

US 40 Dual Highway Pedestrian Safety Study and Audit





APPENDICES

FINAL

August 28, 2015





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Appendix A: SHA US 40 Pedestrian Safety Improvements Study

US 40 (Dual Highway) **Pedestrian Safety Improvements Study**

Hagerstown, MD

BCS 2007-05II, Task 19





Prepared for:

State Highway

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I. INTRODUCTION

A study was performed along a 2.3 mile segment of US 40 (Dual Highway) in Hagerstown, Maryland to determine if pedestrian safety improvements were needed. This report documents the findings of this study, including evaluation of existing pedestrian accommodations and lighting conditions, field observations, crash data analysis, and identification of potential pedestrian safety improvements.

II. EXISTING CONDITIONS REVIEW

The study corridor is located along US 40 (Dual Highway) in Washington County, Maryland, from Cannon Avenue to Redwood Circle as shown in **Figure 1**. The length of the corridor is 2.3 miles and US 40 is assumed to run in an east-west direction.



Figure 1: Location Map



1. Study Area Roadway

US 40 is classified as an Urban Other Principal Arterial in the 2013 Highway Location Reference (HLR) for Washington County, Maryland. Within Washington County, US 40 runs from the Allegany County line in the west, to the Fredrick County line in the east with interchanges at I-81 and I-70. The study area of US 40 is a 4-lane divided highway (two travel lanes in each direction) and contains fourteen intersections.

The portion of US 40 from Cannon Avenue to Redwood Circle has a significant variation in AADT, as show in **Table 1.** The AADT is higher at the east end, closer to the I-70 interchange, and lower near Cannon Avenue where the roadway is dualized. The speed limit ranges between 25 MPH and 45 MPHs along the corridor as shown in **Table 2**. The 2013 Highway Location Reference Manual pages for this section of US 40 can be found in **Appendix B**.

Section AADT

N. Cannon Ave to End of Couplet 11,540

S. Cannon Ave to End of Couplet Not Available
End of Couplet to Cleveland Ave 25,970

Cleveland Ave to Mt Aetna Rd 38,230

Mt Aetna Rd to Redwood Cir 34,690

Table 1: AADT along the Corridor

Table 2: Speed Limit along the Corridor

Section	Speed Limit
Cannon Ave to just west of Cleveland Ave	25 MPH
Just West of Cleveland Ave to Hagerstown corporate limits	35 MPH
Hagerstown Corporate Limits to Redwood Cir	45 MPH

2. Intersection Traffic Controls

The 14 intersections along this corridor are controlled by various forms of traffic control (signalized, stop controlled, and right-in/right-out). See **Appendix C** for a graphical depiction of the type of traffic control used at each intersection.

Traffic signals control the following intersections along US 40:

- S. Cannon Ave
- N. Cannon Ave
- Cleveland Ave
- Manor Dr/Tracys Ln
- Eastern Blvd
- Mt Aetna Rd West



- Mt Aetna Rd
- Edgewood Dr

Side Street Stop Control with All Turning Movements along US 40:

- Cornell Ave
- Redwood Cir
- Crest View Rd

Side Street Stop Control with Right-in/Right-Out or Partial Access:

- E. Washington St
- Colonial Dr
- Beverly Dr

3. Field Study

A site visit was performed on Wednesday, October 29, 2014. During the site visit, the existing pedestrian accommodations, pedestrian generators (origins and destinations), and existing roadway elements were identified. Proposed improvements were then evaluated alongside existing site conditions and observed pedestrian movements in order to identify potential improvements.

The field review included observations of pedestrian behavior, collection of site photographs and a visual assessment of pedestrian activity, origins and destinations along the corridor. A visual lighting inspection as well as light meter readings was also performed during evening darkness to assess the pedestrian lighting conditions along the corridor at night. A photo log from the field review can be found in **Appendix A**.

4. Pedestrian Accommodations

Pedestrian accommodations along this corridor include sidewalk, crosswalks, ADA compliant ramps, and Accessible Pedestrian Signals/Countdown Pedestrian Signals (ASP/CPS). See **Appendix C, Figure C-1** and **Figure C-2** for a graphical depiction of the existing pedestrian accommodations along the corridor. **Tables 3** and **4** depict the sections of the corridor that have sidewalk and the sections that do not. **Table 5** shows the existing pedestrian crosswalk and ramp accommodations at the intersections along the corridor.

Table 3: Sidewalk along the South Side of Eastbound US 40

Roadway Sections (South side of US 40 eastbound)		No Sidewalk
S. Cannon Ave to McDonalds Parking Lot		
McDonalds Parking Lot to S. Cleveland Ave		х
S. Cleveland Ave to Colonial Dr		
Colonial Dr to 7-Eleven by S. Edgewood Dr		x
7-Eleven by S. Edgewood Dr to just East of Edgewood Dr	х	_
Just East of Edgewood Dr to Redwood Cir		x



Table 4: Sidewalk along the North Side of Westbound US 40

Roadway Sections (North side of US 40 westbound)	Sidewalk	No Sidewalk
N. Cannon Ave to N. Eastern Blvd	х	
N. Eastern Blvd to Mt Aetna Rd		х
Mt Aetna Rd to United Center (Re/Max Realty) Entrance	х	
United Center (Re/Max Realty) Entrance to just west of Crest View Rd		х
Just West of Crest View Rd to just East of Redwood Cir	х	

Table 5: Pedestrian Crossing Accommodations at US 40 Intersections

							No Pedestrian
		APS		Missing	ADA	Non ADA	Crossing
Intersections	APS/CPS	Only	Crosswalks	Ramps	Ramps	Ramps	Accommodation
S. Cannon Ave			All Legs	2		6	
N. Cannon Ave			All Legs			8	
E. Washington St			1 Leg	1		1	
Cleveland Ave			1 Leg			6	
Manor Dr/ Tracys Ln	2 Legs		3 Leg		3	3	
Eastern Blvd		1 Leg	1 Leg			2	
Colonial Dr							х
Cornell Ave							х
Mt Aetna Rd W							х
Mt Aetna Rd			1 Leg		4		
Beverly Dr							х
Crestview Rd							х
Edgewood Dr	4 Legs		All Legs		8		
Redwood Cir			1 Leg		2		

5. Unprotected Pedestrian Movements

Pedestrian movements at unprotected locations (including mid-block crossing, walking on the roadway shoulder, etc). were observed during the field study and locations were discussed during the coordination meeting held November 19, 2014 with the Hagerstown MPO. The team members present during the meeting discussed locations where they had observed inappropriate or potentially dangerous pedestrian activity in addition to identifying pedestrian origin/destinations along the corridor.

Most gaps in pedestrian connectivity showed a continued, unprotected usage by pedestrians. During the site visit, pedestrians were observed walking along the shoulder where there was no sidewalk, crossing mid-block and in some cases impeding traffic



flow. See Appendix C for a graphical inventory of the observations of unprotected pedestrian movements.

Pedestrians were observed at the following locations (The numbers below also correspond to the numbers in **Appendix C Figures C-1 and C-2**):

- 1) A pedestrian crossed US 40 EB mid block, forcing traffic to stop (she got tired of waiting and then walked out in traffic). She was going from the south side of US 40 EB to the McDonald's parking lot.
- 2) An elderly pedestrian with a small hand cart walked out in the road due to the lack of ramps on the NW corner of the E. Washington St intersection instead of using the sidewalk.
- 3) There is a worn trail between the end of the sidewalk near the Best Western and the McDonalds on the south side of US 40 and pedestrians were observed walking along the shoulder.
- 4) Multiple pedestrians crossed US 40 at Cleveland Street where there are no marked crosswalks.
- 5) Pedestrians crossed the bridge over Antietam Creek in the right travel lane of US 40 westbound because there are no shoulders and no sidewalk available on the north side of the roadway. These pedestrians continued crossing Eastern Boulevard where there are no marked crosswalks.
- 6) Pedestrians observed walking along the shoulder on the south side of US 40 from Colonial Drive to Mt Aetna Road.
- 7) Multiple pedestrians observed crossing US 40 at Mt Aetna Rd and a path is worn along the north side of US 40 between the two legs of Mt Aetna Road.
- 8) There is a worn path along the south side of US 40 between the 7-Eleven near Edgewood Drive and Foxshire Plaza. Pedestrians were also observed walking along the shoulder of US 40 EB where it was wide enough along this section of US 40.
- 9) There is a worn path along the south side of US 40 between S. Edgewood Dr and the parking lot for the Med Express.

6. Origins and Destinations of Pedestrians

Major origin and destination generators were identified along the corridor. Some of the key origin/destinations are shown in **Table 6**. The fast-food restaurants along the corridor are also key origin/destinations. A more comprehensive graphical depiction of the origin/destinations along the corridor can be found in **Appendix C** in **Figures C-1** and **C-2**.



Origin/Destination Description/ Reason it is a Major Pedestrian Generator Hagerstown Shopping Center Aldi(discount grocery store), Super Shoes, Family Dollar Largest bar/nightclub in the county Cancun Cantina **Bradford Apartments** Low income housing with a high immigrant population El Eden (Latino Grocery) **Grocery Store** Shopping Center with Dollar General Foxshire Plaza Meritus Health Hospital Hagerstown Commons Plaza Shopping Center with Martin's

Table 6: Key Origins and Destinations along the Corridor

The existing pedestrian accommodations do not currently connect all of the key origin/destinations along the corridor. These gaps in the pedestrian accommodations network are shown in **Appendix C, Figures C-1** and **C-2**.

7. Transit

The transit/county commuter bus routes that run along the corridor are flag-down routes, which mean that a pedestrian can flag down a public transit bus at any point along the corridor from Cannon Avenue to Mt Aetna Road. This makes it difficult to draw any definitive conclusions about the impact of transit operations along the corridor on pedestrian safety.

8. Lighting Conditions

During the site visit, a visual lighting inspection was conducted in evening darkness along the entire corridor and light readings were taken at all intersections as well as at multiple locations along the corridor. The recommended pedestrian lighting level for non-commercial areas between intersections is 0.1 foot-candles (fc) and 0.2 fc for commercial areas. The sections of US 40 between intersections that met the above recommendations were from Cannon Ave to Cleveland St and from Redwood Dr to Redwood Cir. The rest of the midblock sections along the corridor had lower than recommended lighting levels. See **Appendix D** for a graphical depiction of the existing lighting conditions. **Table 7** shows the observed and recommended lighting levels at all of the intersections along the corridor.



Table 7 – Existing and Recommended Intersection Pedestrian Lighting Levels

Intersection	Functional Classification	Pedestrian Classification	Observed Lighting Levels	IESNA Recommended Lighting Levels
N. Cannon Ave	Major/Local	High	0.4 fc	2.6 fc
S. Cannon Ave	Major/Local	High	0.4 fc	2.6 fc
E. Washington St	Major/Local	Medium	Dark	2.0 fc
Cleveland Ave	Major/Collector	Medium	1.3 fc and 0.1 fc	2.2 fc
Tracys Ln and Manor Dr	Major/Local	Medium	Dark	2.0 fc
Eastern Blvd	Major/Collector	Medium	0.1 fc	2.2 fc
Colonial Dr	Major/Local	Medium	Dark	2.0 fc
Cornell Ave	Major/Local	Medium	Dark	2.0 fc
Mt Aetna Rd W.	Major/Collector	Medium	0.1 fc	2.2 fc
Mt Aetna Rd	Major/Collector	Medium	2.5 fc	2.2 fc
Beverly Dr.	Major/Local	Medium	Dark	2.0 fc
Crestview Rd	Major/Local	Medium	Dark	2.0 fc
Edgewood Dr	Major/Collector	High	0.1 fc	2.4 fc
Redwood Cir	Major/Local	Medium	Dark	2.0 fc

Each location was categorized into the Pedestrian Conflict area classifications outlined in the MDSHA Lighting Guidelines. These classifications are:

High:

Areas with significant numbers of pedestrians expected to be on the sidewalks or crossing the streets during darkness. Examples are downtown retail areas, near theaters, concert halls, stadiums, and transit terminals.

Medium:

Areas where fewer pedestrians use the street at night. Typical are downtown office areas, blocks with libraries, apartments, neighborhood shopping, industrial, older city areas, and streets with transit lines.

Low:

Areas with very low volumes of night pedestrian usage. These can occur in any of the cited roadway classifications but may be typified by suburban single family streets, very low density residential developments, and rural or semi-rural areas.



III. Crash Data Analysis

Crash data for January 1, 2009 through September 30, 2014 (approximately 5 ¾ years) was provided by Maryland State Highway Administration (MDSHA), District 6 Traffic. This data was used to analyze the crash type (**Figure 2**) and probable causes of crashes (**Figure 3**) in multiple sections along the corridor. It was also used to identify probable causes of pedestrian crashes along the corridor. There were a total of 383 crashes with 14 involving pedestrians. The crash rate per 100 million vehicle miles traveled (100 MVMT) was significantly higher along the study corridor compared to the statewide average. In **Table 8** and **Table 9** below, the values that are in bold and italicized are significantly higher than the statewide average rate. See **Appendix F-1, F-2, and F-3** for a detailed breakdown of the probable causes reported for the Rear End, Other and Pedestrian crashes respectively.

Table 8 – Crash Severity (Crashes per 100 MVMT)¹

	Study Rate	Statewide Rate
Fatal	2.4	1.2
Injury	92.0	80.1
Property Damage	131.5	114.6
Total Crashes	225.8	195.9

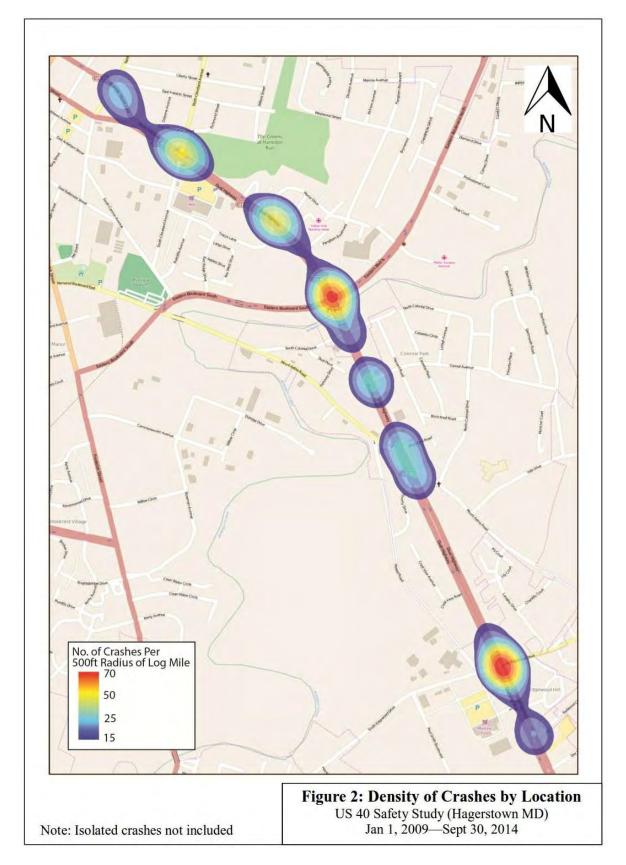
Table 9 - Crash Type (Crashes per 100 MVMT)¹

	Study	Statewide
Opposite Direction	3.5	3.1
Rear End	102.0	77.8
Sideswipe	30.0	25.1
Left Turn	13	18
Angle	34.2	34.4
Pedestrian	8.3	5
Parked Vehicle	0.6	0.9
Fixed Object	18.9	21.1
Other	15.9	3.4

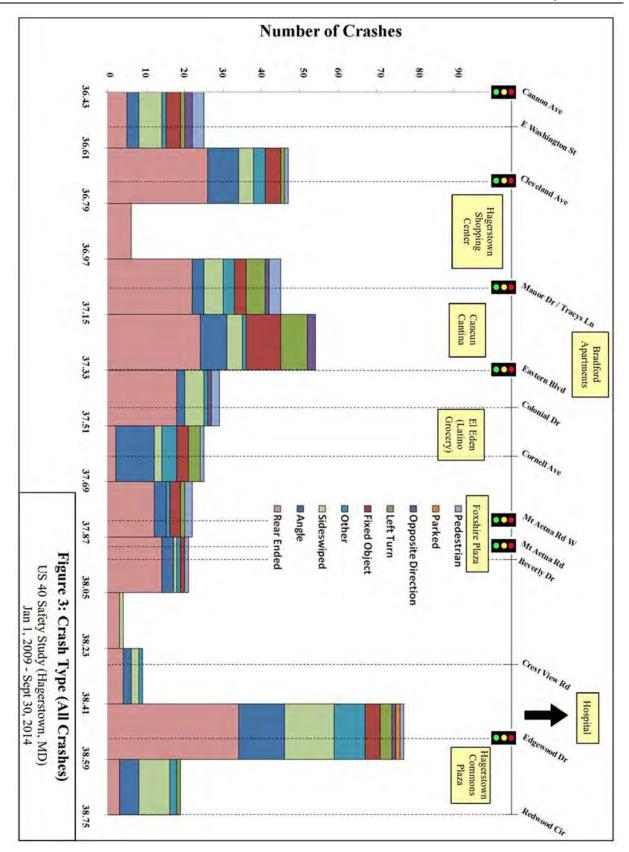
11

¹ The values shown in Table 8 and Table 9 vary slightly from the values found in Appendix E, due to the inclusion in the initial crash data report of four crashes outside of the study corridor. These crashes were removed from the analysis.











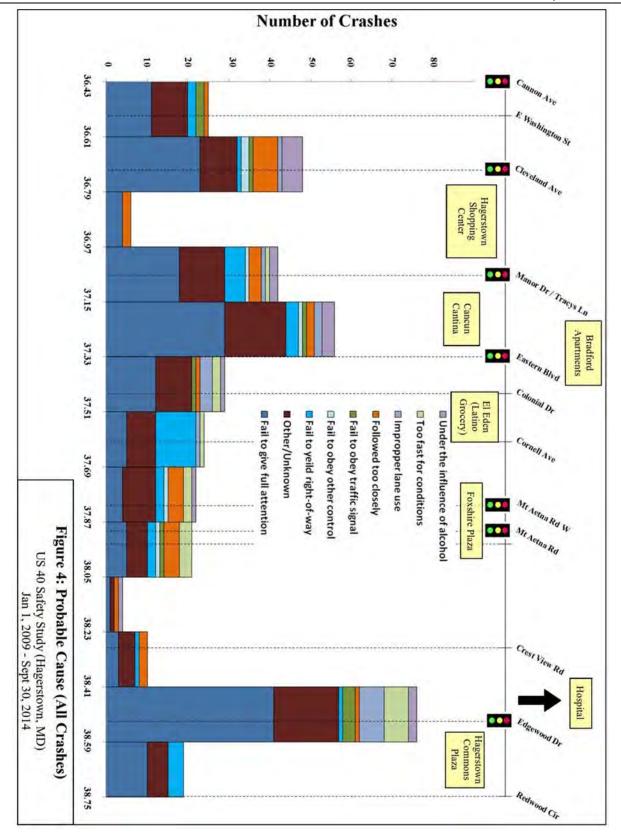




Table 10 shows a breakdown of the pedestrian crashes with the distribution of severity, contributing factors, and probable causes. The two most frequent contributing factors were nighttime/darkness and the use of alcohol. The most commonly reported probable cause was Other/Unknown. The majority of the pedestrian crashes involved the pedestrian being in the roadway as well as the involvement of alcohol or drugs/medication in the pedestrian or the driver. Of the three fatal pedestrian crashes, all involved the pedestrians being in the roadway, two involved alcohol in the pedestrian's system, and two were at night. In all three pedestrian fatalities, the pedestrians were reported as at fault.

Contributing Factors Severity **Probable Cause** 13 Total 9 Other/Unknown Fatal 3 23% Night 69% 69% 3 1 Injury 10 77% Rain/Snow 23% Rain/Snow 8% 5 **Under Influence of Drugs** Prop. Damage 0 0% Alcohol 38% 15% Illegally in Roadway Intersection 0 8%

Table 10 – Pedestrian Crash Summary $(1/1/2009 - 9/30/2014)^2$

Table 11 is a summary of all crashes along the corridor between Jan 1, 2009 and Sept 30, 2014. The most frequently reported probable cause was failure to give full time and attention (44% of total crashes).

Table 11 – Probable Cause (All Crashes) (1/1	1/2009 - 9/30/2014) ²
------------------------------------	-------------------	----------------------------------

Probable Cause			
Fail to give full attention	169	44%	
Other/Unknown	95	25%	
Fail to yield right-of-way	32	8%	
Fail to obey other controls	6	2%	
Fail to obey traffic signal	8	2%	
Followed too closely	29	8%	
Improper Lane use	14	4%	
Too fast for conditions	15	4%	
Under to influence of alcohol	15	4%	

IV. Proposed Improvements

1. Proposed Pedestrian Accommodations

² The values shown in Table 10 and Table 11 also vary slightly from the values found in Appendix E, due to the inclusion in the initial crash data report of four crashes outside of the study corridor. These crashes were removed from the analysis.



After analyzing the existing pedestrian facilities, observed pedestrian movements, and crash data reports several conceptual pedestrian improvements were proposed. See **Appendix G-1** and **G-2** for diagrams of the improvement concepts.

Pedestrian accommodations were recommended where pedestrian movements were observed and there are currently no pedestrian accommodations. **Table 12** is a summary of the number or quantity of proposed improvement by type. APS/CPS was proposed at all existing and proposed crosswalks. New ADA compliant ramps were proposed where missing along the corridor to allow all pedestrians to access the sidewalk and crosswalks. Signs were proposed where there are unexpected or free right turns and where there are sight distance concerns. Marked crosswalks are proposed at all intersections to more safely cross US 40 and the side streets. Sidewalk was proposed where there are currently gaps in pedestrian connectivity, however there are some challenges to installing certain sections of sidewalk as discussed both below and earlier in the report.

Item Quantity

Additional APS/CPS 8 EA

Additional Crosswalks 18 EA

New Sidewalk Installation 9200 LF

New Sign Assemblies (including sign, supplemental plaque and support) 14 EA

New ADA Compatible Ramp with Detectible Warning Surface 40 EA

Table 12 – Estimated Improvement Quantities

2. Potential Conflicts

The topography along this segment of US 40 is rolling with some areas that have dropoffs and ditches where proposed sidewalk is recommended. Potential conflicts with installing proposed sidewalk are identified below:

- There appears to be sufficient right-of-way along this section of US 40 to accommodate sidewalks in most areas, however a formal right-of-way investigation is recommended.
- Along eastbound US 40, between just east of the McDonald's parking lot and Cleveland Street, there is a steep grade at the end of the shoulder that is protected with w-beam Traffic Barrier. Widening in this section could be expensive and/or challenging.
- The area along US 40 eastbound between Colonial Drive and Cornell Avenue has a significant drainage ditch and a steep grade.



- There is a culvert and steep slope on the south side of US 40 eastbound just west of Covenant Life Church. There may also be limited right-of-way on the south side of US 40 through this section of roadway.
- Along the southside of US 40 between Beverly Dr and the sidewalk in front of the 7-Eleven near Edgewood Dr there is a drainage ditch.

V. Conclusion

There are a number of potential improvements which might be implemented along this corridor in order to improve the safety and functionality for pedestrians. These include:

- Facilitate pedestrian mobility along the corridor by installing sidewalks and crosswalks, particularly in areas where there is existing pedestrian activity. A more detailed investigation of right-of-way and utility impacts will be required for this effort.
- MDSHA and local stakeholders should investigate the feasibility of upgrading pedestrian lighting along the corridor, particularly in high conflict areas.
- Consider performing a more detailed investigation of the vehicular crashes along the corridor, particularly the elevated rear end crash rate.

Appendix A: Photo Log

WB US 40 Facing EB Towards Intersection with E. Washington St $\,$



WB US 40 Facing WB towards Intersection with E. Washington St



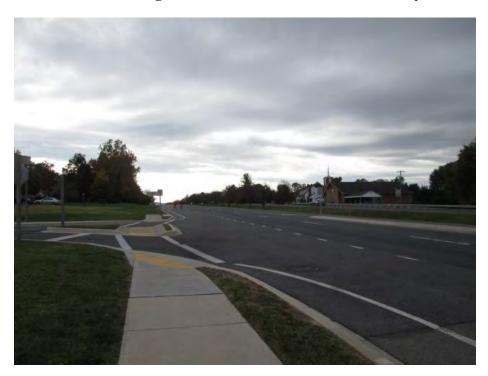
WB US 40 Facing WB towards Intersection with N. Cleveland St



WB US 40 Facing EB towards Intersection with Manor Dr / Tracys Ln $\,$



WB US 40 Facing EB towards Intersection with Beverly Dr



WB US 40 Facing WB towards Intersection with Cornell Ave



WB US 40 Facing EB towards Intersection with Mt Aetna Rd



WB US 40 Facing WB towards Intersection with Crestview Rd



WB US 40 Facing EB towards Intersection with N. Edgewood Dr



WB US 40 Facing WB towards Intersection with N. Edgewood Dr



WB US 40 Facing EB towards Intersection with Redwood Cir



WB US 40 Facing WB towards Intersection with Redwood Cir



EB US 40 Facing WB towards Intersection with N. Cannon Ave



 $EB\ US\ 40\ Facing\ EB\ towards$ Intersection with N. Cleveland St



EB US 40 Facing EB towards Intersection with Manor Dr / Tracys Ln



 $EB\ US\ 40\ Facing\ WB\ towards\ Intersection\ with\ Manor\ Dr\ /\ Tracys\ Ln$



EB US 40 Facing WB towards Intersection with N. Eastern Blvd



 $EB\ US\ 40\ Facing\ EB\ towards\ Intersection\ with\ Colonial\ Dr$



EB US 40 Facing WB towards Intersection with Cornell Ave



EB US 40 Facing EB towards Intersection with Mt Aetna Rd



EB US 40 Facing EB towards Intersection with Mt Aetna Rd



EB US 40 Facing WB towards Intersection with Crestview Rd



EB US 40 Facing EB towards Intersection with N. Edgewood Dr



EB US 40 Facing WB towards Intersection with N. Edgewood Dr



EB US 40 Facing EB towards Intersection with Redwood Cir



Appendix B: Highway Location Reference

STATE HIGHWAY ADMINISTRATION OF MARYLAND HIGHWAY INFORMATION SERVICES DIVISION DATA SUPPORT GROUP

STATE HIGHWAY LOCATION REFERENCE

COUNTY: WASHINGTON

DISTRICT: 6

DATE: 12/31/13

ROUTE NUMBER: US 40 CONTINUED

INVENTORY DIRECTION: EAST

ROUTE NAME: WASHINGTON ST

ROUTE NAME:	WASHINGTON ST								
STATE SYSTEM	FUNCTIONAL CLASS	MEDIAN TYPE	ACCESS CONTROL	NHS	MILEPOINT	MILEPOINT DESCRIPTION	MARKED LANES	SURFACE WIDTH/TYPE*	AADT
STATE SECONDARY	U URB OPA	NONE (UNDIV)	NONE	NHS	35.690 MU1610	MCPHERSON ST	3	36I	11,540
					35.700	R/R #CSX 831 843 Y			
					35.700	STRUC #21066			
					35.710	R/R #CR 534 896 E			
					35.710	STRUC #21056			
					35.730		2	24I	
					35.760 MU2470	WALNUT ST			
					35.760	TRAFFIC SIGNAL			
					35.830 MU2030	PROSPECT ST			
					35.830	TRAFFIC SIGNAL			
					35.833	THE PRESBYTERIAN CHURCH			
					35.930 MU1230	JONATHAN ST			
					35.930 MU2301	SUMMIT AVE			
					35.930	TRAFFIC SIGNAL			
					35.945	WASHINGTON CO COURTHOUSE			
					35.970 MU5170	ALLEY 17			
					35.970 MU565	COURT PL			
					36.007	TRAFFIC SIGNAL			
					36.007	PED X-WALK			
					36.020 MU9110	HAYES ALLEY			
					36.020 MU2130	ROCHESTER PL			
					36.080 MU2005	POTOMAC ST			
					36.080	TRAFFIC SIGNAL			
					36.130 MU2055	RENAISSANCE WAY			
					36.230 MU1431	N LOCUST ST			
					36.230	TRAFFIC SIGNAL			
					36.230 MU1430	S LOCUST ST			
					36.320	HAGERSTOWN CHURCH OF THE BRETHREN			
					36.330 MU1760	MULBERRY AVE			
					36.330	TRAFFIC SIGNAL			
		Pogin Drois	act Linaita		36.375 MU5240	ALLEY 24			
		Begin Proje	ect Limits		36.430 MU331	N CANNON AVE			
				,	36.430 MU330	S CANNON AVE			
					36.430	TRAFFIC SIGNAL			

STATE HIGHWAY ADMINISTRATION OF MARYLAND HIGHWAY INFORMATION SERVICES DIVISION DATA SUPPORT GROUP

STATE HIGHWAY LOCATION REFERENCE

COUNTY: WASHINGTON

DISTRICT: 6

DATE: 12/31/13

ROUTE NUMBER: US 40 CONTINUED

INVENTORY DIRECTION: EAST

ROUTE NAME: WASHINGTON ST

STATE SYSTEM	FUNCTIONAL CLASS	MEDIAN TYPE	ACCESS CONTROL	NHS	MILEPOINT	MILEPOINT DESCRIPTION	MARKED LANES	SURFACE WIDTH/TYPE*	AAD
STATE SECONDARY	U URB OPA	NONE (UNDIV)	NONE	NHS	36.460 MU5220	ALLEY 22	2	24I	11,540
		POSITIVE BARRIER			36.530		4	48I	25,97
NAME: DUAL HWY					36.530	END COUPLET			
		UNPROTECTED			36.540				
					36.540 MU2510	E WASHINGTON ST			
					36.660	SPUR TO S CLEVELAND AVE			
					36.680	SPUR FR MD 64			
					36.710				38,230
					36.710 MU480	S CLEVELAND AVE			
					36.710 MD 64	N CLEVELAND AVE			
					36.710	TRAFFIC SIGNAL			
					36.750	SPUR FR S CLEVELAND AVE			
					36.750	SPUR TO MD 64			
					36.800	BEGIN BIKE ROUTE			
					36.810	SPEED LIMIT 35 MPH			
					36.945	DIRECTIONAL CROSSOVER			
					36.980	STRUC #21013 HAMILTON RUN			
					37.050 MU1505	MANOR DR			
					37.050 MU2370	TRACYS LA			
					37.050	TRAFFIC SIGNAL			
					37.170	DIRECTIONAL CROSSOVER			
		POSITIVE BARRIER			37.265				
					37.330 MU705	EASTERN BLVD			
					37.330	TRAFFIC SIGNAL			
					37.350	BEGIN BRIDGE			
					37.370	STRUC #21014 ANTIETAM CREEK			
					37.370	STRUC #21158 ANTIETAM CREEK			
		UNPROTECTED			37.390				
					37.390	END BRIDGE			
		POSITIVE BARRIER			37.440				
					37.440 CO321	S COLONIAL DR			
					37.440 CO1291	N COLONIAL DR			
					37.500	SPEED LIMIT 45 MPH			
	R				37.550	OUT CORP LMTS HAGERSTOWN			
		UNPROTECTED			37.600				

STATE HIGHWAY ADMINISTRATION OF MARYLAND HIGHWAY INFORMATION SERVICES DIVISION DATA SUPPORT GROUP

STATE HIGHWAY LOCATION REFERENCE

COUNTY: WASHINGTON

DISTRICT: 6

DATE: 12/31/13

ROUTE NUMBER: CONTINUED US 40

INVENTORY DIRECTION: EAST

DUAL HWY ROUTE NAME:

STATE SYSTEM		FUNCTIONAL CLASS	MEDIAN TYPE	ACCESS CONTROL	NHS	MILEPOINT	MILEPOINT DESCRIPTION	MARKED LANES	SURFACE WIDTH/TYPE*	AAD
ΓATE SECONDARY	R	URB OPA	UNPROTECTED	NONE	NHS	37.600 CO391	CORNELL AVE	4	48I	38,23
						37.790	CROSSOVER			
						37.810				34,69
					37.810 CO937	MT AETNA RD W				
						37.810 OP415	TULSA LA			
						37.810	TRAFFIC SIGNAL			
			CURBED			37.820				
			UNPROTECTED			37.890				
						37.890 CO310	MT AETNA RD			
						37.890	DIRECTIONAL CROSSOVER			
						37.890	TRAFFIC SIGNAL			
						37.910	SPUR TO MT AETNA RD			
						37.930 CO318	BEVERLY DR			
						37.930	DIRECTIONAL CROSSOVER			
					38.057	COVENANT LIFE CHURCH				
				38.270		5	60I			
						38.270 CO395	CREST VIEW RD			
						38.270	CROSSOVER			
	Į	J				38.400	IN CORP LMTS HAGERSTOWN			
						38.510		4	48I	
						38.510 MU710	EDGEWOOD DR			
						38.510	TRAFFIC SIGNAL			
						38.620	DIRECTIONAL CROSSOVER			
						38.640	DIRECTIONAL CROSSOVER			
			End Proje	ct Limits I		38.750 CO652	REDWOOD CIR			
						38.750	CROSSOVER			
			POSITIVE BARRIER			38.950				
	R					39.050 CO398	DAY RD			
						39.050 CO787	EMMERT RD			
						39.050	OUT CORP LMTS HAGERSTOWN			
						39.050	DIRECTIONAL CROSSOVER			
	ι	J				39.220	IN CORP LMTS HAGERSTOWN			
						39.257	CROSSOVER			
	R	1				39.270	OUT CORP LMTS HAGERSTOWN			
						39.340 MU 25	ALL STAR CT			

Appendix C: Existing Pedestrian Accommodations

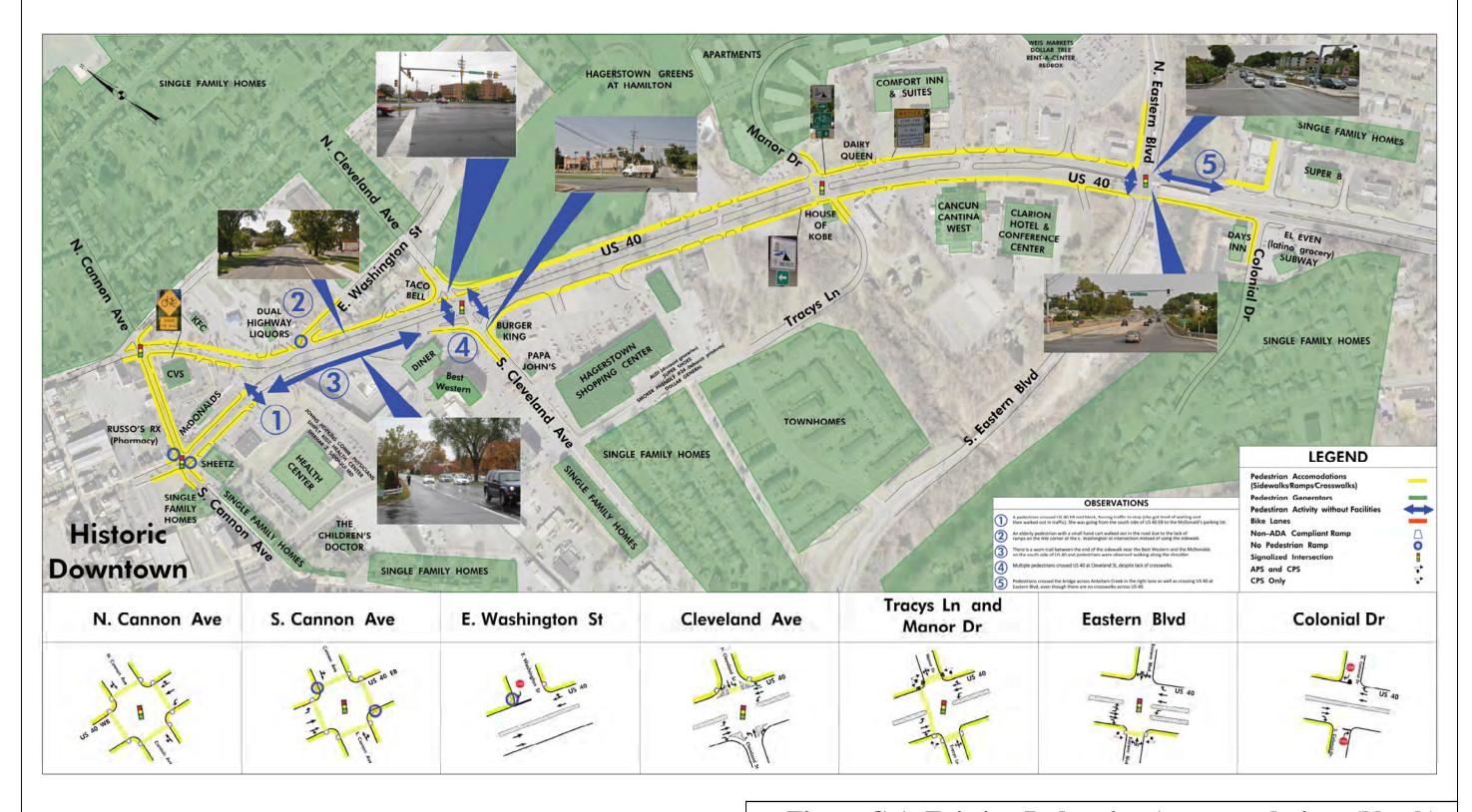


Figure C-1: Existing Pedestrian Accommodations (North)
US 40 Safety Study (Hagerstown, MD)

