Assessment of Parameter/Topic: Safety Analyses

	Analyst:	Date:	Project:			
	Quantitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Qualitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Comments	Jurisdiction Staff Assessment of Comments Column
	• Number of crashes (per year)	• (Yes/No)	Compliance with Statewide Strategic Highway Safety Plan	• (Yes/No)	• Although speed is often included	• (Var/Ma/Mat applieshla/Taut)
	• Crash severity	• (Yes/No)	• Compliance with BMC's Strategic Highway Safety Plan	• (Yes/No)	in safety evaluations, it is treated as a separate parameter/topic.	• (Yes/No/Not applicable/Text)
	• Crash rate (per 100 million vehicle miles (MVM), or per entering vehicle)	• (Yes/No)	Compliance with Jurisdiction's Strategic Highway Safety Plan	• (Yes/No)	• For intersections, use rates per entering vehicle?	• (Yes/No/Not applicable/Text)
	• Number of fatalities	• (Yes/No)	• Extent to which the project implements the member jurisdiction's Complete Streets policies	• (Yes/No)	• Other performance metrics could be considered	• (Yes/No/Not applicable/Text)
Performance Metric(s)	• Number of serious injuries	• (Yes/No)	• Extent to which the project implements the member jurisdiction's Vision Zero Statement	• (Yes/No)		
	• Fatality rate per 100 million vehicle miles traveled (VMT)	• (Yes/No)	Presence of project within known High Crash Location	• (Yes/No)		
	• Serious injury rate per 100 million VMT	• (Yes/No)	• Compliance with design standards	• (Yes/No)		
	• Number of non-motorized fatalities and serious injuries	• (Yes/No)				
	• Number of crashes involving pedestrians and/or bicyclists	• (Yes/No)				
Means of	Before/after studies (Yes/No) Written Statement of	• (Yes/No)	• Document how the proposed improvements within the study area will address identified safety issues?	• (Yes/No/Not applicable/Text)		
Assessment	Highway Safety Manual procedures	• (Yes/No)	metric(s) described above		• Other means of assessment could	• (Yes/No/Not applicable/Text)
	Road safety audits	• (Yes/No)			be considered	
Threshold of Acceptability	• Decrease, or at least no increase, in performance metrics	• (Yes/No)	• Full compatibility	• (Yes/No)	Other thresholds could be considered	• (Yes/No/Not applicable/Text)
	Historic crash data available				• Time required for obtaining data may be a concern	• (Yes/No/Not applicable/Text)
Data Availability / Expense	from MDOT SHA for counties; available from Baltimore City	• (Yes/No)	• Not applicable	• (Not applicable)	• Level of detail of data may be a concern	• (Yes/No/Not applicable/Text)
	DOT for City				• Legality of providing data to developers may be a concern	• (Yes/No/Not applicable/Text)



		Assessme	nt of Parameter/Topic: Safety Analy	rses (Continued)		
	Quantitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Qualitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Comments	Jurisdiction Staff Assessment of Comments Column
Ease / Standardization	• Require use of Interactive Highway Safety Design Model (IHSDM)?	• (Yes/No)	• Straightforward	• (Agree/Disagree with	• Other types of analysis could be	• (Yes/No/Not applicable/Text)
of Analysis	• Require use of HCS Module?	• (Yes/No)		Assessment)	considered	
	Geometric improvements	• (Yes/No)	Geometric improvements	• (Yes/No)	• Physical/operational improvements may not always be possible, or cost effective	• (Yes/No/Not applicable/Text)
Availability of Reasonable Mitigation Strategies	 Operational improvements (including signing/pavement markings and lighting) 	• (Yes/No)	• Operational improvements (including signing/pavement markings and lighting)	• (Yes/No)	• Some mitigation strategies (such as changes to signing/pavements markings and automated enforcement), may be suggested in the TIS, but can only be implemented by the jurisdiction	• (Yes/No/Not applicable/Text)
Alternatives if No Reasonable Mitigation Strategies	• Impact fees	• (Yes/No)	• Impact fees	• (Yes/No)	• Can improvements for other parameters/topics be used for an offset?	• (Yes/No/Not applicable/Text)
Ease of Review by Jurisdiction (Easy, Moderate, Difficult)	• Moderate	• (Agree/Disagree with Assessment)	• Easy	• (Agree/Disagree with Assessment)	• Quantitative analyses could be challenging to review, particularly at outset of program	• (Yes/No/Not applicable/Text)
Likely Challenges	• Accurate assessment of performance metrics	• (Insert any other specific challenges)	• Difficult to assess meaningfully	• (Insert any other specific challenges)	 Past experiences by member agencies could be instructive Including safety as part of the TIS process would potentially 	(Yes/No/Not applicable/Text)
					require jurisdictions to change their Adequate Public Facilities Ordinance	• (Yes/No/Not applicable/Text)

Jurisdiction Staff Recommendation for Including This Parameter/Topic:

Yes:	
No:	

Jurisdiction Staff Recommendation for Measurement Type:

Qualitative Measurement:	
Quantitative Measurement:	
Both:	
Not Applicable:	



Assessment of Parameter/Topic: Controlling Speeds

	Analyst:	Date:	Project:			
	Quantitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Qualitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Comments	Jurisdiction Staff Assessment of Comments Column
Performance Metric(s)	 Compliance with posted speed limit Design speed of new roadways Difference in mean speed among modes 	 (Yes/No) (Yes/No) (Yes/No) 	• Extent to which the project implements the member jurisdiction's Complete Streets policies	• (Yes/No)	• For "difference in mean speed", the greater the differential is, the greater the potential is for conflict	• (Yes/No/Not applicable/Text)
Means of Assessment	 Before/after studies Mean speed of roadway vehicles Mean speed of all modes Percentage of vehicles exceeding posted speed limit 	 (Yes/No) (Yes/No) (Yes/No) (Yes/No) 	• Written Statement of Compatibility with performance metric described above	• (Yes/No)	• To simplify data collection, a mean speed for pedestrians and for bicycles could be assumed	• (Yes/No/Not applicable/Text)
Threshold of Acceptability	 Increase in compliance with posted speed limit; decrease in other performance metrics Compliance with design standards for new roadways 	 (Yes/No) (Yes/No) 	• Full compatibility with the performance metric described above	• (Yes/No)		• (Not applicable/Text)
Data Availability / Expense	Standard traffic data collection	• (Yes/No)	Not applicable	• (Not applicable)		• (Not applicable/Text)
Ease / Standardization of Analysis	Straightforward	• (Agree/Disagree with Assessment)	Straightforward	• (Agree/Disagree with Assessment)		• (Not applicable/Text)
	• Geometric improvements	• (Yes/No)	Geometric improvements	• (Yes/No)	• Physical/operational improvements may not always be possible, or cost effective	• (Yes/No/Not applicable/Text)
Availability of Reasonable Mitigation Strategies	 Operational improvements 		 Operational improvements 		• Some mitigation strategies may lead to modal conflicts (i.e., a positive effect on one mode of travel may adversely impact another)	• (Yes/No/Not applicable/Text)
Suaregies	(including signing/pavement markings and lighting)	• (Yes/No)	(including signing/pavement markings and lighting)	• (Yes/No)	• Some mitigation strategies (such as changes to signing/pavements markings and automated enforcement), may be suggested in the TIS, but can only be implemented by the jurisdiction	• (Yes/No/Not applicable/Text)
Alternatives if No Reasonable Mitigation Strategies	• Impact fees	• (Yes/No)	• Impact fees	• (Yes/No)	• Can improvements for other parameters/topics be used for an offset?	• (Yes/No/Not applicable/Text)



		Assessment	t of Parameter/Topic: Controlling Sp	eeds (Continued)		
	Quantitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Qualitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Comments	Jurisdiction Staff Assessment of Comments Column
Ease of Review by Jurisdiction (Easy, Moderate, Difficult)	• Easy	• (Agree/Disagree with Assessment)	• Easy	• (Agree/Disagree with Assessment)		• (Not applicable/Text)
	• Other than compliance with design standards, this performance metric requires before/after studies	• (Insert any other specific challenges)		- (here the second second		
Likely Challenges	• For before/after studies, would need to identify conditions and durations for data collection (peak/off-peak, 24-hour, free- flow/congested, etc.)	• (Insert any other specific challenges)		• (Insert any other specific challenges)		• (Not applicable/Text)

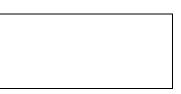
Jurisdiction Staff Recommendation for Including This Parameter/Topic:

Yes:	
No:	

Jurisdiction Staff Recommendation for Measurement Type:

Qualitative Measurement:	
Quantitative Measurement:	
Both:	
Not Applicable:	





