time (g _s), s | | | | | | | 0.0 | | 0.0 | 0.0 | | 0.0 | | |
| Cycle Queue Clearance Time (g _c), s | | | | | | | 0.0 | | 0.0 | 0.0 | | 0.0 | | |
| Green Ratio (g/C) | | | | | | | 0.11 | | 0.80 | 0.80 | 0.80 | 0.80 | | |
| Capacity (c), veh/h | | | | | | | 202 | | 985 | 1375 | 1508 | 1293 | | |
| Volume-to-Capacity Ratio (X) | | | | | | | 0.512 | | 0.334 | 0.324 | 0.094 | 0.098 | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | | | | 4.7 | | 2.4 | 2.5 | 0.6 | 0.6 | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | | | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Uniform Delay (d ₁), s/veh | | | | | | | 37.7 | | 3.0 | 2.4 | 1.9 | 2.0 | | |
| Incremental Delay (d ₂), s/veh | | | | | | | 9.0 | | 0.9 | 0.6 | 0.1 | 0.2 | | |
| Initial Queue Delay (d ₃), s/veh | | | | | | | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Control Delay (d), s/veh | | | | | | | 46.7 | | 3.9 | 3.1 | 2.1 | 2.1 | | |
| Level of Service (LOS) | | | | | | | D | | A | A | A | A | | |
| Approach Delay, s/veh / LOS | | | | 0.0 | | | 46.7 | D | 3.4 | A | 2.1 | A | | |
| Intersection Delay, s/veh / LOS | | | | | | | 7.0 | | | | A | | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | | | |
| Pedestrian LOS Score / LOS | | | | 2.14 | B | 2.14 | B | 1.30 | A | 1.30 | A | | | |
| Bicycle LOS Score / LOS | | | | | | 0.66 | A | 1.13 | A | 0.71 | A | | | |

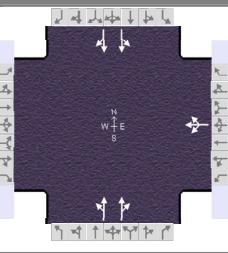
HCS Signalized Intersection Results Summary

| General Information | | | | | | Intersection Information | | |  | | | | | |
|--|-------------------------|-----------------|-----|---------------|--------|-----------------------------------|-------|------|---|------|-------|--|--|--|
| Agency | | | | Duration, h | | 0.250 | | | | | | | | |
| Analyst | | | | Analysis Date | | 12/7/2022 | | | | | | | | |
| Jurisdiction | | | | Time Period | | PHF | | | | | | | | |
| Urban Street | Barrett | | | Analysis Year | | 2022 | | | Analysis Period | | | | | |
| Intersection | Barrett at Breckinridge | | | File Name | | Breckinridge_Barrett_AM_Nuild.xus | | | | | | | | |
| Project Description | AM Build | | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | |
| Demand (v), veh/h | | | | 16 | 57 | 18 | 268 | 384 | 13 | 7 | 180 | | | |
| Demand (v), veh/h | | | | 16 | 57 | 18 | 268 | 384 | 13 | 7 | 180 | | | |
| Signal Information | | | | | | | | | | | | | | |
| Cycle, s | 90.0 | Reference Phase | 2 | | | | | | | | | | | |
| Offset, s | 0 | Reference Point | End | | Green | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | | Yellow | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | | Red | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| Timer Results | | | | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT | | | |
| Assigned Phase | | | | | | | 8 | | 2 | | 6 | | | |
| Case Number | | | | | | | 12.0 | | 8.0 | | 8.0 | | | |
| Phase Duration, s | | | | | | | 16.0 | | 74.0 | | 74.0 | | | |
| Change Period, (Y+R _c), s | | | | | | | 4.0 | | 4.0 | | 4.0 | | | |
| Max Allow Headway (MAH), s | | | | | | | 0.0 | | 0.0 | | 0.0 | | | |
| Queue Clearance Time (g _s), s | | | | | | | 0.0 | | 0.0 | | 0.0 | | | |
| Green Extension Time (g _e), s | | | | | | | 0.0 | | 0.0 | | 0.0 | | | |
| Phase Call Probability | | | | | | | 0.00 | | 0.00 | | 0.00 | | | |
| Max Out Probability | | | | | | | 0.00 | | 0.00 | | 0.00 | | | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | |
| Assigned Movement | | | | | | | 3 | 8 | 18 | 5 | 2 | | | |
| Adjusted Flow Rate (v), veh/h | | | | | | | 0 | | 0 | | 0 | | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | | | | 0 | | 0 | | 0 | | | |
| Queue Service Time (g _s), s | | | | | | | 0.0 | | 0.0 | | 0.0 | | | |
| Cycle Queue Clearance Time (g _c), s | | | | | | | 0.0 | | 0.0 | | 0.0 | | | |
| Green Ratio (g/C) | | | | | | | 0.13 | | 0.78 | | 0.78 | | | |
| Capacity (c), veh/h | | | | | | | 243 | | 977 | | 1337 | | | |
| Volume-to-Capacity Ratio (X) | | | | | | | 0.408 | | 0.319 | | 0.307 | | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | | | | 4.1 | | 2.6 | | 2.8 | | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | | | | 0.00 | | 0.00 | | 0.00 | | | |
| Uniform Delay (d ₁), s/veh | | | | | | | 35.7 | | 3.5 | | 2.9 | | | |
| Incremental Delay (d ₂), s/veh | | | | | | | 5.0 | | 0.9 | | 0.6 | | | |
| Initial Queue Delay (d ₃), s/veh | | | | | | | 0.0 | | 0.0 | | 0.0 | | | |
| Control Delay (d), s/veh | | | | | | | 40.8 | | 4.4 | | 3.5 | | | |
| Level of Service (LOS) | | | | | | | D | | A | | A | | | |
| Approach Delay, s/veh / LOS | | | | 0.0 | | | 40.8 | | 3.9 | | 2.5 | | | |
| Intersection Delay, s/veh / LOS | | | | | | | 7.0 | | | | A | | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | | | |
| Pedestrian LOS Score / LOS | | | | 2.14 | B | 2.14 | B | 1.31 | A | 1.31 | A | | | |
| Bicycle LOS Score / LOS | | | | 0.65 | A | 1.08 | A | 0.70 | A | | | | | |

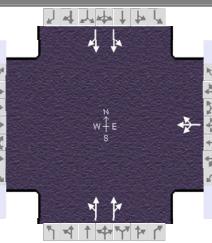
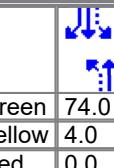
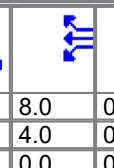
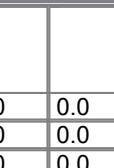
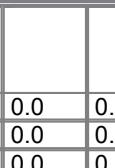
HCS Signalized Intersection Results Summary

| General Information | | | | | | Intersection Information | | | | | | | | | | |
|--|-------------------------|-----------------|-----|---------------|-------------------------------------|--------------------------|-----------------|------|----------|-------|-------|--|--|--|--|--|
| Agency | | | | Duration, h | | 0.250 | | | | | | | | | | |
| Analyst | | | | Analysis Date | 12/7/2022 | | Area Type | | Other | | | | | | | |
| Jurisdiction | | | | Time Period | | | PHF | | 0.92 | | | | | | | |
| Urban Street | Barrett | | | Analysis Year | 2022 | | Analysis Period | | 1 > 7:00 | | | | | | | |
| Intersection | Barrett at Breckinridge | | | File Name | Breckinridge_Barrett_PM_NoBuild.xus | | | | | | | | | | | |
| Project Description | PM No Build | | | | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | | |
| Demand (v), veh/h | | | | | | | 22 | 36 | 3 | 121 | 237 | | | | | |
| | | | | | | | | | | 11 | 8 | | | | | |
| | | | | | | | | | | 606 | 81 | | | | | |
| Signal Information | | | | | | | | | | | | | | | | |
| Cycle, s | 90.0 | Reference Phase | 2 | | | | | 1 | 2 | | | | | | | |
| Offset, s | 0 | Reference Point | End | Green | 74.0 | 8.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | Yellow | 4.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | |
| Timer Results | | | | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT | | | | | |
| Assigned Phase | | | | | | | 8 | | 2 | | 6 | | | | | |
| Case Number | | | | | | | 12.0 | | 8.0 | | 8.0 | | | | | |
| Phase Duration, s | | | | | | | 12.0 | | 78.0 | | 78.0 | | | | | |
| Change Period, (Y+R _c), s | | | | | | | 4.0 | | 4.0 | | 4.0 | | | | | |
| Max Allow Headway (MAH), s | | | | | | | 3.1 | | 0.0 | | 0.0 | | | | | |
| Queue Clearance Time (g _s), s | | | | | | | 5.0 | | | | | | | | | |
| Green Extension Time (g _e), s | | | | | | | 0.0 | | 0.0 | | 0.0 | | | | | |
| Phase Call Probability | | | | | | | 1.00 | | | | | | | | | |
| Max Out Probability | | | | | | | 1.00 | | | | | | | | | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | | |
| Assigned Movement | | | | | | | 3 | 8 | 18 | 5 | 2 | | | | | |
| Adjusted Flow Rate (v), veh/h | | | | | | | 66 | | 153 | 248 | 403 | | | | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | | | | 1850 | | 755 | 1714 | 1891 | | | | | |
| Queue Service Time (g _s), s | | | | | | | 3.0 | | 3.9 | 2.7 | 0.0 | | | | | |
| Cycle Queue Clearance Time (g _c), s | | | | | | | 3.0 | | 8.2 | 2.7 | 4.3 | | | | | |
| Green Ratio (g/C) | | | | | | | 0.09 | | 0.82 | 0.82 | 0.82 | | | | | |
| Capacity (c), veh/h | | | | | | | 164 | | 696 | 1409 | 1596 | | | | | |
| Volume-to-Capacity Ratio (X) | | | | | | | 0.403 | | 0.220 | 0.176 | 0.252 | | | | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | | | | 3.0 | | 1.0 | 0.9 | 1.5 | | | | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | | | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| Uniform Delay (d ₁), s/veh | | | | | | | 38.7 | | 2.5 | 1.7 | 1.8 | | | | | |
| Incremental Delay (d ₂), s/veh | | | | | | | 7.2 | | 0.7 | 0.3 | 0.4 | | | | | |
| Initial Queue Delay (d ₃), s/veh | | | | | | | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | |
| Control Delay (d), s/veh | | | | | | | 45.9 | | 3.2 | 1.9 | 2.2 | | | | | |
| Level of Service (LOS) | | | | | | | D | | A | A | A | | | | | |
| Approach Delay, s/veh / LOS | | | | 0.0 | | | 45.9 | D | 2.4 | A | 2.2 | | | | | |
| Intersection Delay, s/veh / LOS | | | | | | | 4.7 | | | | A | | | | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | | | | | |
| Pedestrian LOS Score / LOS | | | | 2.14 | B | 2.14 | B | 1.29 | A | 1.29 | A | | | | | |
| Bicycle LOS Score / LOS | | | | | | 0.60 | A | 0.82 | A | 1.11 | A | | | | | |