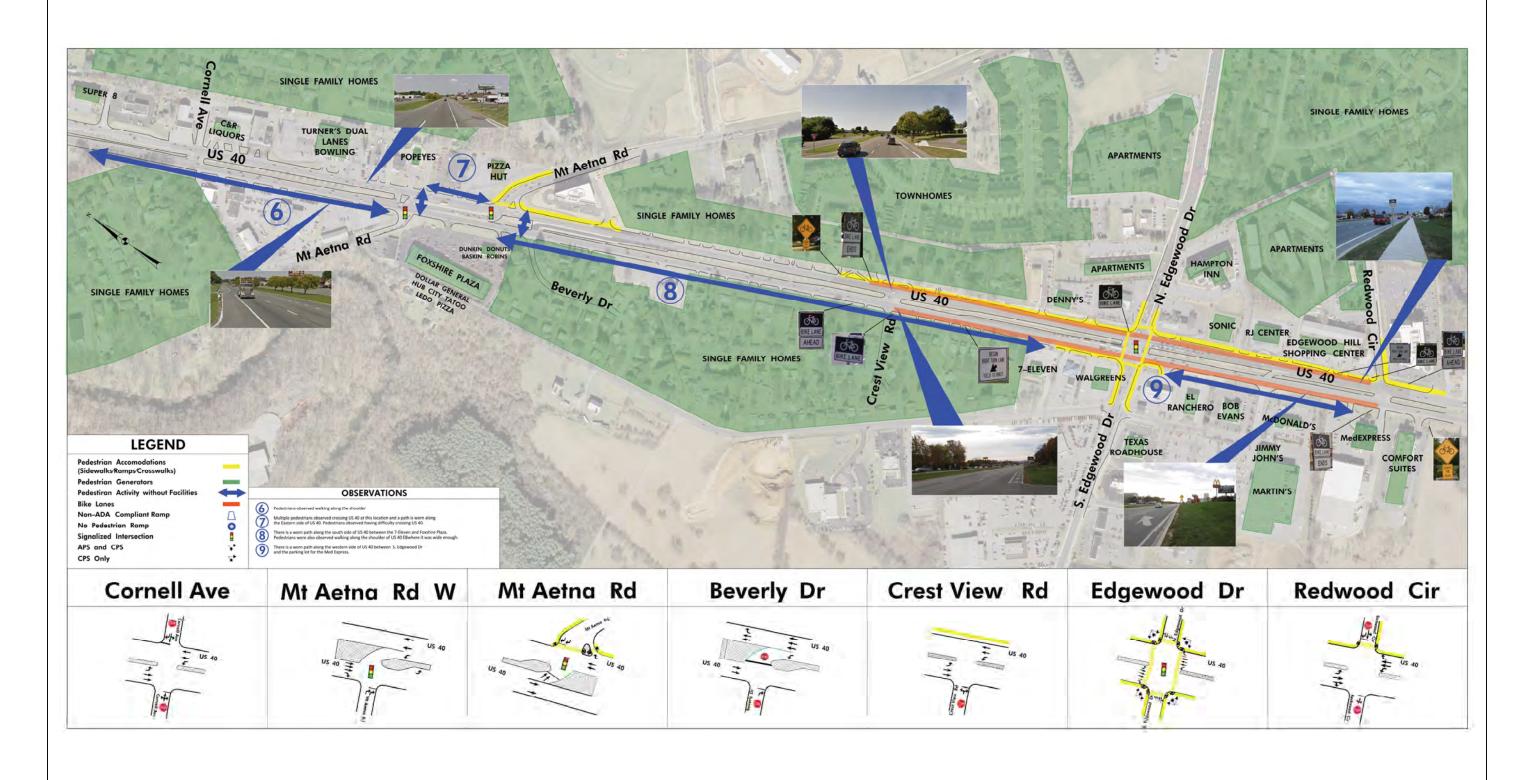


Figure C-2: Existing Pedestrian Accommodations (South)
US 40 Safety Study (Hagerstown, MD)

Appendix D: Lighting Conditions

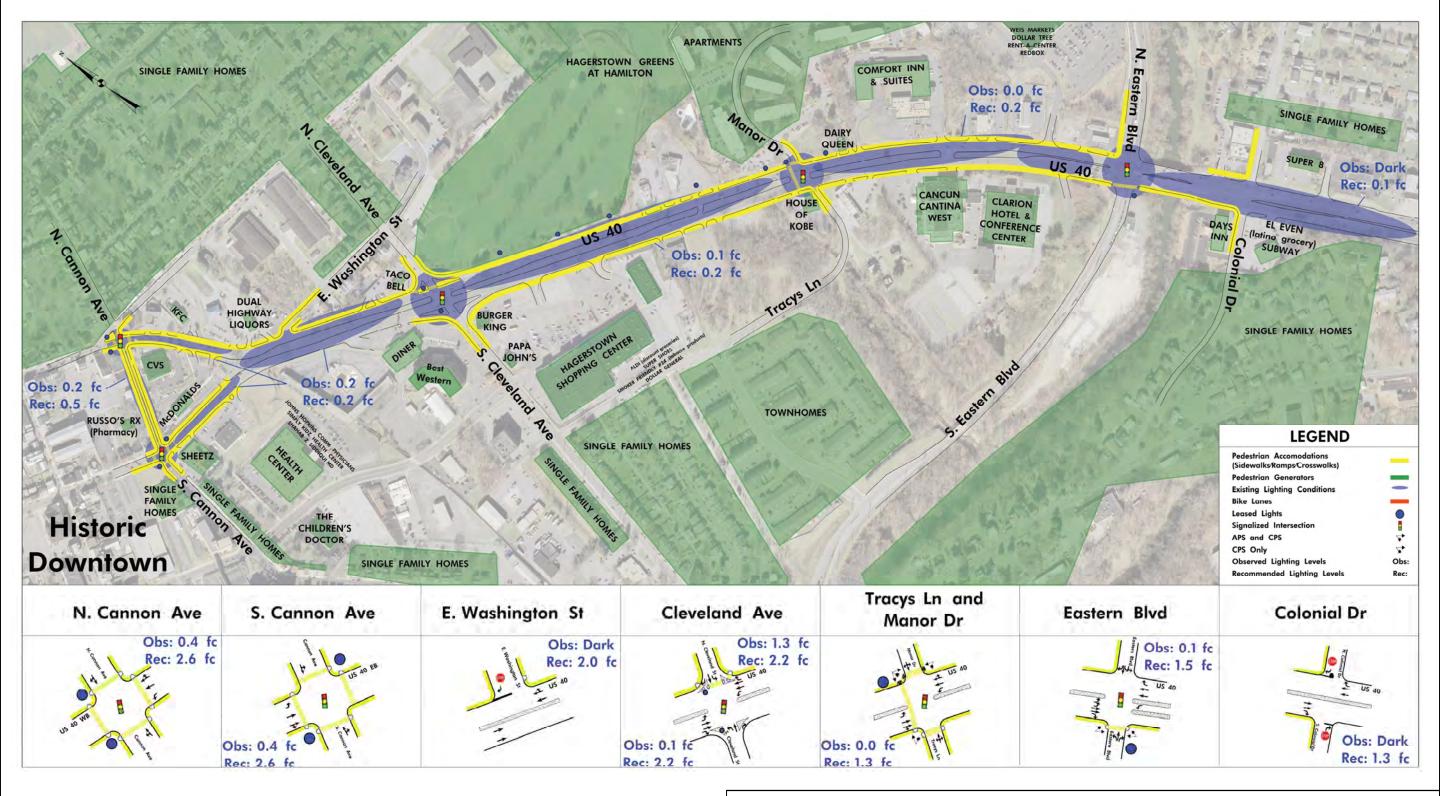
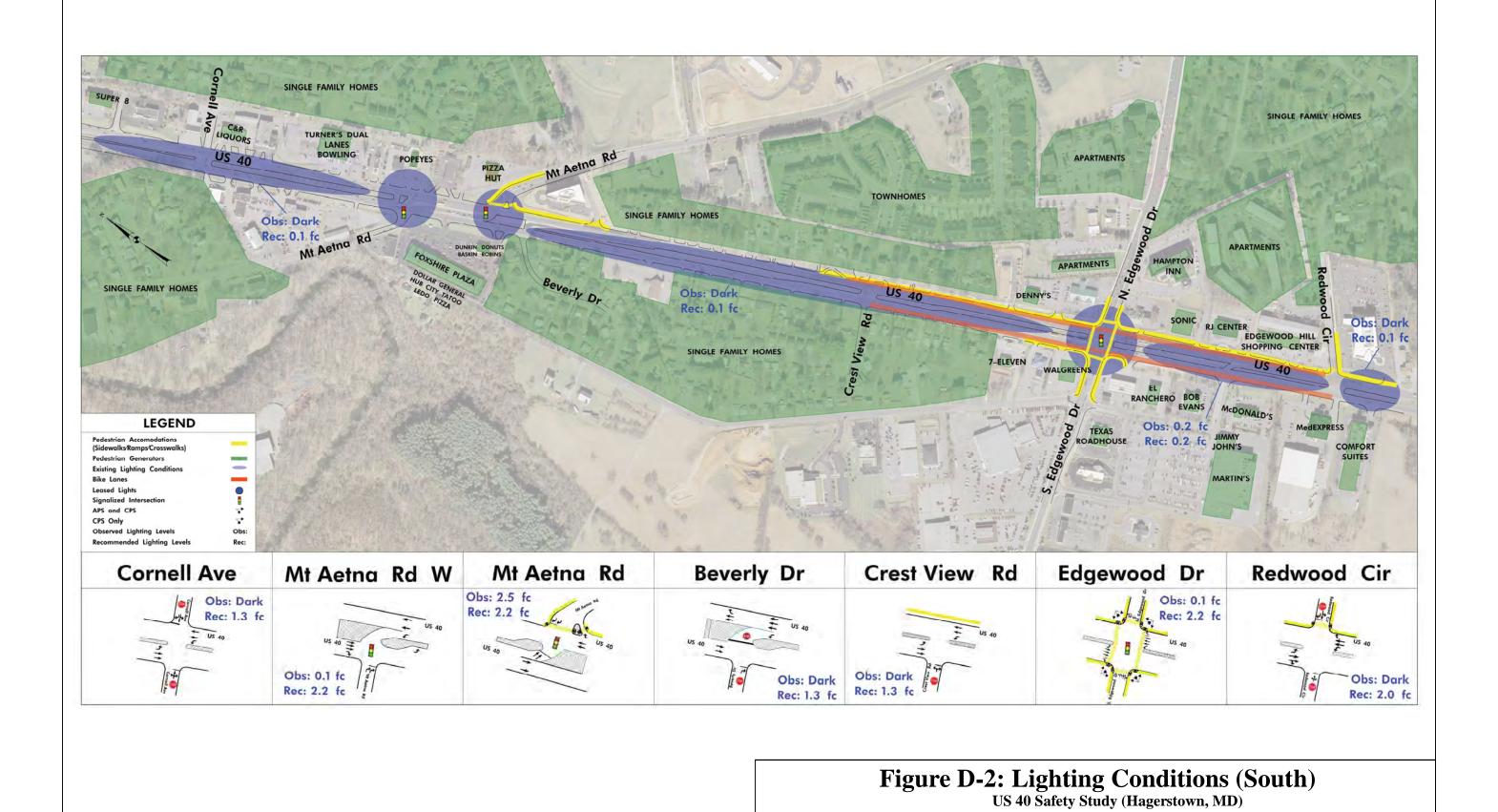
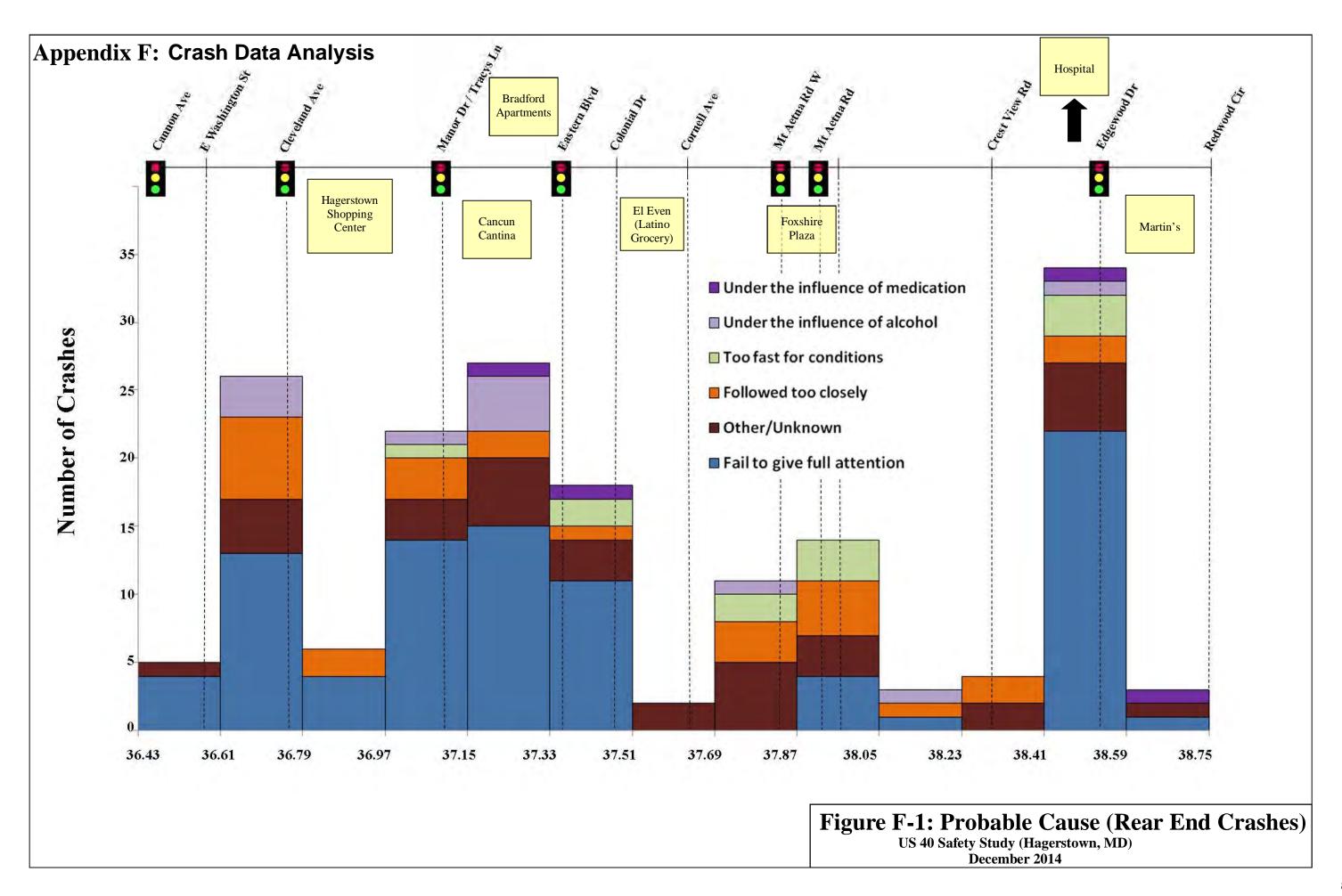
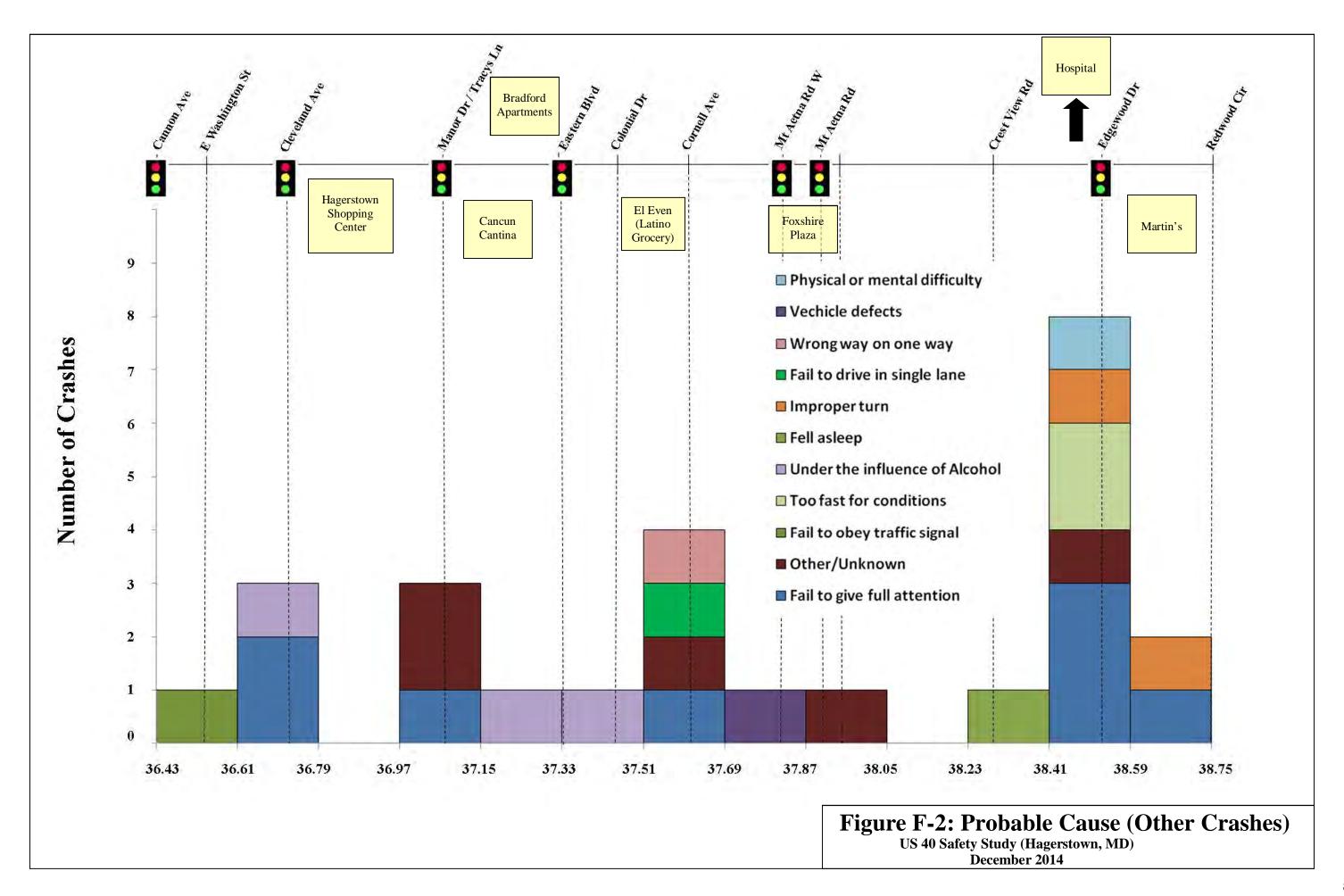
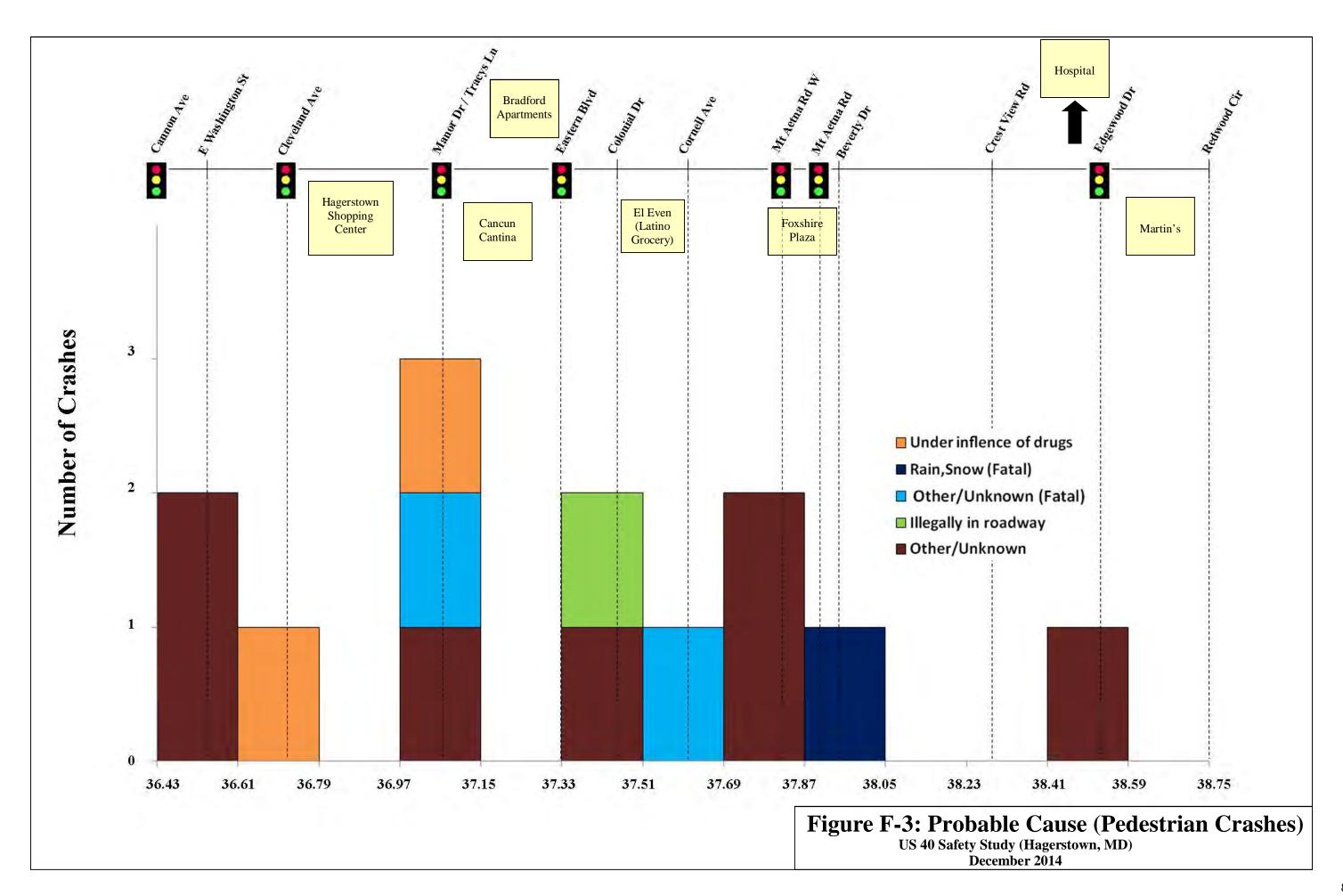


Figure D-1: Lighting Conditions (North)
US 40 Safety Study (Hagerstown, MD)









Appendix G: Improvement Concepts

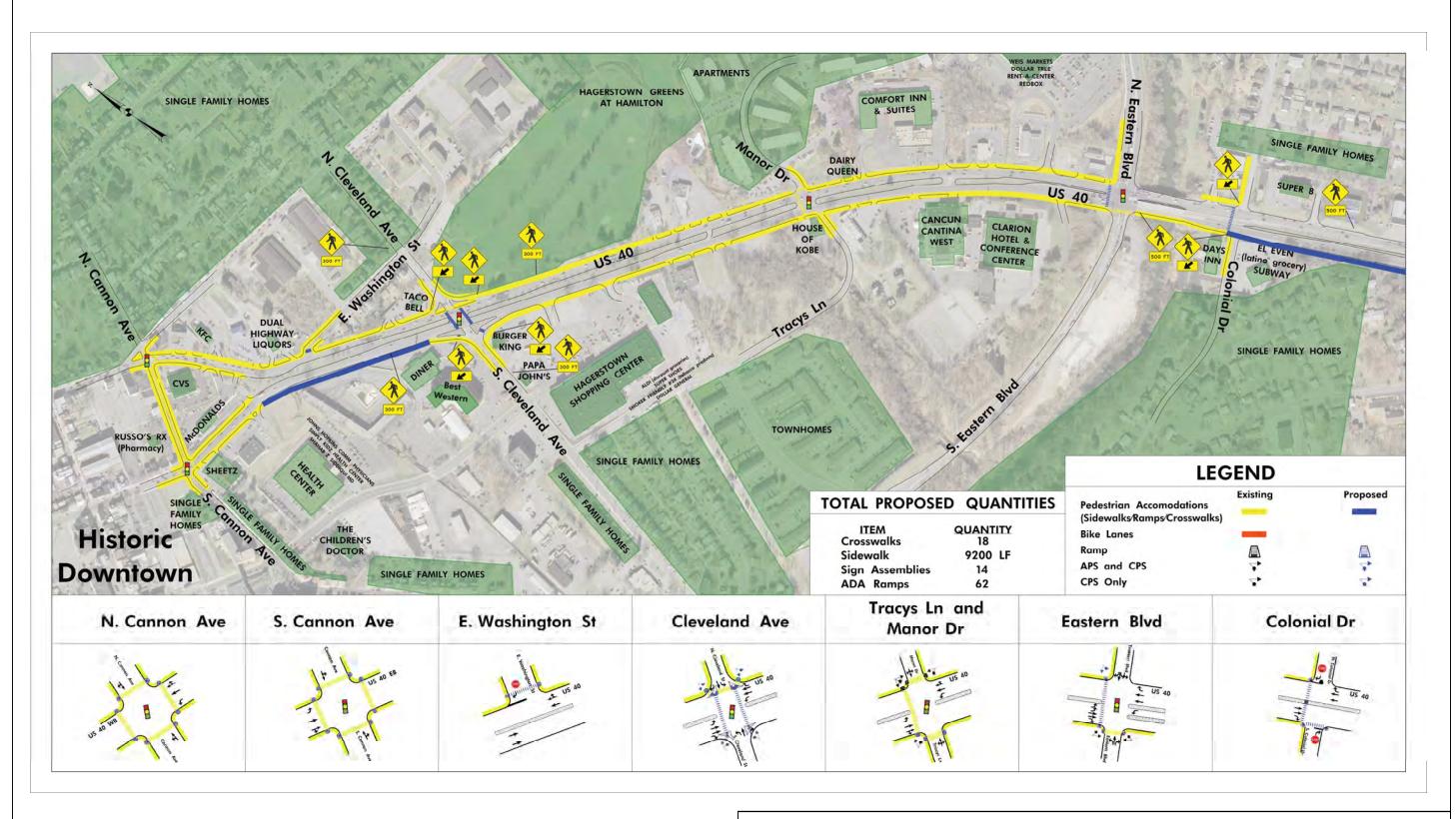


Figure G-1: Proposed Pedestrian Accommodations (North)

US 40 Safety Study (Hagerstown, MD) December 2014

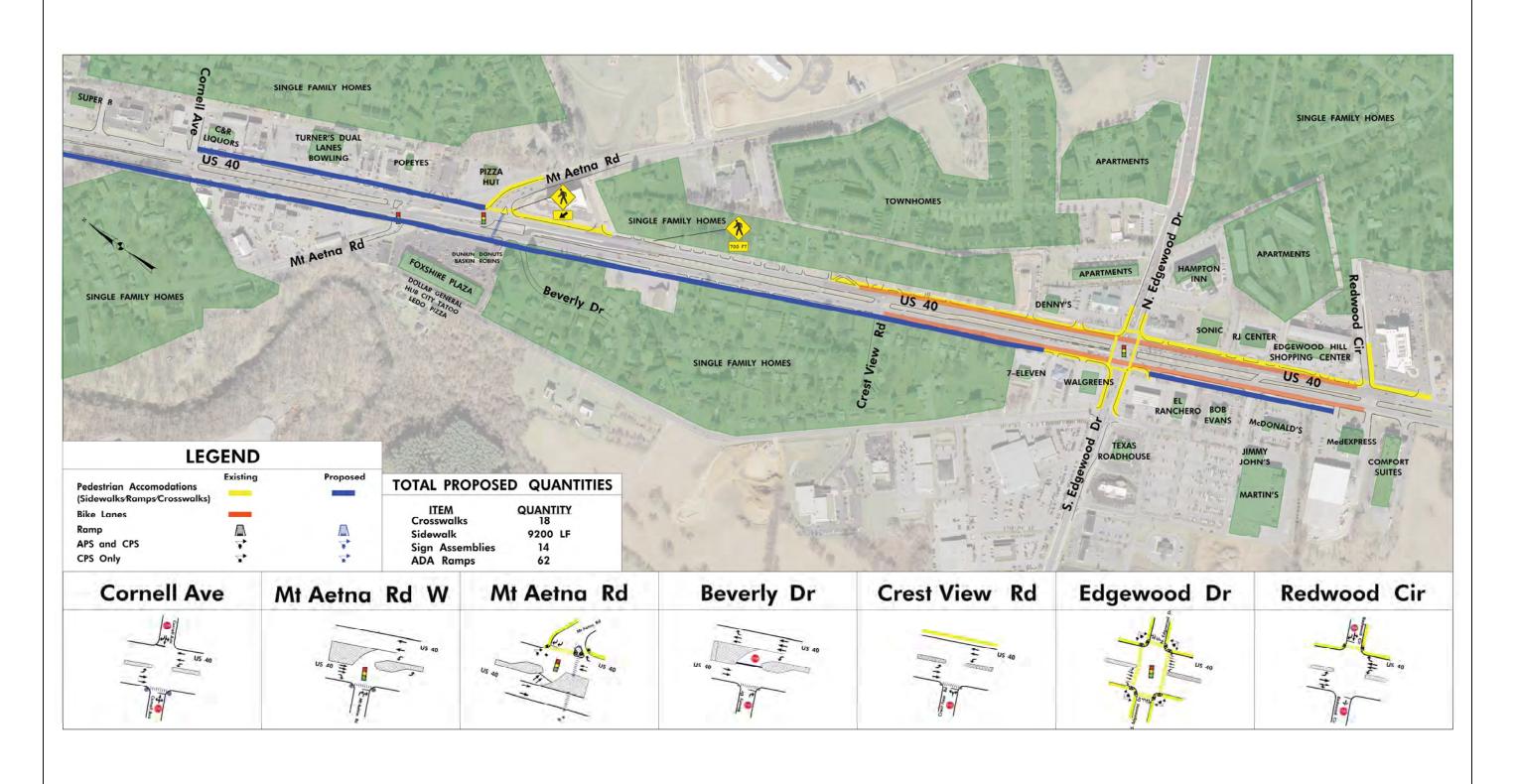
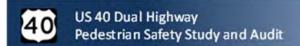


Figure G-2: Proposed Pedestrian Accommodations (South)

US 40 Safety Study (Hagerstown, MD) December 2014





Appendix B:

SHA Intersection Traffic and Pedestrian Counts

Maryland State Highway Administration Highway Information Services Division

Turning Movement Count Study - Field Sheet

Station ID: S1997210010 County: Washington Thursday 02/05/2015 Date: Town: none Location: US 40 (Washington St) at N. Cannon Ave/S. Ca Weather: Clear

Interval (dd):

60 min

PEAK	AM PERIOD	Begin	End	Volume	PM PERIOD	Begin	End	Volume
HOURS	6:00AM-12:00PM	08:00	09:00	1156	12:00PM-19:00PM	16:00	17:00	1483

Hour			nnon Ave m North				nnon Ave n South			US From				US 4 From V	-			Grand Total
Begin	L	T	R	тот	L	T	R	тот	L	T	R	тот	L	Т	R	тот		iotai
6:00	14	34	0	48	0	33	15	48	0	0	0	0	32	478	35	545	ı	641
7:00	20	41	0	61	0	59	23	82	0	0	0	0	32	763	67	862	Γ	1005
8:00	31	53	0	84	0	83	35	118	0	0	0	0	38	848	68	954		1156
9:00	51	78	0	129	0	94	41	135	0	0	0	0	61	743	64	868		1132
10:00	36	63	0	99	0	82	28	110	0	0	0	0	52	731	57	840	Γ	1049
11:00	45	75	0	120	0	107	20	127	0	0	0	0	42	679	58	779	Γ	1026
12:00	71	98	0	169	0	132	38	170	0	0	0	0	64	923	71	1058	Γ	1397
13:00	67	74	0	141	0	97	37	134	0	0	0	0	69	917	56	1042	Γ	1317
14:00	62	69	0	131	0	114	23	137	0	0	0	0	73	806	73	952	Γ	1220
15:00	58	85	0	143	0	124	28	152	0	0	0	0	91	946	44	1081	Γ	1376
16:00	83	96	0	179	0	144	34	178	0	0	0	0	80	997	49	1126	Γ	1483
17:00	69	85	0	154	0	138	36	174	0	0	0	0	89	974	52	1115	Γ	1443
18:00	46	94	0	140	0	96	26	122	0	0	0	0	87	801	37	925	Γ	1187
TOTAL	653	945	0	1598	0	1303	384	1687	0	0	0	0	810	10606	731	12147		15432
AM Peak	31	53	0	84	0	83	35	118	0	0	0	0	38	848	68	954		1156
PM Peak	83	96	0	179	0	144	34	178	0	0	0	0	80	997	49	1126	. <u>L</u>	1483

Hour	N	I. Cannon Av North Leg	re
Ending	Bicycle	PED.	U.T.
6:00	0	2	0
7:00	0	3	0
8:00	0	0	0
9:00	0	3	0
10:00	0	1	0
11:00	0	1	0
12:00	0	0	0
13:00	0	2	0
14:00	2	3	0
15:00	0	1	0
16:00	0	0	0
17:00	0	1	0
18:00	0	1	0
Total	2	18	0
AM Peak	0	0	0
PM Peak	0	0	0

S. Cannon Ave South Leg							
Bicycle	PED.	U.T.					
0	10	0					
0	15	0					
0	7	0					
2	7	0					
0	5	0					
0	5	0					
1	5	0					
0	7	0					
0	10	0					
0	6	0					
0	12	0					
1	25	0					
1	15	0					
5	129	0					
0	7	0					
0	12	0					

	US 40 East Leg	
Bicycle	PED.	U.T.
0	3	0
0	12	0
0	16	0
0	14	0
0	10	0
1	4	0
0	6	0
0	12	0
0	9	0
0	9	0
0	8	0
0	17	0
0	11	0
1	131	0
0	16	0
0	8	0

Comments: LOS AM: A (0.41); PM: A (0.55)

	US 40 West Leg	
Bicycle	PED.	U.T.
0	0	0
0	9	0
0	5	0
0	3	0
0	6	0
0	0	0
1	0	0
0	1	0
0	6	0
0	9	0
0	8	0
0	7	0
1	1	0
2	55	0
0	5	0
0	8	0

Thursday 02/05/2015 Town: Date: none US 40 (Washington St) at N. Cannon Ave/S. Ca Location: Weather: Clear Interval (dd): 60 min Begin Volume Begin End Volume **PEAK** AM PERIOD PM PERIOD 08:00 09:00 16:00 17:00 1483 1156 **HOURS** 6:00AM-12:00PM 12:00PM-19:00PM 3711 t **Turning Movement Summary** 1598 2113 LEG 1 N. Cannon Ave 810 653 Quadrant U LŤ Quadrant R ⊸ L 945 0 653 0 0 0 0 0 0 810 LEG 4 US 40 US 40 LEG 3 12147 11643 0 Т 10606 U 12147 11643 R 0 731 0 0 1303 384 R ┌╼ Quadrant 731 U 1 384 Quadrant S. Cannon Ave LEG 2 1676 1687 t 3363 205 t **AM Peak Hour** 84 121 LEG 1 N. Cannon Ave Quadrant U LŢ 31 R Т L Quadrant 38 0 53 31 0 0 0 U 🤻 38 US 40 0 US 40 914 954 848 0 954 914 68 0 83 35 0 0 Quadrant οt Т 35 Quadrant 68 R _ S. Cannon Ave LEG 2 121 118 239 403 t **PM Peak Hour** 179 224 LEG 1 N. Cannon Ave U L<u>†</u> Quadrant 80 R Т Ŧ L 83 Quadrant 83 0 0 0 0 R 80 0 US 40 US 40 LEG 4 LEG 3 1126 1114 0 Т 997 ₽U 1126 R 49 0 1114 0 0 144 34 Quadrant 49 U 34 Quadrant Ţ Т R S. Cannon Ave LEG 2 t 145 178 323

Station ID:

S1997210010

County:

Washington

Comments: LOS AM: A (0.41); PM: A (0.55)

Maryland State Highway Administration Highway Information Services Division

Turning Movement Count Study - Field Sheet

S2000210007 County: Washington Wednesday 01/28/2015 Date: Town: none Location: US 40 at Mt. Aetna Rd West/Tulsa La Weather: Cold

Interval (dd):

Station ID:

60 min

PEAK	AM PERIOD	Begin	End	Volume	PM PERIOD	Begin	End	Volume
HOURS	6:00AM-12:00PM	08:00	09:00	2891	12:00PM-19:00PM	16:00	17:00	4213

Hour			ulsa La m North				etna Rd W m South			US From				US 4 From \			9
Begin	L	Т	R	тот	L	T	R	тот	L	T	R	тот	L	Т	R	тот	
6:00	0	1	1	2	0	0	65	65	28	389	0	417	0	863	4	867	
7:00	0	1	0	1	0	0	115	115	67	936	2	1005	1	1273	19	1293	
8:00	1	1	3	5	0	0	158	158	126	1326	2	1454	2	1244	28	1274	
9:00	0	0	0	0	0	0	106	106	142	1040	0	1182	1	1000	29	1030	
10:00	0	1	3	4	0	0	114	114	132	1076	3	1211	1	903	30	934	
11:00	0	1	0	1	0	0	135	135	140	1175	3	1318	0	1075	37	1112	
12:00	0	2	2	4	0	0	135	135	161	1253	6	1420	2	985	18	1005	
13:00	0	0	5	5	0	0	81	81	164	1274	1	1439	3	948	26	977	
14:00	0	0	0	0	0	0	134	134	146	1403	2	1551	1	1105	26	1132	
15:00	0	1	2	3	0	0	175	175	221	1709	3	1933	3	1254	43	1300	
16:00	0	0	2	2	0	0	178	178	243	2416	3	2662	0	1340	31	1371	
17:00	0	0	0	0	0	0	211	211	202	2312	5	2519	1	1262	28	1291	
18:00	0	0	5	5	0	0	143	143	111	1800	5	1916	0	1005	16	1021	
TOTAL	1	8	23	32	0	0	1750	1750	1883	18109	35	20027	15	14257	335	14607	
AM Peak	1	1	3	5	0	0	158	158	126	1326	2	1454	2	1244	28	1274	
PM Peak	0	0	2	2	0	0	178	178	243	2416	3	2662	0	1340	31	1371	. L

