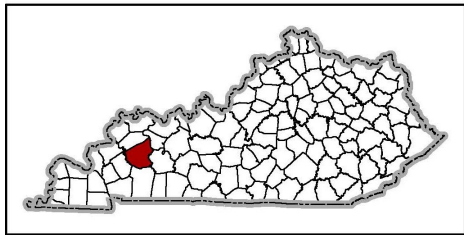


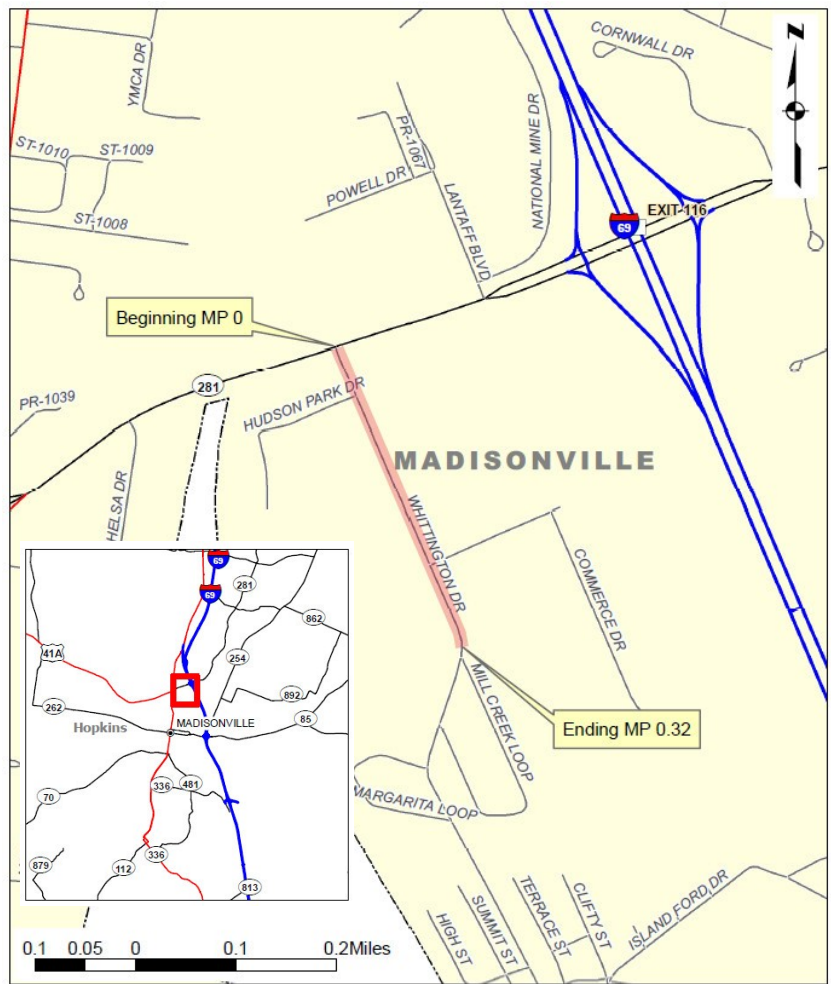
Data

Needs

Analysis



# Scoping Study



Reconstruct Whittington Drive (CS 1287) beginning 500 feet south of Commerce Drive and ending at the intersection of Whittington Drive and Island Ford Road (KY 281), including reconstruction of the KY 281 intersection.