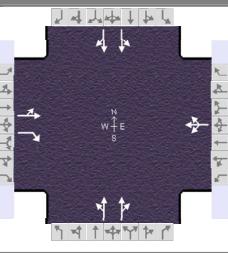
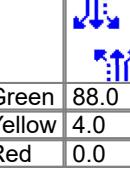
HCS Signalized Intersection Results Summary

| General Information | | | | | | Intersection Information | | |  | | | | | |
|--|-------------------------|---------------------|--|-----------------|-------------|--------------------------|-------|-------|---|-------|-------|--|--|--|
| Agency | | | | | Duration, h | | 0.250 | | | | | | | |
| Analyst | | Analysis Date | | 12/7/2022 | | Area Type | | Other | | | | | | |
| Jurisdiction | | Time Period | | PHF | | 0.92 | | | | | | | | |
| Urban Street | Barrett | Analysis Year | 2022 | Analysis Period | | 1>7:00 | | | | | | | | |
| Intersection | Barrett at Breckinridge | File Name | Breckinridge_Barrett_PM_BuildGovtCtr.xus | | | | | | | | | | | |
| Project Description | | PM Build (Govt Ctr) | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | |
| Demand (v), veh/h | | | | | | | 22 | 40 | 7 | 138 | 259 | | | |
| | | | | | | | | | | 11 | 692 | | | |
| | | | | | | | | | | | 81 | | | |
| Signal Information | | | | | | | | | | | | | | |
| Cycle, s | 90.0 | Reference Phase | 2 | | | | | | | | | | | |
| Offset, s | 0 | Reference Point | End | | Green | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | | Yellow | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| Timer Results | | | | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT | | | |
| Assigned Phase | | | | | | | 8 | | 2 | | 6 | | | |
| Case Number | | | | | | | 12.0 | | 8.0 | | 8.0 | | | |
| Phase Duration, s | | | | | | | 12.0 | | 78.0 | | 78.0 | | | |
| Change Period, (Y+R _c), s | | | | | | | 4.0 | | 4.0 | | 4.0 | | | |
| Max Allow Headway (MAH), s | | | | | | | 0.0 | | 0.0 | | 0.0 | | | |
| Queue Clearance Time (g _s), s | | | | | | | 0.0 | | 0.0 | | 0.0 | | | |
| Green Extension Time (g _e), s | | | | | | | 0.0 | | 0.0 | | 0.0 | | | |
| Phase Call Probability | | | | | | | 0.00 | | 0.00 | | 0.00 | | | |
| Max Out Probability | | | | | | | 0.00 | | 0.00 | | 0.00 | | | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | |
| Assigned Movement | | | | | | | 3 | 8 | 18 | 5 | 2 | | | |
| Adjusted Flow Rate (v), veh/h | | | | | | | 0 | | 0 | 0 | 0 | | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | | | | 0 | | 0 | 0 | 0 | | | |
| Queue Service Time (g _s), s | | | | | | | 0.0 | | 0.0 | 0.0 | 0.0 | | | |
| Cycle Queue Clearance Time (g _c), s | | | | | | | 0.0 | | 0.0 | 0.0 | 0.0 | | | |
| Green Ratio (g/C) | | | | | | | 0.09 | | 0.82 | 0.82 | 0.82 | | | |
| Capacity (c), veh/h | | | | | | | 163 | | 598 | 1411 | 1592 | | | |
| Volume-to-Capacity Ratio (X) | | | | | | | 0.459 | | 0.257 | 0.205 | 0.284 | | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | | | | 3.5 | | 1.3 | 1.1 | 1.8 | | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | | | | 0.00 | | 0.00 | 0.00 | 0.00 | | | |
| Uniform Delay (d ₁), s/veh | | | | | | | 38.9 | | 3.1 | 1.7 | 1.9 | | | |
| Incremental Delay (d ₂), s/veh | | | | | | | 9.0 | | 1.0 | 0.3 | 0.4 | | | |
| Initial Queue Delay (d ₃), s/veh | | | | | | | 0.0 | | 0.0 | 0.0 | 0.0 | | | |
| Control Delay (d), s/veh | | | | | | | 48.0 | | 4.2 | 2.0 | 2.3 | | | |
| Level of Service (LOS) | | | | | | | D | | A | A | A | | | |
| Approach Delay, s/veh / LOS | | | | 0.0 | | | 48.0 | D | 2.8 | A | 2.4 | | | |
| Intersection Delay, s/veh / LOS | | | | | | | 5.0 | | | | A | | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | | | |
| Pedestrian LOS Score / LOS | | | | 2.14 | B | 2.14 | B | 1.29 | A | 1.29 | A | | | |
| Bicycle LOS Score / LOS | | | | | | 0.61 | A | 0.85 | A | 1.19 | A | | | |

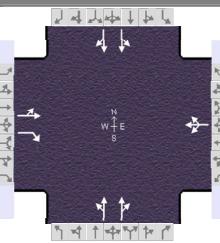
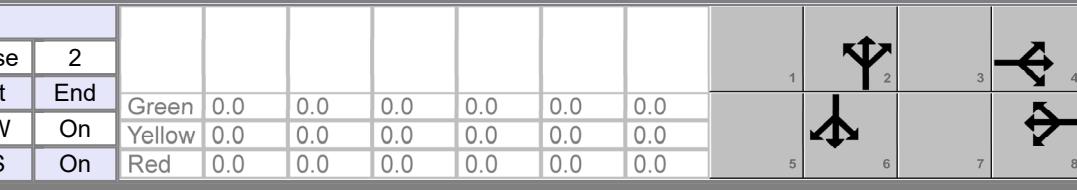
HCS Signalized Intersection Results Summary

| General Information | | | | | | Intersection Information | | |  | | | | | | | |
|--|-------------------------|-----------------|-----|---|---|--------------------------|-----------------|------|---|---|---|--|--|--|--|--|
| Agency | | | | Duration, h | | 0.250 | | | | | | | | | | |
| Analyst | | | | Analysis Date | 12/7/2022 | | Area Type | | Other | | | | | | | |
| Jurisdiction | | | | Time Period | | | PHF | | 0.92 | | | | | | | |
| Urban Street | Barrett | | | Analysis Year | 2022 | | Analysis Period | | 1 > 7:00 | | | | | | | |
| Intersection | Barrett at Breckinridge | | | File Name | Breckinridge_Barrett_PM_Build.xus | | | | | | | | | | | |
| Project Description | PM Build | | | | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | | |
| Demand (v), veh/h | | | | | | | 22 | 40 | 7 | 135 | 255 | | | | | |
| | | | | | | | | | | 11 | 10 | | | | | |
| | | | | | | | | | | 672 | 81 | | | | | |
| Signal Information | | | |  |  | | | |  |  |  | | | | | |
| Cycle, s | 90.0 | Reference Phase | 2 | | | | | | | | | | | | | |
| Offset, s | 0 | Reference Point | End | | Green | 74.0 | 8.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | | Yellow | 4.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| Timer Results | | | | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT | | | | | |
| Assigned Phase | | | | | | | 8 | | 2 | | 6 | | | | | |
| Case Number | | | | | | | 12.0 | | 8.0 | | 8.0 | | | | | |
| Phase Duration, s | | | | | | | 12.0 | | 78.0 | | 78.0 | | | | | |
| Change Period, (Y+R _c), s | | | | | | | 4.0 | | 4.0 | | 4.0 | | | | | |
| Max Allow Headway (MAH), s | | | | | | | 3.1 | | 0.0 | | 0.0 | | | | | |
| Queue Clearance Time (g _s), s | | | | | | | 5.5 | | | | | | | | | |
| Green Extension Time (g _e), s | | | | | | | 0.0 | | 0.0 | | 0.0 | | | | | |
| Phase Call Probability | | | | | | | 1.00 | | | | | | | | | |
| Max Out Probability | | | | | | | 1.00 | | | | | | | | | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | | |
| Assigned Movement | | | | | | | 3 | 8 | 18 | 5 | 2 | | | | | |
| Adjusted Flow Rate (v), veh/h | | | | | | | 75 | | 154 | 282 | 441 | | | | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | | | | 1837 | | 657 | 1716 | 1888 | | | | | |
| Queue Service Time (g _s), s | | | | | | | 3.5 | | 5.5 | 3.1 | 0.0 | | | | | |
| Cycle Queue Clearance Time (g _c), s | | | | | | | 3.5 | | 10.4 | 3.1 | 4.8 | | | | | |
| Green Ratio (g/C) | | | | | | | 0.09 | | 0.82 | 0.82 | 0.82 | | | | | |
| Capacity (c), veh/h | | | | | | | 163 | | 618 | 1411 | 1594 | | | | | |
| Volume-to-Capacity Ratio (X) | | | | | | | 0.459 | | 0.250 | 0.200 | 0.277 | | | | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | | | | 3.5 | | 1.2 | 1.0 | 1.7 | | | | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | | | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| Uniform Delay (d ₁), s/veh | | | | | | | 38.9 | | 3.0 | 1.7 | 1.9 | | | | | |
| Incremental Delay (d ₂), s/veh | | | | | | | 9.0 | | 1.0 | 0.3 | 0.4 | | | | | |
| Initial Queue Delay (d ₃), s/veh | | | | | | | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | |
| Control Delay (d), s/veh | | | | | | | 48.0 | | 3.9 | 2.0 | 2.3 | | | | | |
| Level of Service (LOS) | | | | | | | D | | A | A | A | | | | | |
| Approach Delay, s/veh / LOS | | | | 0.0 | | | 48.0 | D | 2.7 | A | 2.3 | | | | | |
| Intersection Delay, s/veh / LOS | | | | | | | 5.0 | | | | A | | | | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | | | | | |
| Pedestrian LOS Score / LOS | | | | 2.14 | B | 2.14 | B | 1.29 | A | 1.29 | A | | | | | |
| Bicycle LOS Score / LOS | | | | | | 0.61 | A | 0.85 | A | 1.17 | A | | | | | |

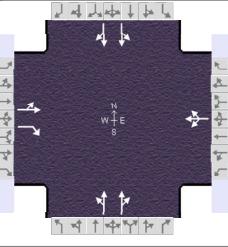
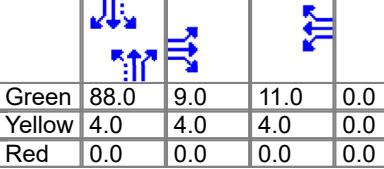
HCS Signalized Intersection Results Summary