	Grand Total
	1351
	2414
	2891
	2318
	2263
	2566
	2564
	2502
	2817
	3411
	4213
	4021
	3085
	36416
	2891
	4213

Hour		Tulsa La North Leg	
Ending	Bicycle	PED.	U.T.
6:00	0	0	0
7:00	0	0	0
8:00	0	1	0
9:00	0	1	0
10:00	0	0	0
11:00	0	0	0
12:00	0	0	0
13:00	0	1	0
14:00	0	1	0
15:00	0	0	0
16:00	0	1	0
17:00	0	3	0
18:00	0	1	0
Total	0	9	0
AM Peak	0	1	0
PM Peak	0	1	0

	Mt. Aetna Rd W South Leg								
Bicycle	PED.	U.T.							
0	0	0							
0	1	0							
0	0	0							
0	0	0							
0	0	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	2	0							
0	0	0							
0	0	0							

	US 40 East Leg									
Bicycle	Bicycle PED. U.T.									
0	0	12								
0	0	30								
0	0	52								
0	0	50								
0	0	42								
0	0	32								
0	0	48								
0	0	33								
0	0	50								
0	0	63								
0	0	62								
0	1	49								
0	0	38								
0	1	561								
0	0	52								
0	0	62								

Comments: LOS AM: A (0.56); PM: D (0.84)

US 40 West Leg										
Bicycle	PED.	U.T.								
0	0	1								
0	0	6								
0	0	7								
0	0	5								
0	0	7								
0	0	16								
0	0	16								
0	0	8								
0	1	9								
0	0	7								
0	0	12								
0	0	18								
0	0	18								
0	1	130								
0	0	7								
0	0	12								

Comments: LOS AM: A (0.56); PM: D (0.84) Wednesday 01/28/2015 Date: Town: none US 40 at Mt. Aetna Rd West/Tulsa La Location: Weather: Cold Interval (dd): 60 min Begin Volume Begin End Volume **PEAK** AM PERIOD PM PERIOD 08:00 2891 16:00 17:00 4213 09:00 **HOURS** 6:00AM-12:00PM 12:00PM-19:00PM 82 t **Turning Movement Summary** 32 50 LEG 1 Tulsa La 36 Quadrant 38 U L† Quadrant R ⊸ Т 23 8 0 18132 0 35 20027 18109 15 LEG 4 US 40 US 40 32739 36035 1883 14257 Т U 14607 16008 R 0 335 0 0 0 1750 Quadrant 335 U 1 R ┌→ 3633 Quadrant Mt. Aetna Rd W LEG 2 2226 1750 t 3976 9 **AM Peak Hour** 5 4 LEG 1 Tulsa La Quadrant U LŢ Т L 3 Quadrant 5 R 3 0 1329 0 1454 U 🤻 2 2 1326 US 40 US 40 2857 2603 1244 126 1274 1403 28 0 158 0 0 0 Quadrant Λt 284 Quadrant 28 R _ Mt. Aetna Rd W LEG 2 155 158 313 5 **PM Peak Hour** 2 3 LEG 1 Tulsa La U LŢ Quadrant 2 R T Ŧ 3 Quadrant L 0 2418 0 2662 3 R 0 2416 US 40 LEG 4 S LEG 3 3789 4180 4 243 Т 1340 ₽U 1371 R 31 0 1518 0 0 178 0 Quadrant 31 U 421 Quadrant t Т R Mt. Aetna Rd W LEG 2 t 274 178 452

Station ID:

S2000210007

County:

Washington

Maryland State Highway Administration Highway Information Services Division

Turning Movement Count Study - Field Sheet

Station ID: S2000210008 County: Washington Comments: LOS AM: B (0.63); PM: D (0.84)

Date: Thursday 01/22/2015 Town: none Location: US 40 at Mt. Aetna Rd Weather: Cold

Interval (dd): 60 min

PEAK	AM PERIOD	Begin	End	Volume	PM PERIOD	Begin	End	Volume
HOURS	6:00AM-12:00PM	08:00	09:00	2713	12:00PM-19:00PM	16:00	17:00	3492

Hour			Aetna Rd om North		Mt. Aetna Rd From South				US From				US 40 From West			Gran Tota	
Begin	L	T	R	тот	L	т	R	тот	L	т	R	тот	L	Т	R	тот	100
6:00	0	0	109	109	0	0	42	42	0	392	16	408	245	651	1	897	1
7:00	0	0	302	302	0	0	58	58	0	765	24	789	439	941	5	1385	2
8:00	0	0	375	375	0	0	54	54	0	860	39	899	460	916	9	1385	27
9:00	0	0	415	415	0	0	41	41	0	708	19	727	399	778	9	1186	2
10:00	0	0	342	342	0	0	21	21	0	731	13	744	336	722	5	1063	2
11:00	0	0	413	413	0	0	24	24	0	805	19	824	366	821	3	1190	2
12:00	0	0	386	386	0	0	44	44	0	849	19	868	392	866	3	1261	2
13:00	0	0	422	422	0	0	46	46	0	848	24	872	406	842	3	1251	2
14:00	0	0	439	439	0	0	31	31	0	911	17	928	379	901	1	1281	2
15:00	0	0	528	528	0	0	18	18	0	1128	21	1149	400	968	4	1372	3
16:00	0	0	747	747	0	0	32	32	0	1185	19	1204	411	1090	8	1509	34
17:00	0	0	512	512	0	0	27	27	0	1277	52	1329	466	1063	9	1538	3
18:00	0	0	335	335	0	0	54	54	0	929	20	949	377	774	4	1155	2
TOTAL	0	0	5325	5325	0	0	492	492	0	11388	302	11690	5076	11333	64	16473	339
AM Peak	0	0	375	375	0	0	54	54	0	860	39	899	460	916	9	1385	271
PM Peak	0	0	747	747	0	0	32	32	0	1185	19	1204	411	1090	8	1509	349

Grand Total							
1456							
2534							
2713							
2369							
2170							
2451							
2559							
2591							
2679							
3067							
3492							
3406							
2493							
33980							
2713							
3492							

Hour		Mt. Aetna Rd North Leg							
Ending	Bicycle	PED.	U.T.						
6:00	0	0	0						
7:00	0	0	0						
8:00	0	0	0						
9:00	0	2	0						
10:00	0	0	0						
11:00	0	3	0						
12:00	0	0	0						
13:00	0	0	0						
14:00	0	1	0						
15:00	0	2	0						
16:00	0	3	0						
17:00	0	0	0						
18:00	0	0	0						
Total	0	11	0						
AM Peak	0	0	0						
PM Peak	0	3	0						

Mt. Aetna Rd South Leg									
Bicycle	PED.	U.T.							
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	1	0							
0	0	0							
0	1	0							
0	0	0							
0	0	0							

US 40 East Leg									
Bicycle	Bicycle PED. U.T.								
0	0	0							
0	0	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	1	0							
0	0	0							
0	0	0							

	US 40 West Leg									
Bicycle	PED.	U.T.								
0	0	0								
0	0	10								
0	1	12								
0	0	13								
0	0	25								
0	0	19								
0	0	29								
0	0	25								
0	0	23								
0	0	17								
0	0	26								
0	0	20								
0	0	15								
0	1	234								
0	1	12								
0	0	26								

Thursday 01/22/2015 Town: Date: none US 40 at Mt. Aetna Rd Location: Weather: Cold Interval (dd): 60 min Begin End Volume Begin End Volume **PEAK** AM PERIOD PM PERIOD 08:00 2713 16:00 17:00 3492 09:00 **HOURS** 6:00AM-12:00PM 12:00PM-19:00PM 10703 t **Turning Movement Summary** 5325 5378 LEG 1 Mt. Aetna Rd 10401 302 Quadrant U L† Quadrant R 🗻 L 5325 0 0 0 16713 0 302 11690 11388 5076 LEG 4 US 40 US 40 33186 23515 0 Т 11333 U 16473 11825 R 0 64 0 0 0 492 Quadrant 64 U 1 R ┌-***** 492 Quadrant Mt. Aetna Rd LEG 2 64 492 t 556 874 t **AM Peak Hour** 375 499 LEG 1 Mt. Aetna Rd Quadrant U L<u>†</u> 39 Т L Quadrant 835 R 375 0 1235 0 899 U 🤻 39 460 860 US 40 US 40 1869 2620 916 0 1385 970 9 0 0 0 0 54 Quadrant οt 54 Quadrant 9 R _ Mt. Aetna Rd LEG 2 9 54 63 1177 t **PM Peak Hour** 747 430 LEG 1 Mt. Aetna Rd 1158 U L<u>†</u> Quadrant R T Ŧ L 19 Quadrant 747 1932 0 1204 19 R 411 1185 US 40 LEG 4 LEG 3 3441 2326 4 0 Т 1090 ₽U 1509 R 8 0 1122 0 0 32 0 Quadrant 8 U 32 Quadrant t R Mt. Aetna Rd LEG 2 t 8 32 40

Station ID:

S2000210008

County:

Washington

Comments: LOS AM: B (0.63); PM: D (0.84)

Maryland State Highway Administration Highway Information Services Division

Turning Movement Count Study - Field Sheet

Station ID: S2003210003 County: Washington Thursday 01/29/2015 Date: Town: none US 40 at MANOR DR/TRACEYS LA Weather: Clear Location:

Interval (dd):

60 min

End Volume Begin Begin End Volume PEAK AM PERIOD PM PERIOD 6:00AM-12:00PM 08:00 09:00 1691 12:00PM-19:00PM 16:00 17:00 2204 **HOURS**

Hour		Manor Dr Traceys La From North From South				US 40 From East				US 40 From West						
Begin	L	Т	R	тот	L	Т	R	тот	L	Т	R	тот	L	Т	R	тот
6:00	32	5	19	56	0	3	2	5	2	251	12	265	28	470	0	498
7:00	34	6	39	79	0	3	5	8	7	530	17	554	40	747	2	789
8:00	44	7	67	118	1	4	3	8	1	680	14	695	37	833	0	870
9:00	18	5	34	57	0	3	2	5	5	705	23	733	29	792	1	822
10:00	17	4	25	46	1	1	6	8	12	735	21	768	33	726	0	759
11:00	20	3	21	44	0	6	6	12	8	792	18	818	30	775	1	806
12:00	24	2	28	54	2	3	5	10	10	871	14	895	31	911	1	943
13:00	22	4	20	46	6	3	3	12	16	805	24	845	44	896	3	943
14:00	33	5	40	78	1	8	8	17	12	911	26	949	48	939	1	988
15:00	33	2	48	83	0	3	5	8	8	895	22	925	34	955	2	991
16:00	37	9	36	82	2	10	4	16	17	1013	45	1075	59	970	2	1031
17:00	23	4	38	65	1	5	6	12	15	892	40	947	65	804	2	871
18:00	12	2	30	44	1	6	2	9	5	711	25	741	38	592	1	631
TOTAL	349	58	445	852	15	58	57	130	118	9791	301	10210	516	10410	16	10942
AM Peak	44	7	67	118	1	4	3	8	1	680	14	695	37	833	0	870
PM Peak	37	9	36	82	2	10	4	16	17	1013	45	1075	59	970	2	1031

Grand Total
824
1430
1691
1617
1581
1680
1902
1846
2032
2007
2204
1895
1425
22134
1691
2204

Hour	Manor Dr North Leg							
Ending	Bicycle	PED.	U.T.					
6:00	0	1	0					
7:00	0	1	0					
8:00	0	1	0					
9:00	0	3	0					
10:00	0	2	0					
11:00	0	4	0					
12:00	1	3	0					
13:00	0	4	0					
14:00	0	6	0					
15:00	0	6	0					
16:00	1	0	0					
17:00	0	2	0					
18:00	0	1	0					
Total	2	34	0					
AM Peak	0	1	0					
PM Peak	1	0	0					

1	Traceys La South Leg								
Bicycle	PED.	U.T.							
0	0	0							
0	1	0							
0	0	0							
0	0	0							
1	5	0							
0	4	0							
0	2	0							
0	1	0							
0	2	0							
0	0	0							
0	2	0							
0	1	0							
0	0	0							
1	18	0							
0	0	0							
0	2	0							

	US 40 East Leg	
Bicycle	PED.	U.T.
0	0	2
0	0	9
0	0	4
0	0	10
0	0	7
0	0	12
0	0	15
0	0	7
0	0	12
0	0	9
0	1	5
0	0	16
0	0	11
0	1	119
0	0	4
0	1	5

Comments: LOS AM: A (0.37); PM: A (0.46)

	US 40 West Leg	
Bicycle	PED.	U.T.
0	1	0
0	1	0
0	0	2
0	0	1
1	0	1
0	2	0
0	1	4
0	0	4
0	2	1
0	0	3
0	1	0
0	1	5
0	2	1
1	11	22
0	0	2
0	1	0

Thursday 01/29/2015 Town: Date: none US 40 at MANOR DR/TRACEYS LA Location: Weather: Clear Interval (dd): 60 min Begin Volume Begin End Volume **PEAK** AM PERIOD PM PERIOD 08:00 09:00 1691 16:00 17:00 2204 **HOURS** 6:00AM-12:00PM 12:00PM-19:00PM 1727 t **Turning Movement Summary** 852 875 LEG 1 Manor Dr 961 650 Quadrant U L† Quadrant R ⊸ 445 58 349 0 10251 0 301 10210 9791 516 LEG 4 US 40 US 40 21193 21026 118 10410 Т U 10942 10816 R 0 16 0 15 58 57 Quadrant 31 U 1 L R ┌-***** 175 Quadrant Traceys La LEG 2 192 130 t 322 173 t **AM Peak Hour** 118 55 LEG 1 Manor Dr Quadrant U L<u>†</u> 58 R Т Quadrant 104 L 67 44 0 748 0 695 U 🤻 14 37 680 US 40 US 40 1575 1618 833 1 870 880 0 0 0 4 3 Quadrant Λt 4 Quadrant 1 R _ Traceys La LEG 2 8 8 16 196 **PM Peak Hour** 82 114 LEG 1 Manor Dr U LŢ Quadrant 95 T Ŧ L 82 Quadrant 9 37 1051 0 1075 45 R 59 1013 US 40 US 40 LEG 4 LEG 3 2082 2086 17 970 Т ₽U 1031 R 2 0 1011 0 2 10 4 Quadrant 4 U 21 Quadrant R Traceys La LEG 2 t 28 16 44

Station ID:

S2003210003

County:

Washington

Comments: LOS AM: A (0.37); PM: A (0.46)

Maryland State Highway Administration Highway Information Services Division

Washington

County:

Turning Movement Count Study - Field Sheet

Comments: LOS AM: A (0.57); PM: B (0.67)

S2000210006 Wednesday 01/28/2015 Date: Town: none Location: US 40 at Edgewood Dr Weather: Cold

Interval (dd):

Station ID:

60 min

PEAK	AM PERIOD	Begin	End	Volume	PM PERIOD	Begin	End	Volume
HOURS	6:00AM-12:00PM	07:00	08:00	3190	12:00PM-19:00PM	16:00	17:00	4008

Hour			ewood Dr m North			Edgewood Dr From South				US 40 From East			US 40 From West					Grand Total
Begin	L	Т	R	тот	L	T	R	тот	L	T	R	тот	L	Т	R	тот		iotai
6:00	302	81	19	402	86	98	19	203	15	286	188	489	14	654	60	728	Ī	1822
7:00	422	137	26	585	187	163	30	380	64	661	484	1209	36	881	99	1016		3190
8:00	365	111	35	511	194	200	37	431	75	748	420	1243	81	643	90	814	Γ	2999
9:00	315	155	28	498	178	187	38	403	58	554	304	916	79	507	63	649	Γ	2466
10:00	297	159	46	502	187	205	38	430	63	504	212	779	66	515	88	669	Γ	2380
11:00	358	167	43	568	207	185	51	443	82	515	193	790	61	512	97	670	Γ	2471
12:00	377	174	55	606	235	169	58	462	73	506	169	748	78	494	91	663	Γ	2479
13:00	346	197	39	582	226	217	38	481	67	561	159	787	63	554	106	723	Γ	2573
14:00	441	205	55	701	213	170	57	440	80	661	268	1009	102	642	124	868	Γ	3018
15:00	437	255	57	749	244	288	67	599	78	782	322	1182	84	708	149	941	Γ	3471
16:00	576	270	53	899	236	292	51	579	108	1015	322	1445	158	787	140	1085		4008
17:00	439	262	39	740	247	275	35	557	92	1079	407	1578	88	730	122	940		3815
18:00	369	178	34	581	207	231	28	466	87	747	287	1121	75	578	123	776	Γ	2944
TOTAL	5044	2351	529	7924	2647	2680	547	5874	942	8619	3735	13296	985	8205	1352	10542		37636
AM Peak	422	137	26	585	187	163	30	380	64	661	484	1209	36	881	99	1016	[3190
PM Peak	576	270	53	899	236	292	51	579	108	1015	322	1445	158	787	140	1085	Ĺ	4008

Hour	!	Edgewood D North Leg	r
Ending	Bicycle	PED.	U.T.
6:00	0	0	0
7:00	0	0	0
8:00	0	0	0
9:00	0	0	0
10:00	0	0	0
11:00	0	0	0
12:00	0	0	0
13:00	0	1	0
14:00	0	1	1
15:00	0	1	0
16:00	0	0	0
17:00	0	0	1
18:00	0	0	0
Total	0	3	2
AM Peak	0	0	0
PM Peak	0	0	0

Edgewood Dr South Leg							
Bicycle	PED.	U.T.					
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					

	US 40 East Leg	
Bicycle	PED.	U.T.
0	0	0
0	0	0
0	1	0
0	0	0
0	3	0
0	1	1
0	1	0
0	0	0
0	0	10
0	0	14
0	2	19
0	1	5
0	0	6
0	9	55
0	0	0
0	2	19

	US 40 West Leg	
Bicycle	PED.	U.T.
0	0	7
0	0	7
0	0	16
0	0	18
0	0	23
0	0	21
0	0	14
0	0	14
0	1	6
0	0	28
0	0	17
0	0	14
0	0	10
0	1	195
0	0	7
0	0	17

Wednesday 01/28/2015 Date: Town: none US 40 at Edgewood Dr Location: Weather: Cold Interval (dd): 60 min Begin End Volume Begin End Volume **PEAK** AM PERIOD PM PERIOD 07:00 3190 16:00 17:00 4008 08:00 **HOURS** 6:00AM-12:00PM 12:00PM-19:00PM 15324 t **Turning Movement Summary** 7924 7400 LEG 1 **Edgewood Dr** 1514 8779 Quadrant U L† Quadrant R 🗻 529 2351 5044 0 11795 0 3735 13296 8619 985 LEG 4 US 40 US 40 LEG 3 22337 27092 942 Т 8205 U 10542 13796 R 0 1352 0 2647 2680 547 Quadrant 3999 U 1 R ┌╼ 1489 Quadrant Edgewood Dr LEG 2 4645 5874 t 10519 1268 t **AM Peak Hour** 585 683 LEG 1 **Edgewood Dr** Quadrant 906 Т L U LŢ Quadrant 62 R 26 137 422 0 874 0 1209 U 🤻 484 36 US 40 661 US 40 2542 1890 881 64 1016 1333 99 0 187 163 30 0 Quadrant Λt 94 Quadrant Т 286 R _ Edgewood Dr LEG 2 300 380 680 1671 t **PM Peak Hour** 899 772 LEG 1 **Edgewood Dr** υLŢ Quadrant 211 R T L 898 Quadrant ŧ 576 1304 0 1445 322 R 158 1015 US 40 US 40 LEG 4 LEG 3 2389 2859 108 Т 787 ₽U 1085 R 140 0 1414 0 236 292 51 Quadrant 376 U 159 Quadrant t Т R Edgewood Dr LEG 2 t 518 579 1097

Station ID:

S2000210006

County:

Washington

Comments: LOS AM: A (0.57); PM: B (0.67)

Maryland State Highway Administration Highway Information Services Division Turning Movement Count Study - Field Sheet

County: Washington Comments: LOS AM: B (0.63); PM: C (0.72)

S2000210005 Date: Thursday 01/29/2015 Town: none Location: US 40 at Eastern Blvd Weather: Cold

Interval (dd):

Station ID:

60 min

PEAK	AM PERIOD	Begin	End	Volume	PM PERIOD	Begin	End	Volume
HOURS	6:00AM-12:00PM	08:00	09:00	3328	12:00PM-19:00PM	16:00	17:00	3948

Hour			tern Blvd m North			Eastern Blvd From South				US 40 From East			US 40 From West				Grand Total
Begin	٦	т	R	тот	L	Т	R	тот	L	T	R	тот	L	т	R	тот	liotai
6:00	365	106	27	498	13	84	11	108	14	204	256	474	66	444	11	521	16
7:00	613	134	69	816	30	122	17	169	16	616	656	1288	117	651	17	785	30
8:00	542	225	84	851	24	171	17	212	24	691	649	1364	160	725	16	901	333
9:00	265	135	129	529	33	196	17	246	27	670	493	1190	184	684	12	880	28
10:00	333	132	117	582	23	120	20	163	15	544	401	960	168	555	16	739	24
11:00	237	149	176	562	19	155	20	194	16	660	550	1226	161	573	23	757	27:
12:00	311	161	209	681	39	166	16	221	28	791	566	1385	202	740	14	956	32
13:00	329	175	119	623	24	200	13	237	33	744	594	1371	217	706	19	942	31
14:00	375	164	190	729	46	208	10	264	61	894	612	1567	230	684	26	940	35
15:00	423	186	156	765	48	230	17	295	47	762	585	1394	224	758	24	1006	34
16:00	321	232	204	757	58	278	26	362	45	980	674	1699	220	880	30	1130	394
17:00	375	211	199	785	52	158	10	220	28	797	682	1507	166	695	25	886	33
18:00	198	68	58	324	29	99	13	141	16	633	476	1125	119	492	13	624	22
TOTAL	4687	2078	1737	8502	438	2187	207	2832	370	8986	7194	16550	2234	8587	246	11067	3895
AM Peak	542	225	84	851	24	171	17	212	24	691	649	1364	160	725	16	901	3328
PM Peak	321	232	204	757	58	278	26	362	45	980	674	1699	220	880	30	1130	3948

1	
	Grand Total
	1601
	3058
	3328
	2845
	2444
	2739
	3243
	3173
	3500
	3460
	3948
	3398
	2214
	38951
	3328
	3948

Hour		Eastern Blvd North Leg	l
Ending	Bicycle	PED.	U.T.
6:00	0	0	0
7:00	0	0	0
8:00	0	0	0
9:00	0	0	0
10:00	0	0	0
11:00	0	0	0
12:00	0	0	0
13:00	2	3	0
14:00	1	0	0
15:00	0	1	0
16:00	0	1	1
17:00	0	0	1
18:00	0	0	1
Total	3	5	3
AM Peak	0	0	0
PM Peak	0	1	1

Eastern Blvd South Leg									
Bicycle	PED.	U.T.							
0	0	0							
0	2	0							
0	0	0							
0	0	0							
0	4	0							
0	2	0							
0	1	0							
0	0	0							
0	0	0							
2	1	0							
0	1	0							
0	1	1							
0	0	0							
2	12	1							
0	0	0							
0	1	0							

	US 40 East Leg	
Bicycle	PED.	U.T.
0	0	2
0	0	6
0	0	0
0	0	4
0	0	2
0	0	6
0	0	3
0	0	2
0	0	2
0	0	5
0	1	3
0	0	0
0	0	3
0	1	38
0	0	0
0	1	3

	US 40 West Leg	
Bicycle	PED.	U.T.
0	0	2
0	3	13
0	0	9
0	0	13
0	1	15
0	0	19
0	1	16
0	0	16
1	0	18
0	1	32
0	0	13
0	1	25
0	0	10
1	7	201
0	0	9
0	0	13

Thursday 01/29/2015 Date: Town: none US 40 at Eastern Blvd Location: Weather: Cold Interval (dd): 60 min Begin End Volume Begin End Volume **PEAK** AM PERIOD PM PERIOD 08:00 3328 16:00 17:00 3948 09:00 **HOURS** 6:00AM-12:00PM 12:00PM-19:00PM 20117 t **Turning Movement Summary** 8502 11615 LEG 1 Eastern Blvd 3971 11881 Quadrant U LŤ Quadrant R ⊸ L 2078 1737 4687 0 11161 U 0 7194 16550 8986 2234 LEG 4 US 40 US 40 22228 30031 370 Т 8587 U 11067 13481 R 0 246 0 438 2187 207 Quadrant 684 U 1 R ┌╼ 577 Quadrant Eastern Blvd LEG 2 2694 2832 t 5526 1831 t **AM Peak Hour** 851 980 LEG 1 Eastern Blvd Quadrant 1191 Т U LŢ Quadrant 244 R L 84 225 542 0 799 0 1364 U 🤻 649 160 691 US 40 US 40 2648 1700 725 24 901 1284 16 0 171 0 24 17 Quadrant Λt 41 Quadrant Т 40 R _ Eastern Blvd LEG 2 265 212 477 1929 t **PM Peak Hour** 757 1172 LEG 1 Eastern Blvd υLŢ Quadrant 424 R T Ŧ 995 Quadrant L 204 232 321 1242 0 1699 674 R 220 980 US 40 US 40 LEG 4 LEG 3 2372 2926 45 Т 880 ₽.U 1130 R 30 0 1227 0 278 58 26 Quadrant 88 U 71 Quadrant t Т R Eastern Blvd LEG 2 t 307 362 669

Station ID:

S2000210005

County:

Washington

Comments: LOS AM: B (0.63); PM: C (0.72)

Maryland State Highway Administration Highway Information Services Division

Turning Movement Count Study - Field Sheet

Washington

County:

S1998210001 Date: Thursday 01/22/2015 Town: none Location: US 40 at MD 64/N. Cleveland Ave Weather: Cold

Interval (dd):

Station ID:

60 min

PEAK	AM PERIOD	Begin	End	Volume	PM PERIOD	Begin	End	Volume
HOURS	6:00AM-12:00PM	11:00	12:00	2119	12:00PM-19:00PM	16:00	17:00	2907

Hour			MD 64 m North		N. Cleveland Ave From South					US From			US 40 From West					
Begin	L	т	R	тот	L	Т	R	тот	L	Т	R	тот	L	т	R	тот		
6:00	29	12	56	97	16	10	23	49	16	222	17	255	18	435	26	479		
7:00	46	29	100	175	33	12	34	79	17	540	21	578	36	725	43	804		
8:00	48	45	86	179	30	23	56	109	54	704	24	782	54	789	63	906		
9:00	39	38	62	139	47	29	59	135	90	675	27	792	43	687	63	793		
10:00	37	37	38	112	50	45	52	147	84	589	23	696	32	622	45	699		
11:00	43	47	51	141	89	34	77	200	163	766	35	964	56	675	83	814		
12:00	65	52	58	175	108	61	82	251	148	791	46	985	63	693	92	848		
13:00	44	47	94	185	84	54	68	206	145	877	55	1077	65	683	68	816		
14:00	62	58	79	199	78	50	84	212	129	915	69	1113	70	730	95	895		
15:00	62	57	70	189	75	80	78	233	137	1011	76	1224	101	761	75	937		
16:00	42	68	82	192	85	87	88	260	170	1170	96	1436	121	817	81	1019		
17:00	65	47	92	204	85	100	79	264	151	1151	149	1451	110	767	97	974		
18:00	42	45	77	164	73	43	54	170	82	751	56	889	91	607	51	749		
TOTAL	624	582	945	2151	853	628	834	2315	1386	10162	694	12242	860	8991	882	10733		
AM Peak	43	47	51	141	89	34	77	200	163	766	35	964	56	675	83	814		
PM Peak	42	68	82	192	85	87	88	260	170	1170	96	1436	121	817	81	1019		

	Grand Total
ı	880
ı	1636
ı	1976
	1859
	1654
	2119
	2259
	2284
	2419
_	2583
	2907
	2893
	1972
	27441
	2119
١	2907

Hour		MD 64 North Leg	
Ending	Bicycle	PED.	U.T.
6:00	0	3	0
7:00	0	0	0
8:00	0	4	0
9:00	0	1	0
10:00	0	6	0
11:00	0	1	0
12:00	0	2	0
13:00	0	4	0
14:00	0	1	0
15:00	0	4	0
16:00	0	3	0
17:00	0	2	0
18:00	0	2	0
Total	0	33	0
AM Peak	0	1	0
PM Peak	0	3	0

N. Cleveland Ave South Leg									
Bicycle	PED.	U.T.							
0	0	0							
0	0	0							
0	2	0							
0	1	0							
0	2	0							
0	2	0							
0	6	0							
0	3	0							
0	7	0							
0	4	0							
0	4	0							
0	5	0							
0	3	0							
0	39	0							
0	2	0							
0	4	0							

	US 40 East Leg	•
Bicycle	PED.	U.T.
0	2	0
0	0	0
0	0	0
0	0	0
0	2	0
0	1	0
0	2	0
0	1	0
0	0	0
0	2	0
0	0	0
0	2	0
0	0	0
0	12	0
0	1	0
0	0	0

Comments: LOS AM: A (0.42); PM: A (0.62)

	US 40 West Leg	
Bicycle	PED.	U.T.
0	0	1
0	0	9
0	0	10
0	0	4
0	0	1
0	0	17
0	0	12
0	1	14
0	1	8
0	0	8
0	0	21
0	0	13
0	0	16
0	2	134
0	0	17
0	0	21

Comments: LOS AM: A (0.42); PM: A (0.62) Thursday 01/22/2015 Date: Town: none US 40 at MD 64/N. Cleveland Ave Location: Weather: Cold Interval (dd): 60 min Begin End Volume Begin End Volume **PEAK** AM PERIOD PM PERIOD 11:00 2119 16:00 17:00 2907 12:00 **HOURS** 6:00AM-12:00PM 12:00PM-19:00PM 4333 t **Turning Movement Summary** 2151 2182 LEG 1 MD 64 1805 1318 Quadrant U LŤ Quadrant R 🗻 Т 945 582 624 0 11960 0 694 12242 10162 860 LEG 4 US 40 US 40 22693 22691 1386 Т 8991 U 10733 10449 R 882 0 0 853 628 834 Quadrant 1735 U 1 R ┌╼ 2220 Quadrant N. Cleveland Ave LEG 2 2850 2315 t 5165 266 t **AM Peak Hour** 141 125 LEG 1 MD 64 Quadrant U L<u>†</u> 78 Т L Quadrant 107 R 51 47 43 0 906 0 964 U 🤻 35 56 766 US 40 US 40 1759 1720 675 163 814 795 83 0 0 89 34 77 Quadrant Λt 240 Quadrant Т 172 R _ N. Cleveland Ave LEG 2 293 200 493 496 **PM Peak Hour** 192 304 LEG 1 MD 64 U L<u>†</u> 138 Quadrant 203 Т ŧ L Quadrant 68 42 1337 0 1436 96 R 121 1170 US 40 LEG 4 LEG 3 2356 2383 4 170 Т 817 ₽U 1019 R 81 0 947 0 87 88 85 Quadrant 166 U 258 Quadrant Ţ L Т R N. Cleveland Ave LEG 2 t 319 260 579

Station ID:

S1998210001

County:

Washington



Appendix C: Additional Study Pedestrian Counts

Date Wednesday, April 29, 2015 Location US 40 at Cleveland Ave

			West Sid	e of US 40)				East Side	of US 40	ı		North Side of Cleveland Ave					South Side of Cleveland Ave						
Time	Go	ing	Total	Midl	olock	Total	Go	ing	Total	Mid	block	Total	Go	ing	Total	Midl	olock	Total	Going		Total	Midblock		Total
	N	S	TOLAI	N	S	TOLAI	N	S	TOTAL	N	S	IUlai	E	W	TOTAL	E	W	IUlai	E	W	IUlai	E	W	TOLAI
7:00	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
7:15	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
7:30	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	1	0	0	0
7:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
TOTAL	0	0	0	0	0	0	0	0	0	1	1	2	0	1	1	0	0	0	1	0	1	1	0	1
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	1
11:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	4
11:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	1
11:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	0	1	5	1	6
17:00	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	2	2
17:15	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	3	3
17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	1
17:45	0	0	0	0	1	1	2	0	2	0	0	0	0	1	1	0	0	0	0	0	0	1	1	2
TOTAL	0	0	0	0	1	1	2	0	2	0	0	0	2	4	6	0	0	0	0	0	0	2	6	8

Date Wednesday, April 29, 2015 Location US 40 at Manor Dr

			West Sid	e of US 40)				East Side	of US 40	ı			N	orth Side o	of Manor	Dr			So	outh Side o	of Manor	Dr	
Time	Go	ing	Total	Midl	block	Total	Go	ing	Total	Mid	block	Total	Go	ing	Total	Midl	block	Total	Go	ing	Total	Mid	block	Total
	N	S	TOLAI	N	S	TOTAL	N	S	TOTAL	N	S	TOLAT	E	W	IUlai	E	W	IUlai	E	W	TOLAI	E	W	TOLAI
8:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	1	1	0	0	0	0	0	0
8:30	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0
8:45	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	1	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	1	0	1	2	1	3	0	1	1	2	0	2	0	0	0
12:00	1	1	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
12:15	0	1	1	1	0	1	0	0	0	0	0	0	2	1	3	0	0	0	0	0	0	0	0	0
12:30	0	0	0	1	0	1	0	0	0	2	0	2	0	2	2	0	0	0	1	0	1	0	0	0
12:45	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
TOTAL	1	2	3	2	0	2	1	1	2	2	0	2	3	3	6	0	0	0	2	0	2	0	0	0
16:00	0	0	0	0	0	0	0	0	0	1	0	1	0	4	4	0	0	0	2	0	2	0	0	0
16:15	1	3	4	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	4	0	4	0	0	0
16:30	1	0	1	0	1	1	0	0	0	0	0	0	2	1	3	0	0	0	0	3	3	0	0	0
16:45	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	3	5	0	1	1	0	0	0	3	0	3	2	5	7	0	0	0	6	3	9	0	0	0

Date Friday, May 1, 2015 Location US 40 at Eastern Blvd

			West Sid	e of US 40)				East Side	of US 40					Easterr	Blvd N					Eastern	Blvd S		
Time	Go	ing	Total	Mid	block	Total	Go	ing	Total	Mid	block	Total	Go	ing	Total	Mid	block	Total	Go	ing	Total	Mid	block	Total
	N	S	TOTAL	N	S	TOLAI	N	S	TOTAL	N	S	TOTAL	Е	W	TOTAL	E	W	TOTAL	E	W	IULAI	E	w	IULAI
8:00	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45	0	0	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3	0	0	0
TOTAL	0	1	1	1	2	3	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3	0	0	0
12:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
12:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
12:30	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0
12:45	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	5	0	0	0
TOTAL	2	0	2	0	2	2	0	0	0	0	0	0	0	1	1	0	1	1	5	2	7	0	0	0
17:00	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	1	1	0	0	0
17:15	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
17:45	0	0	0	0	1	1	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0
TOTAL	1	0	1	0	2	2	0	0	0	0	2	2	0	2	2	0	0	0	0	2	2	0	0	0

Date Thursday, June 4, 2015 Location US 40 at Mt. Aetna Rd

Weather Light rain in AM, then cloudy and cool

			West Side	of US 40	ı				East Side	of US 40	1			Nor	rth Side of	Mt Aetn	a Rd			Sou	th Side of	Mt Aetn	a Rd	
Time	Go	ing	Total	Midb	olock	Total	Go	oing	Total	Mid	block	Total	Go	ing	Total	Midl	block	Total	Go	ing	Total	Mid	block	Total
	N	S	Total	N	S	TOLAI	N	S	Total	N	S	Total	E	W	Total	E	w	Total	E	W	TOTAL	E	W	Total
8:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2	2	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2	2	0	0	0
12:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:45	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:15	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	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date Friday, May 1, 2015 Location US 40 at Edgewood Dr

			West Sid	e of US 40)				East Side	of US 40	1				N Edgev	wood Dr					S Edgew	ood Dr		
Time	Go	ing	Total	Mid	block	Total	Go	oing	Total	Mid	block	Total	Go	ing	Total	Midl	block	Total	Go	oing	Total	Mid	block	Total
	N	S	Total	N	S	Total	N	S	Total	N	S	Total	E	W	TOTAL	E	w	Total	E	W	TOTAL	E	w	Total
7:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
7:45	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:00	0	0	0	0	0	0	2	0	2	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
16:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
16:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:45	1	1	2	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	1
TOTAL	1	1	2	0	0	0	2	0	2	0	1	1	1	0	1	0	0	0	0	1	1	1	0	1

Date Thursday, June 4, 2015 Location US 40 at Redwood Circle

Weather Light rain in AM, then cloudy and cool

			West Side	e of US 40)				East Side	of US 40	1			Nor	rth Side of	Redwood	d Cir			Sou	th Side of	Redwoo	d Cir	
Time	Go	ing	Total	Midl	olock	Total	Go	oing	Total	Mid	block	Total	Go	ing	Total	Midl	block	Total	Go	ing	Total	Mid	block	Total
	N	S	Total	N	S	Total	N	S	Total	N	S	Total	E	W	Total	E	w	Total	E	W	Total	E	W	TOTAL
7:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
11:15	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
11:30	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	6	6	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0
15:30	0	1	1	0	2	2	0	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
15:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0
16:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:15	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	0	1	1	0	2	2	0	1	1	0	0	0	1	0	1	0	0	0	2	0	2	0	0	0



Appendix D: SHA Signal Timing Data

HAGERSTOWN "Green" System (Washington @ Potomac) - US.40 E/B(Washington) & Cannon

Configuration Phase Sequence

Controller Sequence (MM)1-1-1

Hardware Alternate Sequence Enable: No

Phase Ring Sequence......(Note: Sequences identical to the prior one are not printed)

	01	02	03 04	05 06 07	08	09	10	11	12	13	14	15	16
'	В		В	В В									
Sequence 1													
Ring 1	1	9	2 3	4 11 .									
Ring 2	5	10	6 7	8 12 .									

