

HAMPTON CORRIDOR TRAFFIC STUDY

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Prepared for: City of St. Louis Board of Public Service







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PURPOSE

The purpose of this study was to determine the feasibility of reducing traffic lanes along Hampton Avenue between Chippewa Street and Gravois Avenue. The motivation for reducing lanes or implementing a "road diet" is a desire for Hampton Avenue to more effectively serve all users of the street, including pedestrians, cyclists, transit users, and motorists. Today, Hampton Avenue functions as an arterial street that prioritizes vehicle traffic over other modes. Hampton has two traffic lanes in each direction. Traffic signal cycles are long to accommodate through traffic. Many areas along the corridor lack adequate pedestrian and bicycle infrastructure.

At the same time, the land use context along Hampton Avenue is evolving. Small businesses and restaurants are reinvigorating existing commercial buildings. These new businesses, particularly the restaurants, have amplified the need for parking. Many restaurants rely upon on-street parking along Hampton Avenue to serve their patrons. Adjacent neighborhood residents are more and more seeking a walkable community and an urban experience.

Implementing a "road diet" along Hampton Avenue would reduce traffic speeds, improve safety, and promote a more welcoming environment for non-motorized users of the street. This study objectively evaluates the feasibility of a "road diet" along the Hampton Avenue corridor by detailing its anticipated benefits and impacts to traffic.





LOCATION

The study runs along Hampton Avenue from Chippewa Street to the north to Gravois Avenue to the south. This area touches both Ward 16 and Ward 12 of the City of St. Louis and three neighborhoods – St. Louis Hills, Princeton Heights, and South Hampton. Ward and neighborhood maps are depicted in Figure 1 and Figure 2. The surrounding neighborhoods are mostly single-family. The northern portion of the corridor is commercial including large retail centers with off-street parking, such as the Hampton Village Shopping Center. The middle portion contains small-scale commercial uses with buildings abutting the sidewalks and onstreet parking. The southern portion of the corridor is lined with mostly residential uses and Willmore Park.

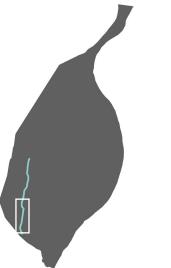


Figure 1. Hampton Corrridor City Wards

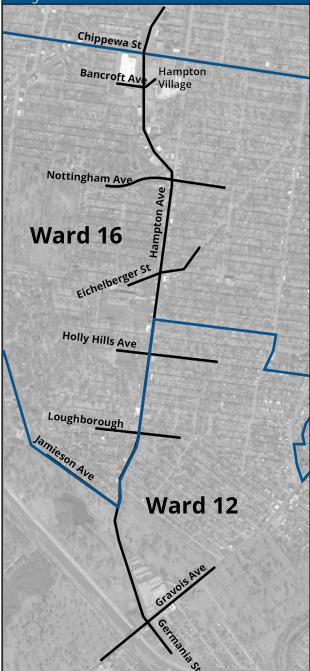
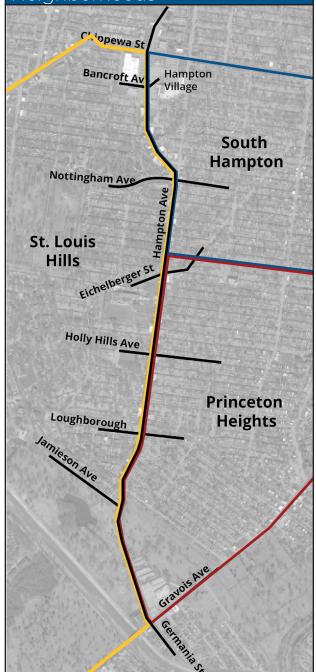


Figure 2. Hampton Corridor Neighborhoods





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SCOPE

To assess the feasibility of a road diet, this study first evaluated existing conditions along Hampton Avenue based on the current configuration of the corridor. The existing conditions were then compared to a road diet configuration. Both scenarios were evaluated using existing traffic volumes.

To determine the feasibility of a "road diet", this study evaluated traffic operations, parking, and safety along the study corridor, focusing on the major study intersections:

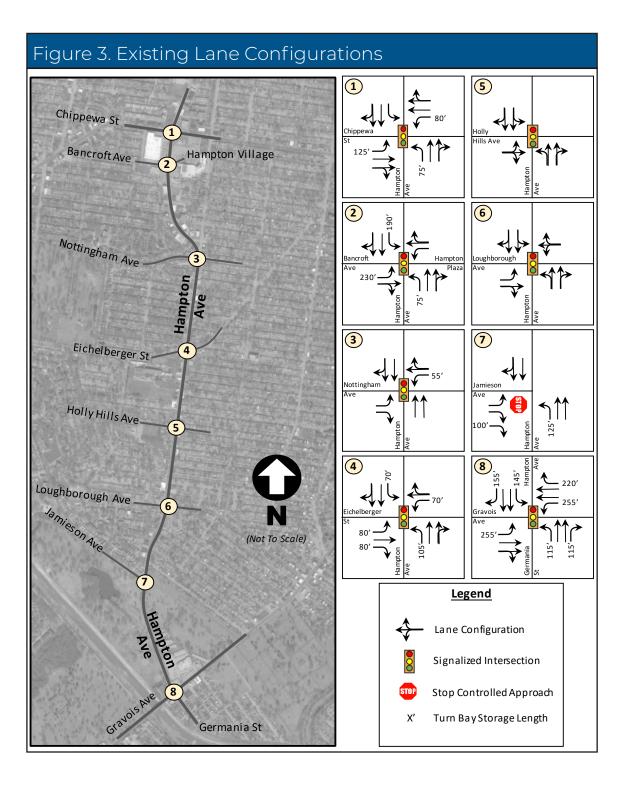
- Hampton Avenue and Chippewa Street
- Hampton Avenue and Bancroft Avenue
- Hampton Avenue and Nottingham Avenue
- Hampton Avenue and Eichelberger Street
- · Hampton Avenue and Holly Hills Avenue
- Hampton Avenue and Loughborough Avenue
- Hampton Avenue and Jamieson Avenue
- Hampton Avenue and Gravois Avenue/Germania Street



EXISTING CONDITIONS

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Traffic Operations







Lane Configuration

The Hampton Avenue curb-to-curb width is 54 to 55 feet along the length of the corridor. However, the lane designations vary. Between Chippewa Street and Lansdowne Avenue, the street has five lanes including two through lanes in each direction plus a center lane for left-turns. To the south of Lansdowne Avenue, Hampton Avenue is mostly four lanes with two through lanes in each direction. Hampton has dedicated left-turn lanes at its intersections with Eichelberger Street, with Jamieson Avenue, and at the Willmore Park entrance.

The study corridor contains 7 signalized intersections–6 operate as part of a coordinated system maintained by the City of St. Louis. Missouri Department of Transportation operates the intersection of Hampton Avenue and Gravois Avenue. The lane configuration and method of traffic control at each study intersection is depicted in **Figure 3**.



Pedestrian Conditions

Sidewalks line both sides of Hampton Avenue along length of the corridor. The width of sidewalk varies by location from narrow 4-foot sidewalks to very wide 12-foot sidewalks. The signalized intersections have marked pedestrian crosswalks with push buttons and pedestrian signal indicators across most legs. Sidewalk condition and the degree of ADA compliance varies throughout the corridor. The intersection of Hampton Avenue with Jamieson Avenue lacks crosswalks entirely. In fact, Hampton Avenue lacks east-west pedestrian crossings between Loughborough Avenue and Gravois Avenue – a distance of over 3,600 feet.

Figure 4. Pedestrian Crossings Along Major Intersections

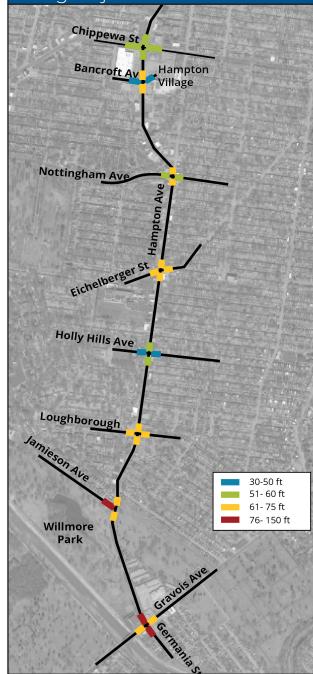




Figure 5. Bicycle Routes Chippewa St Bancrof<u>t Ave</u> Hampton Village Nottingham Ave **Eichelberger St** Holly Hills Ave Loughborough amieson Ave Dedicated Bike Lanes Share-the-road Willmore Park



Bicycle Conditions

Hampton Avenue from Eichelberger Street to Gravois Avenue is an official bicycle route designated by Bike St. Louis. From Eichelberger Street to Robert Avenue, Hampton has a sharethe-road configuration denoted by painted "sharrows". Dedicated on-street bicycle lanes are marked on both sides of the street south of Robert Avenue. While the northbound onstreet bike lane continues south to Gravois Avenue, the southbound lane is interrupted by on-street parking adjacent to Willmore Park and returns to a share-the-road configuration.

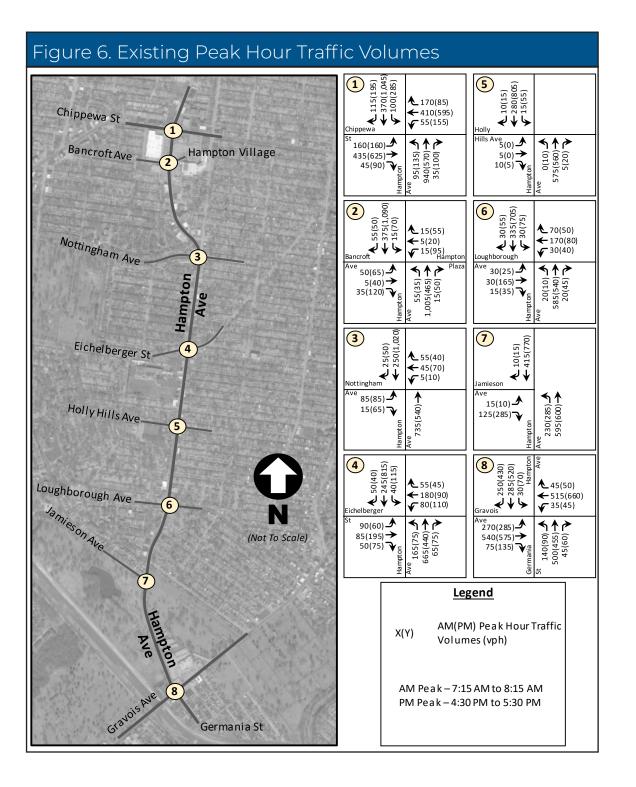
To the south of the study area, the on-street lanes continue along Germania Street. To the north, the bike route continues east on Eichelberger Street and angles north along Wherry Ave to Macklind Avenue. A map of the designated bicycle routes is shown in **Figure 5**.



Transit

The study corridor is served by Metro Transit and the #90 MetroBus route. Service is provided at 30-minute headways throughout the day with additional service during peak periods. There are 11 southbound and 9 northbound bus stops in the study area, none of which have covered shelters.







Peak Hour Traffic Volumes

Turning movement counts were collected at each of the study intersections during the weekday peak hours. Counts were performed in February and March of 2019. The weekday peak hours occurred from 7:15 AM to 8:15 AM in the morning and from 4:30 PM to 5:30 PM in the evening. These periods were the focus of the traffic analysis. The peak hour volumes are summarized by intersection and movement in **Figure 6**.

In general, traffic volumes are heavier in northern portions of the corridor. The busiest intersections are at the north (Chippewa Street) and south (Gravois Avenue) limits of the study area.

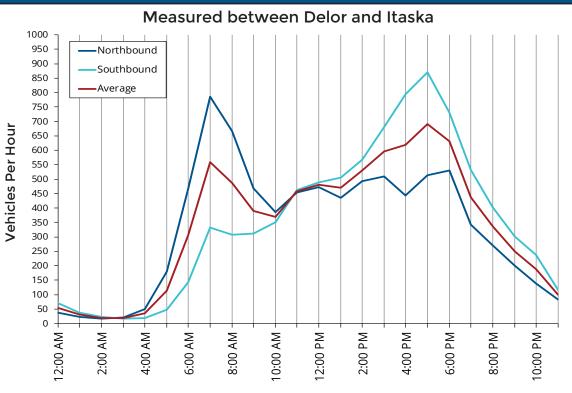


Daily Traffic Volumes

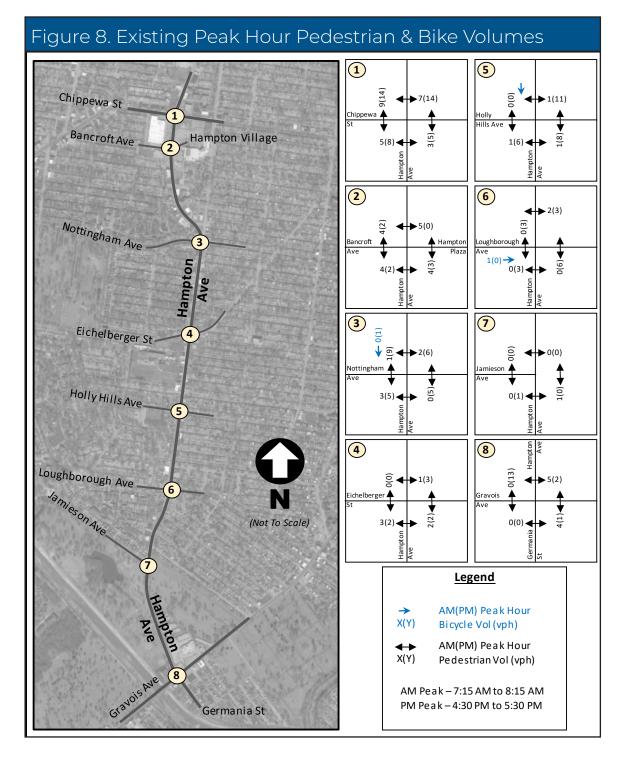
The daily traffic volume on Hampton Avenue was measured for one weekday at a location between Delor Street and Itaska Street. The daily traffic volume was 16,332 vehicles per day. As expected, volumes were balanced northbound and southbound over the course of the day. The hourly traffic fluctuation throughout the day by direction is depicted in **Figure 7**.

Traffic is heaviest in the northbound direction in the morning and in the southbound direction in the afternoon. This reflects prevailing commuter traffic patterns oriented towards Interstates 44 and 64 in the morning and away from those interstates in the afternoon.

Figure 7. Daily Traffic Volumes on Hampton Ave.







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Peak Hour Pedestrian & Bicycle Volumes

Pedestrian volumes were modest while bicycle volumes were nominal. These low volumes were likely impacted by the winter season in which the counts were performed. Pedestrian and bicycle volumes collected at each study intersection are summarized for the traffic peak hours in **Figure 8**.

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Speed

The posted speed limit on Hampton Avenue is 35 miles per hour (mph). Vehicle speeds on Hampton were measured for one weekday at a location between Delor Street and Itaska Street to determine motorists' compliance with the posted limit. Speed data is typically summarized by the 85th percentile speed, which is the speed at which 85 percent of the motoring public are traveling at or below. The 85th percentile speed is useful because it represents the collective judgment of most drivers and ignores high-speed outliers. Along the Hampton corridor, the 85th percentile speed was 37.3 mph, which is relatively consistent with the posted speed limit. The speed profile for Hampton Avenue is summarized in **Figure 9**.

Figure 9. Average Weekday Speed, Hampton Ave

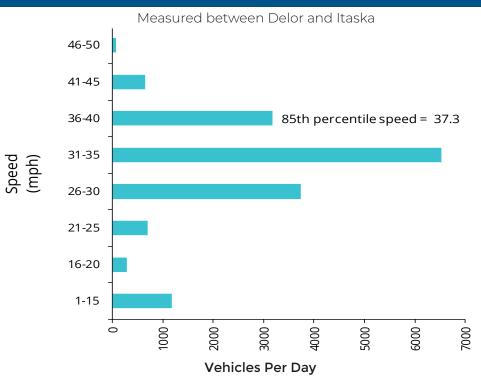




Figure 10. Weekday Mid-day On-Street Parking Utilization



Figure 11. Friday Evening On-Street Parking Utilization





Parking

Hampton Avenue accommodates on-street parking on both sides of the street from around Lansdowne Avenue south to Gravois Avenue. Parking is interrupted in sections for dedicated left-turn lanes and on-street bike lanes but is provided throughout most of the corridor. The total amount of on-street parking was estimated to be 500 spaces.

On-street parking along Hampton Avenue was measured in the field during the midday period on a weekday (12:00 PM - 2:00 PM) and during the evening on a Friday (6:00 PM - 8:00 PM). These periods capture the highest demands for on-street parking. Parking utilization along the corridor is illustrated in **Figure 10** and **Figure 11**.

Weekday midday parking utilization was low, averaging 9 percent. Of the 500 spaces in the corridor, under 50 spaces were used. No individual block segment exceeded 55 percent utilization.

Friday evening utilization was higher, averaging 17 percent. While this is still relatively low, multiple block segments on the west side exceeded 80 percent utilization. There were also five instances of illegal parking.



Safety

A safety analysis was performed using crash data from the Hampton Avenue corridor from 2016 and 2017. This analysis was supplemented by a review of individual reports for injury crashes furnished by the City of St. Louis from 2016, 2017, and 2018.

Crash Type

Rear-end crashes (32%) and angle crashes (25%) were most common. These types of crashes are typical for urban arterials with frequent intersections and a high concentration of driveways. 8 percent of crashes involved parked cars, which was expected given the on-street parking along Hampton Avenue. Pedestrian crashes made up 5 percent of all crashes.

Crash Severity

Over the 2-year crash analysis period, the Hampton Avenue corridor experienced 1 fatal crash and 2 crashes with incapacitating or disabling injury. In total, there were 165 crashes in 2016 and 2017 as summarized in **Figure 13**.

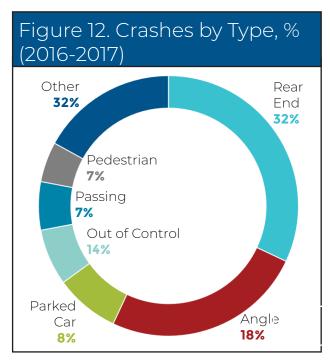


Figure 13. Crashes by Severity, total (2016-2017)

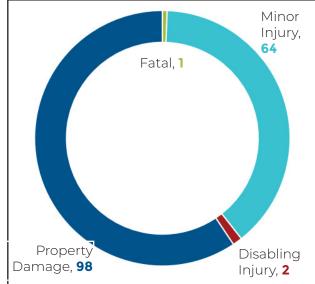
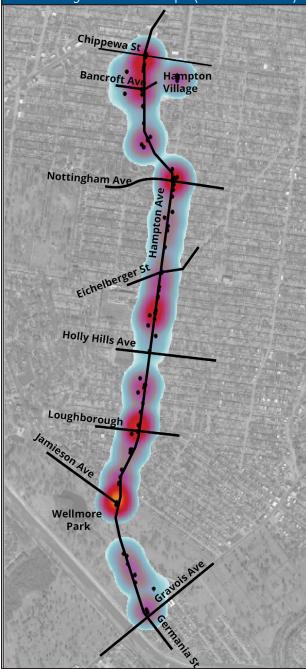




Figure 14. Crash Frequency & Severity Heat Map (2016-2017)





Safety

Crash Location

The one fatal crash occurred at Hampton Avenue and Jamieson Avenue and involved a car colliding with a bicycle in the dark. Both disabling injury crashes involved head-on collisions resulting from improper lane usage. One of the disabling injury crashes also occurred at the Hampton Avenue and Jamieson Avenue intersection. The other occurred at Hampton Avenue and Nottingham Avenue.

A heat map of crashes shown in **Figure 14** highlights the intersections of both frequent and high severity crashes, Jamieson Avenue and Hampton Avenue being the intersection with the most frequent and severe crashes. Most crashes resulted in minor injuries or property damage. These crashes were distributed throughout the Hampton Avenue corridor, although the segment between Eichelberger Street and Holly Hills Avenue experienced a larger amount of these crashes. This is likely due to a high number of active commercial driveways in that section.