Hopkins County

Item No. **2-804.4**

Prepared by

KYTC District 2 Planning

July 2021



I. PRELIMINARY PROJECT INFORMATION			
<b>County:</b>	Hopkins	<b>Item No.:</b>	2-804.4
<b>Route Number(s)*:</b>	CS-1287	<b>Road Name:</b>	Whittington Drive
<b>Program No.:</b>	133070	<b>UPN:</b>	FD52 054 CS1287 000-001
<b>Federal Project No.:</b>	STP 5009025	<b>Type of Work:</b>	Reconstruction
2020 <b>Highway Plan Project Description:</b>			
Reconstruct Whittington Drive beginning 500' south of Commerce Drive and ending at the intersection of Whittington Drive and Island Ford Road(KY 281), including the reconstruction of the KY 281 intersection.			
<b>Beginning MP:</b>	0	<b>Ending MP:</b>	0.32
<b>Project Length:</b>	0.32		
<b>In TIP:</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No		<a href="#">Reconcile Project Information in Clearview</a>
<b>State Class.:</b>	<input type="checkbox"/> Primary <input type="checkbox"/> Secondary		<b>Route is on:</b> <input type="checkbox"/> NHS <input type="checkbox"/> NN <input type="checkbox"/> Ext Wt
<b>Functional Class.:</b>	<input checked="" type="checkbox"/> Urban <input type="checkbox"/> Rural	Collector	<b>Truck Class.:</b> <input type="checkbox"/> % Trucks:
<b>MPO Area:</b>	Not Applicable		<b>Terrain:</b> Level
<b>ADT (current):</b>	5090 2018		
<b>Access Control:</b>	<input type="checkbox"/> None <input checked="" type="checkbox"/> Permit <input type="checkbox"/> Fully Controlled <input type="checkbox"/> Partial Spacing:		
<b>Median Type:</b>	<input checked="" type="checkbox"/> Undivided <input type="checkbox"/> Divided (Type):		
<b>Existing Bike Accommodations:</b>	None		<b>Ped:</b> <input type="checkbox"/> Sidewalk
<b>Posted Speed:</b>	<input checked="" type="checkbox"/> 35 mph <input type="checkbox"/> 45 mph <input type="checkbox"/> 55 mph <input type="checkbox"/> Other (Specify):		
<b>KYTC Guidelines Preliminarily Based on :</b>	35 MPH Proposed Design Speed		
<b>COMMON GEOMETRIC</b>			
<b>Roadway Data:</b>	<b>EXISTING</b>	<b>PRACTICES**</b>	
No. of Lanes	2	2	<a href="#">Existing Rdwy. Plans available?</a> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Year of Plans:
Lane Width	11'	10ft	
Shoulder Width	4'		<input checked="" type="checkbox"/> <a href="#">Traffic Forecast Requested</a> Date Requested: 5/28/2021
Max. Superelevation***		6%	<input type="checkbox"/> Mapping/Survey Requested Date Requested:
Minimum Radius***			Type: <input type="text"/>
Maximum Grade		9%	
Minimum Sight Dist.		250	
Sidewalk Width(urban)		5ft	
Clear-zone <sup>†</sup>			
Project Notes/Design Exceptions?			
<b>Bridge No.:#</b>	(Bridge #1)	(Bridge #2)	
Sufficiency Rating			
Total Length			-
Width, curb to curb			<input type="checkbox"/> Yes <input type="checkbox"/> No
Span Lengths			
Year Built			
Posted Weight Limit			Detour Length(s):
Structurally Deficient?			
Functionally Obsolete?			
Existing Bridge Type			
*If more than one road is included in the project, include additional sheets. **Based on proposed Design Speed ***AASHTO's A Policy on Geometric Design of Highways and Streets †AASHTO's Roadside Design Guide ‡If more than two bridges are located on the project, include additional sheets.			
II. PROJECT PURPOSE AND NEED			

<b>A. Legislation</b>				
This project was a breakout priority section from Parent project 2-804	<i>Funding</i>	<i>Phase</i>	<i>Year</i>	<i>Amount</i>
	FED	D	2021	\$900,000
	FED	R	2022	\$2,000,000
	FED	U	2023	\$1,200,000
	FED	C	2025	\$3,100,000
<b>B. Project Status</b>				
<p>\$ 450,000 in design funds have been authorized. Project is expected to be advertised in July, 2021.</p>				
<b>C. System Linkage</b>				
<p>This project is a breakout of a larger project. The overall project is a new north south route that connects KY 70 (Center Street) and KY 281 (Island ford Road) and will help connect two developing areas by providing a new rail crossing. The section of this overall project from KY 70 to a point near the railroad has already been constructed and another section is currently under way.</p>				
<b>D. Modal Interrelationships</b>				
<p>This route will not provide direct access to a multimodal facility such as a riverport, airport or rail facility.</p>				
<b>E. Social Demands &amp; Economic Development</b>				
<p>This project is a break out of a larger project. The overall project will provide a connection over the railroad to a growing development that currently has medical facilities, restaurants and hotels.</p>				

**II. PROJECT PURPOSE AND NEED (cont.)**

**F. Transportation Demand**

The last actual traffic count for this section was 5090 ADT in 2018. There was an increase in traffic from the 2015 count as shown in the tables and exhibits. A new count will be conducted this year.