Phases In Use / Exclusive PED (MM)1-2

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Phases in Use		Х	Х	Х				Х								
Exclusive PED																

Phase Compatibility (MM)1-1-2

Phase	Compatible Phase
n/a	Barrier Mode

Overlap Direction Descriptions

Overlap Description	
---------------------	--

Administration (MM)1-7-1

Enable CU/Cabinet Interlock CRC No
Request Download Controller Data No
Controller Database CRC 0000
Enable Automatic Backup to Datakey Yes

Backup Prevent (MM)1-1-3

	Phases	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Timing /	1																
Backup	2																
-	3																
	4																
	5																
	6																
	7																
	8																
	9																
	10																
	11																
	12																
	13																
	14																
	15																
	16																

Simultaneous Gap (MM)1-1-4

Ommantan	ieous Gap					-	_	_	_	_	40	44	40	40	44	45	40
	Phases	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	1																
	2																
	3																
	4																
	5																
Phase	6																
Must	7																
Gap	8																
With	9			<u> </u>			<u> </u>										<u> </u>
Phase	10																
	11							l .		<u> </u>							
	12									<u> </u>							
	13		Ħ÷	H:			H:	Ħ	Ħ			Ħ		Ė			
	14				•	·				<u> </u>	•		•		•	-	H
	15	_	i i	ŀ	•	·	ŀ	-	•	ŀ	-	•	·	·		·	i i
	16	_			·	·			•	·		•			•		
		_	·	·	·	-	·	•	•	·			·		•	·	_
	Disable		١.														

Load Switch Assignments (MMU Channel) (MM)1-3

	Phase /	Tuna		Dimi	ming			Pow	er Up		Αι	ıto	Flash
	Overlap	Type	Red	Yellow	Green	Dark	Auto	Red	Yellow	Dark	Red	Yellow	Together
1	1	0				+	Х				Х		
2	2	0				+	Х				Х		
3	3	0				+	Х				Х		
4	4	0				+	Х				Х		
5	5	0				+	Х				Х		
6	6	0				+	Х				Х		
7	7	0				+	Х				Х		
8	8	0				+	Х				Х		
9	9	0				+	Х				Х		
10	10	0				+	Х				Х		
11	2	Р				+	Χ				Х		
12	6	Р				+	Х				Х		
13	13	0				+	Х				Х		
14	14	0				+	Х				Х		
15	15	0				+	Х				Х		
16	16	0		·		+	Х			·	Х		

HAGERSTOWN "Green" System (Washington @ Potomac) - US.40 E/B(Washington) & Cannon

Controller Timing Plan (MM)2-1 Plan 1

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Direction		EB	SBLT	SB				NB								
Min Green	0	15	3	10	0	0	0	10	5	5	5	5	5	5	5	5
BK Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CS Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delay Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walk	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	10
Walk 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walk Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ped Clear	0	7	0	7	0	7	0	7	0	7	0	7	0	16	0	16
Ped Clear 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ped Clear Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ped CO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Ext	0.0	5.0	3.0	3.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	5.0	5.0	5.0	5.0
Vehicle Ext 2	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
Max 1	0	40	10	25	0	0	0	25	0	0	0	0	35	35	35	35
Max 2	0	80	10	45	0	0	0	45	0	0	0	0	40	40	40	40
Max 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DYM Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DYM Stp	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
Yellow	3.0	4.0	3.0	4.0	3.0	3.0	3.0	4.0	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0
Red Clear	1.0	1.0	1.0	2.0	1.0	1.0	1.0	2.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
Red Max	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
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
ACT B4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEC/ACT	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
Max Int	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Time B4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cars Wt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STPT Duc	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
Time To Reduce	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min Gap	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

HAGERSTOWN "Green" System (Washington @ Potomac) - US.40 E/B(Washington) & Cannon

Controller Options

Controller Options (MM)2-6-1

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Flashing Green Phase																
Guaranteed Passage																
Non Act 1		Х														
Non Act 2																
Dual Entry				Х				Х								
Conditional Service																
Conditional Reservice																
Ped Reservice																
Rest In Walk																
Flashing Walk																
Ped Clear Yellow																
Ped Clear Red																
IGRN + Veh Ext																

Ped Clear Protect: Off Red Revert: 2.0

Act Pre-Time (MM)2-7

Pre-Time Mode Enable: No Free Input Enables Pre-Timed: Yes

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Pre-Timed Phase																

Phase Recall Options (MM)2-8

Plan 1

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Lock Detector																
Vehicle Recall																
Ped Recall																
Max Recall		Х		Х				Х								
Soft Recall																
No Rest																
Al Calc																

HAGERSTOWN "Green" System (Washington @ Potomac) - US.40 E/B(Washington) & Cannon

Coordination Pattern Data Pattern Data (MM)3-2

Pattern - 1

Split Pattern	1	TS2 (Pat-Off)	0-1	Splits in
Cycle	70	Std (COS)	111	Offsets in
Offset Value	50%	Dwell/Add Time	0	
Actuated Coord	No	Timing Plan	0	
Actuated Walk Rest	No	Sequence	0	
Phase Reservice	No	Action Plan	0	
Max Select	None	Force Off	None	

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description		EB	SBLT	SB				NB								
Splits (Split Pat 1)	0	56	0	44	0	0	0	44	0	0	0	0	0	0	0	0
Preference 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Preference 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Disp.	-	0	0	0
Split Sum	100%	44%	0%	0%

Misc. Data					
Veh. Permissive 1	0	Veh. Permissive 2	0	Veh. Permissive 2 Disp.	0
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial Pat	0

Percent

Percent

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coordinated Phases		Х														
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													Χ	Χ	Х	Х
Special Function Output										•			•		•	

Pattern - 2

Split Pattern	2	TS2 (Pat-Off)	0-2	
Cycle	70	Std (COS)	122	
Offset Value	43%	Dwell/Add Time	0	
Actuated Coord	No	Timing Plan	0	
Actuated Walk Rest	No	Sequence	0	
Phase Reservice	No	Action Plan	0	
Max Select	None	Force Off	None	

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description		EB	SBLT	SB				NB								
Splits (Split Pat 2)	0	56	0	44	0	0	0	44	0	0	0	0	0	0	0	0
Preference 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Preference 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Disp.	-	0	0	0
Split Sum	100%	44%	0%	0%

MISC. Dala					
Veh. Permissive 1	0	Veh. Permissive 2	0	Veh. Permissive 2 Disp.	0
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial Pat	0

Splits in Offsets in

Percent Percent

Split Pattern Data

opiii raileiii bala																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coordinated Phases		Х														
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													Χ	Х	Χ	Х
Special Function Output									1							

Pattern - 3

i attern - J					
Split Pattern	3	TS2 (Pat-Off)	0-3	Splits in	Percent
Cycle	90	Std (COS)	211	Offsets in	Percent
Offset Value	4%	Dwell/Add Time	0		
Actuated Coord	No	Timing Plan	0		
Actuated Walk Rest	No	Sequence	0		
Phase Reservice	No	Action Plan	0		
Max Select	None	Force Off	None		

Split Preference Phases

<u> </u>																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description		EB	SBLT	SB				NB								
Splits (Split Pat 3)	0	60	0	40	0	0	0	40	0	0	0	0	0	0	0	0
Preference 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Preference 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Disp.	-	0	0	0
Split Sum	100%	40%	0%	0%

Misc. Data					
Veh. Permissive 1	0	Veh. Permissive 2	0	Veh. Permissive 2 Disp.	0
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial Pat	0

opiit i attern bata																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coordinated Phases		Χ														
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													X	X	Х	Х
Special Function Output									1							

Pattern - 4

Split Pattern	4	TS2 (Pat-Off)	1-1	
Cycle	90	Std (COS)	222	
Offset Value	86%	Dwell/Add Time	0	
Actuated Coord	No	Timing Plan	0	
Actuated Walk Rest	No	Sequence	0	
Phase Reservice	No	Action Plan	0	
Max Select	None	Force Off	None	

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description		EB	SBLT	SB				NB								
Splits (Split Pat 4)	0	60	0	40	0	0	0	40	0	0	0	0	0	0	0	0
Preference 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Preference 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Disp.	-	0	0	0
Split Sum	100%	40%	0%	0%

Misc. Data					
Veh. Permissive 1	0	Veh. Permissive 2	0	Veh. Permissive 2 Disp.	0
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial Pat	0

Splits in

Offsets in

Percent

Percent

Split Pattern Data

opini i attorni bata																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coordinated Phases		Х														
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													Х	Х	Х	Х
Special Function Output									1							

Pattern - 5

i attern - J					
Split Pattern	5	TS2 (Pat-Off)	1-2	Splits in	Percent
Cycle	90	Std (COS)	233	Offsets in	Percent
Offset Value	8%	Dwell/Add Time	0		
Actuated Coord	No	Timing Plan	0		
Actuated Walk Rest	No	Sequence	0		
Phase Reservice	No	Action Plan	0		
Max Select	None	Force Off	None		

Split Preference Phases

philit reference i nucce																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description		EB	SBLT	SB				NB								
Splits (Split Pat 5)	0	59	0	41	0	0	0	41	0	0	0	0	0	0	0	0
Preference 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Preference 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Disp.	-	0	0	0
Split Sum	100%	41%	0%	0%

Misc. Data					
Veh. Permissive 1	0	Veh. Permissive 2	0	Veh. Permissive 2 Disp.	0
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial Pat	0

opiil Falletti Dala																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coordinated Phases		Χ														
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													X	X	X	Х
Special Function Output											•	•		,	•	

Pattern - 6

Split Pattern	6	TS2 (Pat-Off)	1-3	
Cycle	120	Std (COS)	311	
Offset Value	50%	Dwell/Add Time	0	
Actuated Coord	No	Timing Plan	0	
Actuated Walk Rest	No	Sequence	0	
Phase Reservice	No	Action Plan	0	
Max Select	None	Force Off	None	

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description		EB	SBLT	SB				NB								
Splits (Split Pat 6)	0	62	0	38	0	0	0	38	0	0	0	0	0	0	0	0
Preference 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Preference 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Disp.	-	0	0	0
Split Sum	100%	38%	0%	0%

Misc. Data					
Veh. Permissive 1	0	Veh. Permissive 2	0	Veh. Permissive 2 Disp.	0
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial Pat	0

Splits in

Offsets in

Percent

Percent

Split Pattern Data

phi i ditori bata																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coordinated Phases		Χ														
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													Χ	Х	Х	Х
Special Function Output									1							

Pattern - 7

i attorri					
Split Pattern	7	TS2 (Pat-Off)	2-1	Splits in	Percent
Cycle	120	Std (COS)	333	Offsets in	Percent
Offset Value	58%	Dwell/Add Time	0		
Actuated Coord	No	Timing Plan	0		
Actuated Walk Rest	No	Sequence	0		
Phase Reservice	No	Action Plan	0		
Max Select	None	Force Off	None		

Split Preference Phases

VIII TOTOLOGICO TINGGO																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description		EB	SBLT	SB				NB								
Splits (Split Pat 7)	0	66	0	34	0	0	0	34	0	0	0	0	0	0	0	0
Preference 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Preference 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Disp.	-	0	0	0
Split Sum	100%	34%	0%	0%

Misc. Data					
Veh. Permissive 1	0	Veh. Permissive 2	0	Veh. Permissive 2 Disp.	0
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial Pat	0

opiit i attern bata																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coordinated Phases		Χ														
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													X	X	Х	Х
Special Function Output									1							

HAGERSTOWN "Green" System (Washington @ Potomac) - US.40 E/B(Washington) & Cannon

Coordination Split Pattern Data Split Pattern Data (MM)3-3

Split Pattern - 1

opiit i atterni i																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description		EB	SBLT	SB				NB								
Splits (percent)	0	56	0	44	0	0	0	44	0	0	0	0	0	0	0	0
Coordinated Phases		Х														
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													Х	Х	Х	Х

Ring	1	2	3	4
Split Sum	100%	44%	0%	0%

Split Pattern - 2

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description		EB	SBLT	SB				NB								
Splits (percent)	0	56	0	44	0	0	0	44	0	0	0	0	0	0	0	0
Coordinated Phases		Х														
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													Х	Х	Х	Х

Ring	1	2	3	4
Split Sum	100%	44%	0%	0%

Split Pattern - 3

Split Pattern - 3																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description		EB	SBLT	SB				NB								
Splits (percent)	0	60	0	40	0	0	0	40	0	0	0	0	0	0	0	0
Coordinated Phases		Х														
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit										, i			X	X	Х	Х

Ring	1	2	3	4
Split Sum	100%	40%	0%	0%

Split Pattern - 4

Spill Falletii - 4																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description		EB	SBLT	SB				NB								
Splits (percent)	0	60	0	40	0	0	0	40	0	0	0	0	0	0	0	0
Coordinated Phases		Χ														
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													Х	Х	Χ	Х

Ring	1	2	3	4
Split Sum	100%	40%	0%	0%

Split Pattern - 5

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description		EB	SBLT	SB				NB								

Splits (percent)	0	59	0	41	0	0	0	41	0	0	0	0	0	0	0	0
Coordinated Phases		X														
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													Х	Х	Х	Х

Ring	1	2	3	4
Split Sum	100%	41%	0%	0%

Split Pattern - 6

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description		EB	SBLT	SB				NB								
Splits (percent)	0	62	0	38	0	0	0	38	0	0	0	0	0	0	0	0
Coordinated Phases		Χ														
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													Х	Х	Х	Х

Ring	1	2	3	4
Split Sum	100%	38%	0%	0%

Split Pattern - 7

opiit i attern - i	-		1													
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description		EB	SBLT	SB				NB								
Splits (percent)	0	66	0	34	0	0	0	34	0	0	0	0	0	0	0	0
Coordinated Phases		Х														
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													Х	Х	Х	Х

Ring	1	2	3	4
Split Sum	100%	34%	0%	0%

HAGERSTOWN "Green" System (Washington @ Potomac) - US.40 E/B(Washington) & Cannon

Preemptor

Preempt Plan (MM)4-1

Plan 1

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Overlap	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р
Track Clear Vehicle																
Track Clear Overlap																
Enable Trailing																
Dwell Vehicle		Χ														
Dwell Ped																
Dwell Overlap		Х														
Cycling Vehicle																
Cycling Ped																
Cycling Overlap																
Exit Phase																
Exit Calls																
Special Funciton																

Enable	Yes	Preempt Override	No	Interlock Enable	No
Detector Lock	Yes	Delay	0	Inhibit	0
Override Flash	Yes	Duration	0	CLR > GRN	No
Term Overlap Asap	No	PC Through Yellow	No	Terminate Phase	No
Ped Dark	No	Track Clear Rsrv	No	Dwell Flash	Off
Linked Pmt	0	Flash Exit Color	Green	Exit Option	Off
Exit Timing Plan	0	Reservice	0	Fault Type	Hard

Ring	1	2	3	4
Free During Preempt	No	No	No	No

Timing	Walk	Ped Clr	Min Grn	Yellow	Red
Entrance	0	255	8	4.0	2.0
	Min Grn	Ext Grn	Max Grn	Yellow	Red
Track Clear	0	0	0	4.0	1.0
	Min Dwell	Pmt Ext	Max Time	Yellow	Red
Dwell / Cycle-Exit	8	0.0	0	4.0	2.0

Preempt Active Out	On	Preempt Active Dwell	No
Other Priority Preempt	On	Non-Priority Preempt	No
Inhibit Extension Time	0.0	Ped Priority Return	Off
Veh Priority Return	Off	Queue Delay	Off
Conditional Delay	Off		

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Veh Pri Return % Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plan 2

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Overlap	Α	В	С	D	E	F	G	Н	Т	J	К	L	М	N	0	Р
Track Clear Vehicle																
Track Clear Overlap																
Enable Trailing																
Dwell Vehicle				Х												
Dwell Ped																
Dwell Overlap				Х												
Cycling Vehicle																
Cycling Ped																
Cycling Overlap																
Exit Phase		Х														
Exit Calls																
Special Funciton																

Enable	Yes	Preempt Override	No	Interlock Enable	No
Detector Lock	Yes	Delay	0	Inhibit	0
Override Flash	Yes	Duration	0	CLR > GRN	No
Term Overlap Asap	No	PC Through Yellow	No	Terminate Phase	No
Ped Dark	No	Track Clear Rsrv	No	Dwell Flash	Off
Linked Pmt	0	Flash Exit Color	Green	Exit Option	Off
Exit Timing Plan	0	Reservice	0	Fault Type	Hard

Ring	1	2	3	4
Free During Preempt	No	No	No	No

Timing	Walk	Ped Clr	Min Grn	Yellow	Red
Entrance	0	255	8	4.0	2.0
	Min Grn	Ext Grn	Max Grn	Yellow	Red
Track Clear	0	0	0	4.0	1.0
	Min Dwell	Pmt Ext	Max Time	Yellow	Red
Dwell / Cycle-Exit	8	0.0	0	4.0	2.0

Preempt Active Out On Preempt Active Dwell No Other Priority Preempt On Non-Priority Preempt No 0.0 Ped Priority Return Off Inhibit Extension Time Veh Priority Return Off Queue Delay Off Conditional Delay Off

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Veh Pri Return % Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plan 3

			1			1		1						1		
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Overlap	Α	В	С	D	E	F	G	Н	_	J	K	L	М	N	0	Р
Track Clear Vehicle																
Track Clear Overlap																
Enable Trailing																
Dwell Vehicle			Х					Х								
Dwell Ped																
Dwell Overlap			Х					Х								
Cycling Vehicle																
Cycling Ped																
Cycling Overlap																
Exit Phase		Х														
Exit Calls																
Special Funciton																

Enable	Yes	Preempt Override	No	Interlock Enable	No
Detector Lock	Yes	Delay	0	Inhibit	0
Override Flash	Yes	Duration	0	CLR > GRN	No
Term Overlap Asap	No	PC Through Yellow	No	Terminate Phase	No
Ped Dark	No	Track Clear Rsrv	No	Dwell Flash	Off
Linked Pmt	0	Flash Exit Color	Green	Exit Option	Off
Exit Timing Plan	0	Reservice	0	Fault Type	Hard

Ring	1	2	3	4
Free During Preempt	No	No	No	No

Timing	Walk	Ped Clr	Min Grn	Yellow	Red
Entrance	0	255	8	4.0	2.0
	Min Grn	Ext Grn	Max Grn	Yellow	Red
Track Clear	0	0	0	4.0	1.0
	Min Dwell	Pmt Ext	Max Time	Yellow	Red
Dwell / Cycle-Exit	8	0.0	0	4.0	2.0

Preempt Active Out	On	Preempt Active Dwell	No
Other Priority Preempt	On	Non-Priority Preempt	No
Inhibit Extension Time	0.0	Ped Priority Return	Off
Veh Priority Return	Off	Queue Delay	Off
Conditional Delay	Off		

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Veh Pri Return % Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Configuration

					Con	trolle	er Se	quence	Pric	rity			
		1	2	3	4	5	6	7	8	9	10	11	12
Ring 1 Phases . Ring 2 Phases .		. 2	1	3	4	9	10	0	0	0	0	0	0
Ring 2 Phases .	•	. 6	5	7	8	11	12	0	0	0	0	0	0
								Phase					
		1	2	3	4	5	6	7	8	9	10	11	12
In Use				Х				X	Х	•	-		•
Exclusive Ped .			•	•	•	•	•	•	•	•	•	•	•
Direction		.WB	WB	PMPT	SB			PMPT :	NB				

Overlap A B C D

Direction . . .

Load Switch Channel/Driver Group Assign (Info Only):

Load	f				Signal	
Swite	ch				Driver	Group
JMM)	J)				Phase/	
Chanr	ıe:	L			Ovlap	Ped
1					1	•
2					2	
3					3	
4					4	
5					0	
6					0	
7					7	
8					8	
9					0	•
10					0	
11					0	
12					0	
13					0	
14					0	
15					0	
16					0	

Configuration Continued

Port 2:

Port 3:

Event Enabling	Alarm Enabling
Critical RFE'S (MMU/TF)	. ALARM 1
Non-Critical RFE'S (DET/TEST)	. ALARM 2
Detector Errors	. ALARM 3
Coordination Errors	. ALARM 4
MMU Flash Faults	X ALARM 5
Local Flash Faults	X ALARM 6
Preempt	. ALARM 7
Power On/Off	X ALARM 8
Low Battery	X ALARM 9
	ALARM 10
	ALARM 11
	ALARM 12
	ALARM 13
	ALARM 14
	ALARM 15
	ALARM 16

Supervisor Access Code. . . ****
Data Change Access Code . . ****

MMU Compatibility Program (Info Only)

Channel		-	Is A	Allo	owe	d to	Тi	me	Wit	h C	han	nel		
	16 15	14	13	12	11	10	9	8	7	6	5	4	3	2
1														
2						•				•		•		
3		•		•		•	•		•	•		•		
4				•		•	•	•	•	•				
5				•		•	•	•	•	•				
6				•		•	•	•	•					
7						•		•						
8				•		•	•							
9				•		•								
10														
11				•										
12														
13														
14														
15														

Version Info:

Software Assy.	Part No.	Version
Boot	27831	2.83
Program	45561	7.9
Application		. 3
Help	27891	6.33
Configuration	27918	C1897

By-Phase Timing Data

	_		_		_		nase_	_				
Direction	MB	WB	3 PMPT	SB	5	6	7 PMPT	NB	9	10	11	12
Minimum Green	5	15	5	5	0	0	5	5	5	5	5	5
Bike Min Green	0	0	0	0	0	0	0	0	0	0	0	0
Cond Serv Min Grn	. 0	0	0	0	0	0	0	0	0	0	0	0
Walk	0	0	0	0	0	0	0	0	0	10	0	10
Ped Clearance	7	16	0	7	0	7	0	16	0	16	0	16
Veh Extension	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0	5.0	5.0
Alt Veh Exten	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Extension	0	0	0	0	0	0	0	0	0	0	0	0
Max 1	15	40	10	25	0	0	10	25	35	35	35	35
Max 2	25	60	10	45	0	0	10	45	40	40	40	40
Max 3	0	0	0	0	0	0	0	0	0	0	0	0
Det. Fail Max	0	0	0	0	0	0	0	0	0	0	0	0
Yellow Change	4.0	4.0	4.0	4.0	3.0	3.0	4.0	4.0	3.0	3.0	3.0	3.0
Red Clearance	1.0	2.0	2.0	2.0	1.0	1.0	2.0	2.0	1.0	1.0	1.0	1.0
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Act. B4 Init	0	0	0	0	0	0	0	0	0	0	0	0
Sec/Actuation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Initial	30	30	30	30	30	30	30	30	30	30	30	30
Time B4 Reduction	. 0	0	0	0	0	0	0	0	0	0	0	0
Cars Waiting	0	0	0	0	0	0	0	0	0	0	0	0
Time To Reduce	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Gap	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

HAGERSTOWN "Orange" System (Franklin @ Cannon) US.40 W/B(Franklin) & Cannon 3/31/2015

Recall Data, Dimming

					P	has	e					
	1	2	3	4	5	6	7	8	9	10	11	12
Locking Detector												
Vehicle Recall	X	X		X				X				
Pedestrian Recall												
Recall To Max	X	X		X				X				
Soft Recall												
Don't Rest Here												
Ped Dark if No Call												

Dimming:

Load Switch

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Green/Walk	NO															
Yellow/Ped Clear.	NO															
Red/Don't Walk	NO															

Coordination Patterns

Pattern 1 Cycle Length 70 COS								
			111					
Offset 0			T T T					
	0	[0]	0					
Vehicle Permissive [1]	0	[2]	0				_	
Vehicle Perm 2 Displacement	0		e Rese		€	NO)	
Splits: Phase 1- 19 2-	46	3 –	0 4-	35				
Phase 5- 0 6-	0	7 –	0 8-	35				
Phase 9- 0 10-	0	11-	0 12-	0	Sp.	lit	Sum:	0
Split Extension/Ring [1]	0	[2]	0					
Split Demand Pattern [1]	0	[2]	0					
XRT Pattern 0								
Phase Number: 1 2 3	4	5	6 7	8	9	10	11	12
Coord Phases X .	_	_		_			_	_
Veh Recall		•		·				Ţ
Veh Max Recall	•	•	•	•	•	•	•	•
_ , _ , ,	•	•		•	•	•	•	•
	•	•		•	•	•	•	•
Veh Omit				•		•		•
Alt Sequence A: . B	• •	C:	. D:	•	Ε:	•	F:	•
Pattern 2							_	
			100					
_			122					
Offset 93								
Vehicle Permissive [1]	0	[2]	0					
Vehicle Perm 2 Displacement	0	Phas	e Rese	rvice	· ·	NO)	
Splits: Phase 1- 19 2-	46	3-	0 4-	35				
Phase 5- 0 6-	0	7 –	0 8-	35				
Phase 9- 0 10-	0	11-	0 12-	0	Sp.	lit	Sum:	0
Split Extension/Ring [1]	0	[2]	0					
Split Demand Pattern [1]		[2]	0					
XRT Pattern 0								
Phase Number: 1 2 3	4	5	6 7	8	9	10	11	12
Coord Phases X .	-	3		O				12
1 D 11	•	•		•	•	•	•	•
	•			_				
77-la M D11			•	•	•	•	•	•
Veh Max Recall	•	•		•		•	•	•
Ped Recall				•	•			•
- 1 - 11	· ·			•	•		•	
Ped Recall					E:		F:	· · ·
Ped Recall	: .	C:		· · ·	E:		F:	
Ped Recall				· · ·	E:		F:	
Ped Recall		C:		· · ·	E:		F:	
Ped Recall				: : : :	E:		F:	
Ped Recall				· · ·	E:		F:	
Ped Recall			211	· · · ·			_	
Ped Recall		 [2] Phas	211	rvice			_	
Ped Recall	 0 0 46	[2] Phas	211 0 se Rese 0 4-	36			_	
Ped Recall		 [2] Phas 3- 7-	211 0 se Rese 0 4- 0 8-	36 36	÷		- D	
Ped Recall		[2] Phas 3- 7- 11-	211 0 se Rese 0 4- 0 8- 0 12-	36 36	÷		_	0
Ped Recall		[2] Phas 3- 7- 11- [2]	211 0 se Rese 0 4- 0 8- 0 12- 0	36 36	÷		- D	0
Ped Recall		[2] Phas 3- 7- 11- [2]	211 0 se Rese 0 4- 0 8- 0 12-	36 36	÷		- D	0
Ped Recall		[2] Phas 3- 7- 11- [2] [2]	211 0 se Rese 0 4- 0 8- 0 12- 0	36 36 0	Sp.	lit) Sum:	
Ped Recall	0 0 46 0 0 0	[2] Phas 3- 7- 11- [2] [2]	211 0 se Rese 0 4- 0 8- 0 12- 0	36 36	Sp.		- D	0
Ped Recall	0 0 46 0 0 0	[2] Phas 3- 7- 11- [2] [2]	211 0 se Rese 0 4- 0 8- 0 12- 0	36 36 0	Sp.	lit) Sum:	
Ped Recall	0 0 46 0 0 0 0	[2] Phas 3- 7- 11- [2] [2]	211 0 se Rese 0 4- 0 8- 0 12- 0 0	36 36 0	Sp.	lit) Sum:	
Ped Recall	0 0 46 0 0 0 0	[2] Phas 3- 7- 11- [2] [2] 5	211 0 se Rese 0 4- 0 8- 0 12- 0 0	36 36 0	Sp.	lit) Sum:	
Ped Recall	0 0 46 0 0 0 0	[2] Phas 3- 7- 11- [2] [2] 5	211 0 se Rese 0 4- 0 8- 0 12- 0 0	36 36 0	Sp.	lit) Sum:	
Ped Recall	0 0 46 0 0 0 0	[2] Phas 3- 7- 11- [2] [2] 5	211 0 se Rese 0 4- 0 8- 0 12- 0 0	36 36 0	Sp.	lit) Sum:	
Ped Recall	0 0 46 0 0 0 0	[2] Phas 3- 7- 11- [2] [2] 5	211 0 se Rese 0 4- 0 8- 0 12- 0 0	36 36 0	9	lit	Sum: 11	

Coordination Patterns

Pattern 4								
('VCIE LENGTH 91) (cos		222					
Cycle Length 90 CO	.00		222					
Vehicle Permissive [1	.1 0	[2]	0					
			_			NT.C	,	
Vehicle Perm 2 Displaceme			se Rese		• •	NC)	
Splits: Phase 1- 17	2- 50	_	0 4-	33				
Phase 5- 0	6- 0		0 8-	33	_			
Phase 9- 0 1	_		0 12-	0	Sp]	Lit	Sum:	0
Split Extension/Ring [1	.] 0	[2]	0					
Split Demand Pattern [1	.] 0	[2]	0					
XRT Pattern 0								
Phase Number: 1 2	3 4	5	6 7	8	9	10	11	12
Coord Phases X								
Veh Recall		_		_	_	_	_	
Veh Max Recall		•		•				
Ped Recall		•	•	•	•	•	•	•
1 0 1:		•		•	•	•	•	•
		·		•		•		•
Alt Sequence A: .	в: .	C:	. D:	•	Ε:	•	F:	•
Pattern 5							_	
	100		222					
-	os		233					
Offset 0	1 0		•					
Vehicle Permissive [1			0					
Vehicle Perm 2 Displaceme			se Rese	ervice		NC)	
Splits: Phase 1- 17	2- 50	3 –	0 4-	33				
Phase 5- 0	6- 0	7 –	0 8-	33				
Phase 9- 0 1	.0- 0	11-	0 12-	0	Sp]	Lit	Sum:	0
Split Extension/Ring [1	.] 0	[2]	0					
Split Demand Pattern [1	.] 0	[2]	0					
XRT Pattern 0								
Phase Number: 1 2	3 4	5	6 7	8	9	10	11	12
Coord Phases X								
							_	_
Veh Recall		•	•	•	•	•	•	•
Veh Recall		•		•			•	•
Veh Max Recall				· ·	•	•		•
Veh Max Recall Ped Recall	· · · · · · · · · · · · · · · · · · ·	· · ·		· · ·	· ·	•	•	•
Veh Max Recall Ped Recall	· · · · · · · · · · · · · · · · · · ·	· · ·		· · ·	·		•	•
Veh Max Recall Ped Recall					E:	· · · · ·	F:	
Veh Max Recall Ped Recall		C:	. D:	· · ·	E:	· · ·	F:	
Veh Max Recall Ped Recall				· · · ·	E:		F:	
Veh Max Recall					E:		F:	
Veh Max Recall			311	: : : : :	E:		F:	
Veh Max Recall	cos			· · · ·	E:		F:	
Veh Max Recall	cos		311			N(-	
Veh Max Recall	cos	 [2] Phas	311				-	
Veh Max Recall	cos	[2] Phas	311 0 se Rese	ervice			-	
Veh Max Recall	cos n 0 ent 0 2- 52 6- 0	[2] Phas 3- 7-	311 0 se Rese 0 4- 0 8-	ervice 29 29)	
Veh Max Recall	COS	[2] Phas 3- 7- 11-	311 0 se Rese 0 4- 0 8- 0 12-	ervice 29 29			-	0
Veh Max Recall	COS	[2] Phas 3- 7- 11- [2]	311 0 se Rese 0 4- 0 8- 0 12- 0	ervice 29 29)	0
Veh Max Recall	COS	[2] Phas 3- 7- 11- [2]	311 0 se Rese 0 4- 0 8- 0 12-	ervice 29 29)	0
Veh Max Recall	COS	[2] Phas 3- 7- 11- [2] [2]	311 0 se Rese 0 4- 0 8- 0 12- 0	ervice 29 29 0		lit) Sum:	
Veh Max Recall	COS	[2] Phas 3- 7- 11- [2] [2]	311 0 se Rese 0 4- 0 8- 0 12- 0 0	ervice 29 29)	0
Veh Max Recall	COS	[2] Phas 3- 7- 11- [2] [2]	311 0 se Rese 0 4- 0 8- 0 12- 0	ervice 29 29 0		lit) Sum:	
Veh Max Recall	COS	[2] Phas 3- 7- 11- [2] [2]	311 0 se Rese 0 4- 0 8- 0 12- 0 0	ervice 29 29 0		lit) Sum:	
Veh Max Recall	COS	[2] Phas 3- 7- 11- [2] [2]	311 0 se Rese 0 4- 0 8- 0 12- 0 0	ervice 29 29 0		lit) Sum:	
Veh Max Recall	COS	[2] Phas 3- 7- 11- [2] [2] 5 .	311 0 Se Rese 0 4- 0 8- 0 12- 0 0	ervice 29 29 0		lit) Sum:	
Veh Max Recall	COS	[2] Phas 3- 7- 11- [2] [2] 5 .	311 0 Se Rese 0 4- 0 8- 0 12- 0 0	ervice 29 29 0		lit) Sum:	
Veh Max Recall	COS	[2] Phas 3- 7- 11- [2] [2] 5	311 0 SE RESE 0 4- 0 8- 0 12- 0 0	ervice 29 29 0		lit	Sum: 11	

Coordination Patterns

Pattern 7													
Cycle Length .		120	C	COS				333					
Offset		34	4										
Vehicle Permis	siv	e .	. [1]	0	[2]		0					
Vehicle Perm 2	Di	spla	acen	nent	0	Pha	se	Rese	rvice	· .	NO)	
Splits: Pha	.se	1-	14	2-	49	3 –	0	4 –	37				
Pha	se	5-	0	6-	0	7 –	0	8 –	37				
Pha	se	9 –	0	10-	0	11-	0	12-	0	Sp	lit	Sum:	0
Split Extension	n/R	ling	[1]	0	[2]		0					
Split Demand E	att	ern	[1]	0	[2]		0					
XRT Pattern		0											
Phase Numbe	r:	1	2	3	4	5	6	7	8	9	10	11	12
Coord Phases .			X			•			•			•	
Veh Recall						•			•			•	
Veh Max Recall						•							
Ped Recall						•			•				•
Veh Omit						•			•				•
Alt Sequence .	•	A:	•	B:	•	C:		D:	•	E:	•	F:	•

Preemptors

```
______
Preemptor 1
Active . . . . . . . X Det Lock . . . . X Ped Dark . . . . .
Priority Preemption. . . . . Yel-Red To Grn. . . Ped Active . . . . Outputs Only During Hold . . . Flash All Outputs . Zero Ped Clr Time. .
Terminate Overlap ASAP . . . Terminate Phases. . Ped Clr Thru Yel . .
Don't Override Flash . . . . Duration Time. . .
Flash During Hold. . . . . . Delay Time . . . . 0
No CVM in Flash. . . . . . . Inhibit Time . . . 0
Fast Flash Grn on Hold Phase. . Min Ped Clear. . . 0
Enable Max Time. . . . . . . Max Time . . . . .
                                     0
                       Exit Max . . . .
                       Min Hold Time. . . 10
                       Hold Delay Time. . 0
              Green Yellow Red
5 0.0 0.0
Minimum . . . . . . 5
Track Clear . . .
                0
                       0.0
                               0.0
                             0.0
                        0.0
Hold. . . . . . .
        Phase/Overlap 1 2 3 4 5 6 7 8 9 10 11 12/ A B C D
Track Clearance Phase . . . .
Hold Phases . . . . . . . X . . . . . . . .
Out of Flash Color for Exit Phases . . . . Green
          ______
Preemptor 2
Active . . . . . . . X Det Lock . . . . X Ped Dark . . . . .
Priority Preemption. . . . . Yel-Red To Grn. . . Ped Active . . . .
Outputs Only During Hold . . . Flash All Outputs \, . Zero Ped Clr Time. \, .
Terminate Overlap ASAP . . . Terminate Phases. . Ped Clr Thru Yel . .
Don't Override Flash . . . . Duration Time. . . 0
Flash During Hold. . . . . . Delay Time . . . . 0
No CVM in Flash. . . . . . . Inhibit Time . . . 0
Fast Flash Grn on Hold Phase. . Min Ped Clear. . . 5
Enable Max Time. . . . . . . Max Time . . . . . 0
                       Exit Max . . . .
                                     Ω
                       Min Hold Time. . . 10
                       Hold Delay Time. . 0
                               Red
              Green Yellow
                       0.0
Minimum . . . . . 0
                               0.0
                0
                               0.0
Track Clear . . . .
                       0.0
Hold. . . . . . .
                        0.0
                               0.0
        Phase/Overlap 1 2 3 4 5 6 7 8 9 10 11 12/ A B C D
Hold Phases . . . . . . X . .
Out of Flash Color for Exit Phases . . . Green
Linked Preemptor . . . . 0
           ______
```