Traffic Operations

Traffic operating conditions were evaluated during the weekday morning and evening commuter peak hours. If traffic is well accommodated during peak periods, it will be accomodated at all other times. Each intersection was graded with six levels of traffic service (LOS) from Athrough F.LOS E represents acceptable intersection performance in urban areas. Intersection LOS for the morning and evening peak hours are illustrated in **Figure 15** and **Figure 16**.

- All study intersections operate at acceptable overall levels of service – LOS C or better in the morning and LOS D or better in the evening.
- In the evening, several minor approaches to intersections operate at LOS E or F. This is in part due to long traffic signal cycle lengths (140 seconds).

Evaluation of traffic operations focused on intersection performance, since the number of vehicles that can be served at major intersections dictates Hampton Avenue's capacity. Existing traffic operations in the study corridor were evaluated using Synchro 10. The traffic operational analysis methodology is summarized in **Appendix D**. Detailed intersection operating summaries are provided in **Appendix E**, including LOS, delay, and queue lengths by intersection approach.

Figure 15. Existing Traffic Operations, AM Peak Hour

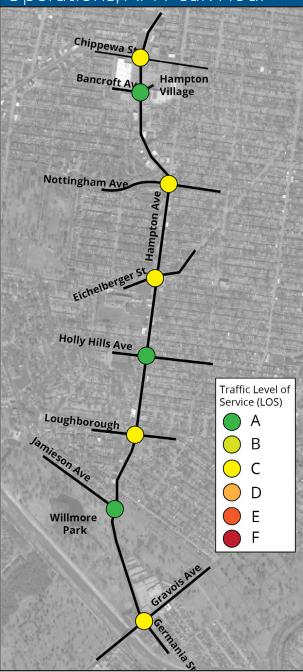
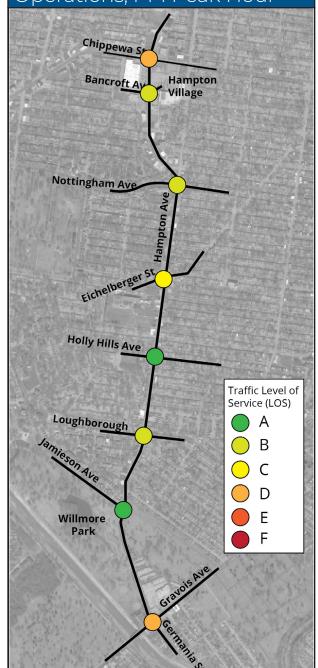


Figure 16. Existing Traffic Operations, PM Peak Hour





"ROAD DIET" CONCEPT

A "road diet" concept was developed and tailored to conditions in the Hampton Avenue corridor. The "road diet" conceptual design was evaluated for its feasibility and likelihood of success.

This objective evaluation is intended to provide decision-makers with the most accurate information to assess the feasibility of the road diet alternative. This study does not offer a recommendation for or against the "road diet" alternative.

Conceptual Design

The "road diet" concept includes 3 traffic lanes – 1 through lane in each direction plus a center twoway left-turn lane. Converting roadways from 4 lanes to 3 lanes is the most common "road diet" application. This concept maintains existing on-street parking, except for the parking along the west side of the street adjacent to Willmore Park. With negligible parking usage in that area, the pavement is instead designated for a southbound on-street bicycle lane. This mirrors the existing northbound bicycle lane on the other side of the street.

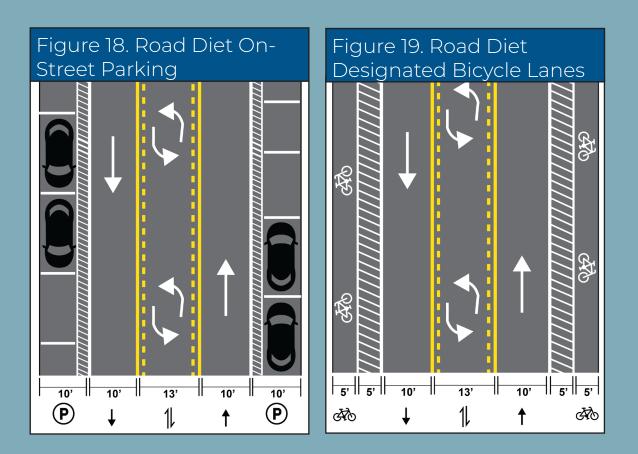
Starting at the north end of the study corridor, the road diet begins just south of Bancroft Avenue near Lansdowne Avenue. This location was chosen because beginning the "road diet" further to the north would significantly impact traffic; there are heavy traffic volumes at the Chippewa Street intersection, combined with insufficient distance for lane transitions between Chippewa and Bancroft Avenue. This concept assumes the intersections of Hampton Avenue with Chippewa Street and with Bancroft Avenue would not change. **Figure 17** shows the "road diet" locations within the study corridor.

The 3-lane "road diet" would proceed south from Lansdowne to the entrance of Willmore Park. South of that location, the three-lane road would transition back to the existing 4-lane cross-section. The intersection at Gravois Avenue would remain in place.



Figure 17. Road Diet Location





Conceptual Design

The typical cross-section with the "road diet" concept assumes 10-foot traffic lanes in each direction plus a 13-foot center two-way left-turn lane plus 10-foot outside parking lanes on each side of the street or 5-foot bike lanes plus a 5-foot buffer. On-street parking remains interrupted for transit stops. These cross sections are illustrated in **Figure 18** and **Figure 19**.





Intersection Improvements

Select intersections modified with the "road diet" concept are described below. the "road diet" lane configuration is depicted in Figure 20.

The intersection of Hampton Avenue with Nottingham Avenue includes a short dedicated southbound right-turn lane. This will help increase southbound capacity for the evening peak hours and enable right-turning vehicles to decelerate out of the through lane. Deceleration will improve safety at the intersection given limited visibility with the curvature of Hampton Avenue. The traffic signal at Hampton Avenue and Nottingham Avenue is modified to eliminate protected turn arrows (phases) for eastbound and westbound traffic. Instead, these vehicles proceed during a common green phase, yielding to oncoming traffic as necessary. The changes to this intersection simplify the traffic signal's operation, lessening the impact of fewer lanes on Hampton Avenue.

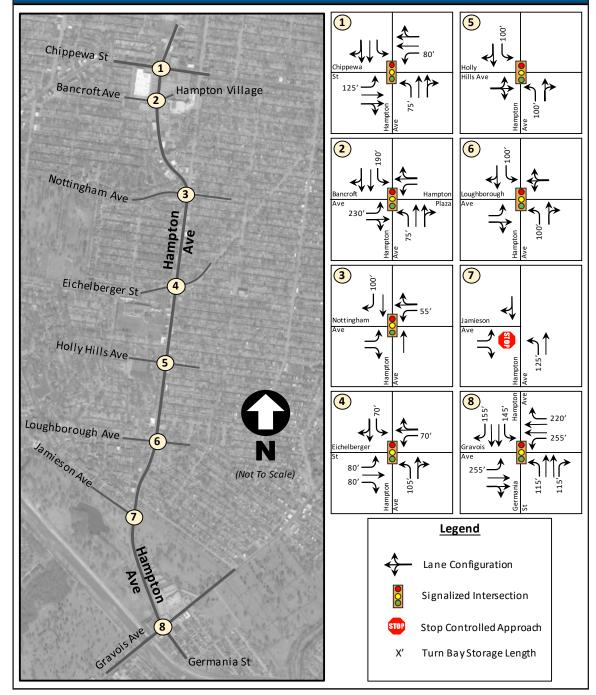
All signalized intersections include physically raised curb bump outs to reduce intersection sizing and shorten pedestrian crossing distances. The shorter crossing distances reduce the pedestrian crossing time, which allows shorter signal cycle lengths. With the bumpouts, ADA-compliant curb ramps and pedestrian signal push buttons are included. The existing curb line is maintained along Hampton Avenue between major intersections.

Intersection improvements to increase safety are merited at the Hampton Avenue and Jamieson Avenue independent of the "road diet" alternative. This intersection is excessively large and lacks any pedestrian crosswalks, despite adjoining residential and recreational (Willmore Park) uses. This intersection was the scene of 2 serious crashes (1 fatal and 1 with disabling injury) during the recent 2-year period. Recognizing funding limitations, the "road diet" alternative reduces the size of this intersection with painted pavement and a physical bollard or planter. The eastbound approach is reduced to 2 lanes (1 left-turn and 1 right-turn). Just a single lane departs the intersection in the westbound direction. Pedestrian crosswalks are provided across the west and north legs. Given the volume of traffic on Hampton Avenue and the absence of a traffic signal, a pedestrian refuge is added in the median of and rectangular rapid flashing beacons are provided to improve safety.

The full conceptual design of the "road diet" concept is illustrated in **Appendix F**. The cost to implement the full "road diet" concept assuming fully constructed bumpouts at intersections is \$916,301. A low-cost striping only concept, which avoids upgrades to traffic signals and relies on pavement marking and planters/bollards to delineate bumpouts is \$193,680. All cost estimates are summarized in **Appendix G**.



Figure 20. Proposed Lane Configuration with Road Diet





Operational Feasibility

The traffic operational feasibility of implementing the "road diet" concept was considered by applying the same methodology used for existing conditions. Existing traffic volumes were evaluated. No traffic diversions were assumed, despite multiple north-south parallel routes. However, research shows previous "road diet" implementations diverted 2 percent to 15 percent of their prior traffic volume.

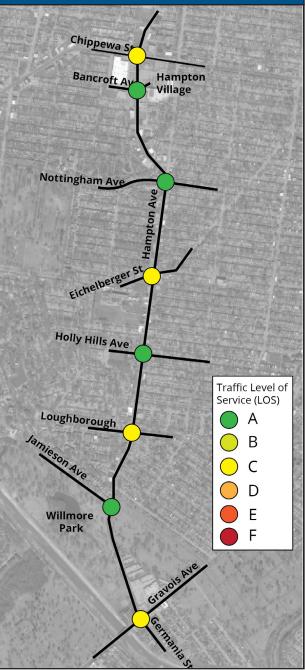
Volumes

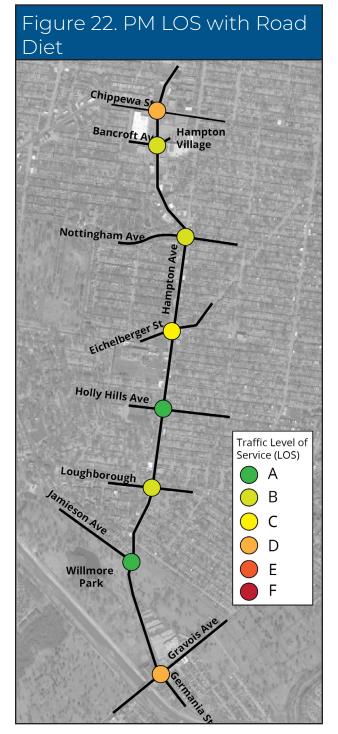
Industry guidance suggests that a street is a candidate for a 4-lane to 3-lane "road diet" conversion if the average daily traffic volume does not exceed 20,000 vehicles per day. The daily traffic volume along Hampton Avenue was 16,332 which is well below that threshold.

The heaviest direction on Hampton Avenue is southbound during the evening peak hour when 1,020 through vehicles approach Nottingham Avenue – the first "road diet" signal. This is higher than volumes traveling through the similar South Grand Boulevard "road diet" (which is 842 from a recent count). From that neighborhood's perspective, the Grand Boulevard road diet is a success. Some traffic diversions from Hampton Avenue may be necessary for the "road diet" to function as well as Grand. If diversions reach 17 percent, peak volumes along the two corridors would be effectively equal.



Figure 21. AM LOS with Road Diet







Operational Feasibility

Intersection Level of Service (LOS)

In general, the "road diet" concept would not impact the intersection LOS in the corridor. The most tangible traffic impact would be longer queues on Hampton Avenue at the intersections with Nottingham Avenue and with Eichelberger Street, particularly in the southbound direction during the evening peak hour. The 95th percentile queue approaching both intersections would exceed 800 feet, which is several orders of magnitude greater than existing queues. That said, for most signal cycles, all vehicles in queue would clear the intersection on a single green. Intersection LOS for the morning and evening peak hours with the "road diet" concept are illustrated in Figure 21 and Figure 22.



Operational Feasibility

Intersection Level of Service (LOS)

Traffic impacts to other intersections in the corridor would be mostly negligible. The intersection of Hampton Avenue and Loughborough Avenue would experience less delay and the minor street approaches would actually improve from LOS E/F to LOS D, as a result of a shorter traffic signal cycle. A summary of the impacts on each intersection is below:

Chippewa St.	No anticipated impact
Bancroft Ave.	No anticipated impact
Nottingham Ave.	LOS unchanged, lengthy southbound queuing during PM peak hour
Eichelberger St.	Similar LOS, lengthy northbound and southbound queuing during AM and PM peak hours
Holly Hills Ave.	No anticipated impact
Loughborough Ave.	LOS improved, particularly for minor approaches
Jamieson Ave.	Increase in eastbound right-turn delay by 20 seconds during PM peak hour
Gravois Ave.	No anticipated impact

Figure 17. Road Diet Location





Anticipated Benefits



A decrease in speeds along Hampton Avenue is expected due to the inability of higher speed motorists to make lane changes. Case studies reveal an average speed reduction of approximately 5 mph.



"Road diet" installations typically reduce crashes due to the elimination of passing maneuvers and the introduction of a continuous lane for left-turns. Published guidance by the Federal Highway Administration suggests that a crash reduction of 29 percent is most applicable for the "road diet" alternative in the Hampton Avenue corridor.



Pedestrian Crossings

Shorter pedestrian crossings resulting from curb bump outs reduce the likelihood of pedestrian-related crashes and promote a more welcoming environment for pedestrians. The "road diet" alternative reduces the distance to cross Hampton Avenue by approximately 15 feet. More significant pedestrian improvements are included at the Jamieson Avenue intersection



The "road diet" alternative extends the southbound onstreet bike lane along Willmore Park closing an existing gap between Gravois Avenue and Jamieson Avenue. The additional pavement width allows for the existing on-street lanes to be segregated from moving vehicles by a 5-feet buffer zone.



For much of the study corridor, the "road diet" alternative does not impact the supply of on-street parking where it is in highest demand. The "road diet" increases the width of the parking lane from a narrow 7 feet to a safer and more comfortable 10 feet. The "road diet" alternative eliminates about 80 unused parking spaces along Willmore Park to expand an on-street bike lane.



Transit

Transit operations should not be affected by the "road diet" alternative as it does not modify bus stops. Improved safety is expected due to the increased width of the parking lane. This provides additional space for buses to pull out of the traffic lane to stop and allow passengers to board or disembark.

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Anticipated Draw-Backs



Traffic Diversion

Traffic may be diverted to parallel north south streets, particularly Jamieson Ave, Macklind Ave, and Kingshighway. According to published research, traffic diversion to parallel routes from road diet implementation ranges from 2% to 15%.



Motorists may experience longer delays and greater difficulty turning onto Hampton Avenue at unsignalized locations. There will likely be longer queues on Hampton Avenue, particularly at the intersections of Nottingham Avenue and with Eichelberger Street. The queues approaching both intersections would likely exceed 800 feet - much greater than existing gueues. However, for most signal cycles, all vehicles in queue would clear the intersection on a single green.

Perceived Congestion

Motorists traveling on Hampton Avenue may perceive increased congestion due to the inability to pass slower moving traffic and the resulting uniformity of traffic flow. These conditions should be limited to the weekday peak commuter periods. At other non-peak times of the day, the "road diet" alternative should not adversely impact traffic operations. The "road diet" alternative is expected to provide benefits at all times of day.

CONCLUSION

The purpose of this study was to determine the feasibility of reducing traffic lanes along Hampton Avenue between Chippewa Street and Gravois Avenue. The goal of this objective evaluation is to provide information to help decision makers. A recommendation is not offered for or against the "road diet" concept.

The "road diet" concept includes 3 traffic lanes –1 through lane in each direction plus a center two-way left-turn lane. Lane modifications occur between Lansdowne Avenue and the entrance to Willmore Park. The traffic operational feasibility of implementing the "road diet" concept is summarized as follows:

- The Hampton Avenue corridor is a good candidate for a road diet. Industry guidance suggests road diets are appropriate for streets with volumes below 20,000 vehicles per day Hampton Avenue's is 16,332 vehicles per day.
- The "road diet" would not impact overall intersection levels of service. The most tangible traffic impact is likely to be longer queues during the peak periods on Hampton Avenue at the intersections with Nottingham Avenue and with Eichelberger Street.
- The "road diet" would promote a more welcoming environment for all modes by reducing traffic speeds, improving safety, shortening pedestrian crosswalks, enlarging spaces for on-street parking and transit stops, and improving onstreet bicycle lanes.

The cost estimate for the low-cost striping only concept for the "road diet" is \$193,680. The cost estimate of the full "road diet" concept is \$916,301. Both cost estimates are detailed in **Appendix G.**