| General Information | | | | | | Intersection Information | | |  | | | | | | | | | | | | | | | | | |
|--|---------------------|-----------------|---------------------------------|---|-------------|--------------------------|-------|-------|---|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Agency | | | | | Duration, h | | 0.250 | | | | | | | | | | | | | | | | | | | |
| Analyst | | Analysis Date | | 12/7/2022 | | Area Type | | Other | | | | | | | | | | | | | | | | | | |
| Jurisdiction | | Time Period | | PHF | | 0.92 | | | | | | | | | | | | | | | | | | | | |
| Urban Street | Barrett | Analysis Year | 2022 | Analysis Period | | 1 > 7:00 | | | | | | | | | | | | | | | | | | | | |
| Intersection | Kentucky at Barrett | File Name | Kentucky_Barrett_AM_NoBuild.xus | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | | AM No Build | | | | | | | | | | | | | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | | | | | | | | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | | | | | | | | | | | | |
| Demand (v), veh/h | | | | 35 | 6 | 48 | 7 | 0 | 17 | 0 | 563 | | | | | | | | | | | | | | | |
| Demand (v), veh/h | | | | | | | | | | 12 | 213 | | | | | | | | | | | | | | | |
| Demand (v), veh/h | | | | | | | | | | | 0 | | | | | | | | | | | | | | | |
| Signal Information | | | |  | | | | | | | | | | | | | | | | | | | | | | |
| Cycle, s | 120.0 | Reference Phase | 2 | | | | | | 1 | 2 | | | | | | | | | | | | | | | | |
| Offset, s | 0 | Reference Point | End | Green | 88.0 | 9.0 | 11.0 | 0.0 | 0.0 | 0.0 | 4 | | | | | | | | | | | | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | Yellow | 4.0 | 4.0 | 4.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | | | | | | | | | | | | | | | |
| Timer Results | | | | EBL | | EBT | | WBL | | WBT | | | | | | | | | | | | | | | | |
| Assigned Phase | | | | | | 4 | | 8 | | 2 | | | | | | | | | | | | | | | | |
| Case Number | | | | | | 11.0 | | 12.0 | | 8.0 | | | | | | | | | | | | | | | | |
| Phase Duration, s | | | | | | 13.0 | | 15.0 | | 92.0 | | | | | | | | | | | | | | | | |
| Change Period, (Y+R _c), s | | | | | | 4.0 | | 4.0 | | 4.0 | | | | | | | | | | | | | | | | |
| Max Allow Headway (MAH), s | | | | | | 3.2 | | 3.3 | | 0.0 | | | | | | | | | | | | | | | | |
| Queue Clearance Time (g _s), s | | | | | | 5.7 | | 3.7 | | | | | | | | | | | | | | | | | | |
| Green Extension Time (g _e), s | | | | | | 0.0 | | 0.0 | | 0.0 | | | | | | | | | | | | | | | | |
| Phase Call Probability | | | | | | 1.00 | | 1.00 | | | | | | | | | | | | | | | | | | |
| Max Out Probability | | | | | | 0.96 | | 0.00 | | | | | | | | | | | | | | | | | | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | | | | | | | | | | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | | | | | | | | | | | | |
| Assigned Movement | | | | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | | | | | | | | | | | | | | | |
| Adjusted Flow Rate (v), veh/h | | | | | | | 45 | 52 | | 0 | 311 | | | | | | | | | | | | | | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | | | | 1822 | 1610 | | 0 | 1886 | | | | | | | | | | | | | | | |
| Queue Service Time (g _s), s | | | | | | | 2.8 | 3.7 | | 0.0 | 6.3 | | | | | | | | | | | | | | | |
| Cycle Queue Clearance Time (g _c), s | | | | | | | 2.8 | 3.7 | | 0.0 | 2.2 | | | | | | | | | | | | | | | |
| Green Ratio (g/C) | | | | | | | 0.08 | 0.08 | | 0.09 | 0.73 | | | | | | | | | | | | | | | |
| Capacity (c), veh/h | | | | | | | 137 | 121 | | 152 | 1383 | | | | | | | | | | | | | | | |
| Volume-to-Capacity Ratio (X) | | | | | | | 0.326 | 0.432 | | 0.171 | 0.000 | | | | | | | | | | | | | | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | 0.225 | | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | | | | 2.7 | 3.3 | | 1.5 | 0.0 | | | | | | | | | | | | | | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | | | | 0.00 | 0.00 | | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| Uniform Delay (d ₁), s/veh | | | | | | | 52.6 | 53.1 | | 50.3 | | | | | | | | | | | | | | | | |
| Incremental Delay (d ₂), s/veh | | | | | | | 6.2 | 10.9 | | 2.4 | 0.0 | | | | | | | | | | | | | | | |
| Initial Queue Delay (d ₃), s/veh | | | | | | | 0.0 | 0.0 | | 0.0 | 0.0 | | | | | | | | | | | | | | | |
| Control Delay (d), s/veh | | | | | | | 58.9 | 63.9 | | 52.7 | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | | | E | E | | D | | | | | | | | | | | | | | | | |
| Approach Delay, s/veh / LOS | | | | 61.6 | | | E | | | 52.7 | | | | | | | | | | | | | | | | |
| Intersection Delay, s/veh / LOS | | | | | | | | | | 12.1 | B | | | | | | | | | | | | | | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | | | | | | | | | | | | | | | |
| Pedestrian LOS Score / LOS | | | | 2.14 | | | B | | | 2.15 | B | | | | | | | | | | | | | | | |
| Bicycle LOS Score / LOS | | | | 0.65 | | | A | | | 0.53 | A | | | | | | | | | | | | | | | |

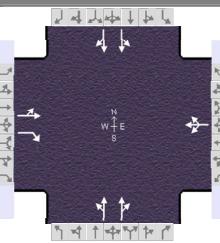
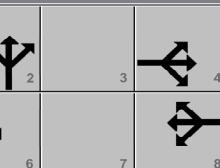
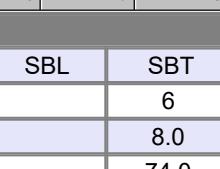
HCS Signalized Intersection Results Summary

| General Information | | | | | | Intersection Information | | |  | | | | | | | | | | | | | | | |
|--|---------|---------------------|------|--|-------------|--------------------------|-------|-------|---|-------|-------|------|--|--|--|--|--|--|--|--|--|--|--|--|
| Agency | | | | | Duration, h | | 0.250 | | | | | | | | | | | | | | | | | |
| Analyst | | Analysis Date | | 12/7/2022 | | Area Type | | Other | | | | | | | | | | | | | | | | |
| Jurisdiction | | Time Period | | PHF | | 0.92 | | | | | | | | | | | | | | | | | | |
| Urban Street | Barrett | Analysis Year | 2022 | Analysis Period | | 1 > 7:00 | | | | | | | | | | | | | | | | | | |
| Intersection | | File Name | | Kentucky_Barrett_AM_BuildGovtCtr.xus | | | | | | | | | | | | | | | | | | | | |
| Project Description | | AM Build (Govt Ctr) | | | | | | | | | | | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | | | | | | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | | | | | | | | | | |
| Demand (v), veh/h | | | | 67 | 6 | 48 | 7 | 0 | 49 | 0 | 608 | | | | | | | | | | | | | |
| Demand (v), veh/h | | | | | | | | | | 12 | 12 | | | | | | | | | | | | | |
| Demand (v), veh/h | | | | | | | | | | 247 | 0 | | | | | | | | | | | | | |
| Signal Information | | | |  | | | | | | | | | | | | | | | | | | | | |
| Cycle, s | 120.0 | Reference Phase | 2 | | | | | | 1 | 2 | | | | | | | | | | | | | | |
| Offset, s | 0 | Reference Point | End | Green | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | Yellow | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | | |
| Timer Results | | | | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT | | | | | | | | | | | | | |
| Assigned Phase | | | | | | 4 | | | | | 2 | 6 | | | | | | | | | | | | |
| Case Number | | | | | | 11.0 | | | | | 8.0 | 8.0 | | | | | | | | | | | | |
| Phase Duration, s | | | | | | 14.0 | | | | | 92.0 | 92.0 | | | | | | | | | | | | |
| Change Period, (Y+R _c), s | | | | | | 4.0 | | | | | 4.0 | 4.0 | | | | | | | | | | | | |
| Max Allow Headway (MAH), s | | | | | | 0.0 | | | | | 0.0 | 0.0 | | | | | | | | | | | | |
| Queue Clearance Time (g _s), s | | | | | | 0.0 | | | | | 0.0 | 0.0 | | | | | | | | | | | | |
| Green Extension Time (g _e), s | | | | | | 0.0 | | | | | 0.0 | 0.0 | | | | | | | | | | | | |
| Phase Call Probability | | | | | | 0.00 | | | | | 0.00 | 0.00 | | | | | | | | | | | | |
| Max Out Probability | | | | | | 0.00 | | | | | 0.00 | 0.00 | | | | | | | | | | | | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | | | | | | | | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | | | | | | | | | | |
| Assigned Movement | | | | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | | | | | | | | | | | | | |
| Adjusted Flow Rate (v), veh/h | | | | | 0 | 0 | | 0 | | 0 | 0 | | | | | | | | | | | | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | | | | | | | | | |
| Queue Service Time (g _s), s | | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | 0.0 | | | | | | | | | | | | | |
| Cycle Queue Clearance Time (g _c), s | | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | 0.0 | | | | | | | | | | | | | |
| Green Ratio (g/C) | | | | | 0.08 | 0.08 | | 0.08 | | 0.73 | 0.73 | | | | | | | | | | | | | |
| Capacity (c), veh/h | | | | | 151 | 134 | | 136 | | 1384 | 1421 | | | | | | | | | | | | | |
| Volume-to-Capacity Ratio (X) | | | | | 0.524 | 0.389 | | 0.447 | | 0.243 | 0.099 | | | | | | | | | | | | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | | 5.0 | 3.2 | | 3.8 | | 4.5 | 1.7 | | | | | | | | | | | | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | | 0.00 | 0.00 | | 0.00 | | 0.00 | 0.00 | | | | | | | | | | | | | |
| Uniform Delay (d ₁), s/veh | | | | | 52.7 | 52.1 | | 52.4 | | 5.2 | 4.6 | | | | | | | | | | | | | |
| Incremental Delay (d ₂), s/veh | | | | | 12.4 | 8.3 | | 10.3 | | 0.4 | 0.1 | | | | | | | | | | | | | |
| Initial Queue Delay (d ₃), s/veh | | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | 0.0 | | | | | | | | | | | | | |
| Control Delay (d), s/veh | | | | | 65.1 | 60.4 | | 62.7 | | 5.6 | 4.7 | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | E | E | | E | | A | A | | | | | | | | | | | | | |
| Approach Delay, s/veh / LOS | | | | 63.2 | E | | 62.7 | E | | 4.8 | A | | | | | | | | | | | | | |
| Intersection Delay, s/veh / LOS | | | | | | 15.1 | | | | B | | | | | | | | | | | | | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | | | | | | | | | | | | | |
| Pedestrian LOS Score / LOS | | | | 2.15 | B | | 2.15 | B | | 1.63 | B | | | | | | | | | | | | | |
| Bicycle LOS Score / LOS | | | | 0.70 | A | | 0.59 | A | | 1.04 | A | | | | | | | | | | | | | |