Preemptors

Preemptor 3	
Active X	Det Lock X Ped Dark
Priority Preemption	
Outputs Only During Hold	
Terminate Overlap ASAP	
Don't Override Flash	
Flash During Hold	
No CVM in Flash	
Fast Flash Grn on Hold Phase	
Enable Max Time	
Enable Max IIII	Exit Max 0
	Min Hold Time 10
	Hold Delay Time 0
	HOIG Delay IIMe 0
Green	Yellow Red
	0.0 0.0
Track Clear 0 Hold	0.0 0.0
noia	0.0
Phase/Overlap 1 2	3 4 5 6 7 8 9 10 11 12/ A B C D
_	
Track Clearance Phase	
Hold Phases	
Out of Flash Color for Exit Pha	ses Green
Linked Preemptor 0	
Preemptor 4	
Preemptor 4	Det Lock X Ped Dark
Preemptor 4 Active X	
Preemptor 4 Active X Priority Preemption	Det Lock X Ped Dark
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active Flash All Outputs . Zero Ped Clr Time
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active Flash All Outputs . Zero Ped Clr Time Terminate Phases Ped Clr Thru Yel
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active Flash All Outputs . Zero Ped Clr Time Terminate Phases Ped Clr Thru Yel Duration Time 0
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active Flash All Outputs . Zero Ped Clr Time Terminate Phases Ped Clr Thru Yel Duration Time 0 Delay Time 0
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active Flash All Outputs . Zero Ped Clr Time Terminate Phases Ped Clr Thru Yel Duration Time 0 Delay Time 0 Inhibit Time 0 Min Ped Clear 0
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active Flash All Outputs . Zero Ped Clr Time Terminate Phases Ped Clr Thru Yel Duration Time 0 Delay Time 0 Inhibit Time 0 Min Ped Clear 0 Max Time 0
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active Flash All Outputs . Zero Ped Clr Time Terminate Phases Ped Clr Thru Yel 0 Duration Time 0 Inhibit Time 0 Min Ped Clear 0 Max Time 0 Exit Max 0 Min Hold Time 10 Hold Delay Time 0
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active Flash All Outputs . Zero Ped Clr Time Terminate Phases Ped Clr Thru Yel 0 Duration Time 0 Inhibit Time 0 Min Ped Clear 0 Max Time 0 Exit Max 0 Min Hold Time 10 Hold Delay Time 0
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active Flash All Outputs . Zero Ped Clr Time Terminate Phases Ped Clr Thru Yel 0 Duration Time 0 Inhibit Time 0 Min Ped Clear 0 Max Time 0 Exit Max 0 Min Hold Time 10 Hold Delay Time 0
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active Flash All Outputs . Zero Ped Clr Time Terminate Phases Ped Clr Thru Yel Duration Time 0
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active Flash All Outputs . Zero Ped Clr Time Terminate Phases Ped Clr Thru Yel Duration Time 0 Delay Time 0 Inhibit Time 0 Min Ped Clear 0 Max Time 0 Exit Max 0 Min Hold Time 10 Hold Delay Time 0 Yellow Red 0.0 0.0 0.0 0.0 0.0 0.0
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active Flash All Outputs . Zero Ped Clr Time Terminate Phases Ped Clr Thru Yel Duration Time 0 Delay Time 0 Inhibit Time 0 Min Ped Clear 0 Max Time 0 Min Hold Time 0 Min Hold Time 10 Hold Delay Time 0
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active
Preemptor 4 Active	Det Lock X Ped Dark Yel-Red To Grn Ped Active
Preemptor 4 Active	Det Lock X Ped Dark
Preemptor 4 Active	Det Lock X Ped Dark

Preemptors

Priority Preemption	Duration Time 0 Delay Time 0 Inhibit Time 0 Min Ped Clear 0
Green Minimum 0 Track Clear 0 Hold	Yellow Red 0.0 0.0 0.0 0.0 0.0 0.0
Terminate Overlap	
Preemptor 6 Active	
Green Minimum 0 Track Clear 0 Hold	Yellow Red 0.0 0.0 0.0 0.0 0.0 0.0
Phase/Overlap 1 2 Terminate Overlap Track Clearance Phase Hold Phases Exit Phases Exit Calls on Phase	
Out of Flash Color for Exit Phas	ses Green

	COUNTY: RDM INFORM ROAD NAME: DIRECTION: MOVEMENT: INTERVALS MIN GREEN CS GREEN CS GREEN WALK PED CLEAR VEH EXT	NUMBER: 31004037.05 LOCATION: US HO Magor Dr./Traceys Later Communication of the prince of the princ
UMBEI LUASH PHASE 1 PHASE 1 S 3,0		LOCATION: US HO & Manor Dr. / Tracey PED BY: TDSD 7/03 DATE INSTALLE ASE 4 PHASE 6 PHASE 6 PHASE 7 PHASE 6 PHASE 6 PHASE 6 PHASE 7 PHASE 6 PHASE 6 PHASE 7 PHASE 6 PHASE 6 PHASE 7 PHASE 8 PHASE 7 PHASE 8 PHA
UMBER: 2100 Loshington PHASE 1 PHASE 2 Thro PHASE 2 Thro 30 3,0 5,0	3: 3100 109 to 10 US 40 W/B Thru PHASE 2 30 5:0	LOCATION: US HO Marce Dr. / Traces PED BY: TDSD 7/03 DATE INSTALLE ASE 4 PHASE 6 PHASE 7 PHASE 0 PHASE 10 ASE 4 PHASE 6 PHASE 6 PHASE 7 PHASE 0 PHASE 6 ASE 4 PHASE 6 PHASE 6 PHASE 7 PHASE 0 PHASE 10 B S S S S S S S S S S S S
UMBER: 31004037. Usashington DEVI PHASE 1 PHASE 2 PHASE 3 15 40 US 40 E/B W/B Left Thru PHASE 2 PHASE 3 5 30 5,0 5,0	R: 21004037. DEVI PHASE 2 PHASE 3 US 40 Thru PHASE 2 PHASE 3 5:0	DSD 7/03 DATE INSTALLE PHASE 0 PHASE 7 PHASE 0 PHASE E/D A/D Tracey E/D A/D Tracey E/D A/D Tracey PHASE 0 PHASE 7 PHASE 0 PHASE 0
		SE 0 PHASE 7 PHASE 0 PHASE 7 SE 0 PHASE 7 PHASE 0 PHASE 0 ACU The Coy SE 0 PHASE 7 PHASE 0 PHASE 0
		Manoe De Traces DATE INSTALLE PHASE 7 PHASE 0 PHASE 7 A/B Theo PHASE 7 PHASE 0 PHASE 0
LOCATION: _US PED BY: \(\tau \) DSD ASE 4 PHASE 5 PHA	LOCATION: US PED BY: TDSD ASE 4 PHASE 6 PHASE ASE 4 PHASE 6 PHASE ASE 4 PHASE 6 PHASE B 5 3 B 5 3 B 5 3 B 5 3 B 5 3 B 5 3	Dr. / Trace) E INSTALLE PHASE 0 PHASE Tracey Theo Theo PHASE 0 PHASE 0
LOCATION: US 40 0 M PEID BY: TDSD 7/03 ASE 4 PHASE 6 PHASE 6 PHASE ASE 4 PHASE 6 PHASE 6 PHASE 8 5 30 1 30 3.0 3.0 5.0 1 30 30 30 30 30 30 30 30 30 30	LOCATION: US 40 9 M PED BY: TDSD 7/03 ASE 4 PHASE 5 PHASE 6 P	CACCYS LO PRASE II
LOCATION: US 40 @ Manor D PED BY: TDSD 7/03 DATE ASE 4 PHASE 6 PHASE 6 PHASE 7 P ASE 4 PHASE 6 PHASE 6 PHASE 7 P ASE 4 PHASE 6 PHASE 6 PHASE 7 P ASE 4 PHASE 6 PHASE 6 PHASE 7 P AS 5 30 3 3 3 5 6 60	LOCATION: US HO & Marger D PED BY: TDSD 7/03 DATE ASE 4 PHASE 6 PHASE 0 PHASE 7 P ASE 4 PHASE 6 PHASE 0 PHASE 7 P ASE 4 PHASE 6 PHASE 0 PHASE 7 P ASE 4 PHASE 6 PHASE 0 PHASE 7 P ASE 4 PHASE 6 PHASE 0 PHASE 7 P A 3 3 3 5 5 5 0	11 aumul 11 10 2.00 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
LOCATION: US HO WARRE Dr. / Tracey PEID BY: TDSD 7/03 DATE INSTALLE ASE 4 PHASE 6 PHASE 0 PHASE 7 PHASE 0 PHASE ACC US HO US HO FIASE 0 PHASE 7 PHASE 0 PHASE 4 PHASE 6 PHASE 6 PHASE 7 PHASE 0 PHASE 0 PHASE 0 B 5 30 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	PED BY: TOSP 7/03 DATE INSTALLE ASE 4 PHASE 6 PHASE 6 PHASE 7 PHASE 6 PHASE 6 ASE 4 PHASE 6 PHASE 6 PHASE 7 PHASE 6 PHASE 6 ASE 4 PHASE 6 PHASE 6 PHASE 7 PHASE 6 PHASE 6 B 5 30 B 5 30 B 6 PHASE 7 PHASE 6 PHASE 6 PHASE 6 PHASE 6 PHASE 6 PHASE 6 PHASE 7 PHASE 6 PHASE 6 PHASE 6 PHASE 7 PHASE 6 PHASE 6 PHASE 7 PHASE 6 PHASE	THE

	ALARM 18		10,	39 2	ga 92	3; 7;	£ 1:
	ALARM I		-	,		PEER ADDRESS	PERR TO
	ALARM II					1	
	ALARM I3					PEER ENABLE	PEER TO
	ALARM II				T PIXTORE	몆	DIAGNOSTIC
	ALARM 10		•		•		HHU DIBABLE
	ALARM 9		<			NO AO TYPE I	TYPE 3 RUNS
	ALARM 8				XX		DETECTOR
	ALARM 7					PACIL	TERM & F
	ALARM 6	\dashv		0	1 2		
	ALARM 6	<u>.</u>	K 6 7	BIO NOMBEN	4		
	ALARM 4		gad	ı	10000	OPTIONS - EXC	4. SDLC OF
	ALARM 8				DNI A BIL RQ)	
	ALARM 2			OT			8
	ALARM 1			10			7
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				***************************************			DETECTOR	1	3	3	4		6	7	8	9	10		_
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I PED AND SYSTEM DETECTOR LOCAL ASSIGNMENT

SYSTEM DET	ECTOR L	OG INT	ERVAL					
LOCAL			PHA	se ped	DETECT	OR		
PED DET			1	2	3	4	5	6
Number					İ			
			7	8	9	10	. 11	12
Number								
	***			. 1	1	1	1.	<u> </u>
LOCAL			LOCAL	SYSTEM	DET 1	NUMBER	ξ	
DETECTOR	1	2	3	4	5	6	7	8
NUMBER		1						
	9	10	11	12	13	14	15	16
NUMBER							 	

US.40 HAGERSTOWN(US40 @ Mt.Aetna) - US.40 & Edgewood

Configuration Phase Sequence

Controller Sequence (MM)1-1-1

Hardware Alternate Sequence Enable: No

Phase Ring Sequence	(Note: Sequences	identical to the	prior one are not pr	inted)
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Phase Ring Sequ	uence 01	(Note: Sed	quences iden	tical to the p	rior one are r	not prin	ted) 11	12	13	14	15	16
		02 03 		00 07 	1	10	111	12	13	14	13	10
0 4	В	В	В	В	В							
Sequence 1												
Ring 1	1	2 3	4 9	10 13	14 .	•	•	•	•	•	•	•
Ring 2	5	6 7	8 11	12 15	16 .	•	•	•	•	•	•	•
Sequence 2												
Ring 1	2	1 3	4 9	10 13	14 .							
Ring 2	5	6 7	8 11	12 15	16 .							
Sequence 3												
Ring 1	1	2 4	3 9	10 13	14 .							
Ring 2	5	6 7	8 11	12 15	16 .							
Sequence 4												
Ring 1	1	2 3	4 9	10 13	14 .							
Ring 2	6	5 7	8 11	12 15	16 .							
Sequence 5	·	•	•	•	·							
Ring 1	1	2 3	4 9	10 13	14 .							
Ring 2		6 8	7 11	12 15	16 .	_						
Sequence 6	, -	- 1 -		,		-	-	-	-	-	-	-
Ring 1	1	2 3	4 10	9 13	14 .							
Ring 2	5	6 7	8 11	12 15	16 .	•	•	•	•	•	•	•
Sequence 7	, 5	0 1	0 11	12 13	.0 .	•	•	•	•	•	•	•
Ring 1	1	2 3	4 9	10 13	14 .							
•		2 3 6 7			:	•	•	•	•	•	•	•
Ring 2	5	6 7	8 12	11 15	16 .	•	•	•	•	•	•	•
Sequence 8		4 1 4	0 0	40 40	44 1							
Ring 1	2	1 4	3 9	10 13	14 .	•	•	•	•	•	•	•
Ring 2	5	6 7	8 11	12 15	16 .	•	•	•	•	•	•	•
Sequence 9												
Ring 1	1	2 3	4 9	10 13	14 .	•	•	•	•	•	•	•
Ring 2	6	5 8	7 11	12 15	16 .	•	•	•	•	•	•	•
Sequence 10												
Ring 1	2	1 3	4 9	10 13	14 .			•		•	•	•
Ring 2	5	6 8	7 11	12 15	16 .			•		•	•	•
Sequence 11												
Ring 1	1	2 4	3 9	10 13	14 .							
Ring 2	6	5 7	8 11	12 15	16 .							
Sequence 12												
Ring 1	2	1 3	4 9	10 13	14 .							
Ring 2	6	5 7	8 11	12 15	16 .							
Sequence 13												
Ring 1	1	2 4	3 9	10 13	14 .							
Ring 2	5	6 8	7 11	12 15	16 .							
Sequence 14	·	•	•	•	·							
Ring 1	2	1 4	3 9	10 13	14 .							
Ring 2	6	5 7	8 11	12 15	16 .							
Sequence 15	, 0	÷ 1 .	-	, .3		•	•	•	•	•	•	•
Ring 1	1	2 4	3 9	10 14	13 .							
Ring 2	6	5 8	7 12	11 16		•	•	•	•	•	•	•
Sequence 16	1 0	3 8	, 12	11 10	15 .	•	•	•	•	•	•	•
Ring 1	2	1 3	4 9	10 13	14 .							
•					•	•	•	•	•	•	•	•
Ring 2	6	5 8	7 11	12 15	16 .	•		•	•	•	•	•

Phases In Use / Exclusive PED (MM)1-2

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Phases in Use	Х	Х	Х	Х	Χ	Х										
Exclusive PED																

Phase Compatibility (MM)1-1-2

Phase	Compatible Phase
n/a	Barrier Mode

Overlap Direction Descriptions

Overlap Description

Administration (MM)1-7-1

Enable CU/Cabinet Interlock CRC No
Request Download Controller Data No
Controller Database CRC 0000
Enable Automatic Backup to Datakey Yes

Backup Prevent (MM)1-1-3

	Phases	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Timing /	1																
Backup	2																
-	3																
	4																
	5																
	6																
	7																
	8																
	9																
	10																
	11																
	12																
	13																
	14																
	15																
	16																

Simultaneous Gap (MM)1-1-4

Ollifultarie	ouo ou	, ,	, .	• •													
	Phases	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	1																
	2						Х										
	3																
	4								Х								-
	5																
Phase	6		Х														
Must	7																
Gap	8				Х												
With	9																
Phase	10																
	11																
	12																
	13																
	14																
	15																
	16																
	Disable																

Load Switch Assignments (MMU Channel) (MM)1-3

	Phase /	Tuna	<u> </u>	Dimi	ming			Pow	er Up	Αι	Flash		
	Overlap Type	Type	Red	Yellow	Green	Dark	Auto	Red	Yellow	Dark	Red	Yellow	Together
1	1	0				+	Х				Х		
2	2	0				+	Х					Х	Х
3	0	0				+	Х				Х		
4	4	0				+	Х				Х		Х
5	5	0				+	Х				Х		
6	6	0				+	Х					Х	Х
7	0	0				+	Х				Х		
8	8	0				+	Х				Х		Х
9	2	Р				+	Х						
10	4	Р				+	Х						
11	6	Р				+	Х						
12	3	Р				+	Х						
13	0	0				+	Х				Х		
14	0	0				-	Х				Х		Х
15	0	0				+	Х				Х		
16	0	0				-	Х				Х		Х

Controller Timing Plan (MM)2-1 Plan 1

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Direction	EBLT	WB	NB	SB	WBLT	EB										1
Min Green	8	20	8	8	8	20	0	0	5	5	5	5	5	5	5	5
BK Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CS Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delay Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walk	0	7	5	5	0	7	0	0	0	10	0	10	0	10	0	10
Walk 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walk Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ped Clear	0	24	48	42	0	24	0	16	0	16	0	16	0	16	0	16
Ped Clear 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ped Clear Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ped CO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Ext	2.5	5.0	2.5	2.5	2.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Vehicle Ext 2	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
Max 1	25	60	35	45	25	60	0	0	35	35	35	35	35	35	35	35
Max 2	35	100	35	45	35	100	0	0	40	40	40	40	40	40	40	40
Max 3	35	90	45	60	35	90	0	0	0	0	0	0	0	0	0	0
DYM Max	35	90	45	60	35	90	0	0	0	0	0	0	0	0	0	0
DYM Stp	10.0	15.0	10.0	15.0	10.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellow	3.5	5.0	4.0	4.0	3.5	5.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Red Clear	2.0	2.0	4.0	4.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Red Max	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
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
ACT B4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEC/ACT	0.0	2.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Int	0	35	0	0	0	35	0	0	0	0	0	0	0	0	0	0
Time B4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cars Wt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STPT Duc	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
Time To Reduce	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min Gap	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

Controller Options

Controller Options (MM)2-6-1

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Flashing Green Phase																
Guaranteed Passage																
Non Act 1		Х				Х										
Non Act 2																
Dual Entry																
Conditional Service																
Conditional Reservice																
Ped Reservice																
Rest In Walk																
Flashing Walk																
Ped Clear Yellow	1							1			ĺ					
Ped Clear Red																
IGRN + Veh Ext																

Ped Clear Protect: Off Red Revert: 2.0

Act Pre-Time (MM)2-7

Pre-Time Mode Enable: No Free Input Enables Pre-Timed: Yes

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Pre-Timed Phase																

Phase Recall Options (MM)2-8

Plan 1

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Lock Detector	Х	Х	Х	Х	Х	Х										
Vehicle Recall		Х				Х										
Ped Recall																
Max Recall																
Soft Recall																
No Rest																
Al Calc																

Splits in

Offsets in

Percent

Percent

Coordination Pattern Data Pattern Data (MM)3-2

Pattern - 1

Split Pattern	1	TS2 (Pat-Off)	0-1	
Cycle	120	Std (COS)	111	
Offset Value	90%	Dwell/Add Time	0	
Actuated Coord	No	Timing Plan	0	
Actuated Walk Rest	No	Sequence	0	
Phase Reservice	No	Action Plan	0	
Max Select	None	Force Off	None	

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NB	SB	WBLT	EB										
Splits (Split Pat 1)	17	31	27	25	17	31	0	0	0	0	0	0	0	0	0	0
Preference 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Preference 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Disp.	-	0	0	0
Split Sum	100%	48%	0%	0%

Misc. Data

Veh. Permissive 1 0 Veh. Permissive 2 0 Veh. Permissive 2 Disp. 0

Split Demand Pat 1 0 Split Demand Pat 2 0 Crossing Arterial Pat 0

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coordinated Phases		Х				Х										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit									Х	Χ	Х	Χ	Χ	Χ	Х	Х
Special Function Output																

Split Pattern	2	TS2 (Pat-Off)	0-2	Splits in
Cycle	120	Std (COS)	122	Offsets in
Offset Value	3%	Dwell/Add Time	0	
Actuated Coord	No	Timing Plan	0	
Actuated Walk Rest	No	Sequence	0	
Phase Reservice	No	Action Plan	0	
Max Select	None	Force Off	None	

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NB	SB	WBLT	EB										
Splits (Split Pat 2)	15	35	20	30	15	35	0	0	0	0	0	0	0	0	0	0
Preference 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Preference 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Disp.	-	0	0	0
Split Sum	100%	50%	0%	0%

MISC. Data					
Veh. Permissive 1	0	Veh. Permissive 2	0	Veh. Permissive 2 Disp.	0
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial Pat	0

Percent Percent

Split Pattern Data

opiit i attern bata																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coordinated Phases		Χ				Х										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit									Х	Х	Х	Х	Х	Х	Х	Х
Special Function Output																

Pattern - 3

I attern - 5					
Split Pattern	3	TS2 (Pat-Off)	0-3	Splits in	Percent
Cycle	135	Std (COS)	211	Offsets in	Percent
Offset Value	78%	Dwell/Add Time	0		
Actuated Coord	No	Timing Plan	0		
Actuated Walk Rest	No	Sequence	0		
Phase Reservice	No	Action Plan	0		
Max Select	None	Force Off	None		

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NB	SB	WBLT	EB										
Splits (Split Pat 3)	17	35	24	24	17	35	0	0	0	0	0	0	0	0	0	0
Preference 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Preference 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Disp.	-	0	0	0
Split Sum	100%	52%	0%	0%

Misc. Data					
Veh. Permissive 1	0	Veh. Permissive 2	0	Veh. Permissive 2 Disp.	0
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial Pat	0

opiit i attern bata																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coordinated Phases		Χ				Х										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit									Х	Χ	Х	Х	X	Х	Х	Х
Special Function Output																

Split Pattern	4	TS2 (Pat-Off)	1-1	
Cycle	135	Std (COS)	233	
Offset Value	60%	Dwell/Add Time	0	
Actuated Coord	No	Timing Plan	0	
Actuated Walk Rest	No	Sequence	0	
Phase Reservice	No	Action Plan	0	
Max Select	None	Force Off	None	

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NB	SB	WBLT	EB										
Splits (Split Pat 4)	15	37	24	24	15	37	0	0	0	0	0	0	0	0	0	0
Preference 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Preference 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Disp.	-	0	0	0
Split Sum	100%	52%	0%	0%

Misc. Data					
Veh. Permissive 1	0	Veh. Permissive 2	0	Veh. Permissive 2 Disp.	0
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial Pat	0

Splits in Offsets in

Percent Percent

Split Pattern Data

opini i attorni bata																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coordinated Phases		Χ				Х										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit									Х	Х	Х	Х	Х	Х	Х	Х
Special Function Output									1							

Pattern - 5

Split Pattern	5	TS2 (Pat-Off)	1-2	Splits in	Percent
Cycle	150	Std (COS)	311	Offsets in	Percent
Offset Value	92%	Dwell/Add Time	0		
Actuated Coord	No	Timing Plan	0		
Actuated Walk Rest	No	Sequence	0		
Phase Reservice	No	Action Plan	0		
Max Select	None	Force Off	None		

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NB	SB	WBLT	EB										
Splits (Split Pat 5)	16	36	24	24	16	36	0	0	0	0	0	0	0	0	0	0
Preference 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Preference 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Disp.	-	0	0	0
Split Sum	100%	52%	0%	0%

Misc. Data					
Veh. Permissive 1	0	Veh. Permissive 2	0	Veh. Permissive 2 Disp.	0
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial Pat	0

opiit i attern bata																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coordinated Phases		Χ				Х										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit									Х	Х	Х	Х	X	Х	Х	Х
Special Function Output																

Split Pattern	6	TS2 (Pat-Off)	1-3	Splits in	Percent
Cycle	150	Std (COS)	333	Offsets in	Percent
Offset Value	90%	Dwell/Add Time	0		
Actuated Coord	No	Timing Plan	0		
Actuated Walk Rest	No	Sequence	0		
Phase Reservice	No	Action Plan	0		
Max Select	None	Force Off	None		

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NB	SB	WBLT	EB										
Splits (Split Pat 6)	16	36	22	26	16	36	0	0	0	0	0	0	0	0	0	0
Preference 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Preference 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Disp.	-	0	0	0
Split Sum	100%	52%	0%	0%

IVIISC. Data					
Veh. Permissive 1	0	Veh. Permissive 2	0	Veh. Permissive 2 Disp.	0
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial Pat	0

opin i attern bata																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coordinated Phases		Х				Х										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit									Х	Χ	Χ	Χ	Χ	Х	Χ	Х
Special Function Output									1							

Coordination Split Pattern Data Split Pattern Data (MM)3-3

Split Pattern - 1

opiner accession .															_	
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NB	SB	WBLT	EB										
Splits (percent)	17	31	27	25	17	31	0	0	0	0	0	0	0	0	0	0
Coordinated Phases		Х				Х										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit									Х	Х	Х	Х	Х	Х	Х	Х

Ring	1	2	3	4
Split Sum	100%	48%	0%	0%

Split Pattern - 2

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NB	SB	WBLT	EB										
Splits (percent)	15	35	20	30	15	35	0	0	0	0	0	0	0	0	0	0
Coordinated Phases		Х				Χ										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit									Х	Х	Х	Х	Х	Х	Х	Х

Ring	1	2	3	4
Split Sum	100%	50%	0%	0%

Split Pattern - 3

Split Pattern - 3																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NB	SB	WBLT	EB										
Splits (percent)	17	35	24	24	17	35	0	0	0	0	0	0	0	0	0	0
Coordinated Phases		Х				Х										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit									Х	Х	Х	Х	X	Х	Х	Х

Ring	1	2	3	4
Split Sum	100%	52%	0%	0%

Split Pattern - 4

Spill Falletii - 4																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NB	SB	WBLT	EB										
Splits (percent)	15	37	24	24	15	37	0	0	0	0	0	0	0	0	0	0
Coordinated Phases		X				Χ										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit									Х	Х	Х	Х	Х	Х	Х	Х

Ring	1	2	3	4
Split Sum	100%	52%	0%	0%

Split Pattern - 5

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NB	SB	WBLT	EB										

Splits (percent)	16	36	24	24	16	36	0	0	0	0	0	0	0	0	0	0
Coordinated Phases		Х				Х										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit									Х	Х	Х	Х	Х	Х	Х	Х

Ring	1	2	3	4
Split Sum	100%	52%	0%	0%

Split Pattern - 6

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NB	SB	WBLT	EB										
Splits (percent)	16	36	22	26	16	36	0	0	0	0	0	0	0	0	0	0
Coordinated Phases	1	Х				Х										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit									Х	Х	Х	Х	Х	Х	Х	Х

Ring	1	2	3	4
Split Sum	100%	52%	0%	0%

Preemptor

Preempt Plan (MM)4-1

Plan 3

1 1011 3																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Overlap	Α	В	С	D	Е	F	G	Н	ı	J	K	L	М	N	0	Р
Track Clear Vehicle																
Track Clear Overlap																
Enable Trailing																
Dwell Vehicle	Х					Х										
Dwell Ped																
Dwell Overlap	Х					Х										
Cycling Vehicle																
Cycling Ped																
Cycling Overlap																
Exit Phase		Х				Х										
Exit Calls			Х	Х	Х											
Special Funciton																

Enable	Yes	Preempt Override	Yes	Interlock Enable	No
Detector Lock	Yes	Delay	0	Inhibit	0
Override Flash	No	Duration	0	CLR > GRN	No
Term Overlap Asap	No	PC Through Yellow	No	Terminate Phase	No
Ped Dark	No	Track Clear Rsrv	No	Dwell Flash	Off
Linked Pmt	0	Flash Exit Color	Green	Exit Option	Off
Exit Timing Plan	0	Reservice	0	Fault Type	Hard

Ring	1	2	3	4
Free During Preempt	No	No	No	No

Timing	Walk	Ped Clr	Min Grn	Yellow	Red
Entrance	0	255	10	4.0	1.0
	Min Grn	Ext Grn	Max Grn	Yellow	Red
Track Clear	0	0	0	4.0	1.0
	Min Dwell	Pmt Ext	Max Time	Yellow	Red
Dwell / Cycle-Exit	10	0.0	0	4.0	1.0

Preempt Active Out	On	Preempt Active Dwell	No
Other Priority Preempt	On	Non-Priority Preempt	No
Inhibit Extension Time	0.0	Ped Priority Return	Off
Veh Priority Return	Off	Queue Delay	Off
Conditional Delay	Off		

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Veh Pri Return % Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plan 4

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Overlap	Α	В	С	D	Е	F	G	Н	Т	J	К	L	М	N	0	Р
Track Clear Vehicle																
Track Clear Overlap																
Enable Trailing																
Dwell Vehicle				Х												
Dwell Ped																
Dwell Overlap				Х												
Cycling Vehicle																
Cycling Ped																
Cycling Overlap																
Exit Phase	Х				Х											
Exit Calls			Х	Х												
Special Funciton																

Enable	Yes	Preempt Override	Yes	Interlock Enable	No
Detector Lock	Yes	Delay	0	Inhibit	0
Override Flash	No	Duration	0	CLR > GRN	No
Term Overlap Asap	No	PC Through Yellow	No	Terminate Phase	No
Ped Dark	No	Track Clear Rsrv	No	Dwell Flash	Off
Linked Pmt	0	Flash Exit Color	Green	Exit Option	Off
Exit Timing Plan	0	Reservice	0	Fault Type	Hard

Ring	1	2	3	4
Free During Preempt	No	No	No	No

Timing	Walk	Ped Clr	Min Grn	Yellow	Red
Entrance	0	255	10	4.0	1.0
	Min Grn	Ext Grn	Max Grn	Yellow	Red
Track Clear	0	0	0	4.0	1.0
	Min Dwell	Pmt Ext	Max Time	Yellow	Red
Dwell / Cycle-Exit	10	0.0	0	4.0	1.0

Preempt Active Out On Preempt Active Dwell No Other Priority Preempt On Non-Priority Preempt No Inhibit Extension Time 0.0 Ped Priority Return Off Veh Priority Return Off Queue Delay Off Conditional Delay Off

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Veh Pri Return % Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plan 5

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Overlap	Α	В	С	D	E	F	G	Н	ı	J	К	L	М	N	0	Р
Track Clear Vehicle																
Track Clear Overlap																
Enable Trailing																
Dwell Vehicle			Х													
Dwell Ped																
Dwell Overlap								Х								
Cycling Vehicle																
Cycling Ped																
Cycling Overlap																
Exit Phase				Х												
Exit Calls	Х				Х											
Special Funciton																

Enable	Yes	Preempt Override	Yes	Interlock Enable	No
Detector Lock	Yes	Delay	0	Inhibit	0
Override Flash	No	Duration	0	CLR > GRN	No
Term Overlap Asap	No	PC Through Yellow	No	Terminate Phase	No
Ped Dark	No	Track Clear Rsrv	No	Dwell Flash	Off
Linked Pmt	0	Flash Exit Color	Green	Exit Option	Off
Exit Timing Plan	0	Reservice	0	Fault Type	Hard

Ring	1	2	3	4
Free During Preempt	No	No	No	No

Timing	Walk	Ped Clr	Min Grn	Yellow	Red
Entrance	0	255	10	4.0	1.0
	Min Grn	Ext Grn	Max Grn	Yellow	Red
Track Clear	0	0	0	4.0	1.0
	Min Dwell	Pmt Ext	Max Time	Yellow	Red
Dwell / Cycle-Exit	10	0.0	0	4.0	1.0

Preempt Active Out On Preempt Active Dwell No Other Priority Preempt On Non-Priority Preempt No 0.0 Ped Priority Return Off Inhibit Extension Time Veh Priority Return Off Queue Delay Off Conditional Delay Off

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Veh Pri Return % Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plan 6

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Overlap	Α	В	С	D	E	F	G	Н	ı	J	К	L	М	N	0	Р
Track Clear Vehicle																
Track Clear Overlap																
Enable Trailing																
Dwell Vehicle		Х			Х											
Dwell Ped																
Dwell Overlap		Х			Х											
Cycling Vehicle																
Cycling Ped																
Cycling Overlap																
Exit Phase		Х				Х										
Exit Calls	Х		Х	Х												
Special Funciton																

Enable	Yes	Preempt Override	Yes	Interlock Enable	No
Detector Lock	Yes	Delay	0	Inhibit	0
Override Flash	No	Duration	0	CLR > GRN	No
Term Overlap Asap	No	PC Through Yellow	No	Terminate Phase	No
Ped Dark	No	Track Clear Rsrv	No	Dwell Flash	Off
Linked Pmt	0	Flash Exit Color	Green	Exit Option	Off
Exit Timing Plan	0	Reservice	0	Fault Type	Hard

Ring	1	2	3	4
Free During Preempt	No	No	No	No

Timing	Walk	Ped Clr	Min Grn	Yellow	Red
Entrance	0	255	10	4.0	1.0
	Min Grn	Ext Grn	Max Grn	Yellow	Red
Track Clear	0	0	0	4.0	1.0
	Min Dwell	Pmt Ext	Max Time	Yellow	Red
Dwell / Cycle-Exit	10	0.0	0	4.0	1.0

Preempt Active Out On Preempt Active Dwell No Other Priority Preempt On Non-Priority Preempt No Inhibit Extension Time 0.0 Ped Priority Return Off Veh Priority Return Off Queue Delay Off Conditional Delay Off

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Veh Pri Return % Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MIN GAP	TTREDUC	CARS WT	TIME B4	MAX. INI	SEC/ACT	ACT B4	RED RYT	RED CLEAR	AETTOM	DET: MAX	MAX III	MAX II	MAX 1	MAX EXT	VEIL EXT 2	VEH EXT	PED CLEAR	WALK	CS GREEN	DIKE - GRN	MIN GREEN	INTERVALS	MOVEMENT:	DIRECTION:	ROAD NAME:	RDM INFORM	SIGNAL NUMBER: _2
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LOAD BIGNAL DRIVER GROUP	LOAD BIONAL DICERS SINCE	CRITICAL RPES DET-TEST	
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		ALARM 6	
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DELAYS:

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6. CONTROLLER START/FLASH DATA

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! NIC/TOD WEEKLY PROGRAMS

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3. NIC/TOD YEARLY PROGRAMS

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4. NIC/TOD HOLIDAY PROGRAM

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NUMBER

NUMBER

Configuration Phase Sequence

Controller Sequence (MM)1-1-1

Hardware Alternate Sequence Enable: No

Phase Ring Sequence......(Note: Sequences identical to the prior one are not printed)

	01	02 03 04	05 06 07	08 09	10 11	12 13	14 15 16
	В	В	В В				
Sequence 1							
Ring 1	1	9 2 3	4 11 .				
Ring 2	5	10 6 7	8 12 .				