**G. Capacity**

This route currently serves a grocery store, several restaurants and a neighborhood. Because of a railroad this route provides the only way in and out for this neighborhood. This project is a breakout of a larger project that will provide a railroad crossing that will provide another connection and improve traffic flow in this area.

**H. Safety**

There were 44 collisions reported during the period of 6/3/2017-6/3/2021. Of these 44 collisions, 40 involved more than one vehicle. The majority of the collisions (45%) involved Angle Collisions. Rear end collisions made up another 30%. There were 40 collisions that happened during the daylight, 3 at dark and 1 reported at dawn. Of the 3 that were listed as dark, all 3 were on a lighted section of roadway. Additional information is shown in the Tables and Exhibits section below.

**I. Roadway Deficiencies**

The roadway is a narrow 2 lane that has several access points including one at Commerce Drive that has a lot of truck traffic. There are two access points that are close in proximity to the intersection with KY 281 which can cause backups.

III. PRELIMINARY ENVIRONMENTAL OVERVIEW	
<b>A. Air Quality</b> Project is in: <input type="checkbox"/> Attainment area <input type="checkbox"/> Nonattainment or Maintenance Area <input type="checkbox"/> PM 2.5 County STIP Pg. #: <input type="text"/> TIP Pg. #: <input type="text"/>	
No STIP or TIP at this time	
<b>B. Archeology/Historic Resources</b> <input type="checkbox"/> Known Archeological or Historic Resources are present	
No Section 106 issues present at this time	
<b>C. Threatened and Endangered Species</b>	
No habitat threatened unless trees removed at corner of Commerce St and Whittington Dr	
<b>D. Hazardous Materials</b> <input type="checkbox"/> Potentially Contaminated Sites are present <input type="checkbox"/> Potential Bridge or Structure Demolition	
This is a small section of road with what appears to be industrial buildings. There are no signs of contamination or USTs	
<b>E. Permitting</b> Check all that may apply: <input type="checkbox"/> Waters of the US <input type="checkbox"/> MS4 area <input type="checkbox"/> Floodplain Impacts <input type="checkbox"/> Navigable Waters of the US Impacts Are 401/404 Permits likely to be required? <input type="checkbox"/> Yes <input type="checkbox"/> No Impacts to: <input type="checkbox"/> Wetlands <input type="checkbox"/> Stream/Lake/Pond <input type="checkbox"/> ACE LON <input type="checkbox"/> ACE NW <input type="checkbox"/> ACE IP <input type="checkbox"/> DOW IWQC <input type="checkbox"/> Special Use Waters	
No Sect 401/404 permits needed. No creeks or wetlands appear to be affected	
<b>F. Noise</b> Are existing or planned noise sensitive receptors adjacent to the proposed project? <input type="checkbox"/> Yes <input type="checkbox"/> No Is this considered a "Type I Project" according to <a href="#">KYTC Noise Analysis and Abatement Policy?</a> <input type="checkbox"/> Yes <input type="checkbox"/> No	
No housing and all businesses on project. No concern about increased noise	
<b>G. Socioeconomic</b> Check all that may apply: <input type="checkbox"/> Low Income/Minority Populations <input type="checkbox"/> Relocations <input type="checkbox"/> Local Land Use Plan available	
No residents	
<b>H. Section 4(f) or 6(f) Resources</b> The following are present on the project: <input type="checkbox"/> Section 4(f) Resources <input type="checkbox"/> Section 6(f) Resources	
No recreational or LWCF funded property present	
<b>Anticipated Environmental Document:</b>	<input type="text" value="CE Level 1"/> ▼