APPENDIX

Appendix A: Existing Count Data

Appendix B: Speed Data

Appendix C: Parking Data

Appendix D: Traffic Operational Analysis Methodology

Appendix E: Traffic Operating Conditions

Appendix F: Conceptual Design

Appendix G: Conceptual Cost Estimate



Appendix A: Existing Count Data

Engineering Design Source Inc. 16141 Swingley Ridge Road

Count Name: Hampton and Chippewa Site Code: 01 Start Date: 03/07/2019 Page No: 1

Chesterfield, Missouri, United States 12345 636.537.5585 go@engdesignsource.com

Turning Movement Data

	Southbound Approach Westbound Approach Northbound Approach Northbound Approach																								
			Southboun	d Approach	ı				Westbour	nd Approach					Northboun	d Approach					Eastboun	d Approach			
			South	nbound					Wes	tbound					North	bound					East	bound			
Start Time	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Int. Total
7:00 AM	15	67	18	0	0	100	41	105	13	0	0	159	5	202	22	0	0	229	6	71	29	0	0	106	594
7:15 AM	28	88	20	0	1	136	41	85	11	0	2	137	7	287	15	0	2	309	8	96	48	0	1	152	734
7:30 AM	34	105	26	0	4	165	41	109	24	0	1	174	5	257	28	0	0	290	8	137	54	0	1	199	828
7:45 AM	35	96	26	0	1	157	46	109	14	0	3	169	13	230	31	0	1	274	11	109	39	0	2	159	759
Hourly Total	112	356	90	0	6	558	169	408	62	0	6	639	30	976	96	0	3	1102	33	413	170	0	4	616	2915
8:00 AM	20	80	28	0	3	128	42	105	8	0	1	155	9	168	22	0	0	199	16	92	21	0	1	129	611
8:15 AM	32	73	38	0	0	143	32	89	13	0	2	134	3	189	28	0	1	220	7	87	43	0	0	137	634
8:30 AM	29	68	27	0	1	124	36	89	17	0	3	142	8	156	33	0	1	197	11	104	35	0	1	150	613
8:45 AM	28	102	37	0	1	167	31	82	20	0	0	133	9	150	27	0	0	186	12	97	34	0	1	143	629
Hourly Total	109	323	130	0	5	562	141	365	58	0	6	564	29	663	110	0	2	802	46	380	133	0	3	559	2487
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
4:00 PM	52	249	79	0	3	380	27	153	24	0	1	204	20	105	23	0	2	148	21	134	39	0	5	194	926
4:15 PM	60	292	67	0	3	419	22	120	38	0	5	180	21	124	29	0	0	174	26	131	39	0	3	196	969
4:30 PM	52	244	60	0	7	356	19	154	45	0	3	218	25	128	36	0	1	189	29	165	33	0	1	227	990
4:45 PM	46	277	68	0	2	391	20	133	38	0	4	191	30	140	33	0	2	203	19	150	34	0	4	203	988
Hourly Total	210	1062	274	0	15	1546	88	560	145	0	13	793	96	497	121	0	5	714	95	580	145	0	13	820	3873
5:00 PM	44	263	69	0	4	376	18	176	35	0	3	229	18	143	32	1	1	194	22	159	50	0	2	231	1030
5:15 PM	51	259	90	0	1	400	30	134	37	0	4	201	25	157	35	0	1	217	20	149	42	0	1	211	1029
5:30 PM	53	257	71	0	3	381	30	124	43	0	2	197	21	141	33	0	0	195	23	130	42	0	0	195	968
5:45 PM	40	208	83	0	1	331	50	127	38	0	0	215	20	147	36	0	0	203	28	131	43	0	0	202	951
Hourly Total	188	987	313	0	9	1488	128	561	153	0	9	842	84	588	136	1	2	809	93	569	177	0	3	839	3978
6:00 PM	0	4	0	0	0	4	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	5
Grand Total	619	2732	807	0	35	4158	526	1894	418	0	34	2838	239	2725	463	1	12	3428	267	1943	625	0	23	2835	13259
Approach %	14.9	65.7	19.4	0.0	-	-	18.5	66.7	14.7	0.0	-	-	7.0	79.5	13.5	0.0	-	-	9.4	68.5	22.0	0.0	-	-	-
Total %	4.7	20.6	6.1	0.0	-	31.4	4.0	14.3	3.2	0.0	-	21.4	1.8	20.6	3.5	0.0	-	25.9	2.0	14.7	4.7	0.0	-	21.4	-
Motorcycles	1	1	0	0	-	2	0	0	0	0	-	0	0	2	0	0	-	2	1	0	1	0	-	2	6
% Motorcycles	0.2	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.1	0.0	0.0	-	0.1	0.4	0.0	0.2	-	-	0.1	0.0
Cars & Light Goods	608	2686	785	0	-	4079	512	1852	417	0	-	2781	238	2684	455	1	-	3378	262	1887	613	0	-	2762	13000
% Cars & Light Goods	98.2	98.3	97.3	-	-	98.1	97.3	97.8	99.8	-	-	98.0	99.6	98.5	98.3	100.0	-	98.5	98.1	97.1	98.1	-	-	97.4	98.0
Buses	3	22	14	0	-	39	11	28	1	0	-	40	0	24	5	0	-	29	0	29	3	0	-	32	140
% Buses	0.5	0.8	1.7	-	-	0.9	2.1	1.5	0.2	-	-	1.4	0.0	0.9	1.1	0.0	-	0.8	0.0	1.5	0.5	-	-	1.1	1.1
Single-Unit Trucks	6	17	6	0	-	29	3	8	0	0	-	11	0	11	3	0	-	14	2	22	5	0	-	29	83
% Single-Unit Trucks	1.0	0.6	0.7	-	-	0.7	0.6	0.4	0.0	-	-	0.4	0.0	0.4	0.6	0.0	-	0.4	0.7	1.1	0.8	-	-	1.0	0.6
Articulated Trucks	1	6	1	0	-	8	0	6	0	0	-	6	1	4	0	0	-	5	2	5	3	0	-	10	29
% Articulated Trucks	0.2	0.2	0.1	-	-	0.2	0.0	0.3	0.0	-	-	0.2	0.4	0.1	0.0	0.0	-	0.1	0.7	0.3	0.5	-	-	0.4	0.2
Bicycles on Road	0	0	1	0	-	1	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	1

% Bicycles on Road	0.0	0.0	0.1	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0
Bicycles on Crosswalk	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	1	-	-	-	-	-	1	-	-
% Bicycles on Crosswalk	-	-	-	-	0.0	-	-	-	-	-	0.0	-	-	-	-	-	8.3	-	-	-	-	-	4.3	-	-
Pedestrians	-	-	-	-	35	-	-	-	-	-	34	-	-	-	-	-	11	_	-	-	-	-	22	-	-
% Pedestrians	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	91.7	-	-	-	-	-	95.7	-	-

Engineering Design Source Inc. 16141 Swingley Ridge Road

Count Name: Hampton and Nottingham Site Code: 02 Start Date: 03/19/2019 Page No: 1

Chesterfield, Missouri, United States 12345 636.537.5585 go@engdesignsource.com

Turning Movement Data

Sat Time Solumeer lease in the probability of the p		Southbound Approach Westbound Approach														Northbound Approach Eastbound Approach											
Pert Pert Pert Pert Pert Pert Pert Pert			:			1									ſ												
Image Image <th< td=""><td>Start Time</td><td></td><td></td><td>South</td><td>nbound</td><td></td><td>A</td><td></td><td></td><td>Wes</td><td>tbound</td><td></td><td>A</td><td></td><td></td><td>North</td><td>nbound</td><td></td><td>A = =</td><td></td><td></td><td>East</td><td>bound</td><td></td><td>A</td><td></td></th<>	Start Time			South	nbound		A			Wes	tbound		A			North	nbound		A = =			East	bound		A		
15 68 0 0 68 14 9 1 0 1 24 0 <td></td> <td>Right</td> <td>Thru</td> <td>Left</td> <td>U-Turn</td> <td>Peds</td> <td>App. Total</td> <td>Int. Total</td>		Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Int. Total	
18. 49. 0 0 0 1 25. 0 1 27. 0 1 27. 0 0 1 27. 0 0 1 27. 0 0 1 27. 0 0 1 1 0 1 27. 0 0 1 27. 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0	7:00 AM	2	37	0	0	0	39	13	4	3	0	2	20	0	146	0	0	1	146	4	0	14	0	1	18	223	
18 64 0 1 72 14 1 3 0 1 28 07 1 0 1 28 0 2 28 00 19ury 10rd 2 8 8 8 0 4 97 0 0 177 0 184 0 44 0 0 152 14 0 15 0 15 0 15 0 15 0 15 14 0 10 1 27 28 0 0 15 10 0 15 10 0 1 27 2 0 1 70 0 <td>7:15 AM</td> <td>5</td> <td>58</td> <td>0</td> <td>0</td> <td>0</td> <td>63</td> <td>14</td> <td>9</td> <td>1</td> <td>0</td> <td>0</td> <td>24</td> <td>0</td> <td>209</td> <td>0</td> <td>0</td> <td>0</td> <td>209</td> <td>2</td> <td>0</td> <td>26</td> <td>0</td> <td>0</td> <td>28</td> <td>324</td>	7:15 AM	5	58	0	0	0	63	14	9	1	0	0	24	0	209	0	0	0	209	2	0	26	0	0	28	324	
Heary Trait 22 90 0 1 280 0 1 728 0 0 786 0 0 1 728 14 0 0 1 280 0 0 1 728 1 0 0 1 201 0 1 728 1 7 0 1 281 2 0 1 1 7 0 1 1 7 0 1 1 7 0 1 1 1 2 0 1 1 0 1 1 0 1 1 0 0 1 1 0 1 <	7:30 AM	8	48	0	0	0	56	10	14	1	0	1	25	0	196	0	0	0	196	7	0	22	0	0	29	306	
80 AM 2 78 0 0 18 0 192 0 192 0 0 192 0 0 192 0 0 192 0 0 192 0 0 192 0 0 192 0 0 192 0 0 192 0 0 192 0 0 192 0 0 195 0 0 1 195 1 0 1 0 0 0 1 195 0 0 1 195 0 0 1 195 0 0 0 0 0 0 0 0 0 1 195 0 0 0 0 0 0 1 195 0 1 195 0 <	7:45 AM	8	64	0	0	1	72	14	11	3	0	1	28	0	177	0	0	0	177	1	0	22	0	2	23	300	
At AM 2 08 0 1 70 10 5 2 0 1 70 10 160 0 0 156 7 0 20 0 1 72 299 8x0 M 6 70 0 0 75 9 8 0 1 10 152 12 0 152 5 0 11 0 164 231 Houry Toat 16 2 00 0 0 0 152 10 0 152 10 0 <td>Hourly Total</td> <td></td> <td>207</td> <td>0</td> <td>0</td> <td>1</td> <td>230</td> <td>51</td> <td>38</td> <td>8</td> <td>0</td> <td>4</td> <td>97</td> <td>0</td> <td>728</td> <td>0</td> <td>0</td> <td>1</td> <td>728</td> <td>14</td> <td>0</td> <td>84</td> <td>0</td> <td>3</td> <td>98</td> <td>1153</td>	Hourly Total		207	0	0	1	230	51	38	8	0	4	97	0	728	0	0	1	728	14	0	84	0	3	98	1153	
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84 AM 6 70 0 76 9 8 0 1 70 1 0 1<	8:15 AM	2	68	0	0	1	70	10	5	2	0	0	17	0	185	0	0	0	185	7	0	20	0	1	27	299	
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Bit Do Alt D <thd< td=""><td>8:45 AM</td><td>6</td><td>70</td><td>0</td><td>0</td><td>0</td><td>76</td><td>9</td><td>8</td><td>0</td><td>0</td><td>1</td><td>17</td><td>0</td><td>152</td><td>0</td><td>0</td><td>0</td><td>152</td><td>5</td><td>0</td><td>11</td><td>0</td><td>1</td><td>16</td><td>261</td></thd<>	8:45 AM	6	70	0	0	0	76	9	8	0	0	1	17	0	152	0	0	0	152	5	0	11	0	1	16	261	
Image A() · <t< td=""><td>Hourly Total</td><td>14</td><td>291</td><td>0</td><td>0</td><td>1</td><td>305</td><td>48</td><td>30</td><td>5</td><td>0</td><td>2</td><td>83</td><td>0</td><td>649</td><td>0</td><td>0</td><td>1</td><td>649</td><td>29</td><td>0</td><td>68</td><td>0</td><td>3</td><td>97</td><td>1134</td></t<>	Hourly Total	14	291	0	0	1	305	48	30	5	0	2	83	0	649	0	0	1	649	29	0	68	0	3	97	1134	
Houry Tail 0 10 0 10 0 10 0 10 0 0 10 0 10 0 10 0 10 0 10 0 10 10 10 10 0	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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4:15 PM 8 2.26 0 0 2.44 5 9 6 0 1 200 1 140 13 0 12 0 2 2.5 429 4:35 PM 4 204 0 0 2 286 9 18 3 0 130 0 152 0 18 0 2.3 344 4:45 PM 16 2.0 0 4.26 15 6 6 98 0 132 0 1 12 15 0 18 0 2.1 0 4.48 4.43 0 13 2 0 2.2 10 0 11 10 10 10 10 10 10 11 0 11 0 11 0 11 0 11 0 11 0 11 0 11 0 11 0 11 0 11 0 11 0 11 0 11 0 11 0 11 0 11 0 0	Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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Houry Total 35 983 0 0 8 1018 35 50 13 0 6 98 0 552 0 0 7 552 57 0 69 0 7 126 1794 5:05 PM 12 278 0 0 2 226 0 130 0 0 130 17 0 20 0 37 482 5:15 PM 9 258 0 0 1 226 0 1 140 0 0 1 120 15 0 286 0 0 1 432 5:30 PM 9 258 0 0 1 16 0 127 0 4 102 170 0 4 177 0 30 0 0 30 0 30 0 30 440 Houry Total 44 965 0 1 2 <t< td=""><td>4:30 PM</td><td>4</td><td>264</td><td>0</td><td>0</td><td>2</td><td>268</td><td>9</td><td>18</td><td>3</td><td>0</td><td>1</td><td>30</td><td>0</td><td>152</td><td>0</td><td>0</td><td>1</td><td>152</td><td>15</td><td>0</td><td>18</td><td>0</td><td>0</td><td>33</td><td>483</td></t<>	4:30 PM	4	264	0	0	2	268	9	18	3	0	1	30	0	152	0	0	1	152	15	0	18	0	0	33	483	
5:00 PM 12 278 0 2 280 10 13 2 0 2 25 0 130 0 0 130 17 0 20 0 37 482 5:30 PM 9 2268 0 0 1 20 0 1 120 0 0 1 120 15 0 26 0 0 44 5:30 PM 7 203 0 1 6 211 5 10 5 0 1 20 0 146 0 0 1 146 9 0 30 0 0 30 441 6:00 PM 0	4:45 PM	16	252	0	0	4	268	15	16	3	0	3	34	0	138	0	0	3	138	19	0	21	0	5	40	480	
5:15 PM 16 226 0 1 242 4 21 4 0 0 29 0 120 0 1 120 15 0 26 0 0 41 432 5:30 PM 9 258 0 0 3 267 10 5 1 0 1 16 0 127 0 0 4 127 13 0 17 0 0 30 440 5:45 PM 7 203 0 1 12 100 29 49 12 0 4 90 0 523 0 0 6 523 54 0 93 0 0 1770 0	Hourly Total	35	983	0	0	8	1018	35	50	13	0	6	98	0	552	0	0	7	552	57	0	69	0	7	126	1794	
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Houry Total 44 965 0 1 12 1010 29 49 12 0 4 90 0 523 0 6 523 54 0 93 0 0 1770 6:00 PM 0	5:30 PM	9	258	0	0	3	267	10	5	1	0	1	16	0	127	0	0	4	127	13	0	17	0	0	30	440	
6:00 PM 0 </td <td>5:45 PM</td> <td>7</td> <td>203</td> <td>0</td> <td>1</td> <td>6</td> <td>211</td> <td>5</td> <td>10</td> <td>5</td> <td>0</td> <td>1</td> <td>20</td> <td>0</td> <td>146</td> <td>0</td> <td>0</td> <td>1</td> <td>146</td> <td>9</td> <td>0</td> <td>30</td> <td>0</td> <td>0</td> <td>39</td> <td>416</td>	5:45 PM	7	203	0	1	6	211	5	10	5	0	1	20	0	146	0	0	1	146	9	0	30	0	0	39	416	
Grand Total 116 2446 0 1 22 2563 163 167 38 0 16 368 0 2452 0 0 15 2452 154 0 314 0 13 468 5851 Approach% 4.5 95.4 0.0 0.0 - - 0.0 100.0 0.0 - - 32.9 0.0 67.1 0.0 - - - - - - 0.0 11 0 0.0 - - - - 0.0 0.0 - - 32.9 0.0 67.1 0.0 - - - 0.0 0.0 - - 0.0 0.0 - 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Hourly Total	44	965	0	1	12	1010	29	49	12	0	4	90	0	523	0	0	6	523	54	0	93	0	0	147	1770	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total % 2.0 41.8 0.0 0.0 - 43.8 2.8 2.9 0.6 0.0 - 6.3 0.0 41.9 0.0 0.0 - 41.9 2.6 0.0 5.4 0.0 - 8.0 - Motorcycles 0 3 0 0 - 0 0 1 0 0 - 1 1 0 0 - 1 5 Motorcycles 0.0 0.1 - 0.0 0.0 0.0 - 0.0 - 1 1 0 0 - 0.2 0.1 5 Motorcycles 0.0 0.1 - 2509 163 166 37 0 - 366 0 2407 0 0 312 0 - 462 5744 Cars & Light Goods 98.3 97.9 - 100.0 99.4 97.4 - 99.5 - 98.2 -<	Grand Total	116	2446	0	1	22	2563	163	167	38	0	16	368	0	2452	0	0	15	2452	154	0	314	0	13	468	5851	
Motorcycles 0 3 0 0 0 0 1 0 0 - 1 1 0 0 0 - 1 5 % Motorcycles 0.0 0.1 - 0.0 - 0.0 - - 0.0 - - 0.0 0.6 - 0.0 - 0.0 - 0.0 0.6 - 0.0 - 0.2 0.1 Cars & Light Goods 114 2394 0 1 - 2509 163 166 37 0 - 366 0 2407 0 0 - 2407 150 0 312 0 - 462 5744 % Cars & Light Goods 17 16 0 0 - 17 98.2 - - 98.2 97.4 - 98.7 98.2 97.4 - 98.7 98.2 Buses 1 16 0 -	Approach %	4.5	95.4	0.0	0.0	-	-	44.3	45.4	10.3	0.0	-	-	0.0	100.0	0.0	0.0	-	-	32.9	0.0	67.1	0.0	-	-	-	
% Motorcycles 0.0 0.1 - 0.0 0.0 0.0 - 0.0 - - 0.0 0.6 - 0.0 - 0.2 0.1 Cars & Light Goods 114 2394 0 1 - 2509 163 166 37 0 - 366 0 2407 0 0 - 2407 150 0 312 0 - 462 5744 % Cars & Light Goods 98.3 97.9 100.0 97.9 100.0 99.4 97.4 - 99.5 - 98.2 - - 98.2 97.4 - 98.7 98.2 Buses 1 16 0 0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.2 0.1 0.2 0.1 Buses 1.9 0.7 - 0.	Total %	2.0	41.8	0.0	0.0	-	43.8	2.8	2.9	0.6	0.0	-	6.3	0.0	41.9	0.0	0.0	-	41.9	2.6	0.0	5.4	0.0	-	8.0	-	
Cars & Light Goods 114 2394 0 1 - 2509 163 166 37 0 - 366 0 2407 0 0 - 2407 150 0 312 0 - 462 5744 % Cars & Light Goods 98.3 97.9 - 100.0 99.4 97.4 - 99.5 - 98.2 - - 98.2 97.4 - 99.4 - 462 5744 % Cars & Light Goods 11 16 0 0 - 17 0 0 0 - 0 0 233 0 - 28.2 - - 98.2 97.4 - 99.4 - 462 5744 Buses 1 16 0 0 - 0 0 - 0 0 233 0 0 1 0 - 99.5 - 98.2 - 233 3 0 1 0 - 44 % Buses 0.9 0.7 2 0<	Motorcycles	0	3	0	0	-	3	0	0	0	0	-	0	0	1	0	0	-	1	1	0	0	0	-	1	5	
% Cars & Light Goods 98.3 97.9 - 100.0 - 97.4 97.4 - 99.5 - 98.2 - - 98.2 97.4 - 99.4 - - 98.7 98.2 - - 98.2 - - 98.2 97.4 - 99.4 - - 98.7 98.2 Buses 1 16 0 0 - 17 0 0 0 0 23 0 0 - 23 3 0 1 0 - 4 44 % Buses 0.9 0.7 - 0.0 - 0.0 - 0.0 - 0.9 - 0.9 1.9 - 0.3 - - 0.9 0.8 Single-Unit Trucks 1 28 0 0 - 11 0 2.6 - 0.7 0.7 0.0 1 0 - 1 49 % Single-Unit Trucks 0.9 1.1 0.0 0.6 2.6 - 0.7 0	% Motorcycles	0.0	0.1	-	0.0	-	0.1	0.0	0.0	0.0	-	-	0.0	-	0.0	-	-	-	0.0	0.6	-	0.0	-	-	0.2	0.1	
Goods 96.3 97.9 - 100.0 - 97.4 - 96.2 - - 96.2 97.4 - 99.4 - - 98.2 97.4 - 99.4 - - 98.2 97.4 - 99.4 - 4 44 % Buses 0.9 0.7 - 0.0 0.9 1.1 0.0 0.0 0.0 - 0.0 - 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 <	Cars & Light Goods	114	2394	0	1	-	2509	163	166	37	0	-	366	0	2407	0	0	-	2407	150	0	312	0	-	462	5744	
% Buses 0.9 0.7 - 0.0 - 0.0 0.0 - 0.0 1 0 - 0.0 - 0.0 1 0 - 0.0 - 0.0 1 0.0 0.0 1 1 0 - 2 0 17 0 0 1 0 - 1 49 'Single-Unit 0.9 1.1 - 0.0 0.6 2.6 - 0.5 - 0.7 - - 0.7 0.0 - 0.3 - - 0.2 0.8 0.8 0.8		98.3	97.9	-	100.0	-	97.9	100.0	99.4	97.4	-	-	99.5	-	98.2	-	-	-	98.2	97.4	-	99.4	-	-	98.7	98.2	
Single-Unit Trucks 1 28 0 0 - 29 0 1 1 0 - 2 0 17 0 0 - 1 0 - 1 49 % Single-Unit Trucks 0.9 1.1 - 0.0 - 1.1 0.0 0.6 2.6 - 0.5 - 0.7 - - 0.7 0.0 - 0.3 - 0.2 0.8 Articulated Trucks 0 4 0 0 - 4 0 0 - 4 0 0 - 0.8 0.8 Articulated Trucks 0 4 0 0 - 0.0 0 - 0.0 0	Buses	1	16	0	0	-	17	0	0	0	0	-	0	0	23	0	0	-	23	3	0	1	0	-	4	44	
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Trücks 0.9 1.1 2 0.0 - 1.1 0.0 0.8 2.0 - 0.0 - 0.7 0.0 - 0.0 - 0.2 0.2 0.2 0.2 0.2 0.2 0.0	Single-Unit Trucks	1	28	0	0	-	29	0	1	1	0	-	2	0	17	0	0	-	17	0	0	1	0	-	1	49	
% Articulated Trucks 0.0 0.2 - 0.0 - 0.0 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 0.1		0.9	1.1	-	0.0	-	1.1	0.0	0.6	2.6	-	-	0.5	-	0.7	-	-	-	0.7	0.0	-	0.3	-	-	0.2	0.8	
Trucks 0.0 0.2 - 0.0 - 0.2 0.0 0.0 - 0.0 - 0.0 - 0.0 - 0.2 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 0.0	Articulated Trucks	0	4	0	0	-	4	0	0	0	0	-	0	0	4	0	0	-	4	0	0	0	0	-	0	8	
Bicycles on Road 0 1 0 0 - 1 0 0 0 0 - 0 0 0 0 0 0 0 0 0		0.0	0.2	-	0.0	-	0.2	0.0	0.0	0.0	-	-	0.0	-	0.2	-	-	-	0.2	0.0	-	0.0	-	-	0.0	0.1	
	Bicycles on Road	0	1	0	0	-	1	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	1	