Phases In Use / Exclusive PED (MM)1-2

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Phases in Use	Х	Х	Х	Х	Х	Х	Х	Х								
Exclusive PED																

Phase Compatibility (MM)1-1-2

Phase	Compatible Phase
n/a	Barrier Mode

Overlap Direction Descriptions

	•
Overlap	Description

Administration (MM)1-7-1

Enable CU/Cabinet Interlock CRC No
Request Download Controller Data No
Controller Database CRC 0000
Enable Automatic Backup to Datakey Yes

Backup Prevent (N	MN)	11-1-3
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	Phases	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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Backup	2																
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Simultaneous Gap (MM)1-1-4

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	Disable																

Load Switch Assignments (MMU Channel) (MM)1-3

	Phase /	Tuna		Dimi	ming			Pow	er Up		Αι	ıto	Flash
	Overlap	Type	Red	Yellow	Green	Dark	Auto	Red	Yellow	Dark	Red	Yellow	Together
1	1	0				+	Х				Х		
2	2	0				+	Х				Х		Х
3	3	0				+	Х				Х		
4	4	0				+	Х				Х		Х
5	5	0				+	Х				Х		
6	6	0				+	Х				Х		Х
7	7	0				+	Х				Х		
8	8	0				+	Х				Х		Х
9	9	0				+	Х				Х		
10	10	0				+	Х				Х		
11	2	Р				+	Х				Х		
12	6	Р				+	Х				Х		
13	13	0				+	Х				Х		
14	14	0				+	Х				Х		
15	15	0				+	Х				Х		
16	16	0		·		+	Х			·	Х		

Controller Timing Plan (MM)2-1 Plan 1

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Direction	EBLT	WB	NBLT	SB	WBLT	EB	SBLT	NB								Т
Min Green	8	20	8	8	8	20	8	8	5	5	5	5	5	5	5	5
BK Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CS Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delay Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walk	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	10
Walk 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walk Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ped Clear	0	7	0	7	0	7	0	7	0	0	0	0	0	16	0	16
Ped Clear 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ped Clear Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ped CO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Ext	3.0	5.0	3.0	3.0	3.0	5.0	3.0	3.0	0.0	0.0	0.0	0.0	5.0	5.0	5.0	5.0
Vehicle Ext 2	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
Max 1	25	60	20	30	25	60	20	30	0	0	0	0	35	35	35	35
Max 2	35	100	30	45	35	100	30	45	0	0	0	0	40	40	40	40
Max 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DYM Max	35	0	30	45	35	0	30	45	0	0	0	0	0	0	0	0
DYM Stp	10.0	0.0	10.0	15.0	10.0	0.0	10.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellow	3.5	5.0	3.5	3.5	3.5	5.0	3.5	3.5	0.0	0.0	0.0	0.0	3.0	3.0	3.0	3.0
Red Clear	1.5	1.5	1.5	2.5	1.5	1.5	1.5	2.5	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
Red Max	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
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
ACT B4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEC/ACT	0.0	2.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Int	30	30	30	30	30	30	30	30	0	0	0	0	0	0	0	0
Time B4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cars Wt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STPT Duc	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
Time To Reduce	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min Gap	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

Controller Options

Controller Options (MM)2-6-1

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Flashing Green Phase																
Guaranteed Passage																
Non Act 1		Х				Х										
Non Act 2																
Dual Entry		Х		Х		Х		Х								
Conditional Service																
Conditional Reservice																
Ped Reservice																
Rest In Walk																
Flashing Walk																
Ped Clear Yellow																
Ped Clear Red																
IGRN + Veh Ext																

Ped Clear Protect: Off Red Revert: 2.0

Act Pre-Time (MM)2-7

Pre-Time Mode Enable: No Free Input Enables Pre-Timed: Yes

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Pre-Timed Phase																

Phase Recall Options (MM)2-8

Plan 1

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Lock Detector	Х			Х	Х			Х								
Vehicle Recall		Х				Х										
Ped Recall																
Max Recall																
Soft Recall																
No Rest																
Al Calc																

Coordination Pattern Data Pattern Data (MM)3-2

Pattern - 1

Split Pattern	1	TS2 (Pat-Off)	0-1	Splits in
Cycle	120	Std (COS)	111	Offsets in
Offset Value	50%	Dwell/Add Time	0	
Actuated Coord	No	Timing Plan	0	
Actuated Walk Rest	No	Sequence	0	
Phase Reservice	No	Action Plan	0	
Max Select	None	Force Off	None	

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NBLT	SB	WBLT	EB	SBLT	NB								
Splits (Split Pat 1)	25	38	17	20	25	38	17	20	0	0	0	0	0	0	0	0
Preference 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Preference 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Disp.	-	0	0	0
Split Sum	100%	100%	0%	0%

Misc. Data					
Veh. Permissive 1	0	Veh. Permissive 2	0	Veh. Permissive 2 Disp.	0
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial Pat	0

Percent

Percent

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coordinated Phases		Х				Х										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													Х	Х	Х	Х
Special Function Output																

Split Pattern	2	TS2 (Pat-Off)	0-2	
Cycle	120	Std (COS)	122	
Offset Value	46%	Dwell/Add Time	0	
Actuated Coord	No	Timing Plan	0	
Actuated Walk Rest	No	Sequence	0	
Phase Reservice	No	Action Plan	0	
Max Select	None	Force Off	None	

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NBLT	SB	WBLT	EB	SBLT	NB								
Splits (Split Pat 2)	20	40	20	20	20	40	20	20	0	0	0	0	0	0	0	0
Preference 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Preference 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Disp.	-	0	0	0
Split Sum	100%	100%	0%	0%

Misc. Data					
Veh. Permissive 1	0	Veh. Permissive 2	0	Veh. Permissive 2 Disp.	0
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial Pat	0

Splits in

Offsets in

Percent

Percent

Split Pattern Data

opiit i attern bata																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coordinated Phases		Х				Х										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													Χ	Х	Х	Х
Special Function Output									1							

Pattern - 3

i attorii o					
Split Pattern	3	TS2 (Pat-Off)	0-3	Splits in	Percent
Cycle	135	Std (COS)	211	Offsets in	Percent
Offset Value	70%	Dwell/Add Time	0		
Actuated Coord	No	Timing Plan	0		
Actuated Walk Rest	No	Sequence	0		
Phase Reservice	No	Action Plan	0		
Max Select	None	Force Off	None		

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NBLT	SB	WBLT	EB	SBLT	NB								
Splits (Split Pat 3)	24	35	18	23	24	35	18	23	0	0	0	0	0	0	0	0
Preference 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Preference 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4	Misc. Data
Ring Split Ext	0	0	0	0	Veh. Permissive
Ring Disp.	-	0	0	0	Split Demand Pa
Split Sum	100%	100%	0%	0%	

Misc. Data					
Veh. Permissive 1	0	Veh. Permissive 2	0	Veh. Permissive 2 Disp.	0
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial Pat	0

Opini i atterni bata																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coordinated Phases		Х				Х										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													Х	Х	Х	Х
Special Function Output										<u> </u>						

Split Pattern	4	TS2 (Pat-Off)	1-1	Splits in
Cycle	135	Std (COS)	233	Offsets in
Offset Value	19%	Dwell/Add Time	0	
Actuated Coord	No	Timing Plan	0	
Actuated Walk Rest	No	Sequence	0	
Phase Reservice	No	Action Plan	0	
Max Select	None	Force Off	None	

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NBLT	SB	WBLT	EB	SBLT	NB								
Splits (Split Pat 4)	22	40	16	22	22	40	16	22	0	0	0	0	0	0	0	0
Preference 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Preference 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Disp.	-	0	0	0
Split Sum	100%	100%	0%	0%

MISC. Data					
Veh. Permissive 1	0	Veh. Permissive 2	0	Veh. Permissive 2 Disp.	0
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial Pat	0

Percent

Percent

Split Pattern Data

opiit i attern bata																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coordinated Phases		Х				Х										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													Χ	Х	Х	Х
Special Function Output									1							

Pattern - 5

i attern - J					
Split Pattern	5	TS2 (Pat-Off)	1-2	Splits in	Percent
Cycle	150	Std (COS)	311	Offsets in	Percent
Offset Value	76%	Dwell/Add Time	0		
Actuated Coord	No	Timing Plan	0		
Actuated Walk Rest	No	Sequence	0		
Phase Reservice	No	Action Plan	0		
Max Select	None	Force Off	None		

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NBLT	SB	WBLT	EB	SBLT	NB								
Splits (Split Pat 5)	20	40	16	24	20	40	16	24	0	0	0	0	0	0	0	0
Preference 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Preference 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Disp.	-	0	0	0
Split Sum	100%	100%	0%	0%

Misc. Data					
Veh. Permissive 1	0	Veh. Permissive 2	0	Veh. Permissive 2 Disp.	0
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial Pat	0

phi i attern bata																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coordinated Phases		Χ				Х										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													X	Х	Х	Х
Special Function Output									1							

Split Pattern	6	TS2 (Pat-Off)	1-3	Splits in	Percent
Cycle	150	Std (COS)	333	Offsets in	Percent
Offset Value	76%	Dwell/Add Time	0		
Actuated Coord	No	Timing Plan	0		
Actuated Walk Rest	No	Sequence	0		
Phase Reservice	No	Action Plan	0		
Max Select	None	Force Off	None		

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NBLT	SB	WBLT	EB	SBLT	NB								
Splits (Split Pat 6)	20	40	16	24	20	40	16	24	0	0	0	0	0	0	0	0
Preference 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Preference 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Disp.	-	0	0	0
Split Sum	100%	100%	0%	0%

Misc. Data					
Veh. Permissive 1	0	Veh. Permissive 2	0	Veh. Permissive 2 Disp.	0
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial Pat	0

opint i atterni bata																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coordinated Phases		Χ				Х										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													Х	Х	Χ	Х
Special Function Output									1							

Coordination Split Pattern Data Split Pattern Data (MM)3-3

Split Pattern - 1

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NBLT	SB	WBLT	EB	SBLT	NB								
Splits (percent)	25	38	17	20	25	38	17	20	0	0	0	0	0	0	0	0
Coordinated Phases		Х				Χ										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													Х	Х	Х	Χ

Ring	1	2	3	4
Split Sum	100%	100%	0%	0%

Split Pattern - 2

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NBLT	SB	WBLT	EB	SBLT	NB								
Splits (percent)	20	40	20	20	20	40	20	20	0	0	0	0	0	0	0	0
Coordinated Phases		Х				Х										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													Х	Χ	Χ	Х

Ring	1	2	3	4
Split Sum	100%	100%	0%	0%

Split Pattern - 3

Split Pattern - 3																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NBLT	SB	WBLT	EB	SBLT	NB								
Splits (percent)	24	35	18	23	24	35	18	23	0	0	0	0	0	0	0	0
Coordinated Phases		Χ				Х										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													X	X	X	X

Ring	1	2	3	4
Split Sum	100%	100%	0%	0%

Split Pattern - 4

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NBLT	SB	WBLT	EB	SBLT	NB								
Splits (percent)	22	40	16	22	22	40	16	22	0	0	0	0	0	0	0	0
Coordinated Phases		Χ				Χ										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													Χ	Χ	Χ	Χ

Ring	1	2	3	4
Split Sum	100%	100%	0%	0%

Split Pattern - 5

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description	EBLT	WB	NBLT	SB	WBLT	EB	SBLT	NB								

Splits (percent)	20	40	16	24	20	40	16	24	0	0	0	0	0	0	0	0
Coordinated Phases		Х				Х										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													Х	Х	Х	Х

Ring	1	2	3	4
Split Sum	100%	100%	0%	0%

Split Pattern - 6

Phase	-1	2	2	1	5	6	7	•	0	10	11	12	13	14	15	16
riiase	'		3	4	3	ь		<u> </u>	9	10	'''	12	13	14	13	10
Description	EBLT	WB	NBLT	SB	WBLT	EB	SBLT	NB								
Splits (percent)	20	40	16	24	20	40	16	24	0	0	0	0	0	0	0	0
Coordinated Phases		Χ				Χ										
Vehicle Recalls																
Ped Recalls																
Max Recalls																
Phase Omit													Х	Х	Х	Х

Ring	1	2	3	4
Split Sum	100%	100%	0%	0%

Preemptor

Preempt Plan (MM)4-1

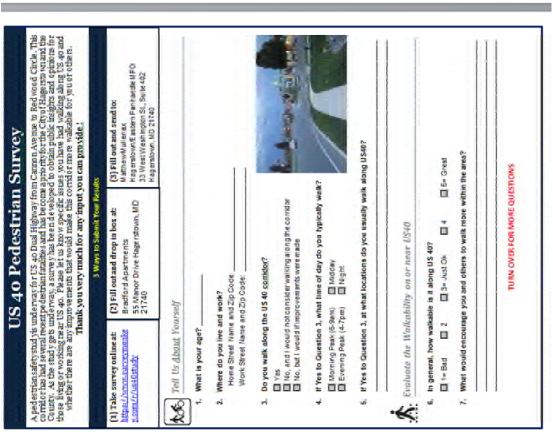
No Enabled Preempts



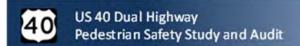
Appendix E: US 40 Pedestrian Survey Forms



	is there room to walk? Tell us the problems and location!
	 Sidewalk and paths started and stopped Sidewalks were broken and cashed Sidewalks were blocked with poles signs, shrubbery, dumpsters, etc. No sidewalks, paths, or shoulders Too much traffic Problem Locations:
oi .	If you cross US40, at what locations do you typically cross and to what destination?? Crossing location(s)
	Destinations(s):
€	Was it easy to cross streets? Tell us the problems and locations!
2000000	Trafficisionals made us wall too long or did not give us enough time to cross Trafficisionals made us wall too long or did not give us enough time to crosswalks or trafficished striped crosswalks or trafficish parked curs blocked our view of traffic Trees or plants blocked our view of traffic Needed curb ramps or ramps needed repair Problem Locations:
÷	Did drivers behave well? Tell us the problems and locations!
	■ Drivers backed out of driveways without looking ■ Drivers did not yield to people crossing the street ■ Drivers turned into people crossing the street ■ Drivers turned into people crossing the street ■ Drivers drove too fast ■ Drivers speed up to make it through traffic lights or drove through traffic lights Froblem Locations:
5	Do you have any ideas to improve pedrestrian safety or walkability along US40?
	■ Ves, tell your ideas below:









Appendix F: PRSA Workbook and Presentation Materials

US 40 Hagerstown MD Pedestrian Safety Road Audit (PSRA) May 19, 2015



Workshop Handbook

Meeting Agenda (Page 1)
Workshop Presentation (Page 3)
Field Maps (Page 27)
FHWA Prompt List (Page 30)
Field Note Sheets (Page 38)







Agenda

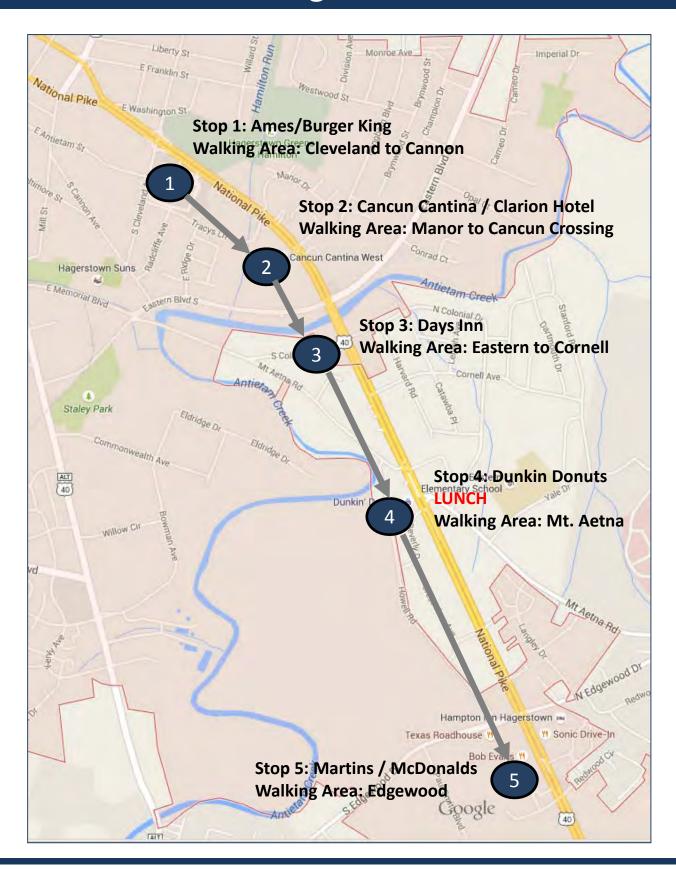
Pedestrian Safety Road Audit (PSRA) US 40, Hagerstown, MD 5/19/2015

120 W. Washington Street, 2nd Floor

Agenda Item	<u>Time</u>
WELCOME "Sign-In "Team Introductions "Audit Overview	9:00 AM – 9:15 AM
BACKGROUND & FEEDBACK	
 Review of US 40 Corridor / SHA Study Results PRSA Guidelines and Checklist Overview Stakeholder Feedback (Issues/Concerns) 	9:15 AM – 10: 30 AM
TRANSPORTATION TO FIELD LOCATION	
" Meet at defined location along corridor	10:30 AM – 10:45 AM
WALKING AUDIT (AM)	10:45 AM – 12:00 PM
LUNCH	
" Personal Choice / Group Decision	12:00 PM – 1:00 PM
WALKING AUDIT (PM)	1:00 PM – 2:30 PM
TEAM ASSESSMENT (Return to Meeting Location)	
" Recap Next Steps " Summarize (Issues/Concerns) " Identify Solutions & Improvement Priorities " Team Recommendations	2:30 PM – 3:30 PM



Walking Audit Plan





1. PRESENTATATION SLIDES



US 40 Hagerstown MD Pedestrian Safety Road Audit (PSRA)

May 19, 2015



Workshop Handbook



Meeting Agenda
Presentation
Field Maps
FHWA Prompt List
Field Note Sheets



Michael Baker

Presentation Agenda

- ☐ Study Overview
- ☐ PRSA Background
- ☐ SHA Study Highlights
- ☐ Survey Overview
- ☐ Additional Data
 - Traffic
 - Pedestrian counts
 - ADA deficiencies
- ☐ Strategy Toolbox
- ☐ Funding Issues

Why are We Here? ☐ Multiple fatalities along US 40 □ 2014 MDOT Tour Meeting Letter (Hagerstown/Washington County) ☐ Multiple Herald Articles / News Stories ☐ SHA Inventory Study ☐ City of Hagerstown Livable Street Guidelines (2014) NUMBER OF PEDESTRIAN CRASHES TOTAL NUMBER OF MAJOR STREET NAME PED/BIKE CRASHES CRASHES 1 WASHINGTON ST 23 DUAL HWY 20 3 POTOMAC ST 13 10 4 FRANKLIN ST 11 5 BURHANS BLVD 9 6 LOCUST ST 9

8

10 POTOMAC AVE 6
Table 2 – Top Ten Streets for Bicycle and Pedestrian Crashes

7 GARLAND GROH BLVD

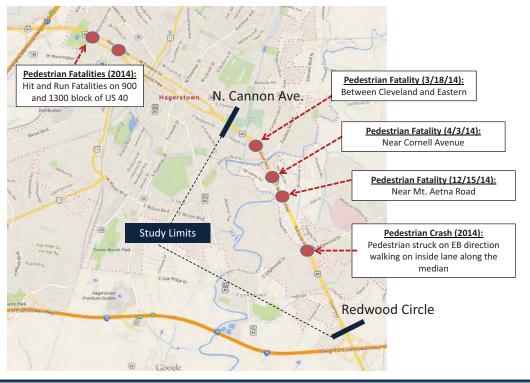
8 ANTIETAM ST 9 BALTIMORE ST



Study Overview



Study Location and Recent Fatalities



Michael Baker

Key Noted Issues

- Boundary between the city and Washington County zigzags along the route and regulations regarding sidewalks differ between the two jurisdictions.
- ☐ County officials have indicated that the responsibility for pedestriansafety improvements on the county portion of U.S. 40 lies with the Maryland State Highway Administration.



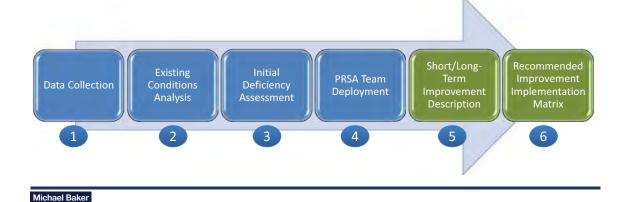
Build off SHA Study Additional pedestrian counts and traffic data Survey Enhance ADA assessment More detailed assessment of strategies Conduct a Pedestrian Road Safety Audit (PRSA) Summarize PRSA conclusions Identify appropriate strategies Matrix of strategies (with priorities) Intersection schematics

PRSA Background

What is a PRSA?

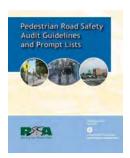
What is a Pedestrian Road Safety Audit?

- FHWA Program
- Safety Performance Evaluation for all roadway users
- Multi-discipline team
- Identify deficiencies and opportunities for improvements



What is a PRSA?

Objectives of the Pedestrian Road Safety Audit



- Document baseline conditions
- Make recommendations to address deficiencies of physical design and for educational programs
- Develop conceptual sketches of the improvements
- Develop phased recommendations for implementation as time and resources permit
- Identify Opportunities



Review of the US 40 Corridor

Why Conduct a Safety Audit for US 40?

- Purpose and Need Statement
- Identified as a Corridor of Concern for the Washington County Board of County Commissioners
- Recent Pedestrian Fatalities
- High Crash Corridor
- Crash Severity Corridor



SHA Study Highlights

SHA Study - Traffic

Table 1: AADT along the Corridor

Section	AADT
N. Cannon Ave to End of Couplet	11,540
S. Cannon Ave to End of Couplet	Not Available
End of Couplet to Cleveland Ave	25,970
Cleveland Ave to Mt Aetna Rd	38,230
Mt Aetna Rd to Redwood Cir	34,690

Table 2: Speed Limit along the Corridor

Section	Speed Limit
Cannon Ave to just west of Cleveland Ave	25 MPH
Just West of Cleveland Ave to Hagerstown corporate limits	35 MPH
Hagerstown Corporate Limits to Redwood Cir	45 MPH



SHA Study – Pedestrian Crashes

Table 10 shows a breakdown of the pedestrian crashes with the distribution of severity, contributing factors, and probable causes. The two most frequent contributing factors were nighttime/darkness and the use of alcohol. The most commonly reported probable cause was Other/Unknown. The majority of the pedestrian crashes involved the pedestrian being in the roadway as well as the involvement of alcohol or drugs/medication in the pedestrian or the driver. Of the three fatal pedestrian crashes, all involved the pedestrians being in the roadway, two involved alcohol in the pedestrian's system, and two were at night. In all three pedestrian fatalities, the pedestrians were reported as at fault.

Table 10 – Pedestrian Crash Summary (1/1/2009 - 9/30/2014)²

Severity		Severity Contributing Factors		Probable Cause				
Total	13							
Fatal	3	23%	Night	9	69%	Other/Unknown	9	69%
Injury	10	77%	Rain/Snow	3	23%	Rain/Snow	1	8%
Prop. Damage	0	0%	Alcohol	5	38%	Under Influence of Drugs	2	15%
3.3.			Intersection	0	0%	Illegally in Roadway	1	8%



SHA Study – Pedestrian Accomodations

Table 5: Pedestrian Crossing Accommodations at US 40 Intersections

Intersections	APS/CPS	APS Only	Crosswalks	Missing Ramps	ADA Ramps	Non ADA Ramps	No Pedestrian Crossing Accommodation
S. Cannon Ave			All Legs	2		6	
N. Cannon Ave			All Legs			8	
E. Washington St			1 Leg	1		1	
Cleveland Ave			1 Leg			6	
Manor Dr/ Tracys Ln	2 Legs		3 Leg		3	3	
Eastern Blvd		1 Leg	1 Leg			2	
Colonial Dr							×
Cornell Ave							×
Mt Aetna Rd W							x
Mt Aetna Rd			1 Leg	7	4		
Beverly Dr							x
Crestview Rd			1	-			x
Edgewood Dr	4 Legs		All Legs		8		
Redwood Cir	150 5		1 Leg		2		



SHA Study – Intersection Lighting

Table 7 - Existing and Recommended Intersection Pedestrian Lighting Levels

Intersection	Functional Classification	Pedestrian Classification	Observed Lighting Levels	IESNA Recommended Lighting Levels
N. Cannon Ave	Major/Local	High	0.4 fc	2.6 fc
S. Cannon Ave	Major/Local	High	0.4 fc	2.6 fc
E. Washington St	Major/Local	Medium	Dark	2.0 fc
Cleveland Ave	Major/Collector	Medium	1.3 fc and 0.1 fc	2.2 fc
Tracys Ln and Manor Dr	Major/Local	Medium	Dark	2.0 fc
Eastern Blvd	Major/Collector	Medium	0.1 fc	2.2 fc
Colonial Dr	Major/Local	Medium	Dark	2.0 fc
Cornell Ave	Major/Local	Medium	Dark	2.0 fc
Mt Aetna Rd W.	Major/Collector	Medium	0.1 fc	2.2 fc
Mt Aetna Rd	Major/Collector	Medium	2.5 fc	2.2 fc
Beverly Dr.	Major/Local	Medium	Dark	2.0 fc
Crestview Rd	Major/Local	Medium	Dark	2.0 fc
Edgewood Dr	Major/Collector	High	0.1 fc	2.4 fc
Redwood Cir	Major/Local	Medium	Dark	2.0 fc

Survey



Survey Conducted for Study

- ☐ March-April 2015
- ☐ 99 Responses
 - English Online (98); Spanish Online (0); Hardcopy Drop-off (1)

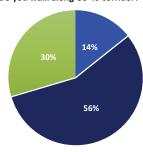




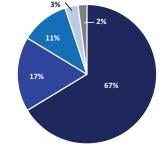


Survey Reponses

Do you walk along US 40 corridor?



In general, how walkable is it along US40?

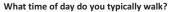


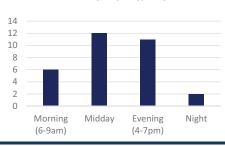
■ Yes

■ No, and I would not consider walking along the corridor

■ No, but I would if improvements were made

■ Bad = 1 ■ 2 ■ 3 = Just OK ■ 4 ■ 5= Great





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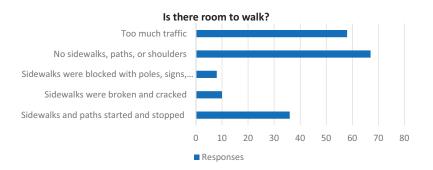
Survey Reponses

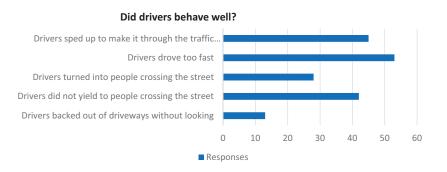
If you cross US 40, at what locations do you typically cross and to what destinations

Rank	Crossing Location (along US 40)	Destination
1	Edgewood	Martins, CVS, Sonic, Community College, Robinwood Drive
2	Cleveland	Downtown, Shopping Center, CVS
3	Eastern	Sonic, Auto Shop
4	Mt. Aetna	Community College, Dunkin Donuts, Foxshire Shopping
5	Cannon	CVS
6	Cornell	Edgewood Shopping



Survey Reponses





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Survey Recommended Strategies

Rank	Strategy	Examples
1	Better Marked and Lighted Crosswalks	Lighting in Median, Mid-Block crossings
2	New Sidewalks at Missing Locations	Eastern Blvd Pedestrian Bridge
3	Enforcement	Both Pedestrian (Alcohol) and Vehicle (Aggressive driving, High Speeds)
4	Pedestrian Education	Light-Colored Clothing, Signing, No Pedestrians on Bridge
5	Median Fencing	
6	Traffic Improvements	Reduce Speed Limit, "Road Diet", Roundabouts, Speed Bumps, Traffic Light at Cornell, No U-turns (e.g. Edgewood)
7	Pedestrian Bridge	At Mt Aetna, South of Edgewood
8	Do Nothing	
9	Pedestrian Signal Timing Improvements	
10	Public Transportation along US 40	

Traffic

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US 40 Corridor Traffic Congestion and Speeds

TomTom (2011-2012 Weekday) Travel Time Ratios



* Yellow = Medium Traffic Congestion, Red = High Traffic Congestion

TomTom Average Weekday Travel Speeds



* Green = 25-34mph, Yellow = 35-39mph, Orange = 40-44mph, Red = 45-50mph



Pedestrian Counts

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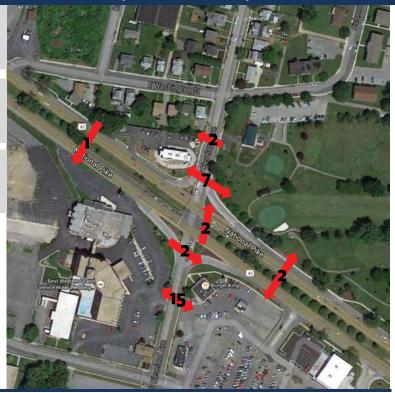
Pedestrian Counts (Cleveland Ave)

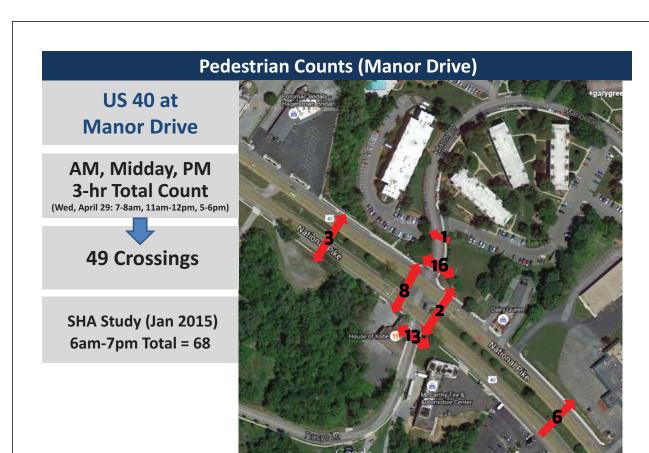
US 40 at Cleveland Avenue

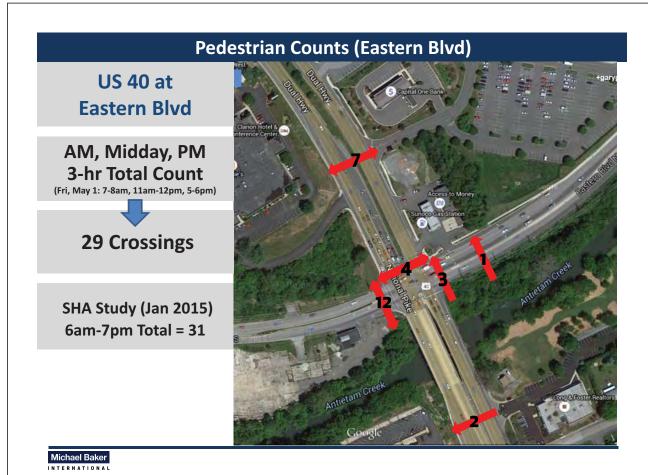
AM, Midday, PM 3-hr Total Count

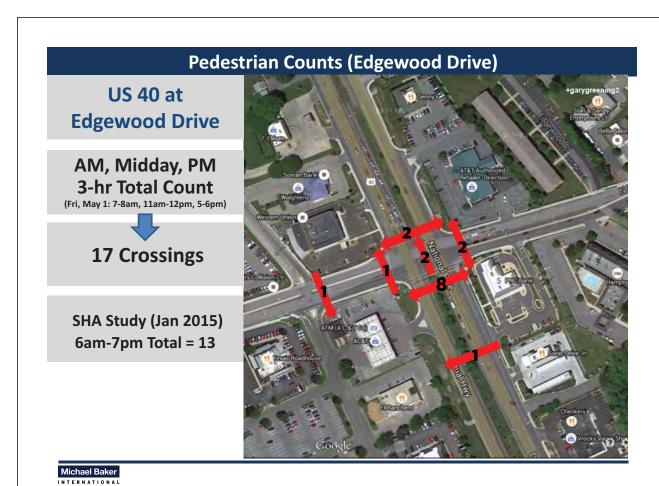
(Wed, April 29: 7-8am, 11am-12pm, 5-6pm)

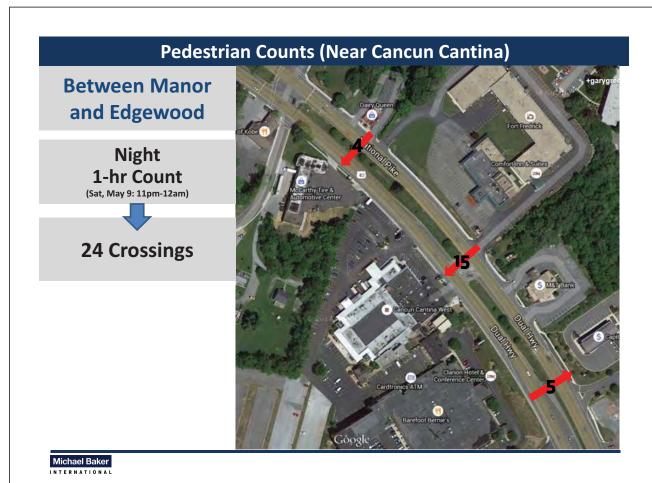












ADA* Assessment

* Americans with Disabilities Act



ADA Standards

- Maryland SHA "Accessibility Policy and Guidelines for Pedestrian Facilities along State Highways" (June 2010)
 - "All projects ...shall accommodate and provide accessibility for persons with disabilities where it is reasonable, feasible and appropriate to do so..."
 - Features of the roadway specifically intended for pedestrians such as sidewalks, driveway aprons, curb ramps and crosswalks must meet accessibility design criteria.

Sidewalk Standards

- Be 5' wide standard (3' min. is allowed across driveways or with a design exception.)
- Have a 2% max. cross slope
- Have no vertical lips >1/4" (or ½" if beveled)
- Have no steep running slopes
- Have curb cuts meeting slope and width criteria at all pedestrian walkways which are intersected by curbs.



ADA Issues Found on US 40 Corridor

- Existing sidewalk width constraints
- Steep existing sidewalk cross slopes
- Vertical lips greater than ½ inch
- Steep running slopes
- Missing ramps / curb obstructions
- Driveway and alley curb cut deficiencies
- Existing worn dirt paths



Examples Noted in Corridor

Existing Sidewalk Width Constraints



Examples Noted in Corridor

Vertical Lips > ½ inch



Inlet in front of Golf Course east of N. Cleveland Ave.

Missing Ramps/ Curbing obstructs access to sidewalk



Sheetz east of S. Cannon Ave.

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Strategies

What is Being Done Now?

- Washington County Sheriff's Department/ Hagerstown Police Department distributing safety vests at night (200)
- SHA plans for projects by 2018
 - New lighting
 - Pedestrian Amenities
 - Accessible Pedestrian Signals (APS) for eight intersections



 Identification of over 9,000ft of sidewalk needs to make a continuous network on both sides of US 40



Countermeasure Toolbox

5 "E's - Engineering, Education, Encouragement, Enforcement, Evaluation

Intersections

- Curb Ramps
- Marked/Hi Viz Crosswalks
- Curb Extensions
- Crossing Islands
- Raised Pedestrian Crossings
- Lighting and Illumination
- Automated Pedestrian Detection
- Leading Pedestrian Interval/Exclusive Pedestrian Phasing
- Advance Yield/Stop Lines
- Right Turn on Red Prohibitions
- Driver Education

Mid-Block Facilities

- High-Intensity Activated Crosswalk (HAWK) Signal/ Rectangular Rapid Flash Beacon (RRFB)
- Illuminated Crosswalk
- Improved Signage
- Speed Reduction/Traffic Calming
- Driver Education

Discouraging Mid-Block Crossing

- Pedestrian Fence/Median Barrier
- Improved Signage to Encourage Crossing at Appropriate Locations
- Pedestrian Overpasses
- Pedestrian Education

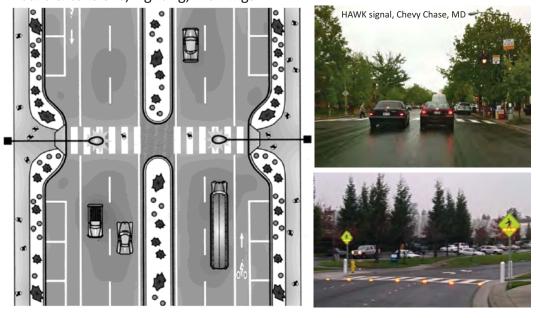


Fencing and Barriers to Prevent Crossing



Mid-Block Crossing

Curb extensions, Lighting, Markings



Intersection Improvements





EXISTING CONDITIONS



WITH MITIGATION



Enhanced Enforcement

Montgomery County Police Department

http://www.mdhighwaysafetysummit.org/uploads/2/0/1/9/20190749/4 bmoreped presenstationv2.pdf

How We Do Enforcement

- Moved from Warnings to Citations
- Noticeable reduction in amount of pedestrian violations in a short amount of time
- Issued over 2,100 citations to Pedestrians
- This was done at several locations
- Return trips to our HIAs (maintenance)

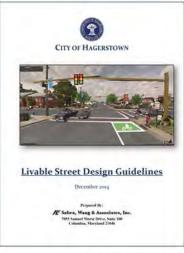
Crosswalk Stings

- · Plain clothes officer legally in crosswalk
 - · Established in crosswalk
 - · Crosses street like any normal citizen
- Every car that does not yield is stopped
- Conducted at several locations
- * Has resulted in behavior change
- Return trips to locations (maintenance)





Complete Streets



In city guidelines, US 40 designated as "Auto-Oriented Commercial/Industrial Spoke"

Pedestrian Provisions:

- Min 5 foot sidewalk on both sides
- Min 3 foot buffer / green zone on both sides
- Accessible pedestrian signals

Auto-Oriented Commercial/Industrial Spokes

Auto-oriented commercial/ industrial spokes (spokes) are characterized by an auto-oriented development pattern with buildings set back from the street and parking lots lining the roadway in front of commercial buildings. They are multilane divided highways classified as major collectors or arterials. Spoke roadways do not provide a pedestrian friendly environment and are not likely to attract high levels of pedestrian activity other than at transit stops and individual activity centers; although segments of spoke roadways may have sidewalks lining one side. Many spoke roadways enter the City limits as spokes and transition into other roadway typology as land use patterns and density changes. A typical cross-section can be found in supplement B.

AUTO ORIENTED COMMERCIAL/INDUSTRIAL (SPOKES)



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Funding



State Funding Programs

STATE FUNDING PROGRAMS

These are State Highway Administration dedicated funding programs that support bicycle and pedestrian improvements on state roads. SHA internally identifies, designs and constructs many of the projects. Local communities can identify and request projects for SHA evaluation.

ADA Retrofit (SHA Fund 33): A fund to upgrade existing sidewalks, curb ramps, intersections and driveway entrances along state roadways to be compliant with the Americans with Disabilities Act (ADA).

Requirements:

- Fund 33's purpose is to retrofit existing, non-compliant sidewalks up to the latest ADA standards.
- · Projects are not limited to Priority Funding Areas.



State Funding Programs

Sidewalk Retrofit (SHA Fund 79): A fund to construct missing sidewalk segments along State roadways to fill gaps within the pedestrian network. The missing segment must be located in an Urban Area (as defined by the Census). Local matching fund contributions may be reduced or eliminated for projects located in Designated Sustainable Communities, in a Priority Funding Area, or where SHA determines that there is a substantial public safety risk or significant impediment to pedestrian access.

Requirements:

- Local jurisdiction must provide public notice of the sidewalk project and citizens an opportunity to provide input; help secure right-of-way, easements, or right-of-entry agreements; and agree to maintain or repair the sidewalks after completion.
- The cost to construct or reconstruct a sidewalk shall be shared equally between the State and local government, except as provided below. If a sidewalk is located in a "Sustainable Community" per Housing and Community Development Article §§6-301 and 6-305, construction may be funded entirely by the state.
 - If a sidewalk is located in a Priority Funding Area and SHA determines that a substantial public safety risk or significant impediment to pedestrian access exists and the adjoining roadway is under neither construction nor reconstruction, sidewalk construction shall be identified as a system preservation project and may be funded 100 percent by the state.
 - If a sidewalk is located in a Priority Funding Area and requested by the local government, the construction costs may be split between the state (75 percent) and local jurisdiction (25 percent).