<b>IV. PROJECT NEED, PURPOSE &amp; SCOPE</b>
<p><b>A. Need:</b></p> <p>The section of Whittington Drive identified in this project serves commercial development located off of KY 281 (Island Ford Road). There is another section of roadway known as Midtown Drive that lies south of Whittington Drive that connects to KY 70 (Center St) just west of the I69 interchange. This section of Midtown Drive is currently experiencing commercial development and will continue to develop along the portion completed and future extensions of Midtown Drive. The improvement of the existing section of Whittington Drive is part of a larger project to provide a connector from KY 70 to KY 281 by upgrading Whittington Drive and linking the Whittington Drive and Midtown Drive segments.</p> <p>Whittington Drive is currently a busy segment of roadway due to its combination of commercial businesses and residential traffic that put its ADT at 5090 (2018). The congestion in this area combined with multiple access points in a short segment create traffic and safety issues. These issues on the existing section of Whittington Drive need to be addressed in order to provide an efficient connector between Whittington Drive and Midtown Drive.</p>
<p><b>B. Purpose:</b></p> <p>The purpose of this project is to upgrade Whittington Drive to improve congestion, traffic flow, safety ,and connectivity as part of a larger project that will provide a connection between KY 70 and KY 281.</p>
<p><b>C. Scope:</b></p> <p>To make necessary improvements to Whittington Drive (CS 1287)from 500 feet south of Commerce Drive to the intersection with KY 281, including improvements to the intersection. This project should appropriately address any access issues with current developments along the route.</p>

<b>V. PROJECT ESTIMATE &amp; METHODOLOGY</b>		
<b>Estimate Methodology:</b>	<b>Current Estimate</b>	
This project is a breakout of project 2-804. This project includes the reconstruction of the intersection with KY 281 and is the same as what is shown in precon database.	<u>Phase</u> <u>Estimate</u>	
	Planning	
	Design	900,000
	R/W	2,000,000
	Utilities	1,200,000
	Const	3,100,000
	<b>Total</b>	<b>7,000,000</b>

**VI. UTILITIES POTENTIALLY AFFECTED - CONTACT INFORMATION**

Atmos Eergy  
Contact - Chase Downing  
3275 Highland Pointe Dr.  
Owensboro KY, 42303  
(270) 685-8128

City of Madisonville (Electric/Sewer/Water)  
Contact - Eric Hickman  
900 McCoy Ave. P.O. Box 7  
Madisonville, KY 42431  
(270) 824-7080

AT&T  
Contact-Scott Roche  
120 Clark Street  
Henderson KY 42420  
Henderson KY 42420  
(270) 831-3025

Spectrum  
Contact - Justin Sturgin  
250 Madison Square Dr  
Madisonville, KY 42431  
(812) 253-2767

Windstream  
Contact- James Galvin  
Elizabethtown KY 42701  
111 South Main Street  
(270) 765-1818

VII. TABLES AND EXHIBITS

Traffic Data

**KYTC Traffic Count Reporting System**

Search Interactive Map

Print Download Station Details

Historical Traffic Volume Summary  
Station Details:

Sta ID:	054B34	Begin MP:	0	Newest Count:	AADT: 5090
Sta Type:	Full Coverage	Begin Desc:	KY 281 (ISLAND FORD ROAD)	Year:	2018
Map:	<a href="#">MapIt</a>	End Mp:	0.7770	% Single:	
District:	2	End Desc:	NORTH KENTUCKY AVENUE	% Combo:	
County:	Hopkins	Impact Year:		K Factor:	10.50
Route:	054-CS-1287 -000	Year Added:	1994	D Factor:	55
Route Desc:	WHITTINGTON DR				

Definitions:  
 Sta. ID - Three digit county number + station number  
 MP - milepoint  
 Impact Year - year of significant change to traffic pattern within station segment  
 AADT - Annual Average Daily Traffic - the annualized average 24-hour volume of vehicles on a segment of roadway  
 % Single - single unit truck volume as a percentage of the AADT  
 % Combo - combination truck volume as a percentage of the AADT  
 K Factor - peak hour volume as a percentage of the AADT  
 D Factor - percentage of peak hour volume flowing in the peak direction

Year	AAADT	Year	AAADT	Year	AAADT
2021		2011		2001	3870
2020		2010		2000	
2019		2009	5110	1999	
2018	5090	2008		1998	
2017		2007		1997	
2016		2006	4960	1996	
2015	4207	2005		1995	
2014		2004		1994	
2013		2003		1993	
2012	4529	2002		1992	