01 D: 1																									
% Bicycles on Road	0.0	0.0	-	0.0	-	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0	-	-	-	0.0	0.0	-	0.0	-	-	0.0	0.0
Bicycles on Crosswalk	-	-	-	-	3	-	-	-	-	-	2	-	-	-	-	-	0	-	-	-	-	-	0	-	-
% Bicycles on Crosswalk	-	-	-	-	13.6	-	-	-	-	-	12.5	-	-	-	-	-	0.0	-	-	-	-	-	0.0	-	-
Pedestrians	-	-	-	-	19	_	-	-	-	-	14	-	-	-	-	-	15	-	-	-	-	-	13	-	-
% Pedestrians	-	-	-	-	86.4	-	-	-	-	-	87.5	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-

Engineering Design Source Inc. 16141 Swingley Ridge Road

Count Name: Hampton and Eichelberger Site Code: 03 Start Date: 03/05/2019 Page No: 1

Chesterfield, Missouri, United States 12345 636.537.5585 go@engdesignsource.com

Turning Movement Data

Start Term Start T		Southbound Approach Westbound Approach																									
Set 7 Set 7 Let Um Let Um Let Um Set 7				Southboun	d Approach	n				Westbour	d Approach				I	Northboun	d Approach					Eastbound	d Approach				
Party Party <th< td=""><td></td><td></td><td></td><td>South</td><td>bound</td><td></td><td></td><td></td><td></td><td>Wes</td><td>tbound</td><td></td><td></td><td></td><td></td><td>North</td><td>bound</td><td></td><td></td><td></td><td></td><td>East</td><td>bound</td><td></td><td></td><td></td></th<>				South	bound					Wes	tbound					North	bound					East	bound				
115 11 0 0 33 17 48 27 0 0 22 16 177 0 2 28 64 11 0 0 99 34 0 0 24 00 0 24 00 0 24 0 0 24 0 0 16 170 16 170 16 170 16 170 16 170 16 170 16 170 16 170 16 170 170 16 170<	Start Time	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Int. Total	
7x40AM 23 65 11 0 0 77 16 177 16 177 17 16 177 18 17 18 17 18 17 18 17 18 10 0 0 0 1 24 15 0 0 1 24 15 0 0 1 24 16 17 18 0 0 16 17 18 0 0 16 17 18 0 0 16 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 18 18 18 <	7:00 AM	9	45	9	0	1	63	15	41	29	0	2	85	22	126	43	0	0	191	6	19	11	0	0	36	375	
best best <th< td=""><td>7:15 AM</td><td>18</td><td>64</td><td>11</td><td>0</td><td>0</td><td>93</td><td>17</td><td>48</td><td>27</td><td>0</td><td>0</td><td>92</td><td>22</td><td>185</td><td>57</td><td>0</td><td>2</td><td>264</td><td>14</td><td>17</td><td>24</td><td>0</td><td>2</td><td>55</td><td>504</td></th<>	7:15 AM	18	64	11	0	0	93	17	48	27	0	0	92	22	185	57	0	2	264	14	17	24	0	2	55	504	
International bias 1 3.44 6 1 3.44 101 0 3 3.46 105 0 2 9.19 500 9.6 9.0 0 2 2.36 135 800 4 5.6 0 0 6.7 3.8 7 0 0 6.6 10 133 2.2 0 0 164 7 3.8 9.0 0.6 1 2.4 3.9 3.9 3.6 0 0 1.5 2.7 1.5 0 0 2.4 3.9	7:30 AM	23	65	11	0	0	99	13	55	24	0	0	92	16	179	51	0	0	246	21	39	40	0	0	100	537	
Box AM 4 58 7 0 0 68 1 45 0 1 24 315 815 AM 4 00 6 0 71 8 2 0 0 164 2 7 15 0 0 24 36 843 AM 4 00 0 71 15 32 13 0 0 0 133 20 0 0 162 5 6 5 0 1 16 398 843 AM 6 58 0 0 2 213 36 50 0	7:45 AM	6	60	13	0	0	79	16	40	21	0	1	77	16	170	32	0	0	218	9	21	15	0	0	45	419	
Bis Auk 3 65 6 0 73 6 21 16 0 143 2 0 0 16 22 15 36 0 0 133 20 0 0 165 2 6 6 6 0 1 23 20 0 0 169 7 15 0 0 23 200 0 0 160 1 25 8 520 66 0 0 0 0 1 23 200 0	Hourly Total	56	234	44	0	1	334	61	184	101	0	3	346	76	660	183	0	2	919	50	96	90	0	2	236	1835	
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6:0 PM 0 <td>5:45 PM</td> <td>13</td> <td>176</td> <td>30</td> <td>0</td> <td>0</td> <td>219</td> <td>10</td> <td>33</td> <td>16</td> <td>0</td> <td>0</td> <td>59</td> <td>29</td> <td>120</td> <td>21</td> <td>0</td> <td>0</td> <td>170</td> <td>14</td> <td>44</td> <td>5</td> <td>0</td> <td>0</td> <td>63</td> <td>511</td>	5:45 PM	13	176	30	0	0	219	10	33	16	0	0	59	29	120	21	0	0	170	14	44	5	0	0	63	511	
Grand Total 153 2001 311 0 2 2465 189 500 361 0 9 1050 262 2033 411 0 5 2726 234 510 207 0 8 951 7192 Approach % 6.2 81.2 12.6 0.0 - - 18.0 47.6 34.4 0.0 - - 9.6 75.3 15.1 0.0 - 24.6 53.6 21.8 0.0 - - - 1.0 Motorycles 0 1 0 0 34.3 2.6 7.0 5.0 0.0 - 14.6 3.6 28.5 5.7 0.0 - 3.3 7.1 2.9 0.0 0.0 2.0	Hourly Total	43	738	112	0	1	893	39	106	102	0	2	247	80	444	80	0	0	604	88	188	47	0	1	323	2067	
Approach% 6.2 81.2 12.6 0.0 - 18.0 47.6 34.4 0.0 - 9.6 75.3 15.1 0.0 - 24.6 53.6 21.8 0.0 - - - - - - - - - - 24.6 53.6 21.8 0.0 - - - - - - - - - - - - - - - 24.6 53.6 21.8 0.0 - - - - 0.0 1 0 0 - - - 0.0 1 0 0 - - 0.0 0.0 - 0.0	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Intel % 2.1 27.8 4.3 0.0 - 34.3 2.6 7.0 5.0 0.0 - 14.6 3.6 28.5 5.7 0.0 - 37.9 3.3 7.1 2.9 0.0 - 13.2 - Motorcycles 0 1 0 0 - 0 0 1 0 0 - 0 2 0.0 - 10 0 0 0 0 - 0.0 2 0.0	Grand Total	153	2001	311	0	2	2465	189	500	361	0	9	1050	262	2053	411	0	5	2726	234	510	207	0	8	951	7192	
Motorcycles 0 1 0 0 0 0 1 0 0 - 1 0 0 0 0 2 % Motorcycles 0.0 0.	Approach %	6.2	81.2	12.6	0.0	-	-	18.0	47.6	34.4	0.0	-	-	9.6	75.3	15.1	0.0	-	-	24.6	53.6	21.8	0.0	-	-	-	
% Motorcycles 0.0	Total %	2.1	27.8	4.3	0.0	-	34.3	2.6	7.0	5.0	0.0	-	14.6	3.6	28.5	5.7	0.0	-	37.9	3.3	7.1	2.9	0.0	-	13.2	-	
Cars & Light Goods 152 1961 306 0 - 2419 185 500 359 0 - 1044 261 2010 405 0 - 2676 232 505 206 0 - 943 7082 % Cars & Light Goods 99.3 98.0 98.4 - - 99.4 99.6 97.9 98.5 - - 98.2 99.1 99.0 99.5 - - 94.3 7082 Buses 0 18 4 0 - 22 1 0 0 0 - 1 1 23 1 0 - 25 1 4 0 0 - 53 Buses 0.0 0.9 1.3 - 0.9 0.5 0.0 0.0 - 4 0 - 1 1 0.2 - 0.9 0.4 0.8 0.0 - 2 0.7 0.8 0.0 - 2 0.1 0.4 1.1 0.2 - 0.9 0.4 </td <td>Motorcycles</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>-</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>-</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>-</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>-</td> <td>0</td> <td>2</td>	Motorcycles	0	1	0	0	-	1	0	0	0	0	-	0	0	1	0	0	-	1	0	0	0	0	-	0	2	
% Cars & Light Goods 99.3 98.0 98.4 - 98.1 97.9 100.0 99.4 - - 99.6 97.9 98.5 - - 98.2 99.1 99.0 99.5 - - 99.2 98.5 Buses 0 18 4 0 - 22 1 0 0 - 1 1 23 1 0 - 25 1 4 0 0 - 53 % Buses 0.0 0.9 1.3 - - 0.9 0.4 1.1 0.2 - - 0.9 0.4 0.8 0.0 - 2 0.7 Single-Unit Trucks 1 17 1 0 - 10 0 - 4 0 1 4 0 - 2 40 % Single-Unit Trucks 0.7 0.8 0.3 - 0.8 1.1 0.0 0.6 - 0.4 0.0 0.5 1.0 - 0.6 0.4 0.0 0.5 -	% Motorcycles	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	
Goods 99.3 99.0 99.4 1 99.0 99.4 1 0 - 1 1 1 1 1 0 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 - 1 1 1 0 - 1 1 1 0 - 1 1 1 0 - 1 1 1 0 0 0 0 1 <th1< th=""> <th1< th=""> 1</th1<></th1<>	Cars & Light Goods	152	1961	306	0	-	2419	185	500	359	0	-	1044	261	2010	405	0	-	2676	232	505	206	0	-	943	7082	
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Single-Unit Trucks 1 17 1 0 - 19 2 0 2 0 - 4 0 11 4 0 - 15 1 0 1 0 - 2 40 % Single-Unit Trucks 0.7 0.8 0.3 - - 0.8 1.1 0.0 0.6 - - 0.4 0.0 0.5 1.0 - - 0.6 0.4 0.0 0.5 - 0.6 0.4 0.0 0.5 - 0.6 0.4 0.0 0.5 - 0.6 0.4 0.0 0.5 - 0.6 0.4 0.0 0.5 - 0.6 0.4 0.0 0.5 - 0.4 0.6 0.4 0.0 0.5 - 0.6 0.4 0.0 0.5 - - 0.6 0.4 0.0 0.5 - - 0.6 0.4 0.0 0.5 - - 0.2 0.6 0.6 0.4 0.0 0.4 0.0 0.4 0.0 0.4	Buses	0	18	4	0	-	22	1	0	0	0	-	1	1	23	1	0	-	25	1	4	0	0	-	5	53	
% Single-Unit Trucks 0.7 0.8 0.3 - 0.8 1.1 0.0 0.6 - 0.4 0.0 0.5 1.0 - - 0.6 0.4 0.0 0.5 - 0.6 0.4 0.0 0.5 - 0.6 0.4 0.0 0.5 - 0.6 0.4 0.0 0.5 1.0 - - 0.6 0.4 0.0 0.5 - 0.6 0.4 0.0 0.5 1.0 - - 0.6 0.4 0.0 0.5 1.0 - - 0.6 0.4 0.0 0.5 - 0.2 0.6 0.4 0.0 0.5 1.0 - - 0.6 0.4 0.0 0.5 - 0.2 0.6 0.6 Articulated 0.0 0.2 0.0 0.0 - 1 0.0 0.4 0.2 0.3 0.0 0.2 0.0 - 1 0.2 0.1 0.2 <td>% Buses</td> <td>0.0</td> <td>0.9</td> <td>1.3</td> <td>-</td> <td>-</td> <td>0.9</td> <td>0.5</td> <td>0.0</td> <td>0.0</td> <td>-</td> <td>-</td> <td>0.1</td> <td>0.4</td> <td>1.1</td> <td>0.2</td> <td>-</td> <td>-</td> <td>0.9</td> <td>0.4</td> <td>0.8</td> <td>0.0</td> <td>-</td> <td>-</td> <td>0.5</td> <td>0.7</td>	% Buses	0.0	0.9	1.3	-	-	0.9	0.5	0.0	0.0	-	-	0.1	0.4	1.1	0.2	-	-	0.9	0.4	0.8	0.0	-	-	0.5	0.7	
Trücks 0.7 0.8 0.3 1 0.0 0.0 1 0.0 0.0 1 0.0 0.0 1 0.0 0.0 0.0 0.0 1 0 0.0	Single-Unit Trucks	1	17	1	0	-	19	2	0	2	0	-	4	0	11	4	0	-	15	1	0	1	0	-	2	40	
% Articulated 0.0 0.2 0.0 - 0.2 0.5 0.0 0.0 - 0.1 0.0 0.4 0.2 - 0.3 0.0 0.2 0.0 - 0.1 0.2	% Single-Unit Trucks	0.7	0.8	0.3	-	-	0.8	1.1	0.0	0.6	-	-	0.4	0.0	0.5	1.0	-	-	0.6	0.4	0.0	0.5	-	-	0.2	0.6	
	Articulated Trucks	0	4	0	0	-	4	1	0	0	0	-	1	0	8	1	0	-	9	0	1	0	0	-	1	15	
	% Articulated Trucks	0.0	0.2	0.0	-	-	0.2	0.5	0.0	0.0	-	-	0.1	0.0	0.4	0.2	-	-	0.3	0.0	0.2	0.0	-	-	0.1	0.2	
Bicycles on Road 0 0 0 0 - 0 0 0 0 0 - 0 0 0 0 0 - 0	Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	

% Bicycles on Road	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0
Bicycles on Crosswalk	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	1	-	-
% Bicycles on Crosswalk	-	-	-	-	0.0	-	-	-	-	-	0.0	-	-	-	-	-	0.0	-	-	-	-	-	12.5	-	-
Pedestrians	-	-	-	-	2	-	-	-	-	-	9	-	-	-	-	-	5	-	-	-	-	-	7	-	-
% Pedestrians	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	87.5	-	-

Count Name: Hampton and Holly Hills Site Code: 04 Start Date: 03/19/2019 Page No: 1