2. FIELD MAPS



Appendix C: Existing Pedestrian Accommodations

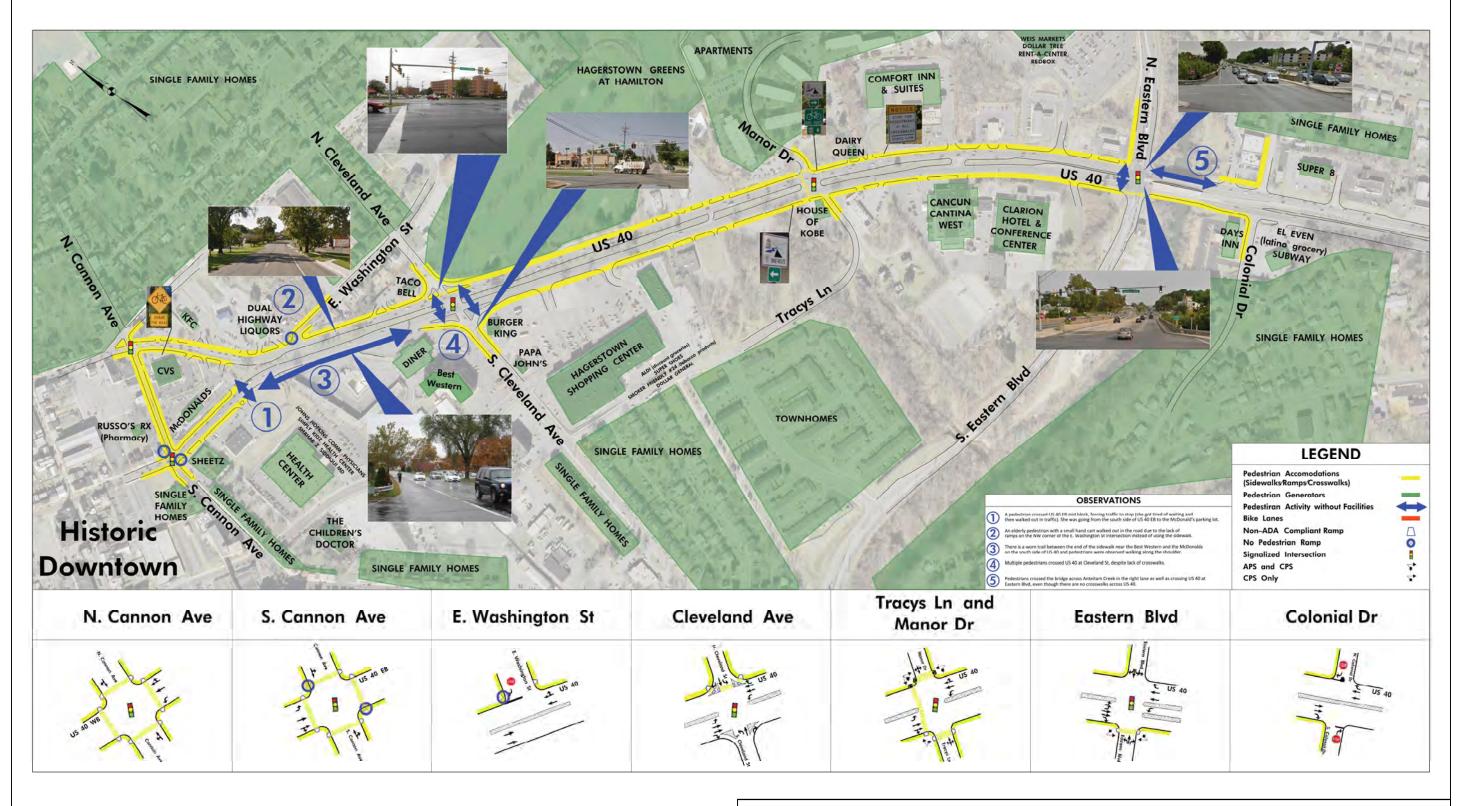


Figure C-1: Existing Pedestrian Accommodations (North)
US 40 Safety Study (Hagerstown, MD)

December 2014

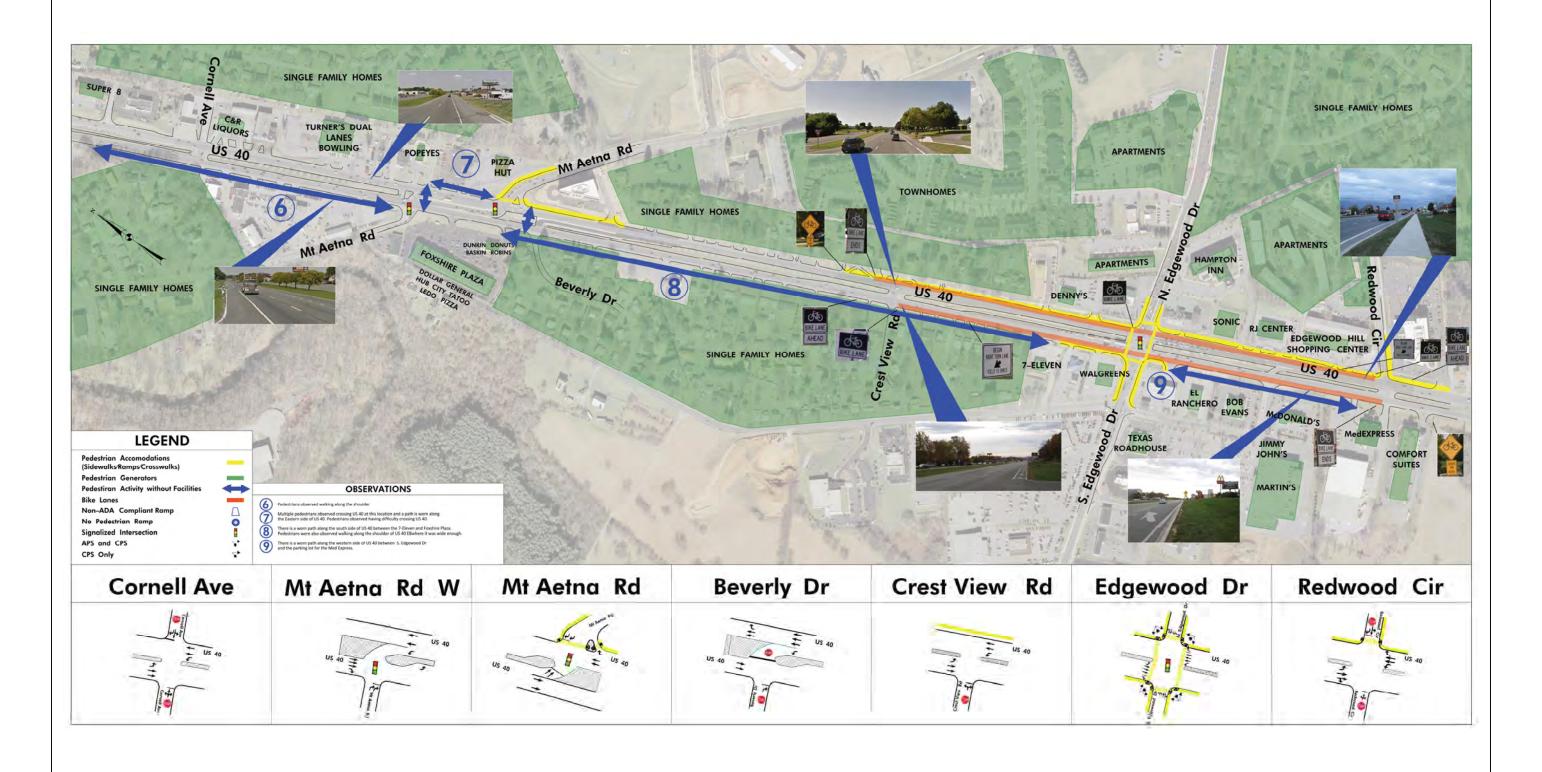


Figure C-2: Existing Pedestrian Accommodations (South)
US 40 Safety Study (Hagerstown, MD)

December 2014

3. FHWA PROMPT LISTS



Master Prompt List

RSA Matrix

Universal Considerations (For Entire RSA Site)

- I. Needs of Pedestrians: Do pedestrian facilities address the needs of all pedestrians?
- II. Connectivity and Convenience of Pedestrian Facilities: Are safe, continuous, and convenient paths provided along pedestrian routes throughout the study area?
- III. Traffic: Are design, posted, and operating traffic speeds compatible with pedestrian safety?
- IV. Behavior: Do pedestrians or motorists regularly misuse or ignore pedestrian facilities?
- V. Construction: Have the effects of construction on all pedestrians been addressed adequately?
- VI. School Presence: Is the safety of children in school zones adequately considered?

		RSA Zones					
Topic	Subtopic	A. Streets B. Street Crossings		C. Parking Areas/Adjacent Developments	D. Transit Areas		
	1. Presence, Design, and Placement	Sidewalks, paths, ramps, and buffers	Crossing treatments, intersections	Sidewalks and paths	Seating, shelter, waiting/ loading/unloading areas		
	2. Quality, Condition, and Obstructions	Sidewalks, paths, ramps, and buffers	Crossing treatments (see prompts in A)	Sidewalks and paths (see prompts in A)	Seating, shelter, waiting/ loading/unloading areas (see prompts in A)		
Pedestrian Facilities	3. Continuity and Connectivity	Continuity/ Connectivity with other streets and crossings	Continuity/connectivity of crossing to ped network; channelization of peds to appropriate crossing points	Continuity/connectivity of pedestrian facilities through parking lots/ adjacent developments	Connectivity of ped network to transit stops		
	4. Lighting	Pedestrian level lighting along the street	Lighting of crossing	Pedestrian level lighting in parking lots/adjacent developments (see prompts in A and B)	Lighting at and near transit stop		
	5. Visibility	Visibility of all road users	Visibility of crossing/ waiting pedestrians and oncoming traffic	Visibility of pedestrians and backing/turning vehicles; visibility of pedestrian path	Visibility of pedestrians/ waiting passengers and vehicles/buses		
	6. Access Management	Driveway placement and design along streets	Driveway placement next to intersections	Driveway placement and use in relation to pedestrian paths	n/a*		
Traffic	7. Traffic Characteristics	Volume and speed of adjacent traffic, conflicting conditions	Volume and speed of traffic approaching crossing, conflicting movements	Traffic volume and speed in parking lots and developments, conflicting conditions	Volume and speed of adjacent traffic and traffic at crossings to bus stops, conflicting conditions		
Traffic Control	8. Signs and Pavement Markings	Use and condition of signs, pavement markings, and route indicators	Use and condition of signs, pavement markings, and crossing indicators	Use and condition of signs, pavement markings for travel path and crossing points	Use and condition of transit-related signs and pavement markings		
Devices	9. Signals	n/a*	Presence, condition, timing, and phasing of signals	n/a*	See prompts in B		

A. Streets

		5 / 11 / 5	RSA Stages				
Master Prompt		Detailed Prompt	planning	design	construction	post- construction	
	A.1.1	Are sidewalks provided along the street?	>	>	>	~	
	A.1.2	If no sidewalk is present, is there a walkable shoulder (e.g. wide enough to accommodate cyclists/pedestrians) on the road or other pathway/trail nearby?	•	>	>	,	
A.1 Presence,	A.1.3	Are shoulders/sidewalks provided on both sides of bridges?	>	>	~	~	
Design, and Placement	A.1.4	Is the sidewalk width adequate for pedestrian volumes?	~	>	~	~	
	A.1.5	Is there adequate separation distance between vehicular traffic and pedestrians?	~	>	•	~	
	A.1.6	Are sidewalk/street boundaries discernable to people with visual impairments?		>	•	~	
	A.1.7	Are ramps provided as an alternative to stairs?	~	>	~	•	
	A.2.1	Will snow storage disrupt pedestrian access or visibility?	~	>	~	~	
A.2 Quality, Conditions, and	A.2.2	Is the path clear from both temporary and permanent obstructions?	~	>	~	~	
Obstructions	A.2.3	Is the walking surface too steep?	>	>	>	~	
	A.2.4	Is the walking surface adequate and well-maintained?		>	~	•	
A.3 Continuity and	A.3.1	Are sidewalks/walkable shoulders continuous and on both sides of the street?	>	>	>	~	
Connectivity	A.3.2	Are measures needed to direct pedestrians to safe crossing points and pedestrian access ways?		>	>	•	
A A Limbting	A.4.1	Is the sidewalk adequately lit?	>	>	>	~	
A.4 Lighting	A.4.2	Does street lighting improve pedestrian visibility at night?	>	>	>	~	
A.5 Visibility	A.5.1	Is the visibility of pedestrians walking along the sidewalk/ shoulder adequate?	~	>	~	~	
A.6 Driveways	A.6.1	Are the conditions at driveways intersecting sidewalks endangering pedestrians?		>	•	~	
A.o Driveways	A.6.2	Does the number of driveways make the route undesirable for pedestrian travel?	~	>	~	~	

A. Streets

Mantau Dunwut	Detailed Prompt		RSA Stages				
Master Prompt			planning	design	construction	post- construction	
A.7 Traffic Charachteristics	A.7.1	Are there any conflicts between bicycles and pedestrians on sidewalks?				>	
A.8 Signs and Pavement Markings	A.8.1	Are pedestrian travel zones clearly delineated from other modes of traffic through the use of striping, colored and/or textured pavement, signing, and other methods?		>	•	>	
	A.8.2	Is the visibility of signs and pavement markings adequate during the day and night?		>	~	~	

B. Street Crossings

	Detailed Prompt		RSA Stages				
Master Prompt			planning	design	construction	post- construction	
	B.1.1	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?		>	*	,	
	B.1.2	Do channelized right turn lanes minimize conflicts with pedestrians?		>	~	~	
	B.1.3	Does a skewed intersection direct drivers' focus away from crossing pedestrians?		>	~	~	
	B.1.4	Are pedestrian crossings located in areas where sight distance may be a problem?	>	>	~	~	
B.1 Presence, Design, and	B.1.5	Do raised medians provide a safe waiting area (refuge) for pedestrians?	>	~	•	~	
Placement	B.1.6	Are supervised crossings adequately staffed by qualified crossing guards?				~	
	B.1.7	Are marked crosswalks wide enough?		>	>	~	
	B.1.8	Do at-grade railroad crossings accommodate pedestrians safely?		>	~	~	
	B.1.9	Are crosswalks sited along pedestrian desire lines?		>	>	~	
	B.1.10	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?		>	•	~	
B.2 Quality,	See prompts in Section A for potential issues on obstructions and protruding objects that apply to street crossings						
Condition, and Obstructions	B.2.1	Is the crossing pavement adequate and well maintained?				~	
	B.2.2	Is the crossing pavement flush with the roadway surface?			~	~	
B.3 Continuity and Connectivity	B.3.1	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	>	>	~	~	
	B.3.2	Are pedestrians clearly directed to crossing points and pedestrian access ways?		>	•	~	
B.4 Lighting	B.4.1 Is the pedestrian crossing adequately lit?		~	~	~	~	

B. Street Crossings

	Detailed Prompt		RSA Stages				
Master Prompt			planning	design	construction	post- construction	
	B.5.1	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?		•	~	~	
B.5 Visibility	B.5.2	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?		•	~	~	
	B.5.3	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?		~	•	~	
B.6 Access Management	B.6.1	Are driveways placed close to crossings?	~	~	~	~	
B.7 Traffic Characteristics	B.7.1	Do turning vehicles pose a hazard to pedestrians?				~	
	B.7.2	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	~	~	~	~	
	B.7.3	Do traffic operations (especially during peak periods) create a safety concern for pedestrains?				~	
B.8 Signs and Pavement	B.8.1	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?			~	~	
Markings	B.8.2	Are crossing points for pedestrians properly signed and/or marked?		~	~	~	
	B.9.1	Are pedestrian signal heads provided and adequate?		~	~	~	
B.9 Signals	B.9.2	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?		•	•	~	
	B.9.3	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	•	~	•	~	
	B.9.4	Are all pedestrian signals and push buttons functioning correctly and safely?			~	•	
	B.9.5	Are ADA accessible push buttons provided and properly located?		~	•	~	

C. Parking Areas/Adjacent Developments

W 4 B 4			RSA Stages					
Master Prompt		Detailed Prompt		design	construction	post- construction		
	C.1.1	Do sidewalks/paths connect the street and adjacent land uses?		>	~	~		
C.1 Presence, Design, and	C.1.2	Are the sidewalks/paths designed appropriately?		>	>	*		
Placement	C.1.3	Are buildings entrances located and designed to be obvious and easily accessible to pedestrians?	•	>	•	*		
C.2 Quality,	See pro	mpts in Section A for potential issues on obstructions and p walkways at parking areas/adjacent			hat apply to s	idewalks and		
Condition, and Obstructions	See prompts in Section A for potential issues on surface conditions that apply to sidewalks and walkways at parking areas/adjacent developments							
	C.2.1	Do parked vehicles obstruct pedestrian paths?				~		
C.3 Continuity and Connectivity	C.3.1	Are pedestrian facilities continuous? Do they provide adequate connections for pedestrian traffic?		>	•	~		
	C.3.2	Are transitions of pedestrian facilities between developments/projects adequate?		~	~	~		
C.4 Lighting	See prompts in Section A and B for potential issues on lighting that apply to sidewalks and walkways at p areas/adjacent developments							
C.5 Visibility	C.5.1	Are visibility and sight distance adequate?	~	~	~	~		
C.6 Access Management	C.6.1	Are travel paths for pedestrians and other vehicle modes clearly delineated at access openings?	~	>	•	*		
	C.6.2	Do drivers look for and yield to pedestrian when turning into and out of driveways?			~	~		
C.7 Traffic Characteristics	C.7.1	Does pedestrian or driver behavior increase the risk of a pedestrian collision?				~		
	C.7.2	Are buses, cars, bicycles, and pedestrians separated on the site and provided with their own designated areas for travel?	•	•	•	~		
C.8 Signs and Pavement Markings	C.8.1 Are travel paths and crossing points for pedestrians properly signed and/or marked?			•	•	~		

D. Transit Areas

	Detailed Prompt		RSA Stages				
Master Prompt			planning	design	construction	post- construction	
D.1 Presence,	D.1.1	Are bus stops sited properly?		>	~	~	
	D.1.2	Are safe pedestrian crossings convenient for transit and school bus users?	>	>	>	>	
Design, and Placement	D.1.3	Is sight distance to bus stops adequate?	>	>	•	>	
	D.1.4	Are shelters appropriately designed and placed for pedestrian safety and convenience?		>	>	>	
	D.2.1	Is the seating area at a safe and comfortable distance from vehicle and bicycle lanes?		>	>	>	
D.2 Quality, Condition, and Obstructions	D.2.2	Do seats (or persons sitting on them) obstruct the sidewalk or reduce its usable width?		>	~	~	
	D.2.3	Is a sufficient landing area provided to accommodate waiting passengers, boarding/alighting passengers, and through/bypassing pedestrian traffic at peak times?		>	>	>	
	D.2.4	Is the landing area paved and free of problems such as uneven surfaces, standing water, or steep slopes?		>	>	>	
	D.2.5	Is the sidewalk free of temporary/permanent obstructions that constrict its width or block access to the bus stop?	>	>	•	>	
	D.3.1	Is the nearest crossing opportunity free of potential hazards for pedestrians?	>	>	~	~	
D.3 Continuity and Connectivity	D.3.2	Are transit stops part of a continuous network of pedestrian facilities?	>	>	•	>	
	D.3.3	Are transit stops maintained during periods of inclement weather?		>	•	~	
D.4 Lighting	D.4.1	Are access ways to transit facilities well-lit to accommodate early-morning, late-afternoon, and evening	>	>	•	~	
D.5 Visibility	D.5.1 Are open sight lines maintained between buses and passenger waiting and loading			>	•	~	
D.7 Traffic Characteristics	111 / 11 1			>	•	>	
D.8 Signs and Pavement Markings	D.8.1	D.8.1 Are appropriate signs and pavement markings provided for school bus and transit stops?		>	•	~	

4. FIELD NOTE SHEETS



Field Note Sheets

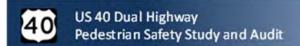
Location	From	То	Issue	Proposed Improvement	Timeframe (Short, Medium, Long)	Priority (H, M, L)	Responsible Agency

Field Note Sheets

Location	From	То	Issue	Proposed Improvement	Timeframe (Short, Medium, Long)	Priority (H, M, L)	Responsible Agency

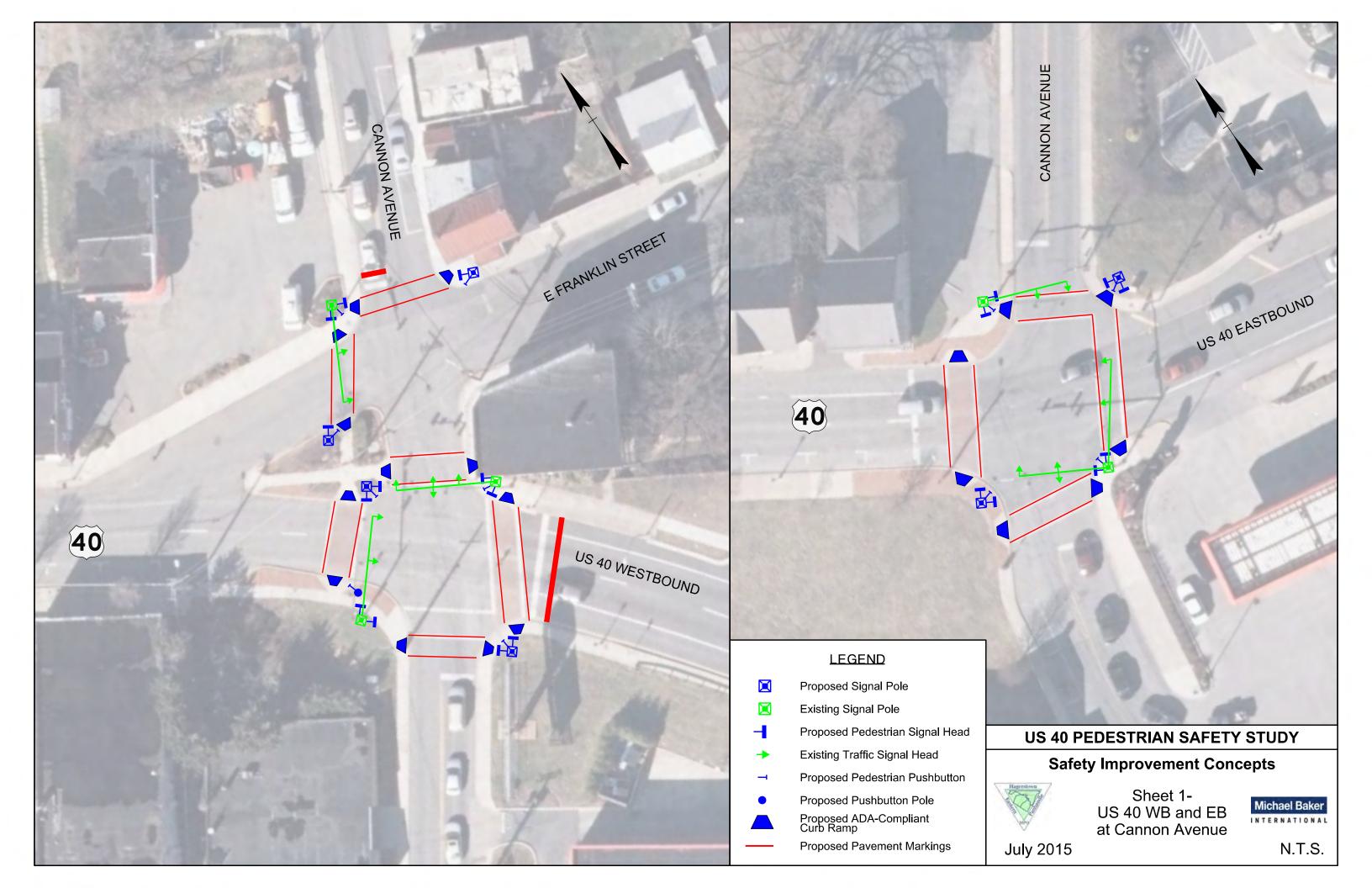
Other Field Notes

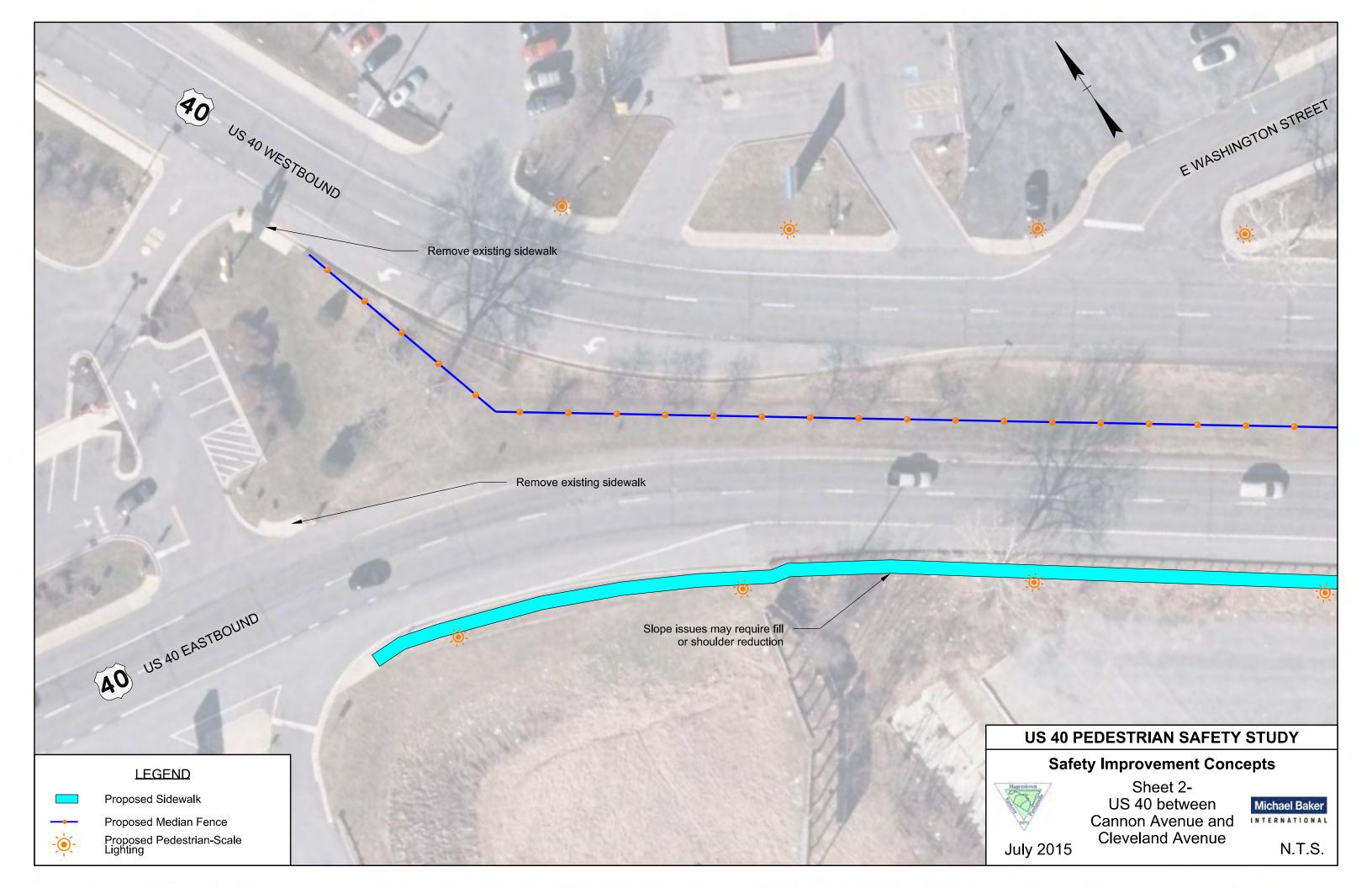
Other Field Notes

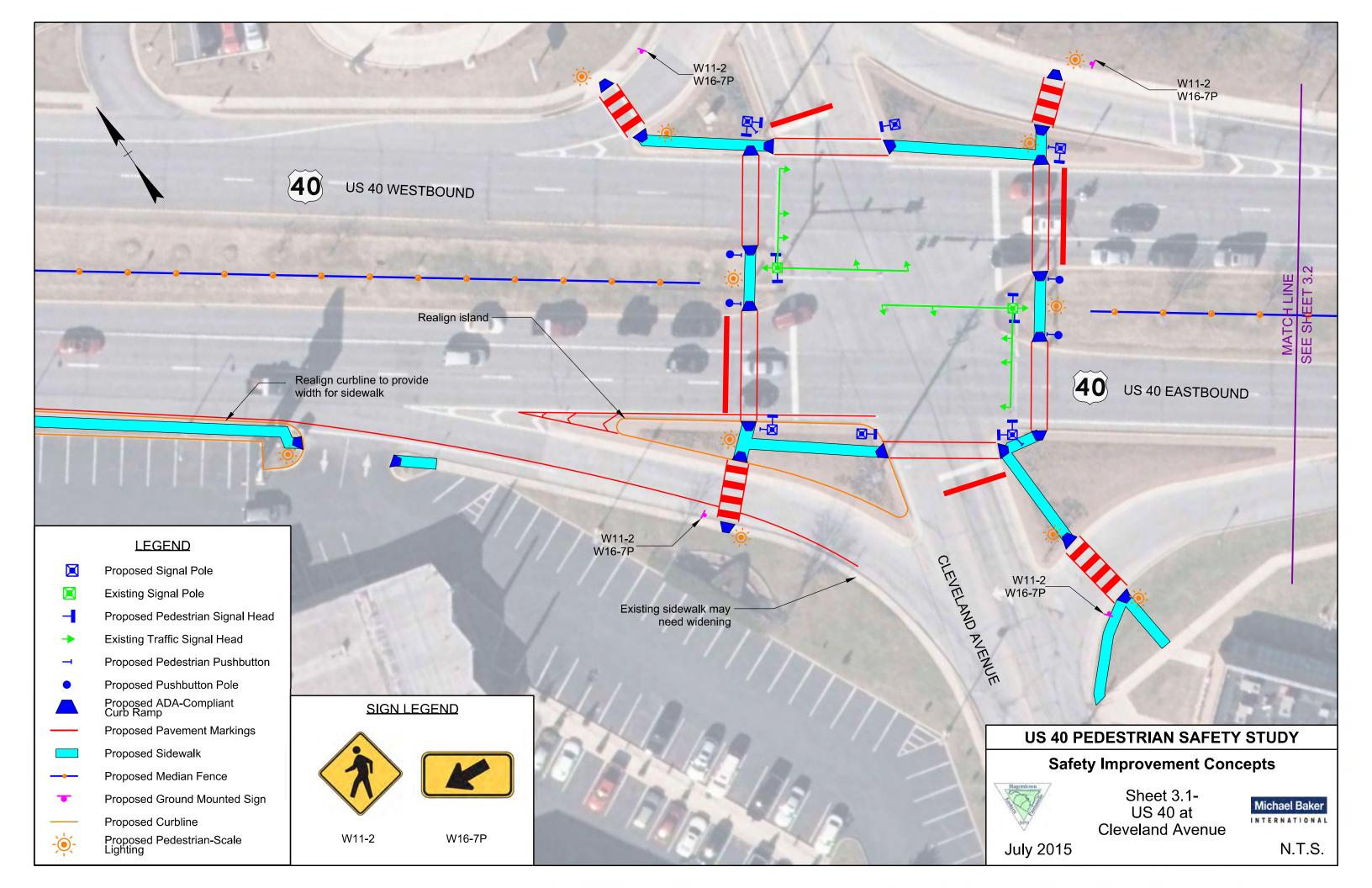


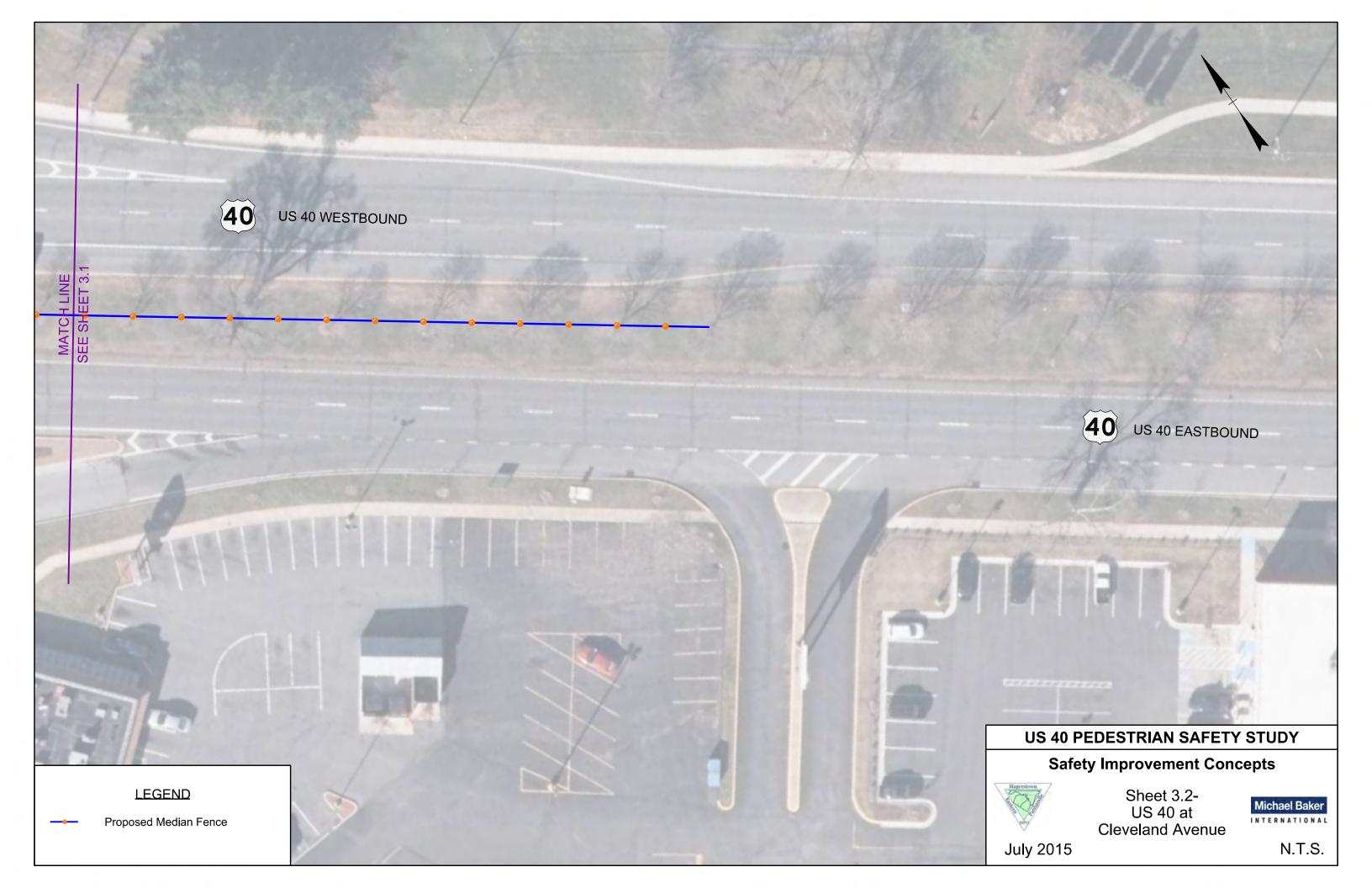


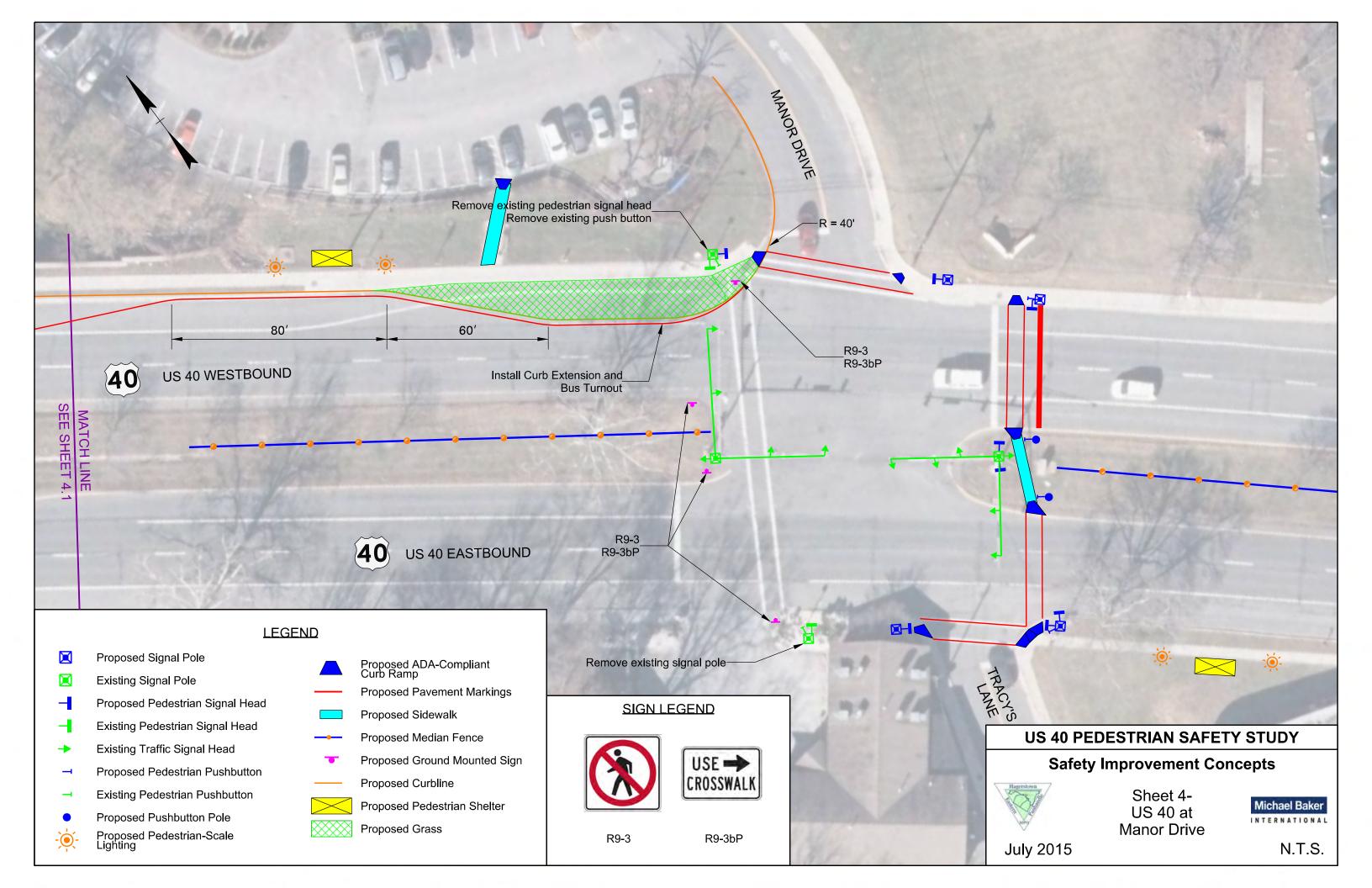
Appendix G: Full-Page Safety Improvement Concept Plans