VII. TABLES AND EXHIBITS (cont.)

Collision Data 6/3/2017- 6/3/2021  
48 Total Collisions

Incident ID	County	Roadway Number	Roadway Name	Street	Intersection Name	Intersection Roadway Name	Between 12/01/16-12/31/16	Between 01/01/17-03/31/17	Between 04/01/17-06/30/17	Between 07/01/17-09/30/17	Between 10/01/17-12/31/17	Weather	Roady Condition	DrAnalysisCode	Manner of Collision	LightCondition
27991378	HOPKINS		WHITTINGTON	DR		HUDSON PARK						CLEAR	DRY	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	DAYLIGHT
27990072	HOPKINS		WHITTINGTON	DR		HUDSON PARK						CLEAR	DRY	COLLISION IN PARKING LOT	ANGLE	DAYLIGHT
27779240	HOPKINS		WHITTINGTON	DR		HUDSON PARK						CLEAR	DRY	ANGLE COLLISION - OTHER	ANGLE	DAYLIGHT
27723139	HOPKINS		WHITTINGTON	DR		HUDSON PARK						CLOUDY	WET	ANGLE COLLISION - OTHER	ANGLE	DARK-HWY LIGHT/ON
27677732	HOPKINS		WHITTINGTON	DR		HUDSON PARK			COMMERC	HUDSON PARK		CLEAR	DRY	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	DAYLIGHT
27086479	HOPKINS		WHITTINGTON	DR		HUDSON PARK						CLEAR	DRY	OTHER INTERSECTION COLLISIONS	REAR END	DAYLIGHT
26888789	HOPKINS		WHITTINGTON	DR		HUDSON PARK						CLEAR	DRY	OPPOSING LEFT TURN	REAR END	DAYLIGHT
26779432	HOPKINS		WHITTINGTON	DR	KY08BL	ISLAND FORD						RAINING	WET	OTHER INTERSECTION COLLISIONS	REAR END	DAYLIGHT
26705430	HOPKINS		WHITTINGTON	DR		HUDSON PARK						RAINING	WET	ANGLE COLLISION - OTHER	ANGLE	DAYLIGHT
26442394	HOPKINS		WHITTINGTON	DR		HUDSON PARK						RAINING	WET	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	DAYLIGHT
26202348	HOPKINS		WHITTINGTON	DR	KY08BL	ISLAND FORD			COMMERC	HUDSON PARK		CLOUDY	DRY	OTHER INTERSECTION COLLISIONS	REAR END	DAYLIGHT
26202189	HOPKINS		WHITTINGTON	DR		HUDSON PARK						CLOUDY	WET	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	DAYLIGHT
26187906	HOPKINS		WHITTINGTON	DR		COMMERC						RAINING	WET	COLLISION WITH FIXED OBJECT IN INTERSECTION - FIRST VEH	SINGLE VEHICLE	DAYLIGHT
26272344	HOPKINS		WHITTINGTON	DR		COMMERC			HUDSON PARK	HUDSON PARK		CLOUDY	DRY	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	DAYLIGHT
26101890	HOPKINS		WHITTINGTON	DR		HUDSON PARK						CLEAR	DRY	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	DAYLIGHT
25958476	HOPKINS		WHITTINGTON	DR		HUDSON PARK			KY08BL	ISLAND FORD		CLOUDY	WET	ANGLE COLLISION - OTHER	ANGLE	DAYLIGHT
25873082	HOPKINS		WHITTINGTON	DR		HUDSON PARK						CLEAR	DRY	OTHER INTERSECTION COLLISIONS	REAR END	DAYLIGHT
25708702	HOPKINS		WHITTINGTON	DR		HUDSON PARK			KY08BL	ISLAND FORD		CLEAR	DRY	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	DAYLIGHT
25359833	HOPKINS		WHITTINGTON	DR		HUDSON PARK						DRY	DRY	ANGLE COLLISION - OTHER	ANGLE	DAYLIGHT
25217090	HOPKINS		KENTUCKY	AVE		WHITTINGTON						RAINING	WET	WATER STANDINGS OR MOVING	ANGLE COLLISION - OTHER	DAYLIGHT
25081336	HOPKINS		WHITTINGTON	DR		COMMERC			HUDSON PARK	HUDSON PARK		RAINING	WET	ANGLE COLLISION - OTHER	ANGLE	DARK-HWY LIGHT/ON