Chesterfield, Missouri, United States 12345 636.537.5585 go@engdesignsource.com

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Grand Total 50 2084 162 1 5 2297 3 0 1 0 25 4 62 2251 25 1 13 2339 26 9 11 0 16 46 4686 Approach% 2.2 90.7 7.1 0.0 - 75.0 0.0 25.0 0.0 - 2.7 96.2 1.1 0.0 - 56.5 19.6 23.9 0.0 - - - 7.0 0.0	Hourly Total	11	751	77	0	4	839	1	0	1	0	14	2	28	557	10	0	8	595	5	2	2	0	8	9	1445
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Motorcycles 0 6 0 0 0 0 0 2 0 0 - 0 8 % Motorcycles 0.0 0.3 0.0 0.0 - 0.0 <t< td=""><td>Approach %</td><td>2.2</td><td>90.7</td><td>7.1</td><td>0.0</td><td>-</td><td>-</td><td>75.0</td><td>0.0</td><td>25.0</td><td>0.0</td><td>-</td><td>-</td><td>2.7</td><td>96.2</td><td>1.1</td><td>0.0</td><td>-</td><td>-</td><td>56.5</td><td>19.6</td><td>23.9</td><td>0.0</td><td>-</td><td>-</td><td>-</td></t<>	Approach %	2.2	90.7	7.1	0.0	-	-	75.0	0.0	25.0	0.0	-	-	2.7	96.2	1.1	0.0	-	-	56.5	19.6	23.9	0.0	-	-	-
% Motorcycles 0.0 0.3 0.0 0.0 0.0 - 0.0 <th< td=""><td>Total %</td><td>1.1</td><td>44.5</td><td>3.5</td><td>0.0</td><td>-</td><td>49.0</td><td>0.1</td><td>0.0</td><td>0.0</td><td>0.0</td><td>-</td><td>0.1</td><td>1.3</td><td>48.0</td><td>0.5</td><td>0.0</td><td>-</td><td>49.9</td><td>0.6</td><td>0.2</td><td>0.2</td><td>0.0</td><td>-</td><td>1.0</td><td>-</td></th<>	Total %	1.1	44.5	3.5	0.0	-	49.0	0.1	0.0	0.0	0.0	-	0.1	1.3	48.0	0.5	0.0	-	49.9	0.6	0.2	0.2	0.0	-	1.0	-
Cars & Light Goods 48 2038 157 1 - 2244 3 0 1 0 - 4 61 2199 23 1 - 2284 26 8 11 0 - 457 % Cars & Light Goods 96.0 97.8 96.9 100.0 - 97.0 100.0 - 100.0 - 100.0 98.4 97.7 92.0 100.0 - 97.6 100.0 88.9 100.0 - 457 Buses 0 14 3 0 - 17 0 0 0 - 0 0 21 0 0 21 0 1 0 0 1 39 % Buses 0.0 0.7 1.9 0.0 - 0.0 - 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.1 0.0 - 1.2 0.0 0.0 0.0	Motorcycles	0	6	0	0	-	6	0	0	0	0	-	0	0	2	0	0	-	2	0	0	0	0	-	0	8
% Cars & Light Goods 96.0 97.8 96.9 100.0 - 97.7 100.0 - 100.0 98.4 97.7 92.0 100.0 - 97.8 97.7 Buses 0 14 3 0 - 17 0 0 0 0 21 0 0 - 21 0 1 0 1 0 0 1 39 % Buses 0.0 0.7 1.9 0.0 - 0.7 0.0 - 0.0 - 0.0 0.0 0.0 0.0 1.1 0.0 0.0 - 100.0 98.4 97.7 92.0 100.0 - 97.8 97.6 100.0 10 1 0.0 1 1 97.7 97.0 100.0 0.0 1 97.8 97.6 100.0 10.0 1 39 % Buses 0.0 0.7 1.0 0.0 1.0 0.0 0.0 0.0 <	% Motorcycles	0.0	0.3	0.0	0.0	-	0.3	0.0	-	0.0	-	-	0.0	0.0	0.1	0.0	0.0	-	0.1	0.0	0.0	0.0	-	-	0.0	0.2
Goods 96.0 97.0 96.0 97.0 97.0 97.0 100.0 - 97.0 100.0 - 97.0 100.0 - 97.0 97.0 100.0 - 97.0 97.0 100.0 - 97.0 100.0 - 97.0 100.0 - 97.0 100.0 - 97.0 100.0 - 97.0 100.0 - 97.0 100.0 - 97.0 100.0 - 97.0 100.0 - 97.0 100.0 - 97.0 100.0 - 97.0 97.0 100.0 - 97.0 <td>Cars & Light Goods</td> <td>48</td> <td>2038</td> <td>157</td> <td>1</td> <td>-</td> <td>2244</td> <td>3</td> <td>0</td> <td>1</td> <td>0</td> <td>-</td> <td>4</td> <td>61</td> <td>2199</td> <td>23</td> <td>1</td> <td>-</td> <td>2284</td> <td>26</td> <td>8</td> <td>11</td> <td>0</td> <td>-</td> <td>45</td> <td>4577</td>	Cars & Light Goods	48	2038	157	1	-	2244	3	0	1	0	-	4	61	2199	23	1	-	2284	26	8	11	0	-	45	4577
% Buses 0.0 0.7 1.9 0.0 - 0.0 - 0.0 0.0 0.0 0.0 - 0.0 0.0 - 0.0 11.1 0.0 - 0.0 0.0 Single-Unit Trucks 2 23 2 0 - 27 0.0 0 0 0.0 22 2 0 - 24 0 0.0 0.0 0.0 51 % Single-Unit Trucks 4.0 1.1 1.2 0.0 - 0.0 0.0 22 2 0 - 24 0 0.0 0.0 - 0.0 51 % Single-Unit Trucks 4.0 1.1 1.2 0.0 - 0.0 0.0 1.0 8.0 0.0 - 1.0 0.0 0.0 0.0 1.1 0.0 0.0 1.1 0.0 0.0 0.0 1.1 0.0 0.0 0.0 1.1 0.0 0.0 0.0 1.1		96.0	97.8	96.9	100.0	-	97.7	100.0	-	100.0	-	-	100.0	98.4	97.7	92.0	100.0	-	97.6	100.0	88.9	100.0	-	-	97.8	97.7
Single-Unit Trucks 2 23 2 0 - 27 0 0 0 0 22 2 0 - 24 0 0 0 0 51 % Single-Unit Trucks 4.0 1.1 1.2 0.0 - 0.0 - 0.0 0.0 1.0 8.0 0.0 - 1.0 0.0 0.0 0.0 1.1 Articulated Trucks 0 2 0 - 0.0 1.1 7 0 0 - 1.0 0.0 0.0 0.0 - 0.0 1.1 Articulated Trucks 0 2 0 0 0 0 0 0 0 0 0 0 0 0.0 1.1 Maticulated Trucks 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Buses	0	14	3	0	-	17	0	0	0	0	-	0	0	21	0	0	-	21	0	1	0	0	-	1	39
0 1.1 1.2 0.0 - 1.2 0.0 - 0.0 - 0.0 1.0 8.0 0.0 - 1.0 0.0 0.0 0.0 1.1 Articulated Trucks 0 2 0 0 - 0.0 1.0 8.0 0.0 - 1.0 0.0 0.0 0.0 - 0.0 1.1 Articulated Trucks 0 2 0 1 1 0 0 0 0 0 0 0 1 1 0	% Buses	0.0	0.7	1.9	0.0	-	0.7	0.0	-	0.0	-	-	0.0	0.0	0.9	0.0	0.0	-	0.9	0.0	11.1	0.0	-	-	2.2	0.8
Trücks 4.0 1.1 1.2 0.0 - 1.2 0.0 - 0.0 0.0 1.0 0.	Single-Unit Trucks	2	23	2	0	-	27	0	0	0	0	-	0	0	22	2	0	-	24	0	0	0	0	-	0	51
% Articulated Trucks 0.0 0.1 0.0 0.0 - 0.0 - 0.0 1.6 0.3 0.0 0.0 - 0.0 0.2		4.0	1.1	1.2	0.0	-	1.2	0.0	-	0.0	-	-	0.0	0.0	1.0	8.0	0.0	-	1.0	0.0	0.0	0.0	-	-	0.0	1.1
Trucks 0.0 0.1 0.0 0.0 - 0.1 0.0 - 0.0 - 0.0 - 0.0 1.8 0.3 0.0 0.0 - 0.3 0.0 0.0 0.0 - 0.0 0.2	Articulated Trucks	0	2	0	0	-	2	0	0	0	0	-	0	1	7	0	0	-	8	0	0	0	0	-	0	10
Bicycles on Road 0 1 0 0 - 1 0 0 0 0 - 0 0 0 0 0 0 - 0 0 0 0		0.0	0.1	0.0	0.0	-	0.1	0.0	-	0.0	-	-	0.0	1.6	0.3	0.0	0.0	-	0.3	0.0	0.0	0.0	-	-	0.0	0.2
	Bicycles on Road	0	1	0	0	-	1	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	1

% Bicycles on	0.0	0.0	0.0	0.0		0.0	0.0		0.0			0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0			0.0	0.0
% Bicycles on Road	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0	-	-	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0
Bicycles on Crosswalk	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-
% Bicycles on Crosswalk	-	-	-	-	0.0	-	-	-	-	-	0.0	-	-	-	-	-	0.0	-	-	-	-	-	0.0	-	-
Pedestrians	-	-	-	-	5	-	-	-	-	-	25	-	-	-	-	-	13	-	-	-	-	-	16	-	-
% Pedestrians	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-

Count Name: Hampton and Loughborough Site Code: 05 Start Date: 02/26/2019 Page No: 1

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1							I					lovei													1
		:		d Approach						d Approach						d Approach						d Approach			
Start Time				bound		App.				tbound		App				bound		App.				bound		App.	
	Right	Thru	Left	U-Turn	Peds	Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	Total	Right	Thru	Left	U-Turn	Peds	Total	Int. Total
7:00 AM	8	74	10	0	1	92	11	38	9	0	0	58	2	103	2	0	0	107	2	11	4	0	1	17	274
7:15 AM	4	75	6	0	0	85	16	48	7	0	0	71	5	166	9	0	0	180	4	5	6	0	0	15	351
7:30 AM	10	98	12	0	0	120	23	56	7	0	2	86	4	166	6	0	0	176	7	11	12	0	0	30	412
7:45 AM	9	95	7	0	0	111	20	40	9	0	0	69	5	122	2	0	0	129	3	7	4	0	0	14	323
Hourly Total	31	342	35	0	1	408	70	182	32	0	2	284	16	557	19	0	0	592	16	34	26	0	1	76	1360
8:00 AM	7	65	6	0	0	78	9	28	6	0	0	43	8	130	2	0	0	140	3	9	7	0	0	19	280
8:15 AM	2	57	6	0	0	65	12	29	4	0	0	45	4	115	4	0	0	123	3	12	6	0	0	21	254
8:30 AM	5	68	9	0	1	82	11	18	6	0	1	35	4	110	6	0	0	120	10	7	5	0	0	22	259
8:45 AM	9	59	10	0	1	78	15	22	2	0	0	39	4	117	0	0	0	121	6	9	5	0	0	20	258
Hourly Total	23	249	31	0	2	303	47	97	18	0	1	162	20	472	12	0	0	504	22	37	23	0	0	82	1051
9:00 AM *** BREAK ***	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
	0	0	0	0	0	0	- 1	0	0	- 0	0	- 1	0	0	0	- 0	0	0	0	0	0	0	0	0	1
Hourly Total 4:00 PM	11	162		0	1	189	17	21	6	0	2	44	4	114	3	0	2	121	9	27	8	0	1	44	398
•	9		16 22	0	0	175	17		6	0	2	44	9			0	1		8	31		0	0		
4:15 PM 4:30 PM	9 14	144 184	17	0	2	215	9	24 21	9	0	2	39	9 14	126 113	1	0	2	136 128	9	39	11 5	0	0	50 53	408 435
4:45 PM	14	154	18	0	0	186	13	21	10	0	1	45	14	135	0	0	3	149	10	34	4	0	0	48	433
Hourly Total	46	646	73	0	3	765	56	88	31	0	6	175	41	488	5	0	8	534	36	131	28	0	1	195	1669
5:00 PM	18	194	22	0	1	234	15	15	10	0	0	40	10	134	4	0	1	148	6	48	7	0	1	61	483
5:15 PM	10	171	16	0	1	198	13	20	9	0	0	40	7	159	5	0	0	171	10	43	9	0	2	62	473
5:30 PM	6	143	17	0	0	166	23	25	8	0	0	56	4	108	3	0	0	115	15	46	5	0	0	66	403
5:45 PM	13	133	14	0	2	160	20	19	3	0	1	46	11	135	0	0	1	146	10	44	12	0	4	67	419
Hourly Total	48	641	69	0	4	758	75	79	30	0	1	184	32	536	12	0	2	580	42	181	33	0	7	256	1778
Grand Total	148	1878	208	0	10	2234	249	446	111	0	10	806	109	2053	48	0	10	2210	116	383	110	0	9	609	5859
Approach %	6.6	84.1	9.3	0.0	-	-	30.9	55.3	13.8	0.0	-	-	4.9	92.9	2.2	0.0	-	-	19.0	62.9	18.1	0.0	-	-	-
Total %	2.5	32.1	3.6	0.0	-	38.1	4.2	7.6	1.9	0.0	-	13.8	1.9	35.0	0.8	0.0	-	37.7	2.0	6.5	1.9	0.0	-	10.4	-
Motorcycles	0	0	0	0	-	0	1	0	0	0	-	1	0	2	0	0	-	2	0	0	0	0	-	0	3
% Motorcycles	0.0	0.0	0.0	-	-	0.0	0.4	0.0	0.0	-	-	0.1	0.0	0.1	0.0	-	-	0.1	0.0	0.0	0.0	-	-	0.0	0.1
Cars & Light Goods	146	1853	203	0	-	2202	246	445	106	0	-	797	104	2016	45	0	-	2165	116	377	109	0	-	602	5766
% Cars & Light Goods	98.6	98.7	97.6	-	-	98.6	98.8	99.8	95.5	-	-	98.9	95.4	98.2	93.8	-	-	98.0	100.0	98.4	99.1	-	-	98.9	98.4
Buses	0	14	1	0	-	15	2	0	2	0	-	4	1	19	3	0	-	23	0	4	1	0	-	5	47
% Buses	0.0	0.7	0.5	-	-	0.7	0.8	0.0	1.8	-	-	0.5	0.9	0.9	6.3	-	-	1.0	0.0	1.0	0.9	-	-	0.8	0.8
Single-Unit Trucks	2	10	2	0	-	14	0	1	3	0	-	4	4	12	0	0	-	16	0	0	0	0	-	0	34
% Single-Unit Trucks	1.4	0.5	1.0	-	-	0.6	0.0	0.2	2.7	-	-	0.5	3.7	0.6	0.0	-	-	0.7	0.0	0.0	0.0	-	-	0.0	0.6
Articulated Trucks	0	1	2	0	-	3	0	0	0	0	-	0	0	4	0	0	-	4	0	1	0	0	-	1	8
% Articulated Trucks	0.0	0.1	1.0	-	-	0.1	0.0	0.0	0.0	-	-	0.0	0.0	0.2	0.0	-	-	0.2	0.0	0.3	0.0	-	-	0.2	0.1
Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	1	0	0	-	1	1
% Bicycles on Road	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.3	0.0	-	-	0.2	0.0

Bicycles on Crosswalk	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-
% Bicycles on Crosswalk	-	-	-	-	0.0	-	-	-	-	-	0.0	-	-	-	-	-	0.0	-	-	-	-	-	0.0	-	-
Pedestrians	-	-	-	-	10	-	-	-	-	-	10	-	-	-	-	-	10	-	-	-	-	-	9	-	-
% Pedestrians	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-

Count Name: Hampton and Gravois Site Code: 07 Start Date: 02/21/2019 Page No: 1

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										Turr	iing i	lover	nenti	Jala											
			Southboun	d Approach	ו				Westbour	d Approach	I			I	Northboun	d Approach					Eastboun	d Approach			
			South	bound					Wes	tbound					North	bound					East	bound			
Start Time	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Int. Total
7:00 AM	50	55	9	0	0	114	10	124	8	0	0	142	6	106	24	0	0	136	13	103	61	0	0	177	569
7:15 AM	51	75	9	0	0	135	15	127	8	0	1	150	9	118	40	0	1	167	18	152	84	0	0	254	706
7:30 AM	67	88	6	0	0	161	9	125	10	0	1	144	10	163	39	0	1	212	19	125	73	0	0	217	734
7:45 AM	74	73	7	0	0	154	11	145	10	0	2	166	14	116	31	0	1	161	20	136	64	0	0	220	701
Hourly Total	242	291	31	0	0	564	45	521	36	0	4	602	39	503	134	0	3	676	70	516	282	0	0	868	2710
8:00 AM	56	50	9	0	0	115	8	117	6	0	1	131	13	104	30	0	1	147	20	126	50	0	0	196	589
8:15 AM	48	40	9	0	2	97	13	109	7	0	0	129	14	77	15	0	1	106	18	129	66	0	0	213	545
8:30 AM	53	53	6	0	3	112	9	96	5	0	1	110	13	79	24	0	0	116	10	106	56	0	0	172	510
8:45 AM	46	39	9	0	2	94	7	109	4	0	0	120	13	86	20	0	0	119	11	126	58	0	0	195	528
Hourly Total	203	182	33	0	7	418	37	431	22	0	2	490	53	346	89	0	2	488	59	487	230	0	0	776	2172
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	88	95	21	0	0	204	12	187	16	0	2	215	11	81	39	0	2	131	34	157	47	0	0	238	788
4:15 PM	89	112	7	0	3	208	12	175	11	0	3	198	13	114	25	0	4	152	24	172	58	0	0	254	812
4:30 PM	105	144	9	0	2	258	10	179	9	0	2	198	17	105	30	0	0	152	38	140	63	0	0	241	849
4:45 PM	112	115	17	0	4	244	13	163	7	0	0	183	19	111	14	0	0	144	37	136	70	0	0	243	814
Hourly Total	394	466	54	0	9	914	47	704	43	0	7	794	60	411	108	0	6	579	133	605	238	0	0	976	3263
5:00 PM	95	145	21	0	3	261	8	179	14	0	0	201	13	100	26	0	0	139	34	145	74	0	0	253	854
5:15 PM	116	117	21	0	4	254	21	141	17	0	0	179	13	141	21	0	1	175	25	154	80	0	0	259	867
5:30 PM	114	108	20	0	0	242	13	177	13	0	0	203	15	101	21	0	1	137	27	123	51	0	0	201	783
5:45 PM	95	85	13	0	0	193	6	156	17	0	1	179	12	103	22	0	0	137	35	139	70	0	0	244	753
Hourly Total	420	455	75	0	7	950	48	653	61	0	1	762	53	445	90	0	2	588	121	561	275	0	0	957	3257
6:00 PM	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Grand Total	1259	1394	193	0	23	2846	177	2311	162	0	14	2650	205	1705	421	0	13	2331	383	2169	1025	0	0	3577	11404
Approach %	44.2	49.0	6.8	0.0	-	-	6.7	87.2	6.1	0.0	-	-	8.8	73.1	18.1	0.0	-	-	10.7	60.6	28.7	0.0	-	-	-
Total %	11.0	12.2	1.7	0.0	-	25.0	1.6	20.3	1.4	0.0	-	23.2	1.8	15.0	3.7	0.0	-	20.4	3.4	19.0	9.0	0.0	-	31.4	-
Motorcycles	0	2	0	0	-	2	0	1	0	0	-	1	0	1	0	0	-	1	0	2	1	0	-	3	7
% Motorcycles	0.0	0.1	0.0	-	-	0.1	0.0	0.0	0.0	-	-	0.0	0.0	0.1	0.0	-	-	0.0	0.0	0.1	0.1	-	-	0.1	0.1
Cars & Light Goods	1251	1363	187	0	-	2801	145	2273	159	0	-	2577	197	1665	408	0	-	2270	377	2136	1005	0	-	3518	11166
% Cars & Light Goods	99.4	97.8	96.9	-	-	98.4	81.9	98.4	98.1	-	-	97.2	96.1	97.7	96.9	-	-	97.4	98.4	98.5	98.0	-	-	98.4	97.9
Buses	2	16	2	0	-	20	29	18	2	0	-	49	5	20	10	0	-	35	3	8	13	0	-	24	128
% Buses	0.2	1.1	1.0	-	-	0.7	16.4	0.8	1.2	-	-	1.8	2.4	1.2	2.4	-	-	1.5	0.8	0.4	1.3	-	-	0.7	1.1
Single-Unit Trucks	4	12	4	0	-	20	3	16	1	0	-	20	3	15	3	0	-	21	2	16	4	0	-	22	83
% Single-Unit Trucks	0.3	0.9	2.1	-	-	0.7	1.7	0.7	0.6	-	-	0.8	1.5	0.9	0.7	-	-	0.9	0.5	0.7	0.4	-	-	0.6	0.7
Articulated Trucks	2	1	0	0	-	3	0	2	0	0	-	2	0	4	0	0	-	4	1	6	2	0	-	9	18
% Articulated Trucks	0.2	0.1	0.0	-	-	0.1	0.0	0.1	0.0	-	-	0.1	0.0	0.2	0.0	-	-	0.2	0.3	0.3	0.2	-	-	0.3	0.2
Bicycles on Road	0	0	0	0	-	0	0	1	0	0	-	1	0	0	0	0	-	0	0	1	0	0	-	1	2
																									_

% Bicycles on Road	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0
Bicycles on Crosswalk	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	1	-	-	-	-	-	0	-	-
% Bicycles on Crosswalk	-	-	-	-	0.0	_	-	-	-	-	0.0	-	-	-	-	-	7.7	-	-	-	-	-	-	-	-
Pedestrians	-	-	-	-	23	-	-	-	-	-	14	-	-	-	-	-	12	-	-	-	-	-	0	_	-
% Pedestrians	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	92.3	-	-	-	-	-	-	-	-

Count Name: Hampton and Jameison Site Code: 06 Start Date: 02/21/2019 Page No: 1

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Turning Movement Data

	i.				1	Turr	-	vement l								1
		Sc	outhbound Approa	ach			N	orthbound Approa	ach			E	astbound Approa	ch		
Start Time			Southbound					Northbound					Eastbound			
	Right	Thru	U-Turn	Peds	App. Total	Thru	Left	U-Turn	Peds	App. Total	Right	Left	U-Turn	Peds	App. Total	Int. Total
7:00 AM	6	92	0	0	98	135	48	0	0	183	22	2	0	0	24	305
7:15 AM	3	96	0	0	99	162	66	0	0	228	34	3	0	0	37	364
7:30 AM	5	121	0	0	126	169	75	0	0	244	41	0	0	0	41	411
7:45 AM	1	114	0	0	115	138	52	0	0	190	37	6	0	0	43	348
Hourly Total	15	423	0	0	438	604	241	0	0	845	134	11	0	0	145	1428
8:00 AM	3	82	0	0	85	128	38	0	1	166	14	4	0	0	18	269
8:15 AM	3	83	0	0	86	124	36	0	0	160	22	1	0	0	23	269
8:30 AM	0	76	0	0	76	127	17	0	0	144	31	2	0	2	33	253
8:45 AM	4	62	0	0	66	98	27	0	0	125	26	1	0	0	27	218
Hourly Total	10	303	0	0	313	477	118	0	1	595	93	8	0	2	101	1009
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	3	157	0	0	160	125	31	0	0	156	54	3	0	0	57	373
4:15 PM	3	152	0	0	155	134	38	0	0	172	47	5	0	1	52	379
4:30 PM	2	188	0	0	190	137	38	0	0	175	80	0	0	0	80	445
4:45 PM	4	177	0	0	181	148	49	0	0	197	68	4	0	0	72	450
Hourly Total	12	674	0	0	686	544	156	0	0	700	249	12	0	1	261	1647
5:00 PM	4	210	0	0	214	151	34	0	0	185	69	3	0	0	72	471
5:15 PM	5	193	0	0	198	162	65	0	0	227	69	5	0	0	74	499
5:30 PM	7	170	0	0	177	134	42	0	0	176	67	2	0	0	69	422
5:45 PM	0	131	0	0	131	134	53	0	0	187	54	6	0	0	60	378
Hourly Total	16	704	0	0	720	581	194	0	0	775	259	16	0	0	275	1770
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	53	2104	0	0	2157	2206	709	0	. 1	2915	735	47	0	3	782	5854
Approach %	2.5	97.5	0.0	-	-	75.7	24.3	0.0	-	-	94.0	6.0	0.0	-	-	-
Total %	0.9	35.9	0.0	-	36.8	37.7	12.1	0.0	-	49.8	12.6	0.8	0.0	-	13.4	-
Motorcycles	0	2	0	-	2	1	2	0	-	3	1	0	0	-	1	6
% Motorcycles	0.0	0.1	-	-	0.1	0.0	0.3	-	-	0.1	0.1	0.0	-	-	0.1	0.1
Cars & Light Goods	52	2068	0	-	2120	2148	700	0	-	2848	725	45	0	-	770	5738
% Cars & Light Goods	98.1	98.3	-	-	98.3	97.4	98.7	-	-	97.7	98.6	95.7	-	-	98.5	98.0
Buses	1	15	0	-	16	31	2	0	-	33	2	0	0	-	2	51
% Buses	1.9	0.7	-	-	0.7	1.4	0.3	-	-	1.1	0.3	0.0	-	-	0.3	0.9
Single-Unit Trucks	0	18	0	-	18	19	4	0	-	23	7	1	0	-	8	49
% Single-Unit Trucks	0.0	0.9	-	-	0.8	0.9	0.6	-	-	0.8	1.0	2.1	-	-	1.0	0.8
Articulated Trucks	0	1	0	-	1	7	1	0	-	8	0	0	0	-	0	9
% Articulated Trucks	0.0	0.0	-	-	0.0	0.3	0.1	-	-	0.3	0.0	0.0	-	-	0.0	0.2
Bicycles on Road	0	0	0	-	0	0	0	0	-	0	0	1	0	-	1	1
% Bicycles on Road	0.0	0.0	-	-	0.0	0.0	0.0	-	-	0.0	0.0	2.1	-	-	0.1	0.0
Bicycles on Crosswalk	-	-	-	0	-	-	-	-	1	-	-	-	-	0	-	-
% Bicycles on Crosswalk	-	-	-	-	-	-	-	-	100.0	-	-	-	-	0.0	-	-