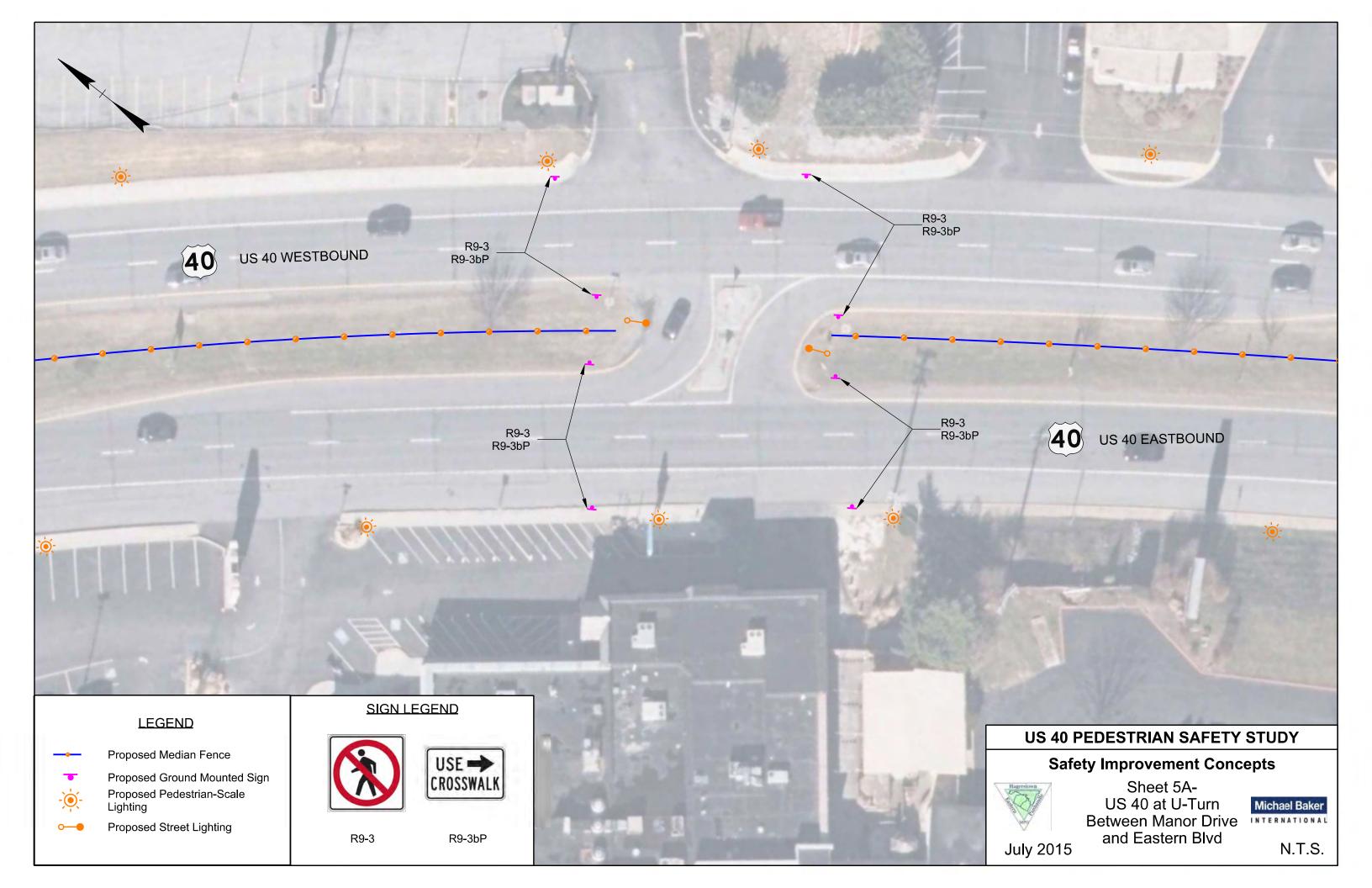


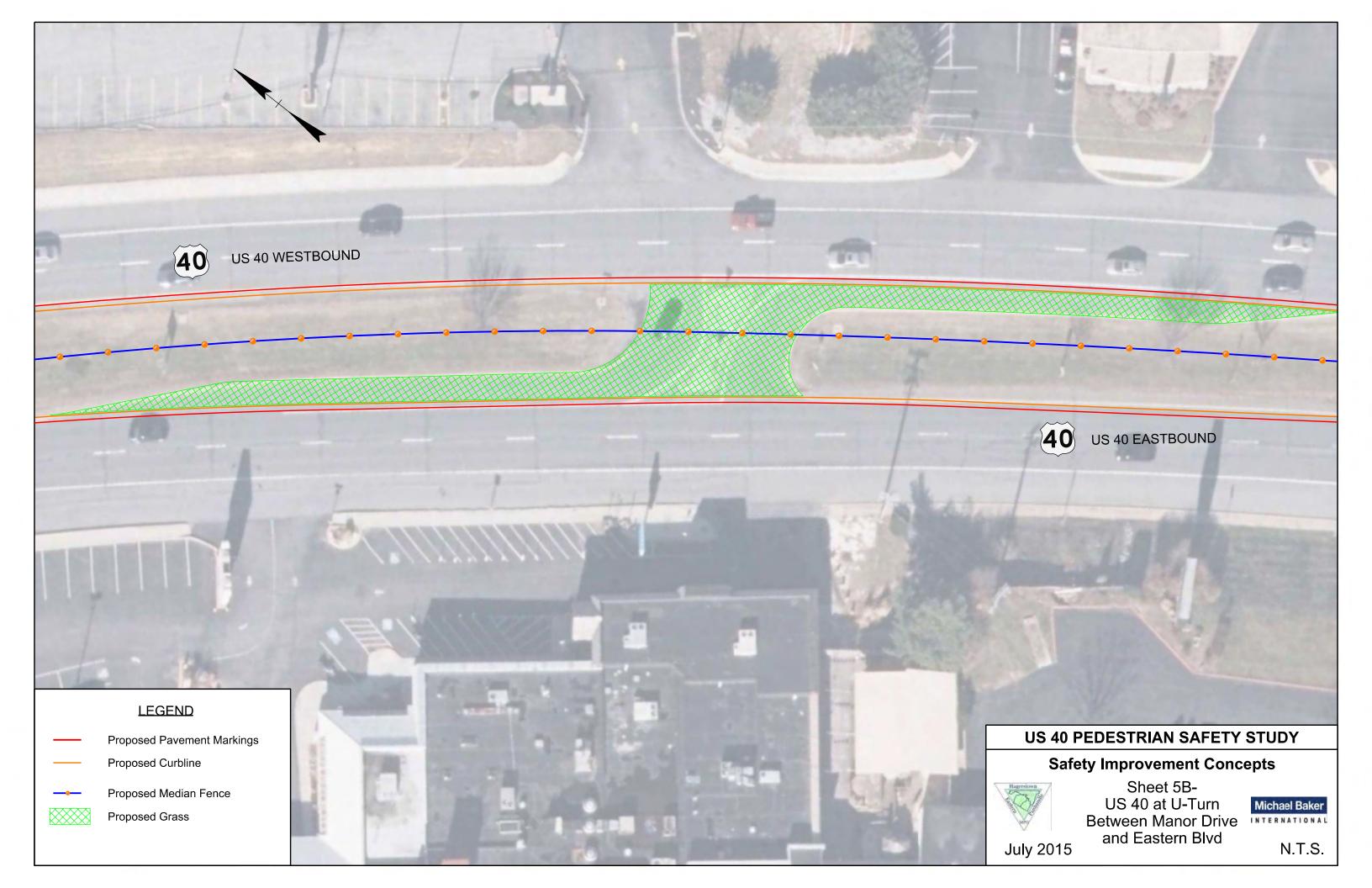


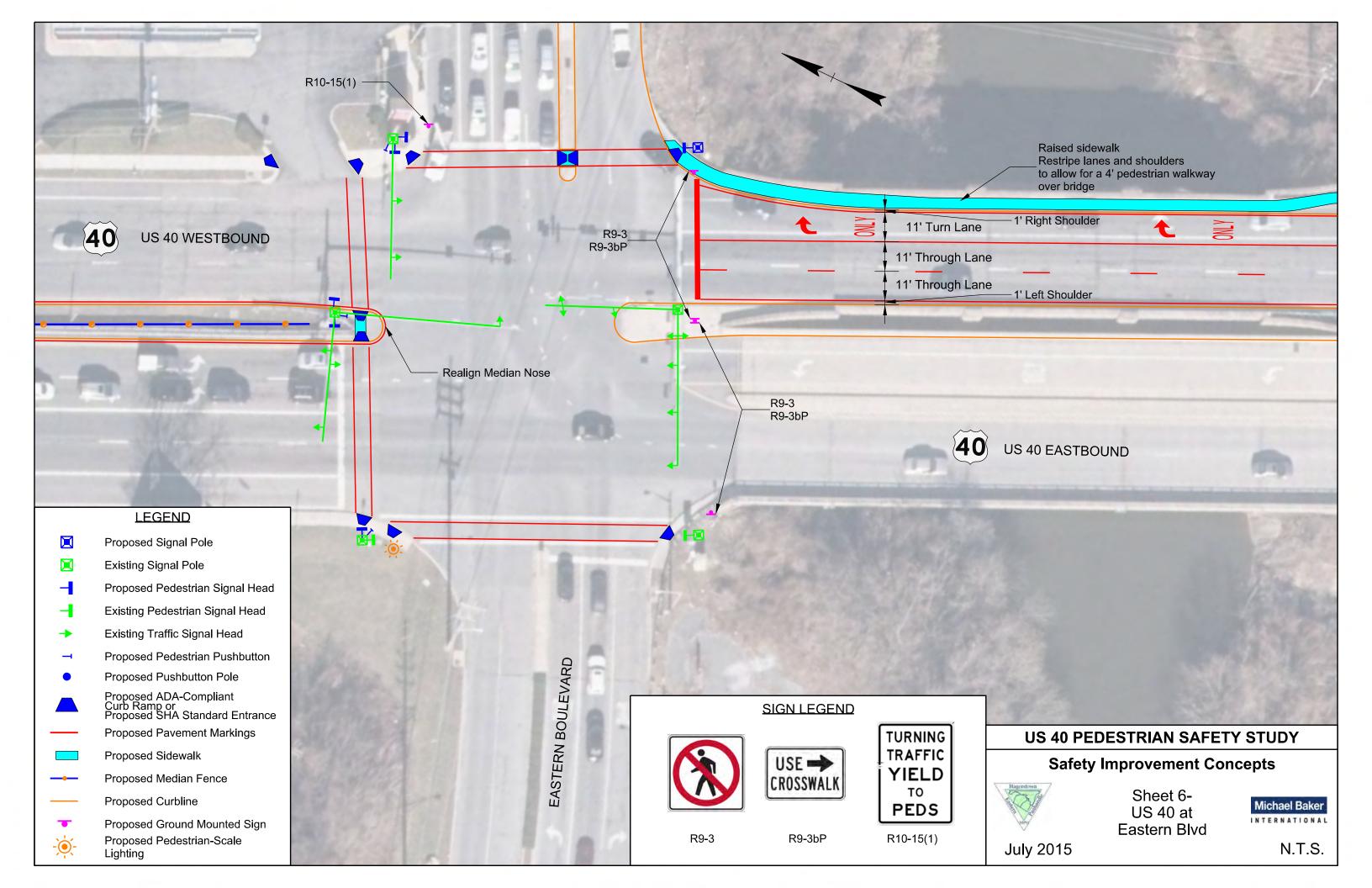


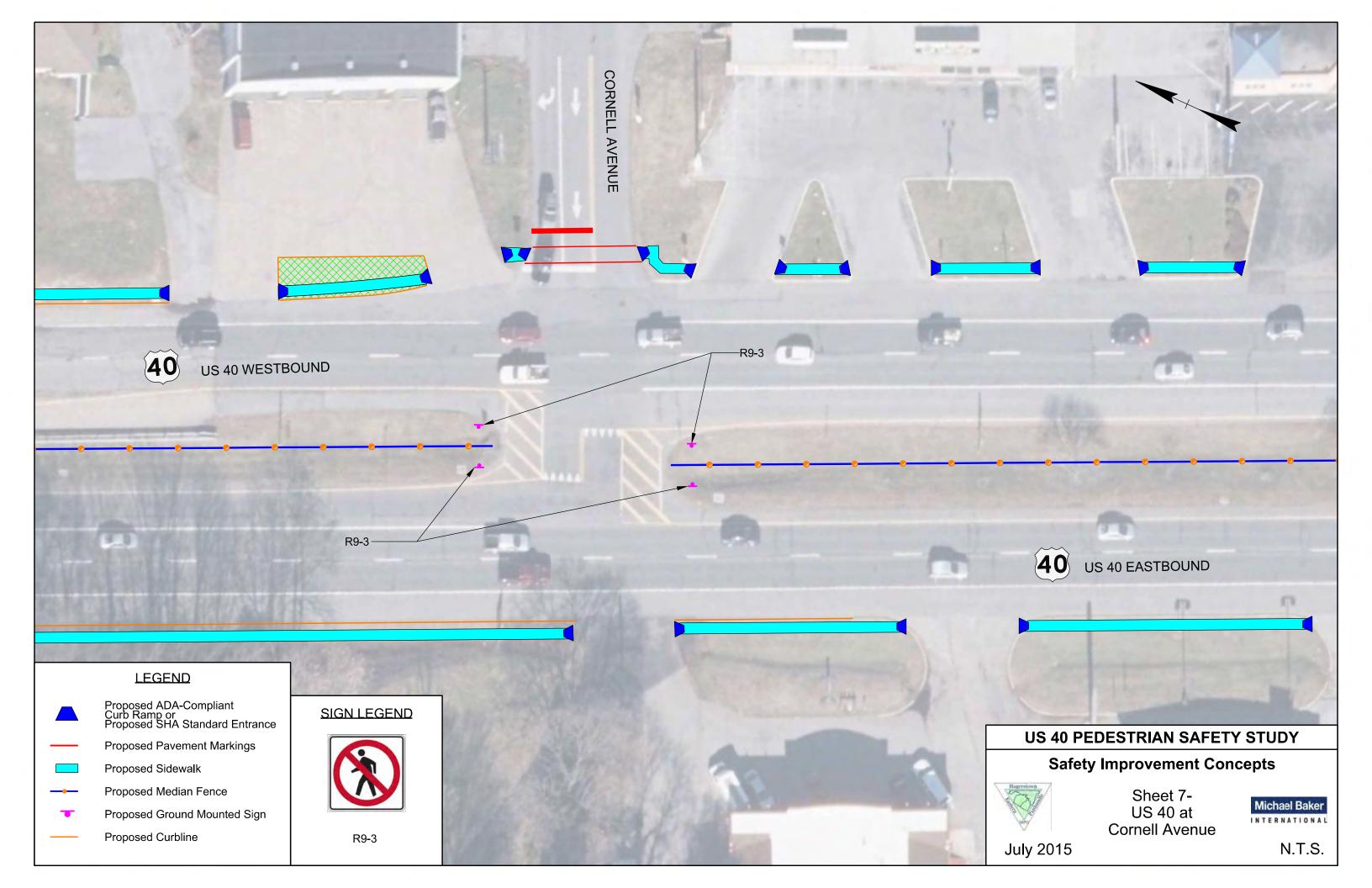


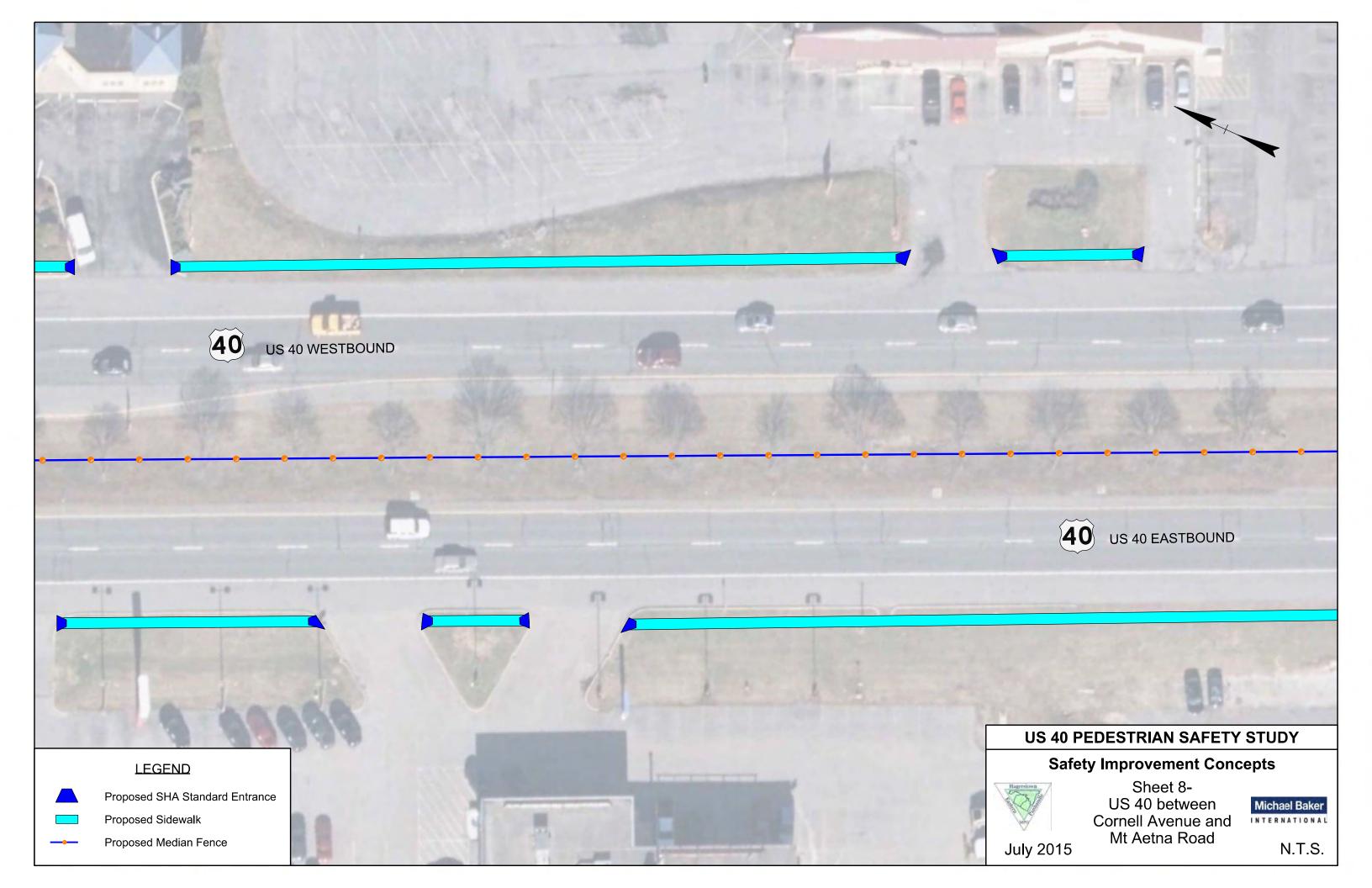


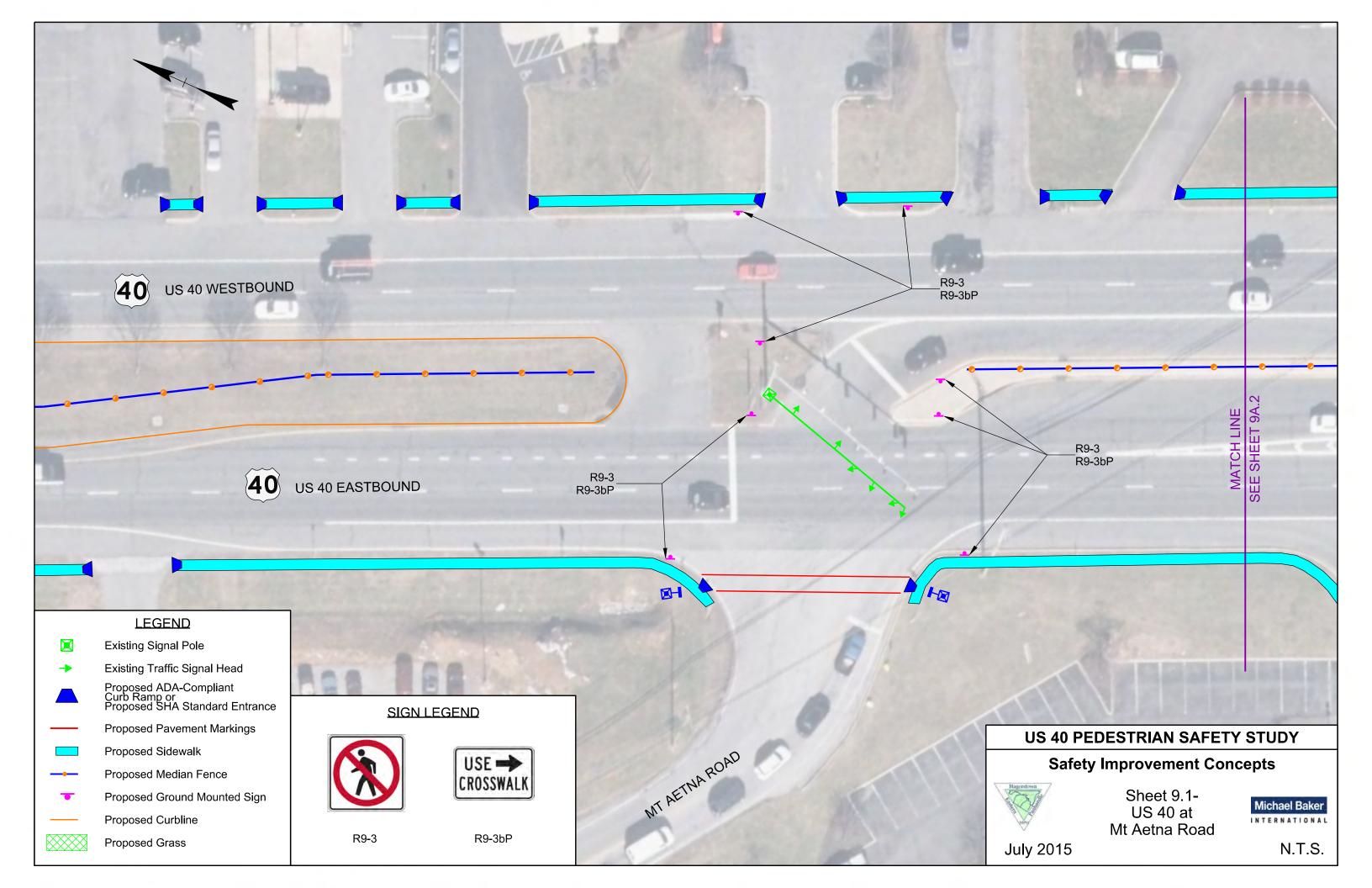


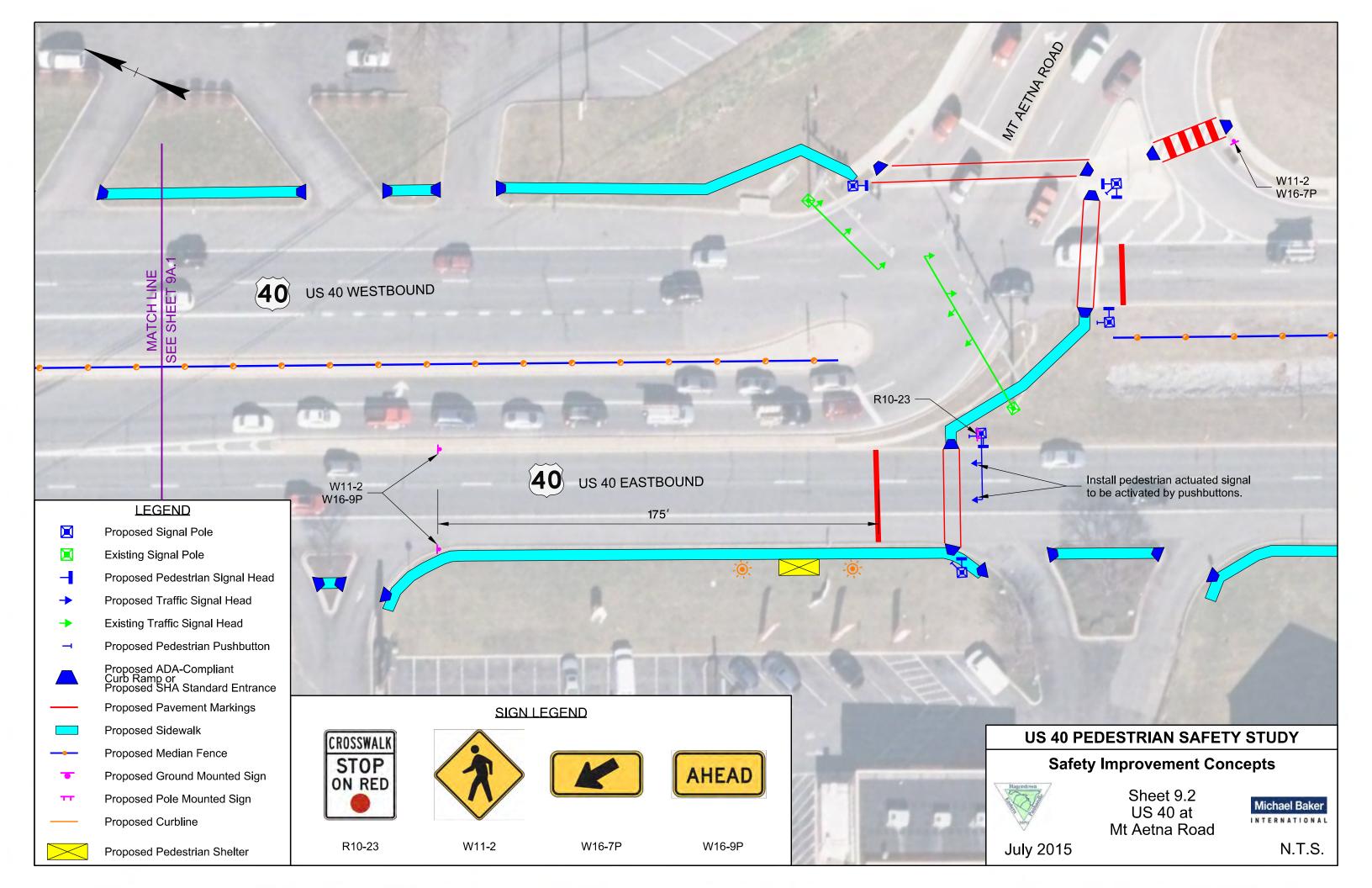


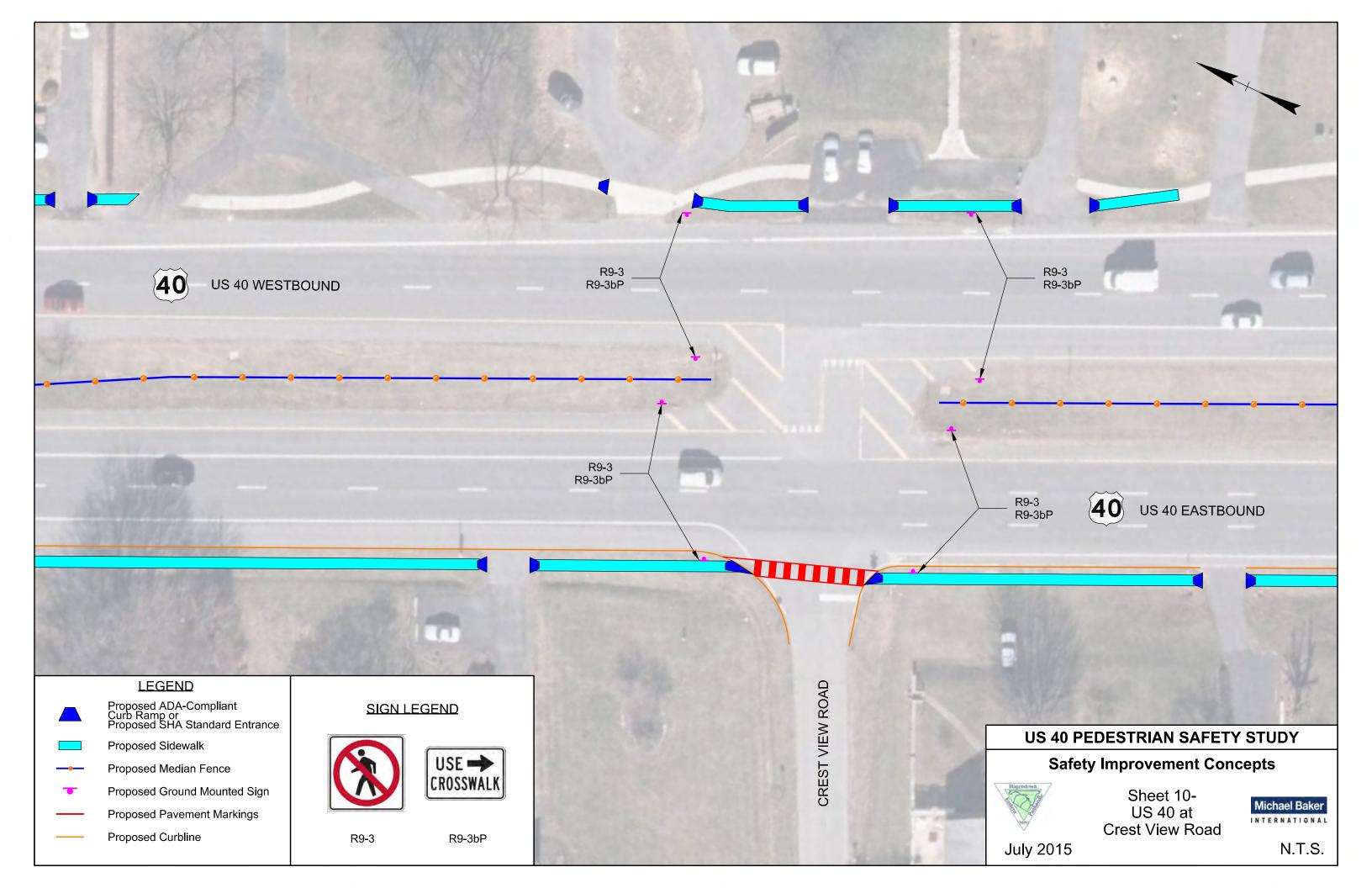


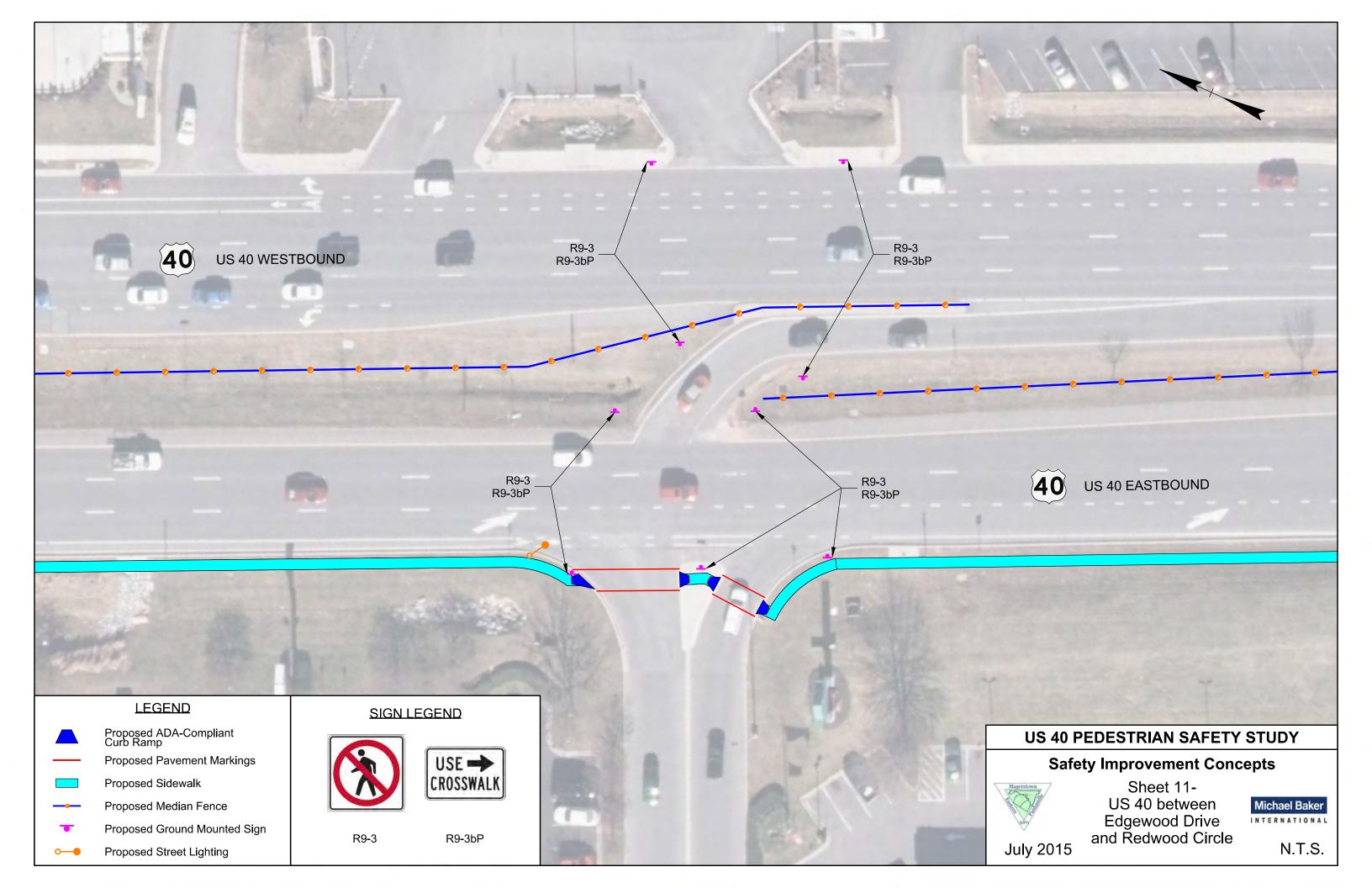


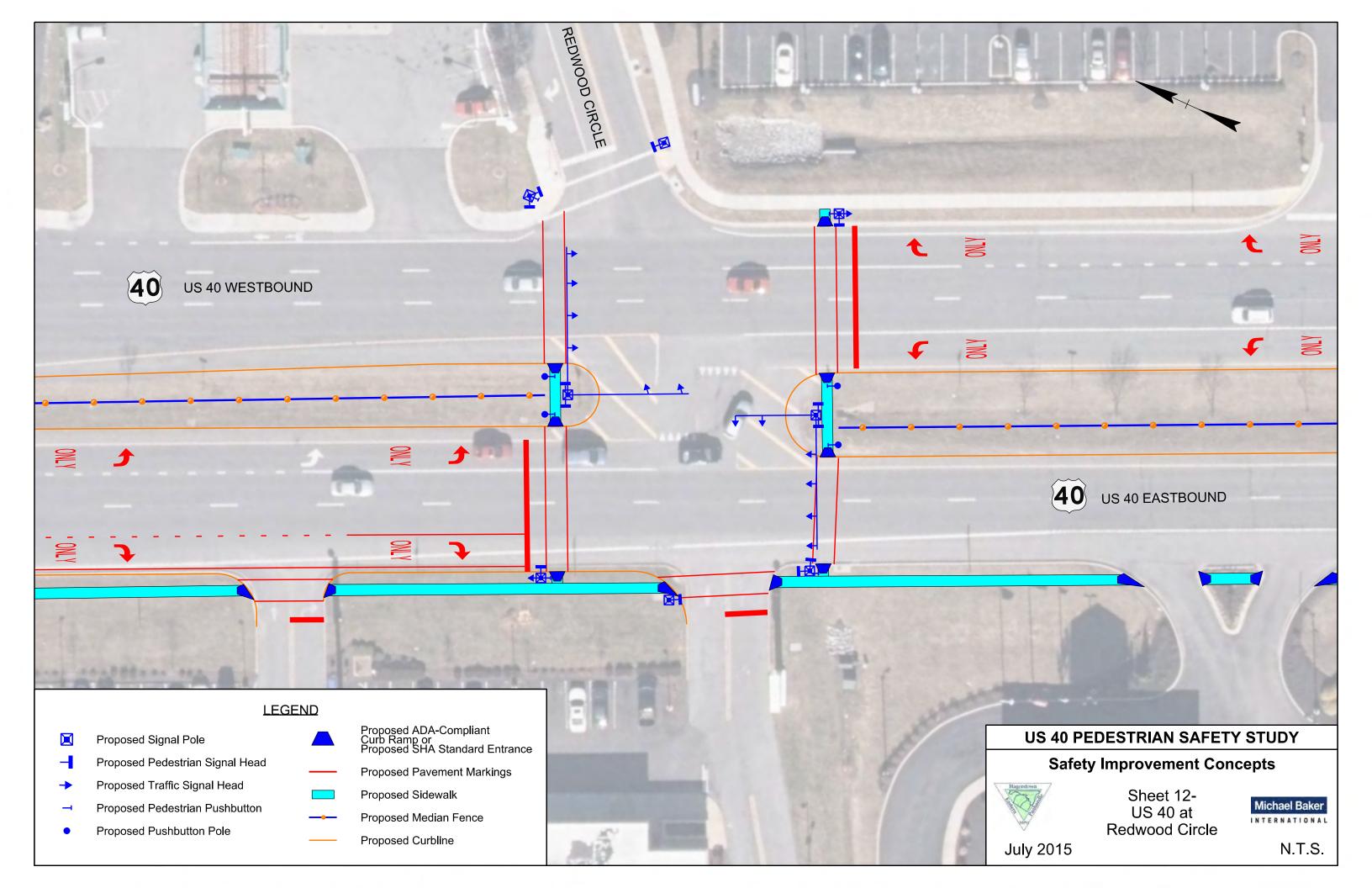














Appendix H: US 40 (Dual Highway) PRSA Recommendations Corridor Map