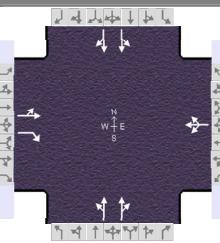
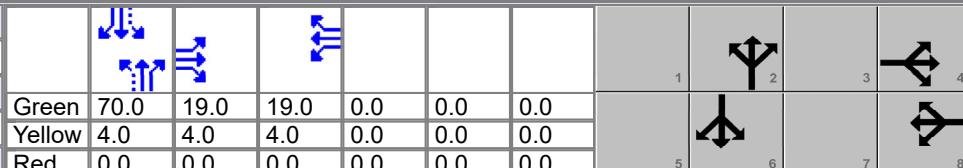
HCS Signalized Intersection Results Summary

| General Information | | | | | | | Intersection Information | | |  | | | | | | | | | | |
|--|---------------------|-----------------|------|---|-------------------------------|----------|--------------------------|-------|-----|---|-----|-------|----|-------|--|--|--|--|--|--|
| Agency | | | | | | | Duration, h | 0.250 | | | | | | | | | | | | |
| Analyst | | | | Analysis Date | 12/7/2022 | | Area Type | Other | | | | | | | | | | | | |
| Jurisdiction | | | | Time Period | | | PHF | 0.92 | | | | | | | | | | | | |
| Urban Street | Barrett | Analysis Year | 2022 | | Analysis Period | 1 > 7:00 | | | | | | | | | | | | | | |
| Intersection | Kentucky at Barrett | | | File Name | Kentucky_Barrett_AM_Build.xus | | | | | | | | | | | | | | | |
| Project Description | AM Build | | | | | | | | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | R | | | | | | | | |
| Demand (v), veh/h | | | | 53 | 6 | 48 | 7 | 0 | 35 | 0 | 588 | 12 | | | | | | | | |
| | | | | | | | | | | | 1 | 233 | | | | | | | | |
| Signal Information | | | |  | | | | | | | | | | | | | | | | |
| Cycle, s | 120.0 | Reference Phase | 2 | | | | | | 1 | 2 | | | | | | | | | | |
| Offset, s | 0 | Reference Point | End | Green | 88.0 | 9.0 | 11.0 | 0.0 | 0.0 | 0.0 | 3 | 4 | | | | | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | Yellow | 4.0 | 4.0 | 4.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | 6 | | | | | | | | |
| Timer Results | | | | EBL | | EBT | | WBL | | WBT | | NBL | | | | | | | | |
| Assigned Phase | | | | | | 4 | | 8 | | 2 | | 6 | | | | | | | | |
| Case Number | | | | | | 11.0 | | 12.0 | | 8.0 | | 8.0 | | | | | | | | |
| Phase Duration, s | | | | | | 13.0 | | 15.0 | | 92.0 | | 92.0 | | | | | | | | |
| Change Period, (Y+R _c), s | | | | | | 4.0 | | 4.0 | | 4.0 | | 4.0 | | | | | | | | |
| Max Allow Headway (MAH), s | | | | | | 3.2 | | 3.3 | | 0.0 | | 0.0 | | | | | | | | |
| Queue Clearance Time (g _s), s | | | | | | 6.1 | | 5.1 | | | | | | | | | | | | |
| Green Extension Time (g _e), s | | | | | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | | | | | | |
| Phase Call Probability | | | | | | 1.00 | | 1.00 | | | | | | | | | | | | |
| Max Out Probability | | | | | | 1.00 | | 0.02 | | | | | | | | | | | | |
| Movement Group Results | | | | EB | | | WB | | | NB | | | SB | | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | R | L | T | | | | | | |
| Assigned Movement | | | | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | 1 | 6 | | | | | | |
| Adjusted Flow Rate (v), veh/h | | | | | | 64 | | 52 | | 46 | | 0 | | 325 | | | | | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | 1818 | | 1610 | | 1640 | | 0 | | 1886 | | 1896 | | | | | | |
| Queue Service Time (g _s), s | | | | | | 4.1 | | 3.7 | | 3.1 | | 0.0 | | 6.7 | | | | | | |
| Cycle Queue Clearance Time (g _c), s | | | | | | 4.1 | | 3.7 | | 3.1 | | 0.0 | | 6.7 | | | | | | |
| Green Ratio (g/C) | | | | | | 0.08 | | 0.08 | | 0.09 | | 0.73 | | 0.73 | | | | | | |
| Capacity (c), veh/h | | | | | | 136 | | 121 | | 150 | | 1383 | | 1421 | | | | | | |
| Volume-to-Capacity Ratio (X) | | | | | | 0.470 | | 0.432 | | 0.304 | | 0.000 | | 0.235 | | | | | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | | | 4.1 | | 3.3 | | 2.7 | | 0.0 | | 4.4 | | | | | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | |
| Uniform Delay (d ₁), s/veh | | | | | | 53.2 | | 53.1 | | 50.9 | | 5.2 | | 4.6 | | | | | | |
| Incremental Delay (d ₂), s/veh | | | | | | 11.2 | | 10.9 | | 5.1 | | 0.0 | | 0.4 | | | | | | |
| Initial Queue Delay (d ₃), s/veh | | | | | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | | | | |
| Control Delay (d), s/veh | | | | | | 64.4 | | 63.9 | | 56.1 | | 5.6 | | 4.7 | | | | | | |
| Level of Service (LOS) | | | | | | E | | E | | E | | A | | A | | | | | | |
| Approach Delay, s/veh / LOS | | | | 64.2 | | E | | 56.1 | | E | | 5.6 | | 4.7 | | | | | | |
| Intersection Delay, s/veh / LOS | | | | 13.9 | | | | | | | | | | | | | | | | |
| Multimodal Results | | | | EB | | | WB | | | NB | | | SB | | | | | | | |
| Pedestrian LOS Score / LOS | | | | 2.14 | | B | | 2.15 | | B | | 1.63 | | 1.86 | | | | | | |
| Bicycle LOS Score / LOS | | | | 0.68 | | A | | 0.56 | | A | | 1.03 | | 0.70 | | | | | | |

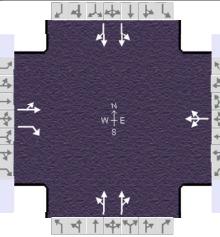
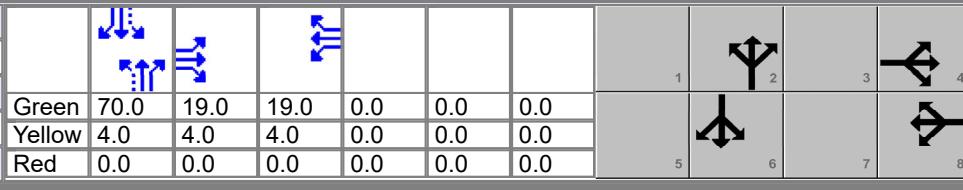
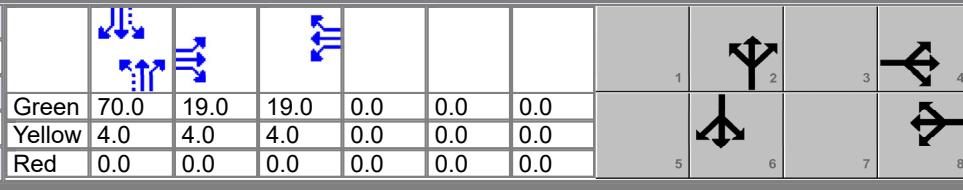
HCS Signalized Intersection Results Summary

| General Information | | | | | | Intersection Information | | |  | | | | | | | |
|--|---------------------|-----------------|---------------------------------|---|-------------|--------------------------|-------|---|---|-------|-------|--|--|--|--|--|
| Agency | | | | | Duration, h | | 0.250 | | | | | | | | | |
| Analyst | | Analysis Date | | 12/7/2022 | | Area Type | | Other | | | | | | | | |
| Jurisdiction | | Time Period | | PHF | | 0.92 | | | | | | | | | | |
| Urban Street | Barrett | Analysis Year | 2022 | Analysis Period | | 1 > 7:00 | | | | | | | | | | |
| Intersection | Kentucky at Barrett | File Name | Kentucky_Barrett_PM_NoBuild.xus | | | | | | | | | | | | | |
| Project Description | | PM No Build | | | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | | |
| Demand (v), veh/h | | | | 40 | 8 | 121 | 2 | 0 | 19 | 0 | 346 | | | | | |
| | | | | | | | | | | 14 | 22 | | | | | |
| | | | | | | | | | | 607 | 0 | | | | | |
| Signal Information | | | |  | | | |  | | | | | | | | |
| Cycle, s | 120.0 | Reference Phase | 2 | | | | | | 1 | 2 | | | | | | |
| Offset, s | 0 | Reference Point | End | Green | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | Yellow | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | |
| | | | | | | | | | 5 | 6 | | | | | | |
| | | | | | | | | | | 7 | 8 | | | | | |
| Timer Results | | | | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT | | | | | |
| Assigned Phase | | | | | 4 | | 8 | | 2 | | 6 | | | | | |
| Case Number | | | | | 11.0 | | 12.0 | | 8.0 | | 8.0 | | | | | |
| Phase Duration, s | | | | | 23.0 | | 23.0 | | 74.0 | | 74.0 | | | | | |
| Change Period, (Y+R _c), s | | | | | 4.0 | | 4.0 | | 4.0 | | 4.0 | | | | | |
| Max Allow Headway (MAH), s | | | | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | | | |
| Queue Clearance Time (g _s), s | | | | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | | | |
| Green Extension Time (g _e), s | | | | | 0.0 | | 0.0 | | 0.0 | | 0.0 | | | | | |
| Phase Call Probability | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| Max Out Probability | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | | | | | |
| Assigned Movement | | | | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | | | | | |
| Adjusted Flow Rate (v), veh/h | | | | | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | | 0 | 0 | 0 | | 0 | 0 | 0 | | | | | |
| Queue Service Time (g _s), s | | | | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | |
| Cycle Queue Clearance Time (g _c), s | | | | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | |
| Green Ratio (g/C) | | | | | 0.16 | 0.16 | 0.16 | | 0.58 | 0.58 | | | | | | |
| Capacity (c), veh/h | | | | | 288 | 255 | 256 | | 1094 | 1100 | | | | | | |
| Volume-to-Capacity Ratio (X) | | | | | 0.249 | 0.516 | 0.165 | | 0.190 | 0.331 | 0.000 | | | | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | | 3.6 | 7.4 | 2.1 | | 4.8 | 8.8 | 0.0 | | | | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| Uniform Delay (d ₁), s/veh | | | | | 44.2 | 46.3 | 43.6 | | 11.7 | 12.9 | | | | | | |
| Incremental Delay (d ₂), s/veh | | | | | 2.1 | 7.3 | 1.4 | | 0.4 | 0.8 | 0.0 | | | | | |
| Initial Queue Delay (d ₃), s/veh | | | | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | |
| Control Delay (d), s/veh | | | | | 46.3 | 53.6 | 45.0 | | 12.1 | 13.7 | | | | | | |
| Level of Service (LOS) | | | | | D | D | D | | B | B | | | | | | |
| Approach Delay, s/veh / LOS | | | | | 51.0 | D | 45.0 | D | 12.1 | B | 13.8 | | | | | |
| Intersection Delay, s/veh / LOS | | | | | | 19.8 | | | | B | | | | | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | | | | | |
| Pedestrian LOS Score / LOS | | | | | 2.14 | B | 2.15 | B | 1.67 | B | 1.89 | | | | | |
| Bicycle LOS Score / LOS | | | | | 0.82 | A | 0.56 | A | 0.83 | A | 1.07 | | | | | |