Pedestrians	-	-	-	0	-	-	-	-	0	-	-	-	-	3	-	-
% Pedestrians	-	-	-	-	-	-	-	-	0.0	-	-	-	-	100.0	-	-

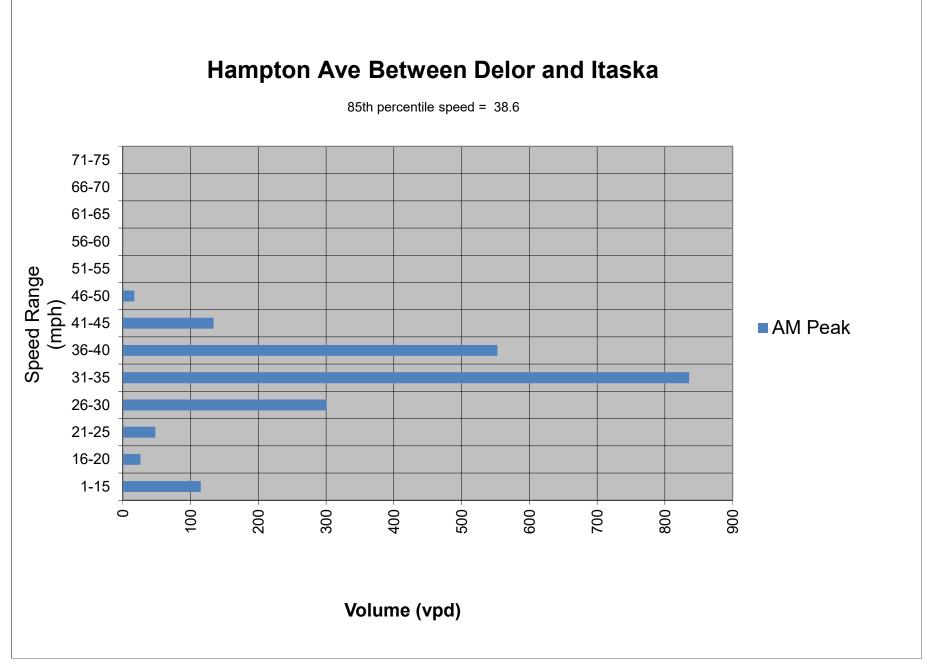
Count Name: Hampton and Gravois Site Code: 07 Start Date: 02/21/2019 Page No: 1

Chesterfield, Missouri, United States 12345 636.537.5585 go@engdesignsource.com

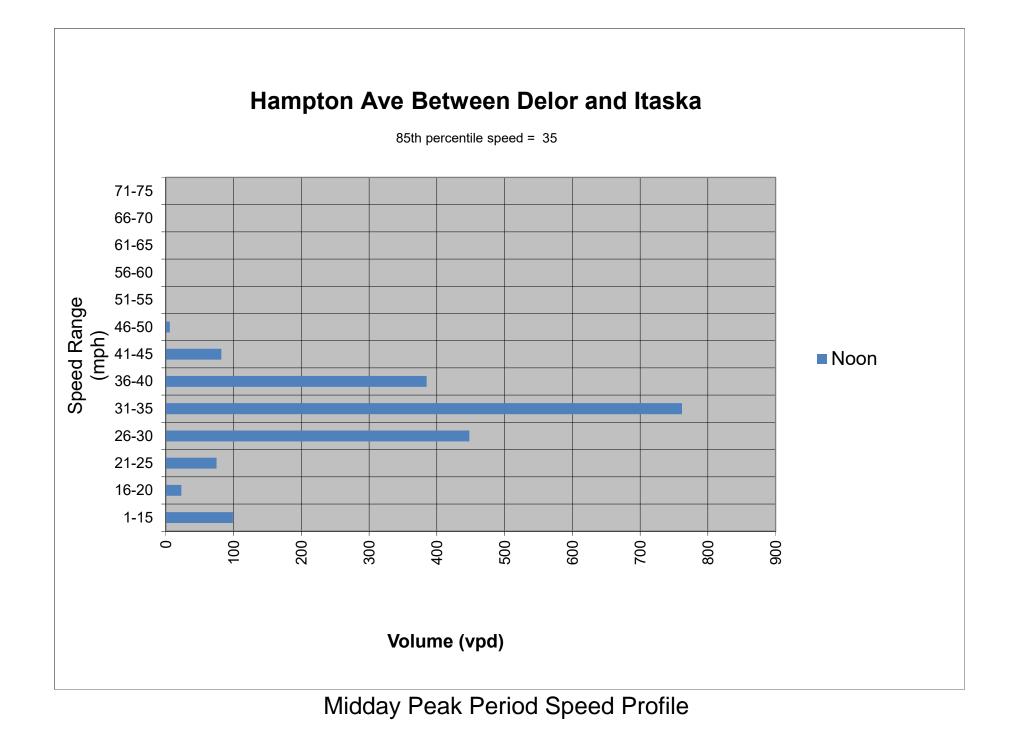
										Turr	iing i	lover	nenti	Jala											
			Southboun	d Approach	ו				Westbour	d Approach	I			I	Northboun	d Approach					Eastboun	d Approach			
			South	bound					Wes	tbound					North	bound					East	bound			
Start Time	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Right	Thru	Left	U-Turn	Peds	App. Total	Int. Total
7:00 AM	50	55	9	0	0	114	10	124	8	0	0	142	6	106	24	0	0	136	13	103	61	0	0	177	569
7:15 AM	51	75	9	0	0	135	15	127	8	0	1	150	9	118	40	0	1	167	18	152	84	0	0	254	706
7:30 AM	67	88	6	0	0	161	9	125	10	0	1	144	10	163	39	0	1	212	19	125	73	0	0	217	734
7:45 AM	74	73	7	0	0	154	11	145	10	0	2	166	14	116	31	0	1	161	20	136	64	0	0	220	701
Hourly Total	242	291	31	0	0	564	45	521	36	0	4	602	39	503	134	0	3	676	70	516	282	0	0	868	2710
8:00 AM	56	50	9	0	0	115	8	117	6	0	1	131	13	104	30	0	1	147	20	126	50	0	0	196	589
8:15 AM	48	40	9	0	2	97	13	109	7	0	0	129	14	77	15	0	1	106	18	129	66	0	0	213	545
8:30 AM	53	53	6	0	3	112	9	96	5	0	1	110	13	79	24	0	0	116	10	106	56	0	0	172	510
8:45 AM	46	39	9	0	2	94	7	109	4	0	0	120	13	86	20	0	0	119	11	126	58	0	0	195	528
Hourly Total	203	182	33	0	7	418	37	431	22	0	2	490	53	346	89	0	2	488	59	487	230	0	0	776	2172
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	88	95	21	0	0	204	12	187	16	0	2	215	11	81	39	0	2	131	34	157	47	0	0	238	788
4:15 PM	89	112	7	0	3	208	12	175	11	0	3	198	13	114	25	0	4	152	24	172	58	0	0	254	812
4:30 PM	105	144	9	0	2	258	10	179	9	0	2	198	17	105	30	0	0	152	38	140	63	0	0	241	849
4:45 PM	112	115	17	0	4	244	13	163	7	0	0	183	19	111	14	0	0	144	37	136	70	0	0	243	814
Hourly Total	394	466	54	0	9	914	47	704	43	0	7	794	60	411	108	0	6	579	133	605	238	0	0	976	3263
5:00 PM	95	145	21	0	3	261	8	179	14	0	0	201	13	100	26	0	0	139	34	145	74	0	0	253	854
5:15 PM	116	117	21	0	4	254	21	141	17	0	0	179	13	141	21	0	1	175	25	154	80	0	0	259	867
5:30 PM	114	108	20	0	0	242	13	177	13	0	0	203	15	101	21	0	1	137	27	123	51	0	0	201	783
5:45 PM	95	85	13	0	0	193	6	156	17	0	1	179	12	103	22	0	0	137	35	139	70	0	0	244	753
Hourly Total	420	455	75	0	7	950	48	653	61	0	1	762	53	445	90	0	2	588	121	561	275	0	0	957	3257
6:00 PM	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Grand Total	1259	1394	193	0	23	2846	177	2311	162	0	14	2650	205	1705	421	0	13	2331	383	2169	1025	0	0	3577	11404
Approach %	44.2	49.0	6.8	0.0	-	-	6.7	87.2	6.1	0.0	-	-	8.8	73.1	18.1	0.0	-	-	10.7	60.6	28.7	0.0	-	-	-
Total %	11.0	12.2	1.7	0.0	-	25.0	1.6	20.3	1.4	0.0	-	23.2	1.8	15.0	3.7	0.0	-	20.4	3.4	19.0	9.0	0.0	-	31.4	-
Motorcycles	0	2	0	0	-	2	0	1	0	0	-	1	0	1	0	0	-	1	0	2	1	0	-	3	7
% Motorcycles	0.0	0.1	0.0	-	-	0.1	0.0	0.0	0.0	-	-	0.0	0.0	0.1	0.0	-	-	0.0	0.0	0.1	0.1	-	-	0.1	0.1
Cars & Light Goods	1251	1363	187	0	-	2801	145	2273	159	0	-	2577	197	1665	408	0	-	2270	377	2136	1005	0	-	3518	11166
% Cars & Light Goods	99.4	97.8	96.9	-	-	98.4	81.9	98.4	98.1	-	-	97.2	96.1	97.7	96.9	-	-	97.4	98.4	98.5	98.0	-	-	98.4	97.9
Buses	2	16	2	0	-	20	29	18	2	0	-	49	5	20	10	0	-	35	3	8	13	0	-	24	128
% Buses	0.2	1.1	1.0	-	-	0.7	16.4	0.8	1.2	-	-	1.8	2.4	1.2	2.4	-	-	1.5	0.8	0.4	1.3	-	-	0.7	1.1
Single-Unit Trucks	4	12	4	0	-	20	3	16	1	0	-	20	3	15	3	0	-	21	2	16	4	0	-	22	83
% Single-Unit Trucks	0.3	0.9	2.1	-	-	0.7	1.7	0.7	0.6	-	-	0.8	1.5	0.9	0.7	-	-	0.9	0.5	0.7	0.4	-	-	0.6	0.7
Articulated Trucks	2	1	0	0	-	3	0	2	0	0	-	2	0	4	0	0	-	4	1	6	2	0	-	9	18
% Articulated Trucks	0.2	0.1	0.0	-	-	0.1	0.0	0.1	0.0	-	-	0.1	0.0	0.2	0.0	-	-	0.2	0.3	0.3	0.2	-	-	0.3	0.2
Bicycles on Road	0	0	0	0	-	0	0	1	0	0	-	1	0	0	0	0	-	0	0	1	0	0	-	1	2
																									_

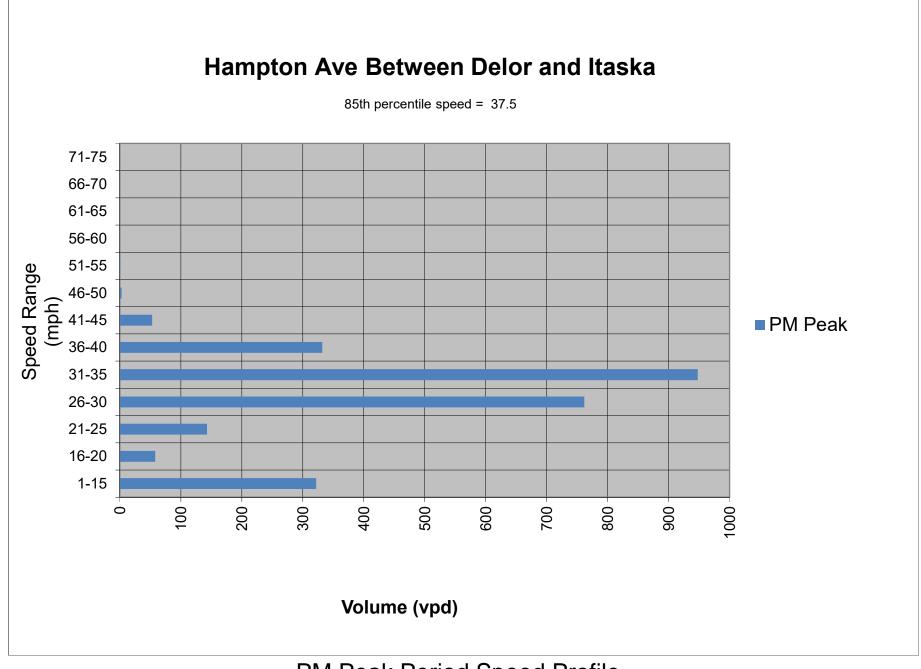
% Bicycles on Road	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0
Bicycles on Crosswalk	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	1	-	-	-	-	-	0	-	-
% Bicycles on Crosswalk	-	-	-	-	0.0	_	-	-	-	-	0.0	-	-	-	-	-	7.7	-	-	-	-	-	-	-	-
Pedestrians	-	-	-	-	23	-	-	-	-	-	14	-	-	-	-	-	12	-	-	-	-	-	0	_	-
% Pedestrians	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	92.3	-	-	-	-	-	-	-	-

Appendix B: Speed Data

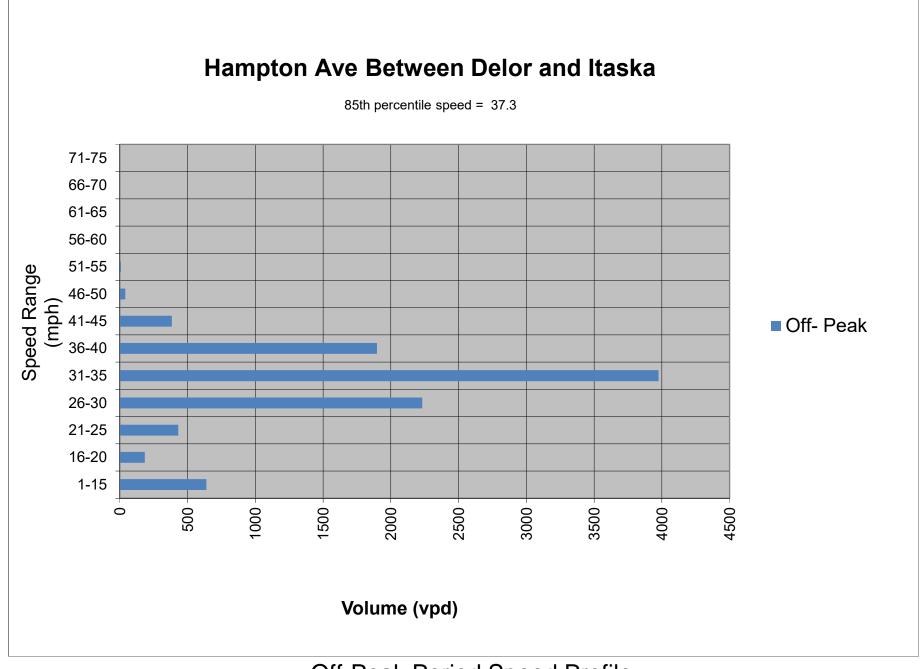


AM Peak Period Speed Profile





PM Peak Period Speed Profile



Off-Peak Period Speed Profile

Appendix C: Parking Data

						We	ekday 2	2/26/2	2019	12:00 PM t	o 2:0	0 PM					
					Sout	hbound Lane:	S					Nort	hbound Lanes	S			
			Available Spots		ked icles n#	Average Utilization	Illega Vehio			Available Spots	Veh	ked icles ın#	Average Utilization	Illega Vehio			Total Block Average Utilization
HA	MPTON A	VE		1	2		Total	1	2		1	2		Total	1	2	
Chippewa	to	Bancroft	0	-	-	-	0	-	-	0	-	-	-		-	-	-
Bancroft	to	Sutherland	0	-	-	-	0	-	-	0	-	-	-		-	-	-
Sutherland	to	Lansdowne	0	-	-	-	0	-	-	0	-	-	-		-	-	-
Lansdowne	to	Devonshire	0	-	-	-	0	-	-	12	0	0	0%	0	0	0	0%
Devonshire	to	Nottingham	18	5	5	28%	0	0	0	21	0	0	0%	0	0	0	13%
Nottingham	to	Neosho	7	0	0	0%	0	0	0	8	2	2	25%	0	0	0	13%
Neosho	to	Itaska	10	1	1	10%	0	0	0	5	0	1	10%	0	0	0	10%
Itaska	to	Delor	8	1	1	13%	0	0	0	8	2	2	25%	0	0	0	19%
Delor	to	Walsh	5	1	2	30%	0	0	0	7	1	0	7%	0	0	0	17%
Walsh	to	Eichelberger	4	2	1	38%	0	0	0	6	0	0	0%	0	0	0	15%
Eichelberger	to	Goethe	7	1	1	14%	0	0	0	7	0	0	0%	0	0	0	7%
Goethe	to	Milentz	10	5	6	55%	0	0	0	11	2	3	23%	1	1	0	38%
Milentz	to	Rhodes	5	3	0	30%	0	0	0	10	1	3	20%	0	0	0	23%
Rhodes	to	Holly Hills	6	2	1	25%	0	0	0	10	1	1	10%	0	0	0	16%
Holly Hills	to	Finkman	8	0	0	0%	0	0	0	10	3	3	30%	0	0	0	17%
Finkman	to	Lisette	9	0	0	0%	0	0	0	12	0	0	0%	0	0	0	0%
Lisette	to	Gresham	11	3	3	27%	0	0	0	11	1	1	9%	0	0	0	18%
Gresham	to	Loughborough	15	2	1	10%	0	0	0	8	3	1	25%	0	0	0	15%
Loughborough	to	Robert	16	1	0	3%	0	0	0	28	3	3	11%	0	0	0	8%
Robert	to	Sunshine	7	0	0	0%	0	0	0	7	0	1	7%	0	0	0	4%
Sunshine	to	Jamieson	10	0	0	0%	0	0	0	16	0	0	0%	0	0	0	0%
Jamieson	to	Parkview	50	0	0	0%	0	0	0	53	0	0	0%	0	0	0	0%
Parkview	to	Hampshire	14	0	0	0%	0	0	0	6	0	0	0%	0	0	0	0%
Hampshire	to	Gravois	17	0	0	0%	0	0	0	15	0	0	0%	0	0	0	0%
	SB Co	orridor Total	237	27	22	10%				271	19	21	7%		NB C	orrido	or Total