24980139	HOPKINS		WHITTINGTON	DR	KY08BL	ISLAND FORD						CLEAR	DRY	REAR END - ONE VEHICLE TURNING RIGHT	REAR END	DAYLIGHT
24870411	HOPKINS		WHITTINGTON	DR		HUDSON PARK						RAINING	WET	ANGLE COLLISION - OTHER	ANGLE	DAYLIGHT
24530537	HOPKINS		WHITTINGTON	DR		HUDSON PARK						CLOUDY	DRY	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	DAYLIGHT
24505932	HOPKINS		WHITTINGTON	DR		HUDSON PARK			KY08BL	ISLAND FORD		CLOUDY	DRY	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	DAYLIGHT
24418829	HOPKINS		WHITTINGTON	DR		HUDSON PARK						CLEAR	DRY	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	DAYLIGHT
24380539	HOPKINS		WHITTINGTON	DR		HUDSON PARK						CLOUDY	WET	OTHER ROADWAY OR MID-BLOCK COLLISION	REAR END	DAYLIGHT
24350109	HOPKINS		WHITTINGTON	DR		HUDSON PARK						CLOUDY	DRY	ANGLE COLLISION - OTHER	ANGLE	DAYLIGHT
24340344	HOPKINS		WHITTINGTON	DR		HUDSON PARK						CLEAR	DRY	REAR END IN TRAFFIC LANES BOTH VEHICLES MOVING	REAR END	DAYLIGHT
24300323	HOPKINS		WHITTINGTON	DR		COMMERC			HUDSON PARK	HUDSON PARK		RAINING	WET	OTHER ROADWAY OR MID-BLOCK COLLISION	OPPOSING LEFT TURN	DAYLIGHT
24272885	HOPKINS		WHITTINGTON	DR		HUDSON PARK			COMMERC	HUDSON PARK		CLEAR	DRY	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	DAYLIGHT
24202232	HOPKINS		WHITTINGTON	DR		HUDSON PARK			COMMERC	HUDSON PARK		CLEAR	DRY	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	DAYLIGHT
23771578	HOPKINS		CROSS	ST		WHITTINGTON						DRY	DRY	VEHICLE BACKING IN INTERSECTION	BACKING	DAYLIGHT
23760534	HOPKINS		WHITTINGTON	DR		MILL CREEK						CLEAR	DRY	ANGLE COLLISION - OTHER	ANGLE	DAYLIGHT
23755540	HOPKINS		WHITTINGTON	DR		HUDSON PARK			COMMERC	HUDSON PARK		RAINING	WET	REAR END IN TRAFFIC LANES WITH/EARLY EMBANKMENT	SINGLE VEHICLE	DAYLIGHT
23550671	HOPKINS		WHITTINGTON	DR		HUDSON PARK						CLEAR	DRY	ANGLE COLLISION - OTHER	ANGLE	DAYLIGHT
23483184	HOPKINS		WHITTINGTON	DR		HUDSON PARK			COMMERC	HUDSON PARK		CLEAR	DRY	SIDESWIPES COLLISION - OPPOSITE DIRECTION	SIDESWIPES-OPPOSITE DIRECTION	DAYLIGHT
23358860	HOPKINS		WHITTINGTON	DR		HUDSON PARK			HUDSON PARK	HUDSON PARK		RAINING	WET	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	DAYLIGHT
23180509	HOPKINS		WHITTINGTON	DR		HUDSON PARK						CLEAR	DRY	ANGLE COLLISION - OTHER	ANGLE	DAYLIGHT
22737518	HOPKINS		WHITTINGTON	DR		COMMERC						CLOUDY	DRY	OTHER INTERSECTION COLLISIONS	REAR END	DAYLIGHT
22007156	HOPKINS		WHITTINGTON	DR		HUDSON PARK						CLEAR	DRY	ANGLE COLLISION - OTHER	ANGLE	DAYLIGHT
20940074	HOPKINS		WHITTINGTON	DR		HUDSON PARK			COMMERC	HUDSON PARK		CLEAR	DRY	1 VEHICLE ENTERING/LEAVING ENTRANCE	ANGLE	DARK-HWY LIGHT/ON
20183235	HOPKINS		WHITTINGTON	DR		HUDSON PARK						CLEAR	DRY	COLLISION IN PARKING LOT	BACKING	DAYLIGHT
19994804	HOPKINS		WHITTINGTON	DR		COMMERC			HUDSON PARK	HUDSON PARK		CLEAR	DRY	COLLISION WITH ANIMAL IN INTERSECTION	SINGLE VEHICLE	DARK