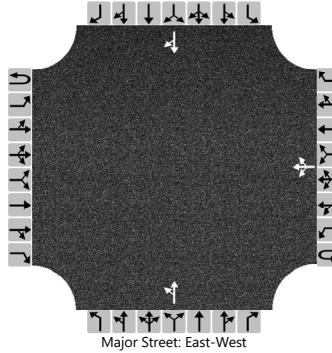
HCS Signalized Intersection Results Summary

| General Information | | | | | | | Intersection Information | | |  | | | | | | | |
|--|---------------------|---------------------|--------------------------------------|--|-------------|-----------|--------------------------|-------|-----|---|-------|-------|--|--|--|--|--|
| Agency | | | | | Duration, h | | 0.250 | | | | | | | | | | |
| Analyst | | Analysis Date | | 12/7/2022 | | Area Type | | Other | | | | | | | | | |
| Jurisdiction | | Time Period | | PHF | | 0.92 | | | | | | | | | | | |
| Urban Street | Barrett | Analysis Year | 2022 | Analysis Period | | 1 > 7:00 | | | | | | | | | | | |
| Intersection | Kentucky at Barrett | File Name | Kentucky_Barrett_PM_BuildGovtCtr.xus | | | | | | | | | | | | | | |
| Project Description | | PM Build (Govt Ctr) | | | | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | R | | | | | |
| Demand (v), veh/h | | | | 51 | 8 | 121 | 2 | 0 | 30 | 0 | 363 | 14 | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Signal Information | | | |  | | | | | | | | | | | | | |
| Cycle, s | 120.0 | Reference Phase | 2 | | | | | | 1 | 2 | 3 | | | | | | |
| Offset, s | 0 | Reference Point | End | Green | 70.0 | 19.0 | 19.0 | 0.0 | 0.0 | 0.0 | 4 | | | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | Yellow | 4.0 | 4.0 | 4.0 | 0.0 | 0.0 | 0.0 | | | | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | Red | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5 | | | | | | |
| Timer Results | | | | | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT | | | | | |
| Assigned Phase | | | | | | 4 | | | | 2 | | 6 | | | | | |
| Case Number | | | | | | 11.0 | | | | 8.0 | | 8.0 | | | | | |
| Phase Duration, s | | | | | | 23.0 | | | | 74.0 | | 74.0 | | | | | |
| Change Period, (Y+R _c), s | | | | | | 4.0 | | | | 4.0 | | 4.0 | | | | | |
| Max Allow Headway (MAH), s | | | | | | 3.3 | | | | 0.0 | | 0.0 | | | | | |
| Queue Clearance Time (g _s), s | | | | | | 11.0 | | | | 4.2 | | | | | | | |
| Green Extension Time (g _e), s | | | | | | 0.2 | | | | 0.0 | | 0.0 | | | | | |
| Phase Call Probability | | | | | | 1.00 | | | | 1.00 | | | | | | | |
| Max Out Probability | | | | | | 0.01 | | | | 0.00 | | | | | | | |
| Movement Group Results | | | | | EB | | WB | | NB | | SB | | | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | R | | | | | |
| Assigned Movement | | | | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | | | | | |
| Adjusted Flow Rate (v), veh/h | | | | | 64 | 132 | | 35 | | 0 | 204 | 401 | | | | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | | 1821 | 1610 | | 1621 | | 0 | 1875 | 1841 | | | | | |
| Queue Service Time (g _s), s | | | | | 3.7 | 9.0 | | 2.2 | | 0.0 | 6.1 | 0.0 | | | | | |
| Cycle Queue Clearance Time (g _c), s | | | | | 3.7 | 9.0 | | 2.2 | | 0.0 | 6.1 | 13.4 | | | | | |
| Green Ratio (g/C) | | | | | 0.16 | 0.16 | | 0.16 | | | 0.58 | 0.58 | | | | | |
| Capacity (c), veh/h | | | | | 288 | 255 | | 257 | | | 1094 | 1106 | | | | | |
| Volume-to-Capacity Ratio (X) | | | | | 0.222 | 0.516 | | 0.135 | | 0.000 | 0.187 | 0.363 | | | | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | | 3.2 | 7.4 | | 1.7 | | 0.0 | 4.6 | 9.7 | | | | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | | 0.00 | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| Uniform Delay (d ₁), s/veh | | | | | 44.1 | 46.3 | | 43.4 | | | 11.7 | 13.2 | | | | | |
| Incremental Delay (d ₂), s/veh | | | | | 1.8 | 7.3 | | 1.1 | | 0.0 | 0.4 | 0.9 | | | | | |
| Initial Queue Delay (d ₃), s/veh | | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | 0.0 | 0.0 | | | | | |
| Control Delay (d), s/veh | | | | | 45.8 | 53.6 | | 44.5 | | | 12.1 | 14.1 | | | | | |
| Level of Service (LOS) | | | | | D | D | | D | | B | B | | | | | | |
| Approach Delay, s/veh / LOS | | | | | 51.0 | D | | 44.5 | D | | 12.1 | B | | | | | |
| Intersection Delay, s/veh / LOS | | | | | | | 19.4 | | | | B | | | | | | |
| Multimodal Results | | | | | EB | | WB | | NB | | SB | | | | | | |
| Pedestrian LOS Score / LOS | | | | | 2.14 | B | | 2.15 | B | | 1.67 | B | | | | | |
| Bicycle LOS Score / LOS | | | | | 0.81 | A | | 0.54 | A | | 0.83 | A | | | | | |

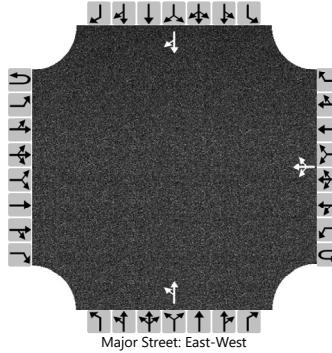
HCS Signalized Intersection Results Summary

| General Information | | | | | | | Intersection Information | | |  | | | | |
|--|---------------------|-----------------|------|--|-------------|-----------|--------------------------|--|------|---|------|-------|--|--|
| Agency | | | | | Duration, h | | 0.250 | | | | | | | |
| Analyst | | Analysis Date | | 12/7/2022 | | Area Type | | Other | | | | | | |
| Jurisdiction | | Time Period | | PHF | | 0.92 | | | | | | | | |
| Urban Street | Barrett | Analysis Year | 2022 | Analysis Period | | 1 > 7:00 | | | | | | | | |
| Intersection | Kentucky at Barrett | File Name | | Kentucky_Barrett_PM_Build.xus | | | | | | | | | | |
| Project Description | | PM Build | | | | | | | | | | | | |
| Demand Information | | | | EB | | WB | | NB | | SB | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | R | | |
| Demand (v), veh/h | | | | 49 | 8 | 121 | 2 | 0 | 28 | 0 | 360 | 14 | | |
| | | | | | | | | | | | | | | |
| Signal Information | | | |  | | | |  | | | | | | |
| Cycle, s | 120.0 | Reference Phase | 2 | 1 | 2 | 3 | 4 | | | | | | | |
| Offset, s | 0 | Reference Point | End | 5 | 6 | 7 | 8 | | | | | | | |
| Uncoordinated | No | Simult. Gap E/W | On | | | | | | | | | | | |
| Force Mode | Fixed | Simult. Gap N/S | On | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Timer Results | | | | EBL | EBT | WBL | WBT | NBL | NBT | SBL | SBT | | | |
| Assigned Phase | | | | | 4 | | 8 | | 2 | | 6 | | | |
| Case Number | | | | | 11.0 | | 12.0 | | 8.0 | | 8.0 | | | |
| Phase Duration, s | | | | | 23.0 | | 23.0 | | 74.0 | | 74.0 | | | |
| Change Period, (Y+R _c), s | | | | | 4.0 | | 4.0 | | 4.0 | | 4.0 | | | |
| Max Allow Headway (MAH), s | | | | | 3.3 | | 3.4 | | 0.0 | | 0.0 | | | |
| Queue Clearance Time (g _s), s | | | | | 11.0 | | 4.1 | | | | | | | |
| Green Extension Time (g _e), s | | | | | 0.2 | | 0.0 | | 0.0 | | 0.0 | | | |
| Phase Call Probability | | | | | 1.00 | | 1.00 | | | | | | | |
| Max Out Probability | | | | | 0.01 | | 0.00 | | | | | | | |
| Movement Group Results | | | | EB | | WB | | NB | | SB | | | | |
| Approach Movement | | | | L | T | R | L | T | R | L | T | R | | |
| Assigned Movement | | | | 7 | 4 | 14 | 3 | 8 | 18 | 5 | 2 | 12 | | |
| Adjusted Flow Rate (v), veh/h | | | | | 62 | 132 | | 33 | | 0 | | 202 | | |
| Adjusted Saturation Flow Rate (s), veh/h/ln | | | | | 1822 | 1610 | | 1622 | | 0 | | 1875 | | |
| Queue Service Time (g _s), s | | | | | 3.6 | 9.0 | | 2.1 | | 0.0 | | 6.1 | | |
| Cycle Queue Clearance Time (g _c), s | | | | | 3.6 | 9.0 | | 2.1 | | 0.0 | | 6.1 | | |
| Green Ratio (g/C) | | | | | 0.16 | 0.16 | | 0.16 | | | | 0.58 | | |
| Capacity (c), veh/h | | | | | 288 | 255 | | 257 | | | | 1094 | | |
| Volume-to-Capacity Ratio (X) | | | | | 0.215 | 0.516 | | 0.127 | | 0.000 | | 0.185 | | |
| Back of Queue (Q), ft/ln (95 th percentile) | | | | | | | | | | | | | | |
| Back of Queue (Q), veh/ln (95 th percentile) | | | | | 3.1 | 7.4 | | 1.6 | | 0.0 | | 4.6 | | |
| Queue Storage Ratio (RQ) (95 th percentile) | | | | | 0.00 | 0.00 | | 0.00 | | 0.00 | | 0.00 | | |
| Uniform Delay (d ₁), s/veh | | | | | 44.0 | 46.3 | | 43.4 | | | | 11.7 | | |
| Incremental Delay (d ₂), s/veh | | | | | 1.7 | 7.3 | | 1.0 | | 0.0 | | 0.4 | | |
| Initial Queue Delay (d ₃), s/veh | | | | | 0.0 | 0.0 | | 0.0 | | 0.0 | | 0.0 | | |
| Control Delay (d), s/veh | | | | | 45.7 | 53.6 | | 44.4 | | | | 12.1 | | |
| Level of Service (LOS) | | | | | D | D | | D | | B | | B | | |
| Approach Delay, s/veh / LOS | | | | | 51.0 | D | | 44.4 | | 12.0 | | B | | |
| Intersection Delay, s/veh / LOS | | | | | | | | 19.4 | | | | B | | |
| Multimodal Results | | | | EB | | WB | | NB | | SB | | | | |
| Pedestrian LOS Score / LOS | | | | | 2.14 | B | | 2.15 | B | 1.67 | B | 1.89 | | |
| Bicycle LOS Score / LOS | | | | | 0.81 | A | | 0.54 | A | 0.82 | A | 1.11 | | |

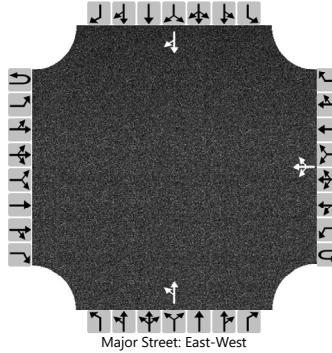
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|---|---|----------------------------|-----------|------|----------------------|-----|------------|------|------|---|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | Vine at Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | | Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | Vine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | AM No Build | | | Peak Hour Factor | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | East-West | | | Analysis Time Period (hrs) | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: East-West | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | | | | | | | | | | | | | | | | | | | | | | | |
| Priority | 1U | 1 | 2 | 3 | 4U | 4 | 5 | 6 | 7 | 8 | 9 | | 10 | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | | LTR | | | LT | | | | TR | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | | 5 | 336 | 6 | | 19 | 3 | | 7 | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | | 3 | | | | 3 | 3 | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | | | | | 0 | | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | | 5.3 | | | | 7.1 | 6.5 | | 6.5 | | | | | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | | 5.33 | | | | 7.13 | 6.53 | | 6.53 | | | | | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | | 3.1 | | | | 3.5 | 4.0 | | 4.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | | 3.13 | | | | 3.53 | 4.03 | | 4.03 | | | | | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | | 5 | | | | 24 | | | 11 | | | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | | 1151 | | | | 560 | | | 581 | | | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | | 0.00 | | | | 0.04 | | | 0.02 | | | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | | 0.0 | | | | 0.1 | | | 0.1 | | | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | | 8.1 | 0.0 | 0.0 | | 11.7 | | | 11.3 | | | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | | A | A | A | | B | | | B | | | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | 0.2 | | | | 11.7 | | | | 11.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | A | | | | B | | | | B | | | | | | | | | | | | | | | | | | | | | | | | | | | |