508	46	43	9%
	508	508 46	508 46 43

			Friday 3/1/2019 6:00 PM to 8:00 PM																														
									Sout	thbound Lanes	5													Nort	hbound Lanes	5							
			Available Spots		Ра		Vehio In #	cles		Average Utilization		Illeg		rked ' Run #		les		Available Spots	ts Run # Utilization Run #					Total Block Average Utilization									
HA	AMPTON A	VE		1	2	3	4	5	6		Total	1	2	3	4	5	6		1	2	3	4	5	6		Total	1	2	3	4	5	6	Otilization
Chippewa	to	Bancroft	0	-	-	-	-	-	-	-	0	-	-	-	-	-	-	0	-	-	-	-	-	-		0	-	-	-	-	-	-	-
Bancroft	to	Sutherland	0	-	-	-	-	-	-	-	0	-	1	-	-	-	-	0	-	-	-	-	-	-		0	-	-	-	-	-	-	-
Sutherland	to	Lansdowne	0	-	-	-	-	-	-	-	0	-	1	-	-	-	-	0	-	-	-	-	-	-		0	-	-	-	-	-	-	-
Lansdowne	to	Devonshire	0	-	-	-	-	-	-	-	0	-	1	-	-	-	-	12	0	0	0	0	0	0	0%	0	0	0	0	0	0	0	0%
Devonshire	to	Nottingham	18	3	3	4	4	3	3	19%	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0%	0	0	0	0	0	0	0	9%
Nottingham	to	Neosho	7	0	0	2	1	2	4	21%	0	0	0	0	0	0	0	8	1	1	1	0	0	0	6%	0	0	0	0	0	0	0	13%
Neosho	to	Itaska	10	1	1	1	1	1	3	13%	0	0	0	0	0	0	0	5	0	0	0	1	0	0	3%	0	0	0	0	0	0	0	10%
Itaska	to	Delor	8	7	8	7	8	9	8	98%	1	0	0	0	0	1	0	8	6	6	4	7	6	6	73%	0	0	0	0	0	0	0	85%
Delor	to	Walsh	5	5	5	2	3	4	3	73%	2	:	1	0	0	1	0	7	1	1	2	2	2	2	24%	0	0	0	0	0	0	0	44%
Walsh	to	Eichelberger	4	0	0	0	0	0	0	0%	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0%	0	0	0	0	0	0	0	0%
Eichelberger	to	Goethe	7	1	2	1	2	3	2	26%	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0%	0	0	0	0	0	0	0	13%
Goethe	to	Milentz	10	9	7	9	10	10	9	90%	0	0	0	0	0	0	0	11	4	4	7	6	6	6	50%	0	0	0	0	0	0	0	69%
Milentz	to	Rhodes	5	4	5	4	4	4	4	83%	1	0			1			10	4	4	4	4	4	5	42%	0	0	0	0	0	0	0	56%
Rhodes	to	Holly Hills	6	2	3	4	3	3	3	50%	0	0	0	0	0	0	0	10	3	3	2	2	2	2	23%	0	0	0	0	0	0	0	33%
Holly Hills	to	Finkman	8	3	4	4	4	6	4	52%	0	0	0	0	0	0	0	10	2	3	4	4	4	3	33%	0	0	0	0	0	0	0	42%
Finkman	to	Lisette	9	0	0	0	0	0	0	0%	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0%	0	0	0	0	0	0	0	0%
Lisette	to	Gresham	11	3	3	3	3	3	3	27%	0	0	0	0	0	0	0	11	2	2	1	1	2	2	15%	0	0	0	0	0	0	0	21%
Gresham	to	Loughborough	15	7	10	11	11	11	10	67%	0	0	0	0	0	0	0	8	3	3	3	6	6	5	54%	1	0	—		1			62%
Loughborough	to	Robert	16	0	0	0	0	0	0	0%	0	0	0	0	0	0	0	28	2	2	0	0	1	1	4%	0	0	0	0	0	0	0	2%
Robert	to	Sunshine	7	0	0	0	0	0	0	0%	0	0	0	0	0	0	0	7	0	0	1	1	0	0	5%	0	0	0	0	0	0	0	2%
Sunshine	to	Jamieson	10	0	0	0	0	0	0	0%	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0%	0	0	0	0	0	0	0	0%
Jamieson	to	Parkview	50	0	0	0	1	0	0	0%	0	0	0	0	0	0	0	53	0	0	0	0	0	0	0%	0	0	0	0	0	0	0	0%
Parkview	to	Hampshire	14	0	0	0	0	0	0	0%	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0%	0	0	0	0	0	0	0	0%
Hampshire	to	Gravois	17	0	0	0	0	0	0	0%	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0%	0	0	0	0	0	0	0	0%
	SB Co	orridor Total	237	45	51	52	55	59	56	22%			I	NB Co	rrido	r Tota	al	271	28	29	29	34	33	32	11%								

.

 Corridor Grand Total
 508
 73
 80
 81
 89
 92
 88
 17%

Appendix D: Traffic Operational Analysis Methodology

Traffic operating conditions were evaluated using Synchro 10 traffic modeling software, which is based upon methodologies outlined in the Highway Capacity Manual, 6th Edition (HCM) published by the Transportation Research Board.

The performance of a transportation system is quantified by Levels of Service (LOS), which are measures of traffic flow that consider factors such as speed, delay, interruptions, safety, and driver comfort and convenience. There are six levels of service ranging from LOS A ("free flow") to LOS F ("oversaturated"). LOS C is commonly used for design purposes and represents a roadway with volumes utilizing 70 to 80 percent of its capacity. LOS E is typically considered acceptable for peak period conditions in urban areas.

Level of service criteria vary depending upon the roadway component being evaluated. Intersections are most commonly evaluated since roadway capacity is typically dictated by the number of vehicles that can be served at critical intersections. For intersections, the criteria are based on delay and the type of control (i.e., whether it is signalized or unsignalized/roundabout).

Signalized intersections reflect higher delay tolerances as compared to unsignalized locations because motorists are accustomed to and accepting of longer delays at signals. For signalized and all-way stop intersections, the average control delay per vehicle is estimated for each movement and then aggregated for each approach and the intersection as a whole. For intersections with partial (side-street) stop control, the delay is calculated for the minor movements only (side-street approaches and major road left-turns) since through traffic on the major road is not required to stop. The thresholds for intersection levels of service are summarized in **Table D1**.

Level of Service	Delay per Vehicle (sec/veh)								
Level of Service	Signalized	Unsignalized							
А	< 10	0-10							
В	> 10-20	> 10-15							
С	> 20-35	> 15-25							
D	> 35-55	> 25-35							
E	> 55-80	> 35-50							
F	> 80	> 50							

Table D1: Intersection Level of Service Thresholds

Appendix E: Traffic Operating Conditions

			AM Peak H	our		PM Peak Ho	ur					
Int #	Intersection/ Approach	LOS	Delay (sec/veh)	95 th % Queue (ft)	LOS	Delay (sec/veh)	95 th % Queue (ft)					
1	Hampton Ave @ Chippewa	St (Signaliz	zed)									
	Overall Intersection	С	35.5	-	D	52.4	-					
	Eastbound Approach	D	50.4	254	F	81.9	#503					
	Westbound Approach	С	30.1	250	E	67.4	#472					
	Northbound Approach	С	30.3	511	С	32.9	301					
	Southbound Approach	С	32.5	205	D	37.4	642					
2	Hampton Ave @ Bancroft Ave (Signalized)											
	Overall Intersection	Α	9.8	-	В	13.9	-					
	Eastbound Approach	D	40.5	77	D	37.6	129					
	Westbound Approach	D	35.2	32	F	83.4	#168					
	Northbound Approach	В	10.4	335	А	7.9	136					
	Southbound Approach	А	0.4	12	А	2.5	m104					
3	Hampton Ave @ Nottingham Ave (Signalized)											
	Overall Intersection	С	23.0	-	В	17.1	-					
	Eastbound Approach	D	41.3	109	D	48.4	124					
	Westbound Approach	С	30.4	100	D	48.5	149					
	Northbound Approach	С	25.1	305	В	12.7	181					
	Southbound Approach	А	8.2	50	В	11.3	224					
4	Hampton Ave @ Eichelberg	er St (Sign	alized)									
	Overall Intersection	С	35.2	-	с	25.6	-					
	Eastbound Approach	D	47.7	101	E	63.8	266					
	Westbound Approach	E	63.4	#308	D	51.8	183					
	Northbound Approach	С	30.2	328	С	21.5	305					
	Southbound Approach	А	9.9	46	А	5.3	54					
5	Hampton Ave @ Holly Hills	Ave (Signa	lized)									
	Overall Intersection	Α	3.4	-	А	2.0	-					
	Eastbound Approach	C	31.8	27	А	0.0	0					
	Northbound Approach	А	3.8	m262	А	1.7	91					
	Southbound Approach	А	0.9	54	А	2.3	293					

Table E1: Existing Operating Conditions

6	Hampton Ave @ Loughboro	ugh Ave (S	ignalized)										
	Overall Intersection	С	23.5	-	В	20.0	-						
	Eastbound Approach	D	45.4	82	E	60.2	254						
	Westbound Approach	E	75.5	#331	F	109.5	#256						
	Northbound Approach	А	7.9	m82	А	5.9	133						
	Southbound Approach	А	4.0	37	А	2.4	42						
7	Hampton Ave @ Jamieson Ave (Unsignalized, Side Street STOP Control)												
	Eastbound Approach	С	15.1	20	С	20.0	80						
	Northbound Left-Turn	А	9.6	25	В	11.3	28						
8	Hampton Ave/Germania St	@ Gravois	Ave (Signaliz	ed)	-	-							
	Overall Intersection	С	46.4	-	D	45.4	-						
	Eastbound Approach	D	47.7	#313	D	47.6	#323						
	Westbound Approach	С	27.1	217	С	27.6	276						
	Northbound Approach	E	66.5	#301	E	61.5	280						
	Southbound Approach	D	37.8	m174	D	46.1	#312						

- 95th percentile volume exceeds capacity, queue may be longer; queue shown is maximum after two cycles m - volume for the 95th percentile queue is metered by the upstream signal

	Table E2: Foreca		AM Peak H			PM Peak Ho	ur		
Int #	Intersection/ Approach	LOS	Delay (sec/veh)	95 th % Queue (ft)	LOS	Delay (sec/veh)	95 th % Queue (ft)		
1	Hampton Ave @ Chippewa	St (Signaliz	ed)						
	Overall Intersection	С	36.8	-	D	52.9	-		
	Eastbound Approach	D	50.4	254	F	81.9	#503		
	Westbound Approach	С	30.1	250	E	67.4	#472		
	Northbound Approach	С	30.3	469	D	35.6	335		
	Southbound Approach	С	32.6	205	D	37.4	642		
2	Hampton Ave @ Bancroft A	ve (Signali	zed)						
	Overall Intersection	Α	5.2	-	В	13.1	-		
	Eastbound Approach	D	40.5	77	D	37.6	129		
	Westbound Approach	D	35.2	32	F	83.4	#168		
	Northbound Approach	А	3.3	171	А	4.6	100		
	Southbound Approach	А	0.4	12	А	2.5	m104		
3	Hampton Ave @ Nottingham Ave (Signalized)								
	Overall Intersection	Α	7.4	-	В	15.7	-		
	Eastbound Approach	D	39.3	88	D	45.9	100		
	Westbound Approach	С	26.9	11	D	35.0	103		
	Northbound Approach	А	3.6	m94	А	4.6	281		
	Southbound Approach	А	5.3	98	В	15.0	#886		
4	Hampton Ave @ Eichelberge	er St (Signo	alized)						
	Overall Intersection	С	33.9	-	с	29.2	-		
	Eastbound Approach	D	37.4	78	D	46.7	202		
	Westbound Approach	D	46.5	#225	D	44.0	142		
	Northbound Approach	С	32.4	#701	В	19.0	386		
	Southbound Approach	С	22.7	233	С	24.3	#819		
5	Hampton Ave @ Holly Hills	Ave (Signa	lized)						
	Overall Intersection	Α	3.2	-	Α	2.8	-		
	Eastbound Approach	С	22.5	21	А	0.2	0		
	Northbound Approach	А	3.5	198	А	3.2	217		
	Southbound Approach	А	1.4	59	А	2.6	m312		
6	Hampton Ave @ Loughboro	ugh Ave (S	ignalized)						
	Overall Intersection	В	18.8	-	В	15.0	-		

Table E2: Forecasted Operating Conditions with "Road Diet" Alternative

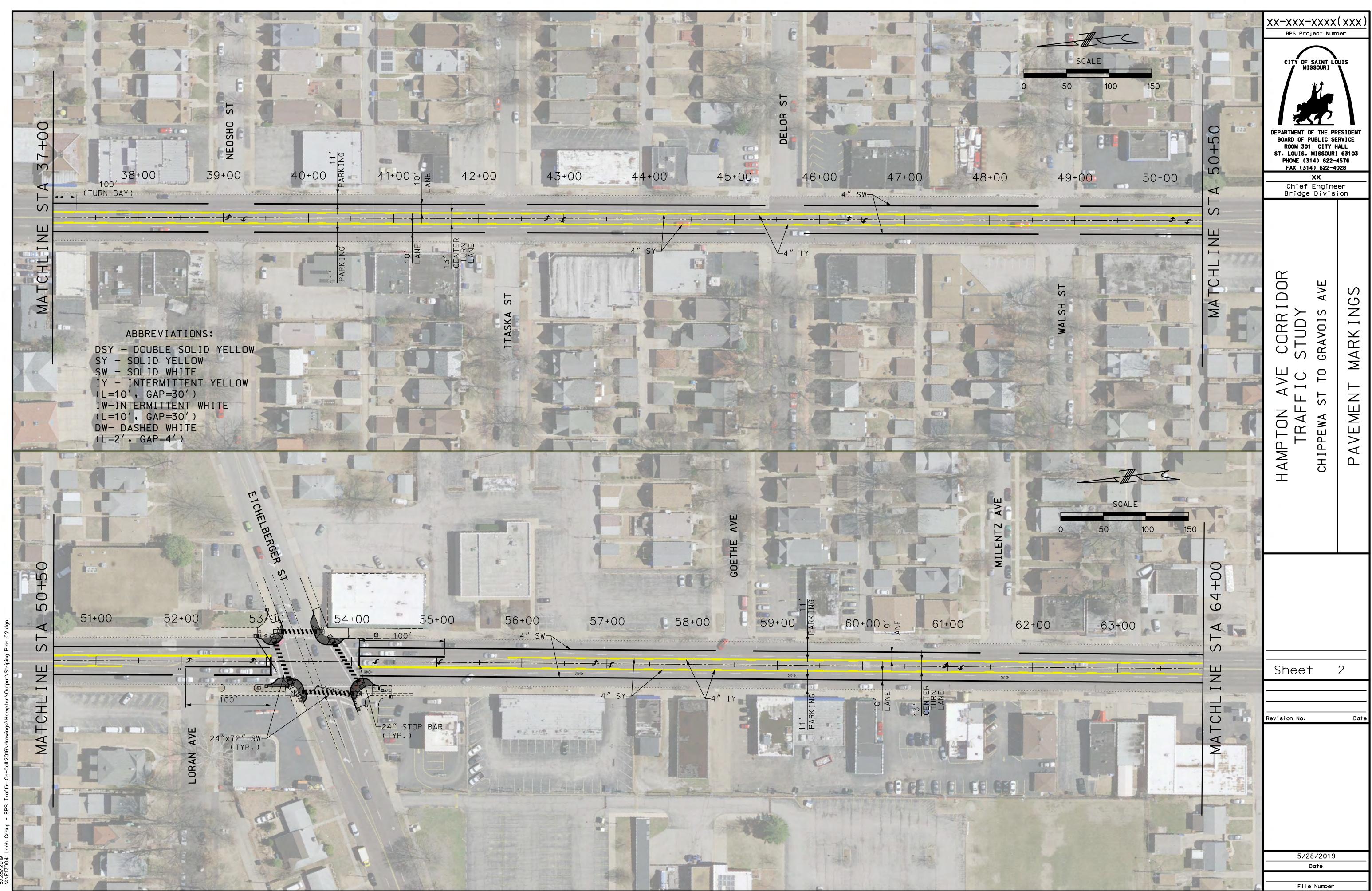
	Eastbound Approach	С	24.6	55	D	41.7	190			
	Westbound Approach	D	38.7	206	D	53.5	#256			
	Northbound Approach	В	13.6	343	А	8.5	268			
	Southbound Approach	В	10.9	140	А	5.2	95			
7	Hampton Ave @ Jamieson Ave (Unsignalized, Side Street STOP Control)									
	Eastbound Approach	С	13.6	28	E	39.5	200			
	Northbound Left-Turn	А	9.6	25	В	11.3	28			
8	Hampton Ave/Germania St	@ Gravois	Ave (Signaliz	ed)						
	Overall Intersection	с	44.8	-	D	45.4	-			
	Eastbound Approach	D	47.7	#313	D	47.6	#323			
	Westbound Approach	С	27.1	217	С	27.6	276			
	Northbound Approach	E	66.5	#301	E	61.5	280			
	Southbound Approach	С	29.8	163	D	46.1	#312			

- 95th percentile volume exceeds capacity, queue may be longer; queue shown is maximum after two cycles m - volume for the 95th percentile queue is metered by the upstream signal