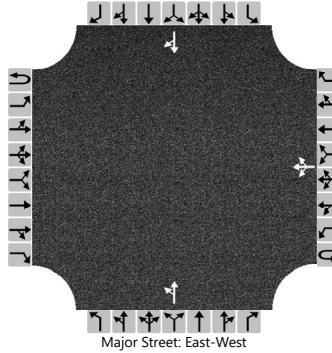
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------|---|---|----------------------------|-----------|------|----------------------|-----|------------|------|------|---|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | Vine at Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | | Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | Vine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | AM Build (Govt Ctr) | | | Peak Hour Factor | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | East-West | | | Analysis Time Period (hrs) | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <p>Major Street: East-West</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | | | | | | | | | | | | | | | | | | | | | | | |
| Priority | 1U | 1 | 2 | 3 | 4U | 4 | 5 | 6 | 7 | 8 | 9 | | 10 | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | | LTR | | | LT | | | | TR | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | | 5 | 336 | 60 | | 19 | 3 | | 10 | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | | 3 | | | | 3 | 3 | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | | | | | 0 | | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | | 5.3 | | | | 7.1 | 6.5 | | 6.5 | | | | | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | | 5.33 | | | | 7.13 | 6.53 | | 6.53 | | | | | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | | 3.1 | | | | 3.5 | 4.0 | | 4.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | | 3.13 | | | | 3.53 | 4.03 | | 4.03 | | | | | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | | 5 | | | | 24 | | | 74 | | | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | | 1151 | | | | 505 | | | 628 | | | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | | 0.00 | | | | 0.05 | | | 0.12 | | | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | | 0.0 | | | | 0.1 | | | 0.4 | | | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | | 8.1 | 0.1 | 0.1 | | 12.5 | | | 11.5 | | | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | | A | A | A | | B | | | B | | | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | | | | 0.2 | | | 12.5 | | | | 11.5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | | | | A | | | B | | | | B | | | | | | | | | | | | | | | | | | | | | | | | | |

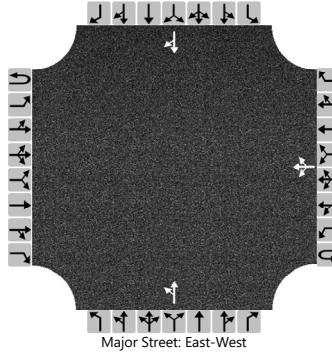
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|---|---|----------------------------|-----------|------|----------------------|-----|------------|------|------|---|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | Vine at Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | | Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | Vine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | AM Build | | | Peak Hour Factor | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | East-West | | | Analysis Time Period (hrs) | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: East-West | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | | | | | | | | | | | | | | | | | | | | | | | |
| Priority | 1U | 1 | 2 | 3 | 4U | 4 | 5 | 6 | 7 | 8 | 9 | | 10 | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | | LTR | | | LT | | | | TR | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | | 5 | 336 | 37 | | 19 | 3 | | 9 | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | | 3 | | | | 3 | 3 | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | | | | | 0 | | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | | 5.3 | | | | 7.1 | 6.5 | | 6.5 | | | | | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | | 5.33 | | | | 7.13 | 6.53 | | 6.53 | | | | | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | | 3.1 | | | | 3.5 | 4.0 | | 4.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | | 3.13 | | | | 3.53 | 4.03 | | 4.03 | | | | | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | | 5 | | | | 24 | | | 48 | | | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | | 1151 | | | | 528 | | | 630 | | | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | | 0.00 | | | | 0.05 | | | 0.08 | | | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | | 0.0 | | | | 0.1 | | | 0.2 | | | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | | 8.1 | 0.0 | 0.0 | | 12.1 | | | 11.2 | | | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | | A | A | A | | B | | | B | | | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | | | | 0.2 | | | 12.1 | | | | 11.2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | | | | A | | | B | | | | B | | | | | | | | | | | | | | | | | | | | | | | | | |

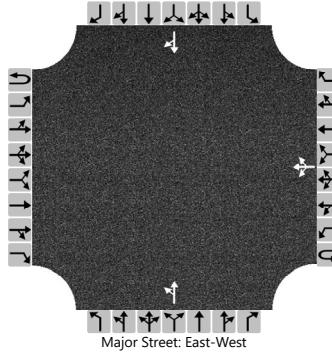
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|---|---|----------------------------|-----------|------|----------------------|-----|------------|------|------|---|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | Vine at Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | | Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | Vine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | PM No Build | | | Peak Hour Factor | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | East-West | | | Analysis Time Period (hrs) | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: East-West | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | | | | | | | | | | | | | | | | | | | | | | | |
| Priority | 1U | 1 | 2 | 3 | 4U | 4 | 5 | 6 | 7 | 8 | 9 | | 10 | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | | LTR | | | LT | | | | TR | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | | 8 | 206 | 13 | | 12 | 4 | | 18 | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | | 3 | | | | 3 | 3 | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | | | | | 0 | | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | | 5.3 | | | | 7.1 | 6.5 | | 6.5 | | | | | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | | 5.33 | | | | 7.13 | 6.53 | | 6.53 | | | | | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | | 3.1 | | | | 3.5 | 4.0 | | 4.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | | 3.13 | | | | 3.53 | 4.03 | | 4.03 | | | | | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | | 9 | | | | 17 | | | 22 | | | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | | 1151 | | | | 664 | | | 660 | | | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | | 0.01 | | | | 0.03 | | | 0.03 | | | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | | 0.0 | | | | 0.1 | | | 0.1 | | | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | | 8.2 | 0.1 | 0.1 | | 10.6 | | | 10.6 | | | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | | A | A | A | | B | | | B | | | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | | | | 0.4 | | | 10.6 | | | | 10.6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | | | | A | | | B | | | | B | | | | | | | | | | | | | | | | | | | | | | | | | |

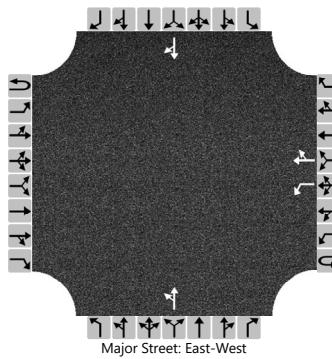
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------|---|---|----------------------------|-----------|------|----------------------|-----|------------|------|------|---|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | Vine at Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | | Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | Vine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | PM Build (Govt Ctr) | | | Peak Hour Factor | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | East-West | | | Analysis Time Period (hrs) | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <p>Major Street: East-West</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | | | | | | | | | | | | | | | | | | | | | | | |
| Priority | 1U | 1 | 2 | 3 | 4U | 4 | 5 | 6 | 7 | 8 | 9 | | 10 | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | | LTR | | | LT | | | | TR | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | | 8 | 206 | 30 | | 12 | 4 | | 21 | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | | 3 | | | | 3 | 3 | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | | | | | 0 | | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | | 5.3 | | | | 7.1 | 6.5 | | 6.5 | | | | | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | | 5.33 | | | | 7.13 | 6.53 | | 6.53 | | | | | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | | 3.1 | | | | 3.5 | 4.0 | | 4.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | | 3.13 | | | | 3.53 | 4.03 | | 4.03 | | | | | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | | 9 | | | | 17 | | | 60 | | | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | | 1151 | | | | 634 | | | 728 | | | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | | 0.01 | | | | 0.03 | | | 0.08 | | | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | | 0.0 | | | | 0.1 | | | 0.3 | | | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | | 8.2 | 0.1 | 0.1 | | 10.8 | | | 10.4 | | | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | | A | A | A | | B | | | B | | | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | | | | 0.3 | | | 10.8 | | | | 10.4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | | | | A | | | B | | | | B | | | | | | | | | | | | | | | | | | | | | | | | | |

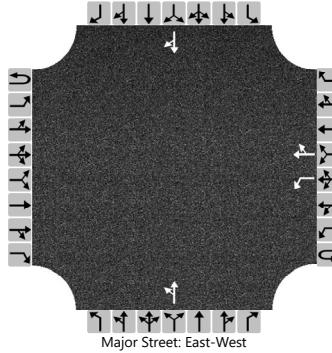
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|---|---|----------------------------|-----------|------|----------------------|-----|------------|------|------|---|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | Vine at Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | | Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | Vine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | PM Build | | | Peak Hour Factor | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | East-West | | | Analysis Time Period (hrs) | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <p>Major Street: East-West</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | | | | | | | | | | | | | | | | | | | | | | | |
| Priority | 1U | 1 | 2 | 3 | 4U | 4 | 5 | 6 | 7 | 8 | 9 | | 10 | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | | LTR | | | LT | | | | TR | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | | 8 | 206 | 27 | | 12 | 4 | | 20 | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | | 3 | | | | 3 | 3 | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | | | | | 0 | | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | | 5.3 | | | | 7.1 | 6.5 | | 6.5 | | | | | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | | 5.33 | | | | 7.13 | 6.53 | | 6.53 | | | | | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | | 3.1 | | | | 3.5 | 4.0 | | 4.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | | 3.13 | | | | 3.53 | 4.03 | | 4.03 | | | | | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | | 9 | | | | 17 | | | 50 | | | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | | 1151 | | | | 641 | | | 721 | | | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | | 0.01 | | | | 0.03 | | | 0.07 | | | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | | 0.0 | | | | 0.1 | | | 0.2 | | | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | | 8.2 | 0.1 | 0.1 | | 10.8 | | | 10.4 | | | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | | A | A | A | | B | | | B | | | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | | | | 0.3 | | | 10.8 | | | | 10.4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | | | | A | | | B | | | | B | | | | | | | | | | | | | | | | | | | | | | | | | |

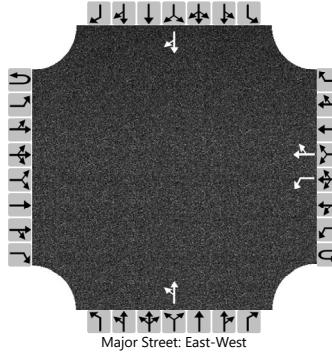
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|---|---|----------------------------|-----------|------|----------------------|---|------------|------|---|---|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | Swan at Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | | Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | Swan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | AM No Build | | | Peak Hour Factor | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | East-West | | | Analysis Time Period (hrs) | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: East-West | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | | | | | | | | | | | | | | | | | | | | | | | |
| Priority | 1U | 1 | 2 | 3 | 4U | 4 | 5 | 6 | 7 | 8 | 9 | | 10 | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | L | | TR | | LT | | | | TR | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | 6 | 381 | 3 | | 24 | 7 | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | 3 | | | | 3 | 3 | | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | | | | 0 | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | | 5.3 | | | 7.1 | 6.5 | | | 6.5 | | | | | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | | 5.33 | | | 7.13 | 6.53 | | | 6.53 | | | | | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | | 3.1 | | | 3.5 | 4.0 | | | 4.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | | 3.13 | | | 3.53 | 4.03 | | | 4.03 | | | | | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | | 7 | | | 34 | | | | 10 | | | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | | 1151 | | | 521 | | | | 603 | | | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | | 0.01 | | | 0.06 | | | | 0.02 | | | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | | 0.0 | | | 0.2 | | | | 0.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | | 8.1 | | | 12.4 | | | | 11.1 | | | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | | A | | | B | | | | B | | | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | 0.1 | | | | 12.4 | | | | 11.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | A | | | | B | | | | B | | | | | | | | | | | | | | | | | | | | | | | | | | | |

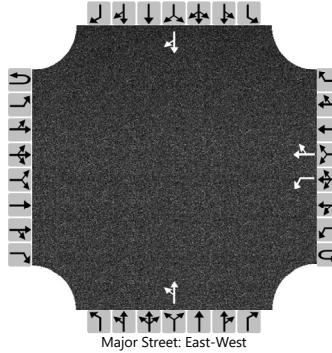
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------|---|---|----------------------------|------|-----|----------------------|---|------|------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | Swan at Breckinridge | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | | Breckinridge | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | Swan | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | AM Build (Govt Ctr) | | | Peak Hour Factor | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | East-West | | | Analysis Time Period (hrs) | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: East-West | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | | | | | | | | | | | | | | | | | | | |
| Priority | 1U | 1 | 2 | 3 | 4U | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | L | | TR | | LT | | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | 9 | 434 | 3 | | 24 | 7 | | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | 3 | | | | 3 | 3 | | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | | | | 0 | | 0 | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | 5.3 | | | | 7.1 | 6.5 | | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | 5.33 | | | | 7.13 | 6.53 | | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | 3.1 | | | | 3.5 | 4.0 | | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | 3.13 | | | | 3.53 | 4.03 | | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | 10 | | | | 34 | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | 1151 | | | | 472 | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | 0.01 | | | | 0.07 | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | 0.0 | | | | 0.2 | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | 8.2 | | | | 13.2 | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | A | | | | B | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | 0.2 | | | 13.2 | | | 11.6 | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | A | | | B | | | B | | | | | | | | | | | | | | | | | | | | | | | |

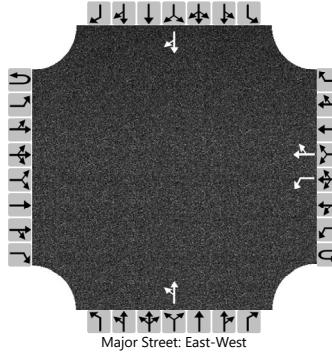
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|---|---|----------------------------|-----------|------|----------------------|---|------------|------|------|---|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | Swan at Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | | Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | Swan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | AM Build | | | Peak Hour Factor | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | East-West | | | Analysis Time Period (hrs) | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: East-West | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | | | | | | | | | | | | | | | | | | | | | | | |
| Priority | 1U | 1 | 2 | 3 | 4U | 4 | 5 | 6 | | 7 | 8 | 9 | 10 | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | L | | TR | | LT | | | | TR | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | 8 | 411 | 3 | | 24 | 7 | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | 3 | | | | 3 | 3 | | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | | | | 0 | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | | 5.3 | | | 7.1 | 6.5 | | | 6.5 | | | | | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | | 5.33 | | | 7.13 | 6.53 | | | 6.53 | | | | | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | | 3.1 | | | 3.5 | 4.0 | | | 4.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | | 3.13 | | | 3.53 | 4.03 | | | 4.03 | | | | | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | | 9 | | | 34 | | | | 10 | | | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | | 1151 | | | 492 | | | | 577 | | | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | | 0.01 | | | 0.07 | | | | 0.02 | | | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | | 0.0 | | | 0.2 | | | | 0.1 | | | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | | 8.2 | | | 12.9 | | | | 11.3 | | | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | | A | | | B | | | | B | | | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | | | | 0.2 | | | 12.9 | | | | 11.3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | | | | A | | | B | | | | B | | | | | | | | | | | | | | | | | | | | | | | | | |

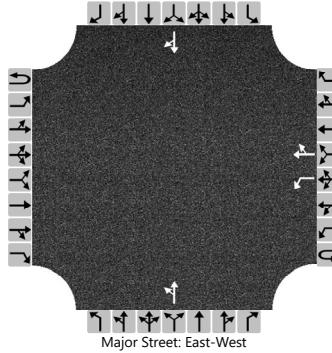
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|---|---|----------------------------|-----------|------|----------------------|---|------------|------|------|---|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | Swan at Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | | Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | Swan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | PM No Build | | | Peak Hour Factor | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | East-West | | | Analysis Time Period (hrs) | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: East-West | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | | | | | | | | | | | | | | | | | | | | | | | |
| Priority | 1U | 1 | 2 | 3 | 4U | 4 | 5 | 6 | 7 | 8 | 9 | | 10 | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | L | | TR | | LT | | | | TR | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | 19 | 220 | 7 | | 22 | 9 | | | 16 | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | 3 | | | | 3 | 3 | | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | | | | 0 | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | | 5.3 | | | 7.1 | 6.5 | | | 6.5 | | | | | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | | 5.33 | | | 7.13 | 6.53 | | | 6.53 | | | | | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | | 3.1 | | | 3.5 | 4.0 | | | 4.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | | 3.13 | | | 3.53 | 4.03 | | | 4.03 | | | | | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | 21 | | | | 34 | | | | 38 | | | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | 1151 | | | | 613 | | | | 699 | | | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | 0.02 | | | | 0.05 | | | | 0.05 | | | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | 0.1 | | | | 0.2 | | | | 0.2 | | | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | 8.2 | | | | 11.2 | | | | 10.4 | | | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | A | | | | B | | | | B | | | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | | | | 0.6 | | | 11.2 | | | | 10.4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | | | | A | | | B | | | | B | | | | | | | | | | | | | | | | | | | | | | | | | |

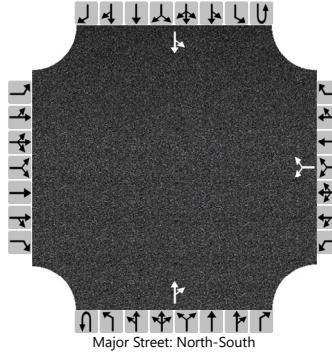
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------|---|---|----------------------------|-----------|------|----------------------|---|------------|------|------|---|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | Swan at Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | | Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | Swan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | PM Build (Govt Ctr) | | | Peak Hour Factor | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | East-West | | | Analysis Time Period (hrs) | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: East-West | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | | | | | | | | | | | | | | | | | | | | | | | |
| Priority | 1U | 1 | 2 | 3 | 4U | 4 | 5 | 6 | 7 | 8 | 9 | | 10 | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | L | | TR | | LT | | | | TR | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | 22 | 249 | 7 | | 22 | 9 | | | 16 | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | 3 | | | | 3 | 3 | | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | | | | 0 | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | | 5.3 | | | | 7.1 | 6.5 | | 6.5 | | | | | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | | 5.33 | | | | 7.13 | 6.53 | | 6.53 | | | | | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | | 3.1 | | | | 3.5 | 4.0 | | 4.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | | 3.13 | | | | 3.53 | 4.03 | | 4.03 | | | | | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | | 24 | | | | 34 | | | 38 | | | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | | 1151 | | | | 577 | | | 667 | | | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | | 0.02 | | | | 0.06 | | | 0.06 | | | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | | 0.1 | | | | 0.2 | | | 0.2 | | | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | | 8.2 | | | | 11.6 | | | 10.7 | | | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | | A | | | | B | | | B | | | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | | | | 0.6 | | | 11.6 | | | | 10.7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | | | | A | | | B | | | | B | | | | | | | | | | | | | | | | | | | | | | | | | |

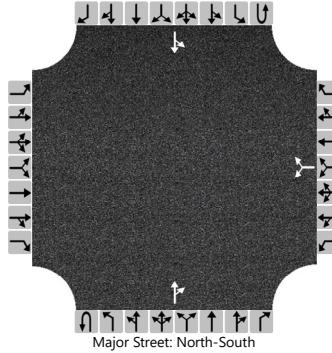
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|---|---|----------------------------|-----------|------|----------------------|---|------------|------|------|---|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | Swan at Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | | Breckinridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | Swan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | PM Build | | | Peak Hour Factor | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | East-West | | | Analysis Time Period (hrs) | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: East-West | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | | | | | | | | | | | | | | | | | | | | | | | |
| Priority | 1U | 1 | 2 | 3 | 4U | 4 | 5 | 6 | 7 | 8 | 9 | | 10 | | | | | | | | | | | | | | | | | | | | | | | |
| Number of Lanes | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | L | | TR | | LT | | | | TR | | | | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | 21 | 242 | 7 | | 22 | 9 | | | 16 | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | 3 | | | | 3 | 3 | | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | | | | 0 | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | | 5.3 | | | 7.1 | 6.5 | | | 6.5 | | | | | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | | 5.33 | | | 7.13 | 6.53 | | | 6.53 | | | | | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | | 3.1 | | | 3.5 | 4.0 | | | 4.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | | 3.13 | | | 3.53 | 4.03 | | | 4.03 | | | | | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | 23 | | | | 34 | | | | 38 | | | | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | 1151 | | | | 587 | | | | 675 | | | | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | 0.02 | | | | 0.06 | | | | 0.06 | | | | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | 0.1 | | | | 0.2 | | | | 0.2 | | | | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | 8.2 | | | | 11.5 | | | | 10.7 | | | | | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | A | | | | B | | | | B | | | | | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | | | | 0.6 | | | 11.5 | | | | 10.7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | | | | A | | | B | | | | B | | | | | | | | | | | | | | | | | | | | | | | | | |

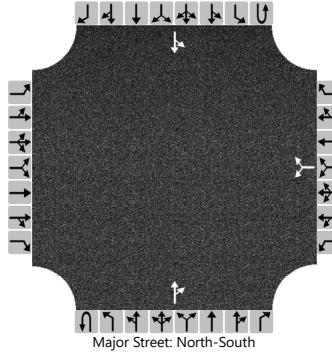
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------|----|----|----------------------------|---|--------------------|------------|------|----|------------|----|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | St Anthony at Vine | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | St. Anthony | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | Vine | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | AM Build (Govt Ctr) | | | Peak Hour Factor | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | North-South | | | Analysis Time Period (hrs) | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: North-South | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | | | | | | | | | | | | | | | | | | |
| Priority | | 10 | 11 | 12 | | 7 | 8 | 9 | 1U | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | |
| Number of Lanes | | 0 | 0 | 0 | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | | LR | | | | TR | | LT | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | | 26 | | 8 | | 14 | 16 | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | | 3 | | 3 | | | | 3 | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | | 7.1 | | 6.2 | | | | 4.1 | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | | 6.43 | | 6.23 | | | | 4.13 | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | | 3.5 | | 3.3 | | | | 2.2 | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | | 3.53 | | 3.33 | | | | 2.23 | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | | 37 | | | | | | 11 | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | | 959 | | | | | | 1573 | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | | 0.04 | | | | | | 0.01 | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | | 0.1 | | | | | | 0.0 | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | | 8.9 | | | | | | 7.3 | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | | A | | | | | | A | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | 8.9 | | | | | | | | | 2.8 | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | A | | | | | | | | | A | | | | | | | | | | | | | | | | | | | | |

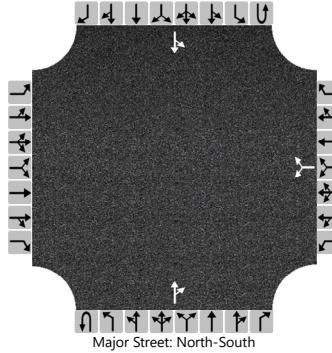
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|----|----|----------------------------|---|--------------------|------------|------|-----|------------|---|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | St Anthony at Vine | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | St. Anthony | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | Vine | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | AM Build | | | Peak Hour Factor | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | North-South | | | Analysis Time Period (hrs) | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: North-South | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | | | | | | | | | | | | | | | | | | |
| Priority | | 10 | 11 | 12 | | 7 | 8 | 9 | 1U | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | |
| Number of Lanes | | 0 | 0 | 0 | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | | LR | | | | TR | | LT | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | | 15 | | 5 | | 12 | 9 | 5 | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | | 3 | | 3 | | | | 3 | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | | 7.1 | | 6.2 | | | | 4.1 | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | | 6.43 | | 6.23 | | | | 4.13 | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | | 3.5 | | 3.3 | | | | 2.2 | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | | 3.53 | | 3.33 | | | | 2.23 | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | | 22 | | | | | | 5 | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | | 983 | | | | | | 1586 | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | | 0.02 | | | | | | 0.00 | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | | 0.1 | | | | | | 0.0 | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | | 8.7 | | | | | | 7.3 | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | | A | | | | | | A | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | | | | 8.7 | | | | | 1.9 | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | | | | A | | | | | A | | | | | | | | | | | | | | | | | | | | | |