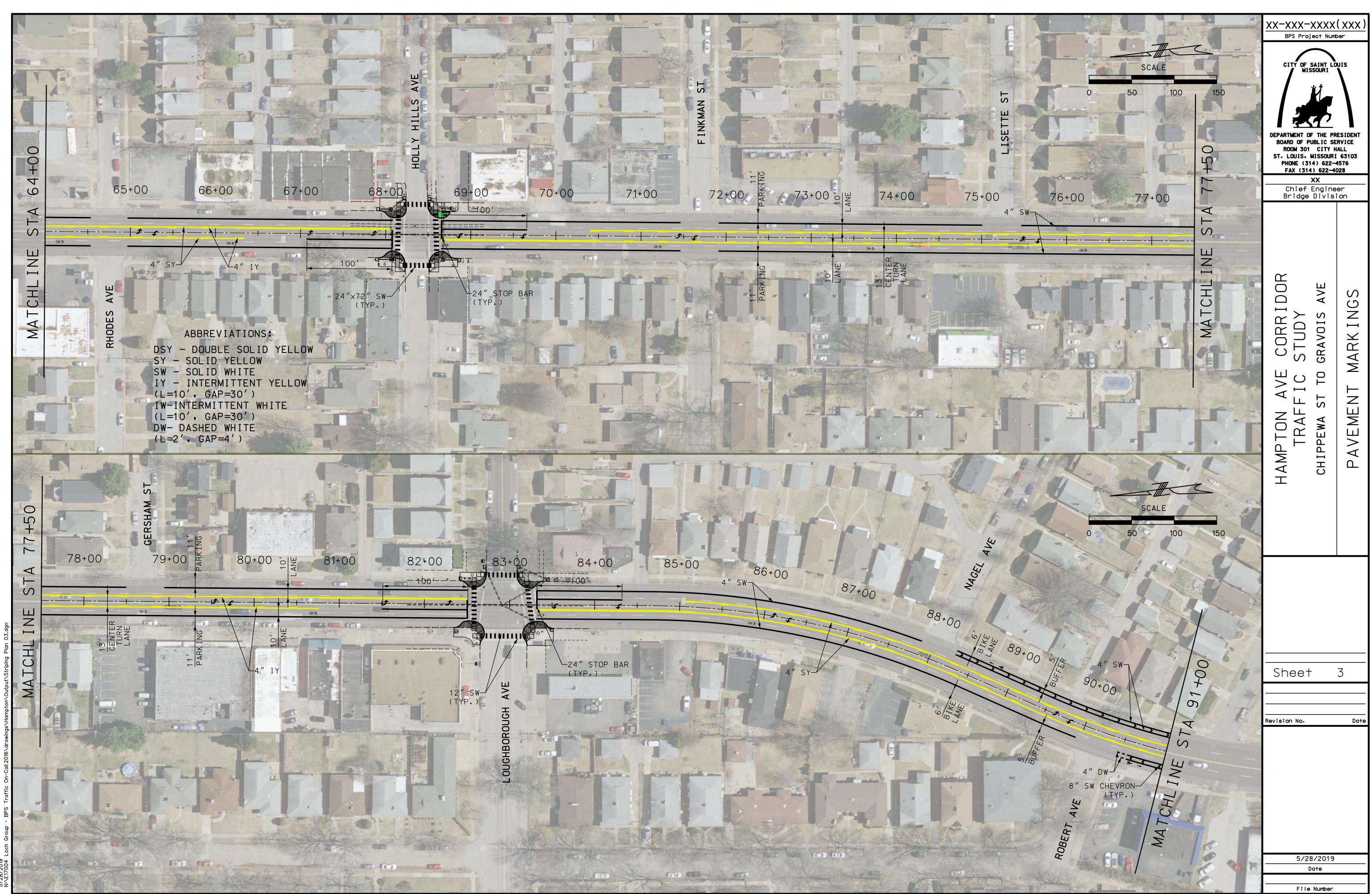
Appendix F: Conceptual Design



Striping Plan 01.dgn

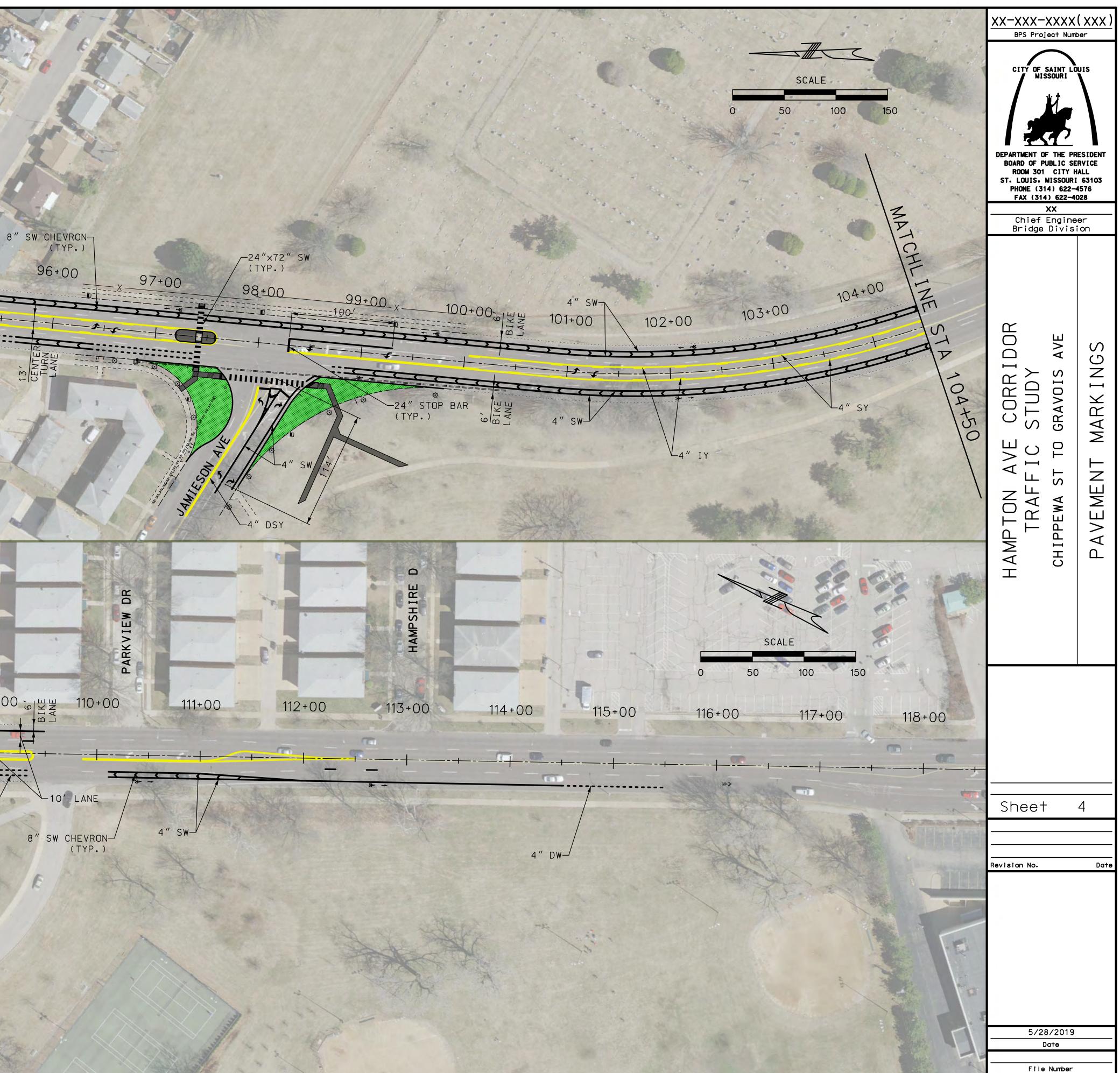


Striping Plan 02.dgn

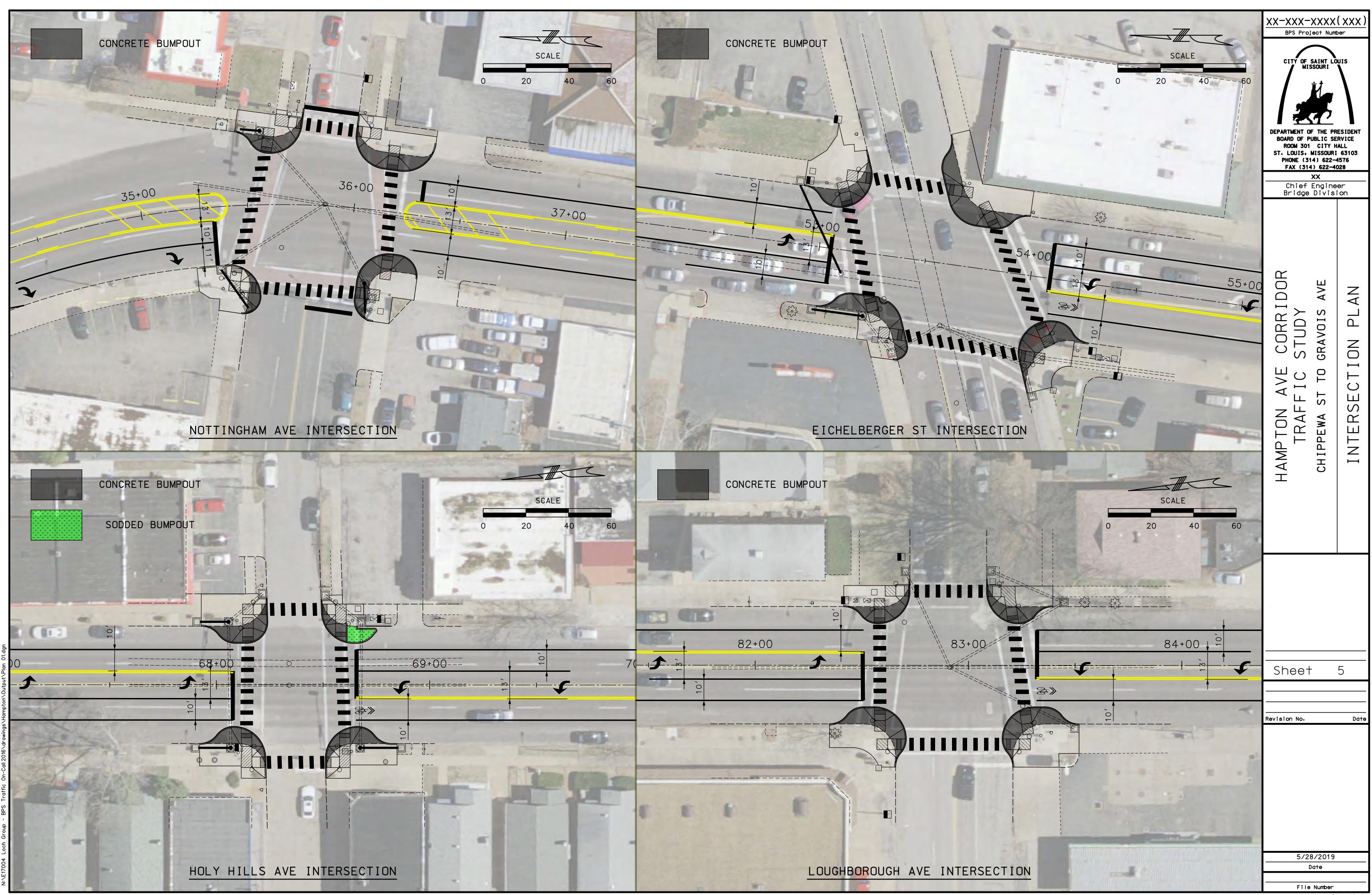


Striping Plan 03.dgn

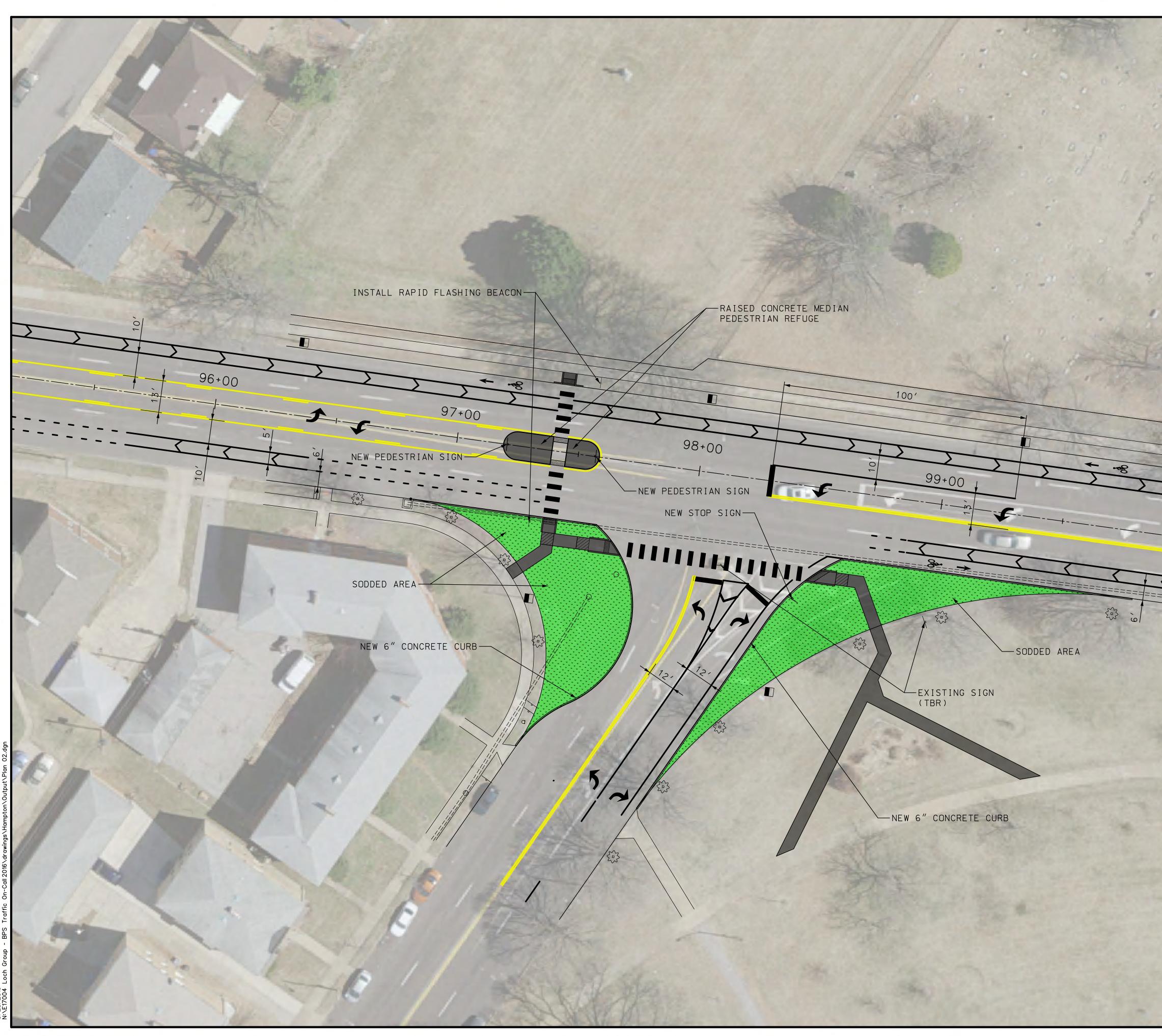
ROBERT AVE 00+ 0 92+00 93+00 94+00 95+00히벨 $\langle I \rangle$ +++++ ·-----TCHL MA CE CE 4" ABBREVIATIONS: DSY - DOUBLE SOLID YELLOW SY - SOLID YELLOW 40 SW - SOLID WHITE Scinstitue IY - INTERMITTENT YELLOW (L=10', GAP=30') IW-INTERMITTENT WHITE (L=10', GAP=30') DW- DASHED WHITE (L=2', GAP=4') DE REE +50 179' 185′ 04 106+00 이날 世105+00 نَوْ الْعَظِّ 108+00 107+00 A S Z 8.5' MEDIAN 6 ' BIKE LANE 10' LAN CENT CENT LAN MATCHL 4" SW-180′ 4" DSY-



Striping Plan 04.dgn



Plan 01.dgn



5/28/2019 N:\E17004 Loch Group - BPS Traffic On-Call 2016\drawings\Hampton\Output\Plan 02.dgn

	XX-XXX-XXXX(XXX BPS Project Number	<u>()</u>
SCALE	CITY OF SAINT LOUIS MISSOURI	
0 20 40 60	DEPARTMENT OF THE PRESIDEN BOARD OF PUBLIC SERVICE ROOM 301 CITY HALL ST. LOUIS, MISSOURI 63103 PHONE (314) 622-4576 FAX (314) 622-4028 XX Chief Engineer	
SODDED BUMPOUT	Chief Engineer Bridge Division	
	HAMPTON AVE CORRIDOR TRAFFIC STUDY CHIPPEWA ST TO GRAVOIS AVE INTERSECTION PLAN	
	Sheet 6	
	 Revision No. Do	
	5/28/2019 Date	

File Number

Appendix G: Conceptual Cost Estimate

HAMPTON	AVE ROAD DIET - STRIPING II	MPROVEMENTS CONCE	EPT		
	-				
			CIT	OF ST. LOUIS	
				6/6/2019	
		a			2027
DESCRIPTION JAMIESON AVENUE INTER	Units	Quantity	U	nitPrice	COST
			<u> </u>		A
REMOVAL OF IMPROVEMENTS	L.S.	1	\$	8,000.00	
PAINTED PAVEMENT	S.F.	6,255	\$	1.15	· · ·
BOLLARDS	EA.	23	\$	350	
			SL	IB TOTAL	\$ 23,243.25
CORRIDOR PAVEMENT MA	ARKINGS				
PAVEMENT MARKING REMOVAL	L.S.	1	\$	13,750	\$ 13,750.00
PAVEMENT MARKINGS	L.S.	1	\$	39,496	\$ 39,496.02
INTERSECTION PLANTERS (12 PER SIGNALIZED INTERSECTION)	EA.	4	\$	4,800	\$ 19,200.00
SIGNS	L.S.	1	\$	8,000	\$ 8,000.00
			SL	IB TOTAL	\$ 80,446.02
NOTTINGHAM AVE SIGNAL PHASIN	G MODIFICATION				
SIGNAL PHASING MODIFICATIONS	L.S.	1	\$	25,000	\$ 25,000.00
			SL	IB TOTAL	\$ 25,000.00
MOBILIZATION					\$ 23,164.07
TRAFFIC CONTROL (7%)					\$ 9,008.25
CONTINGENCY (15%)					\$ 12,066.90
ENGINEERING DESIGN COST (12%)					\$ 20,751.42
LINGINELATING DESIGN COST (12%)					<i>ş</i> 20,751.42
			TOTAL		\$ 193,679.91

DESCRIPTION NOTTINGHAM AVE BUMP-01			CI	TY OF ST. LOUIS		
			C	11 01 31. 20013		
				5/28/2019		
	Units	Quantity		UnitPrice		COST
			1.			
REMOVAL OF IMPROVEMENTS	L.S.	1	\$	12,000		12,000.00
CONCRETE IMPROVEMENTS	L.S.	1	\$	32,032		32,032.00
	L.S.	1	\$	21,870	-	21,870.00
SIGNAL IMPROVEMENTS & PHASING MODIFICATIONS	L.S.	1	\$	61,000		61,000.00
EICHELBERGER ST BUMP-OU	т		S	UB TOTAL	\$	126,902.00
REMOVAL OF IMPROVEMENTS	L.S.	1	Ś	18,000	Ś	18,000.00
CONCRETE IMPROVEMENTS	L.S.	1	\$	37,725	-	37,725.00
DRAINAGE IMPROVEMENTS	L.S.	1	\$	22,121	-	22,120.72
SIGNAL IMPROVEMENTS	L.S.	1	\$	36,000	-	36,000.00
				UB TOTAL	\$	113,845.72
HOLLY HILLS AVE BUMP-OU	JT					
REMOVAL OF IMPROVEMENTS	L.S.	1	\$	9,000	\$	9,000.00
CONCRETE IMPROVEMENTS	L.S.	1	\$	30,539	\$	30,539.00
DRAINAGE IMPROVEMENTS	L.S.	1	\$	25,386	\$	25,386.00
SIGNAL IMPROVEMENTS	L.S.	1	\$	36,000	\$	36,000.00
			S	UB TOTAL	\$	100,925.00
LOUGHBOROUGH AVE BUMP-0	OUT					
REMOVAL OF IMPROVEMENTS	L.S.	1	\$	13,000	\$	13,000.00
CONCRETE IMPROVEMENTS	L.S.	1	\$	35,463	\$	35,463.00
DRAINAGE IMPROVEMENTS	L.S.	1	\$	-	\$	-
SIGNAL IMPROVEMENTS	L.S.	1	\$	36,000	\$	36,000.00
			S	UB TOTAL	\$	84,463.00
JAMIESON AVE INTERSECTIO	DN					
REMOVAL OF IMPROVEMENTS	L.S.	1	\$	14,000.00		14,000.00
CONCRETE IMPROVEMENTS	L.S.	1	\$	25,563		25,563.00
RAPID FLASHING BEACON	L.S.	1	\$	24,000		24,000.00
CONCRETE MEDIANS	S.Y.	40	\$	85		3,400.00
STREET LIGHT RELOCATIONS	EA.	2	\$	2,500	-	5,000.00
SOD	S.Y.	587	\$	15		8,798.30
			S	UB TOTAL	\$	80,761.30
CORRIDOR PAVEMENT MARKI				40 750	<u>^</u>	10 770 00
PAVEMENT MARKING REMOVAL	L.S.	1	\$	13,750		13,750.00
PAVEMENT MARKINGS	L.S.	1	\$	39,496		39,496.02
SIGNS	L.S.	1	\$	8,000		8,000.00
			5	UB TOTAL	\$	61,246.02
					Ś	102,265.75
MOBI <i>LI</i> ZATION (18%) TRAFFIC CONTROL (6%)					\$	34,088.58
CONTINGENCY (15%)					\$ \$	34,088.58 113,628.61
					Ŷ	113,020.01
ENGINEERING DESIGN COST (12%)					\$	98,175.12
	Г		TOTAL		\$	916,301.08



411 N. 10th St., Suite 200 St. Louis, MO 63101