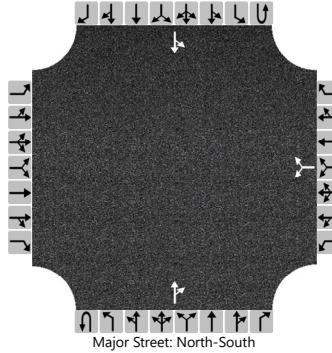
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------|----|----|----------------------------|---|--------------------|------------|------|-----|------------|---|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | St Anthony at Vine | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | St. Anthony | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | Vine | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | PM Build (Govt Ctr) | | | Peak Hour Factor | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | North-South | | | Analysis Time Period (hrs) | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: North-South | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | | | | | | | | | | | | | | | | | | |
| Priority | | 10 | 11 | 12 | | 7 | 8 | 9 | 1U | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | |
| Number of Lanes | | 0 | 0 | 0 | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | | LR | | | | TR | | LT | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | | 17 | | 9 | | 26 | 4 | 22 | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | | 3 | | 3 | | | | 3 | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | | 7.1 | | 6.2 | | | | 4.1 | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | | 6.43 | | 6.23 | | | | 4.13 | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | | 3.5 | | 3.3 | | | | 2.2 | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | | 3.53 | | 3.33 | | | | 2.23 | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | | 28 | | | | | | 24 | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | | 928 | | | | | | 1573 | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | | 0.03 | | | | | | 0.02 | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | | 0.1 | | | | | | 0.0 | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | | 9.0 | | | | | | 7.3 | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | | A | | | | | | A | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | | | | 9.0 | | | | | 3.6 | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | | | | A | | | | | A | | | | | | | | | | | | | | | | | | | | | |

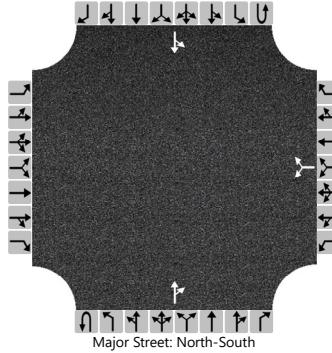
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|----|----|----------------------------|---|--------------------|------------|------|----|------------|---|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | St Anthony at Vine | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | St. Anthony | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | Vine | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | PM Build | | | Peak Hour Factor | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | North-South | | | Analysis Time Period (hrs) | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: North-South | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | | | | | | | | | | | | | | | | | | |
| Priority | | 10 | 11 | 12 | | 7 | 8 | 9 | 1U | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | |
| Number of Lanes | | 0 | 0 | 0 | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | | LR | | | | TR | | LT | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | | 15 | | 5 | | 12 | 9 | 5 | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | | 3 | | 3 | | | | 3 | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | | 7.1 | | 6.2 | | | | 4.1 | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | | 6.43 | | 6.23 | | | | 4.13 | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | | 3.5 | | 3.3 | | | | 2.2 | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | | 3.53 | | 3.33 | | | | 2.23 | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | | 22 | | | | | | 5 | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | | 983 | | | | | | 1586 | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | | 0.02 | | | | | | 0.00 | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | | 0.1 | | | | | | 0.0 | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | | 8.7 | | | | | | 7.3 | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | | A | | | | | | A | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | | | | 8.7 | | | | | | 1.9 | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | | | | A | | | | | | A | | | | | | | | | | | | | | | | | | | | |

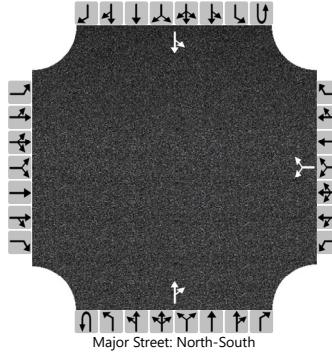
HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------|----|----|----------------------------|---|------|----------------|------|----|------------|------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | Debarr at Vine | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | | Debarr | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | Vine | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | AM Build (Govt Ctr) | | | Peak Hour Factor | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | North-South | | | Analysis Time Period (hrs) | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: North-South | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | | | | | | | | | | | | | | | | | | |
| Priority | | 10 | 11 | 12 | | 7 | 8 | 9 | 1U | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | |
| Number of Lanes | | 0 | 0 | 0 | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | | LR | | | | TR | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | | 29 | | 5 | | 25 | 38 | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | | 3 | | 3 | | | | 3 | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | | 7.1 | | 6.2 | | | 4.1 | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | | 6.43 | | 6.23 | | | 4.13 | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | | 3.5 | | 3.3 | | | 2.2 | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | | 3.53 | | 3.33 | | | 2.23 | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | | 37 | | | | | 7 | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | | 909 | | | | | 1526 | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | | 0.04 | | | | | 0.00 | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | | 0.1 | | | | | 0.0 | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | | 9.1 | | | | | 7.4 | 0.0 | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | | A | | | | | A | A | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | | | | 9.1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | | | | A | | | | | | | | | | | | | | | | | | | | | | | | | | |

HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|----|----|----------------------------|---|------|----------------|------|----|------------|------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | Debarr at Vine | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | | Debarr | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | Vine | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | AM Build | | | Peak Hour Factor | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | North-South | | | Analysis Time Period (hrs) | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: North-South | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | | | | | | | | | | | | | | | | | | |
| Priority | | 10 | 11 | 12 | | 7 | 8 | 9 | 1U | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | |
| Number of Lanes | | 0 | 0 | 0 | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | | LR | | | | TR | | | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | | 17 | | 3 | | 18 | 22 | | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | | 3 | | 3 | | | | 3 | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | | 7.1 | | 6.2 | | | 4.1 | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | | 6.43 | | 6.23 | | | 4.13 | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | | 3.5 | | 3.3 | | | 2.2 | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | | 3.53 | | 3.33 | | | 2.23 | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | | 22 | | | | | 4 | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | | 947 | | | | | 1559 | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | | 0.02 | | | | | 0.00 | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | | 0.1 | | | | | 0.0 | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | | 8.9 | | | | | 7.3 | 0.0 | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | | A | | | | | A | A | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | | | | 8.9 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | | | | A | | | | | | | | | | | | | | | | | | | | | | | | | | |

HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------|----|----|----------------------------|---|----------------|------------|------|----|------------|------|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | Debarr at Vine | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | Debarr | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | Vine | | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | PM Build (Govt Ctr) | | | Peak Hour Factor | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | North-South | | | Analysis Time Period (hrs) | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Major Street: North-South | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | | | | | | | | | | | | | | | | | | |
| Priority | | 10 | 11 | 12 | | 7 | 8 | 9 | 1U | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | |
| Number of Lanes | | 0 | 0 | 0 | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | | LR | | | | TR | | LT | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | | 17 | | 9 | | 28 | 13 | 11 | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | | 3 | | 3 | | | | 3 | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | | 7.1 | | 6.2 | | | 4.1 | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | | 6.43 | | 6.23 | | | 4.13 | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | | 3.5 | | 3.3 | | | 2.2 | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | | 3.53 | | 3.33 | | | 2.23 | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | | 28 | | | | 12 | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | | 933 | | | | 1557 | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | | 0.03 | | | | 0.01 | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | | 0.1 | | | | 0.0 | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | | 9.0 | | | | 7.3 | 0.1 | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | | A | | | | A | A | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | | | | 9.0 | | | | | | 1.7 | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | | | | A | | | | | | A | | | | | | | | | | | | | | | | | | | | |

HCS Two-Way Stop-Control Report

| General Information | | | | Site Information | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|----|----|----------------------------|---|------|----------------|------|----|------------|------|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyst | AJK | | | Intersection | | | Debarr at Vine | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Co. | AKE | | | Jurisdiction | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Performed | 12/9/2022 | | | East/West Street | | | Debarr | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Year | 2022 | | | North/South Street | | | Vine | | | | | | | | | | | | | | | | | | | | | | | |
| Time Analyzed | PM Build | | | Peak Hour Factor | | | 0.92 | | | | | | | | | | | | | | | | | | | | | | | |
| Intersection Orientation | North-South | | | Analysis Time Period (hrs) | | | 0.25 | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description | Paristown Heights | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lanes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Major Street: North-South</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Volumes and Adjustments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Approach | Eastbound | | | Westbound | | | Northbound | | | Southbound | | | | | | | | | | | | | | | | | | | | |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | | | | | | | | | | | | | | | | | | |
| Priority | | 10 | 11 | 12 | | 7 | 8 | 9 | 1U | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | |
| Number of Lanes | | 0 | 0 | 0 | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | | | | | | | | | | | | | | | | | | |
| Configuration | | | | | | LR | | | | TR | | LT | | | | | | | | | | | | | | | | | | |
| Volume (veh/h) | | | | | | 13 | | 7 | | 26 | 11 | 9 | | | | | | | | | | | | | | | | | | |
| Percent Heavy Vehicles (%) | | | | | | 3 | | 3 | | | | 3 | | | | | | | | | | | | | | | | | | |
| Proportion Time Blocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Grade (%) | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Right Turn Channelized | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median Type Storage | Undivided | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Critical and Follow-up Headways | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Critical Headway (sec) | | | | | | 7.1 | | 6.2 | | | 4.1 | | | | | | | | | | | | | | | | | | | |
| Critical Headway (sec) | | | | | | 6.43 | | 6.23 | | | 4.13 | | | | | | | | | | | | | | | | | | | |
| Base Follow-Up Headway (sec) | | | | | | 3.5 | | 3.3 | | | 2.2 | | | | | | | | | | | | | | | | | | | |
| Follow-Up Headway (sec) | | | | | | 3.53 | | 3.33 | | | 2.23 | | | | | | | | | | | | | | | | | | | |
| Delay, Queue Length, and Level of Service | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flow Rate, v (veh/h) | | | | | | 22 | | | | 10 | | | | | | | | | | | | | | | | | | | | |
| Capacity, c (veh/h) | | | | | | 945 | | | | 1563 | | | | | | | | | | | | | | | | | | | | |
| v/c Ratio | | | | | | 0.02 | | | | 0.01 | | | | | | | | | | | | | | | | | | | | |
| 95% Queue Length, Q ₉₅ (veh) | | | | | | 0.1 | | | | 0.0 | | | | | | | | | | | | | | | | | | | | |
| Control Delay (s/veh) | | | | | | 8.9 | | | | 7.3 | 0.0 | | | | | | | | | | | | | | | | | | | |
| Level of Service (LOS) | | | | | | A | | | | A | A | | | | | | | | | | | | | | | | | | | |
| Approach Delay (s/veh) | | | | 8.9 | | | | | | 1.6 | | | | | | | | | | | | | | | | | | | | |
| Approach LOS | | | | A | | | | | | A | | | | | | | | | | | | | | | | | | | | |