		Assessment of	Parameter/Topic: De-Prioritizing Ve	ehicular Throughput		
	Analyst:	Date:	Project:			
	Quantitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Qualitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Comments	Jurisdiction Staff Assessment of Comments Column
	• Level of Service (LOS)	• (Yes/No)			• Considering LOS may be counter-intuitive; worsening LOS would decrease throughput, but increase congestion	• (Yes/No/Not applicable/Text)
Performance Metric(s)	• Traffic volumes	• (Yes/No)	• Extent to which the project implements the member jurisdiction's Complete Streets policies	• (Yes/No)	• May not be applicable in more rural areas; would require evaluation on a case-by-case basis	• (Yes/No/Not applicable/Text)
	Theoretical roadway capacityDesign speed of new roadways	• (Yes/No) • (Yes/No)			• Measures of traffic performance other than LOS, such as delay and queuing, could be considered	• (Yes/No/Not applicable/Text)
Means of Assessment	 Before/after studies Highway Capacity Manual (HCM) Traffic volume forecasts Roadway capacity reduction 	 (Yes/No) (Yes/No) (Yes/No) (Yes/No) 	• Written Statement of Compatibility with performance metric described above	• (Yes/No)		• (Not applicable/Text)
Threshold of Acceptability	 Decrease in performance metrics Compliance with design standards for new roadways 	• (Yes/No) • (Yes/No)	• Full compatibility	• (Yes/No)	 Other thresholds could be considered Variable thresholds could be considered based on area type (when (when based on area type)) 	 (Yes/No/Not applicable/Text, (Yes/No/Not applicable/Text,
Data Availability / Expense	 Standard traffic data collection Regional travel demand model 	• (Yes/No) • (Yes/No)	Not applicable	• (Not applicable)	(urban/suburban/rural)	• (Not applicable/Text)
Ease / Standardization of Analysis	Straightforward	• (Agree/Disagree with Assessment)	Straightforward	• (Agree/Disagree with Assessment)		• (Not applicable/Text)
	Geometric improvements	• (Yes/No)	Geometric improvements	• (Yes/No)	• TDM features may discourage vehicle trips	• (Yes/No/Not applicable/Text
Availability of			• Operational improvements (including signing/pavement markings and lighting)	• (Yes/No)	• Physical/operational improvements may not always be possible, or cost effective	• (Yes/No/Not applicable/Text
Reasonable Mitigation Strategies	• Operational improvements (including signing/pavement markings and lighting)	• (Yes/No)	 Transportation Management Plan (TMP) along with Transportation Demand Management (TDM) strategies 	• (Yes/No)	• Some mitigation strategies (such as changes to signing/pavements markings and automated enforcement), may be suggested in the TIS, but can only be implemented by the jurisdiction	• (Yes/No/Not applicable/Text
Alternatives if No Reasonable Mitigation Strategies	• Impact fees	• (Yes/No)	• Impact fees	• (Yes/No)	• Can improvements for other parameters/topics be used for an offset?	• (Yes/No/Not applicable/Text)



	Assessment of Parameter/Topic: De-Prioritizing Vehicular Throughput (Continued)					
	Quantitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Qualitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Comments	Jurisdiction Staff Assessment of Comments Column
Ease of Review by Jurisdiction (Easy, Moderate, Difficult)	• Easy	• (Agree/Disagree with Assessment)	• Easy	• (Agree/Disagree with Assessment)		• (Not applicable/Text)
Likely		• (Insert any other		• (Insert any other	• If vehicles are discouraged from using one roadway, another roadway may need to accommodate those vehicles	• (Yes/No/Not applicable/Text)
Challenges		specific challenges)		specific challenges)	• It may be advisable to consider this topic/parameter in conjunction with other topics/parameters	• (Yes/No/Not applicable/Text)

Jurisdiction Staff Recommendation for Including This Parameter/Topic:

Yes:	
No:	

Jurisdiction Staff Recommendation for Measurement Type:

Qualitative Measurement:	
Quantitative Measurement:	
Both:	
Not Applicable:	





Assessment of Parameter/Topic: Multi-Modal Analyses

	Analyst:	Date:	Project:			
	Quantitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Qualitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Comments	Jurisdiction Staff Assessment of Comments Column
	 Vehicles Level of Service (LOS) Travel time reliability 	• (Yes/No) 0 (Yes/No) 0 (Yes/No)	 Vehicles Extent to which the project implements the member jurisdiction's Complete Streets policies Compliance with relevant master or comprehensive plans, including bicycle, pedestrian, and trail accommodations 	• (Yes/No) • (Yes/No) • (Yes/No)	• Current quantitative performance metrics available for roadway vehicles, transit, bicycles and pedestrians must be assessed on a mode-by-mode basis, which complicates the analysis	• (Yes/No/Not applicable/Text)
	 Transit Travel speed (Highway Capacity Manual, Sixth Edition – HCM6) Transit LOS score (HCM6) 	• (Yes/No) 0 (Yes/No) 0 (Yes/No)	 Transit Presence/absence of transit amenities (such as shelters) 	• (Yes/No) ○ (Yes/No)	• Measures of traffic performance other than LOS, such as delay and queuing, could be considered	• (Yes/No/Not applicable/Text)
Performance Metric(s)	 Pedestrian Pedestrian travel speed (HCM6) Pedestrian space (HCM6) Pedestrian LOS (HCM6) Pedestrian delay Pedestrian Level of Comfort (PLOC) 	 (Yes/No) (Yes/No) (Yes/No) (Yes/No) (Yes/No) (Yes/No) (Yes/No) (Yes/No) 	 Pedestrian ADA compliance for intersection ramps, sidewalk widths, etc. Presence/absence of street lighting, countdown pedestrian signals, erosewalka 	 (Yes/No) ○ (Yes/No) ○ (Yes/No) 	• A mix of quantitative and qualitative performance metrics, by mode, might be worth considering	• (Yes/No/Not applicable/Text)
	 Bicycle Bicycle travel speed (HCM6) Bicycle LOS (HCM6) Level of Traffic Stress (LTS) 	• (Yes/No) • (Yes/No) • (Yes/No) • (Yes/No)	pedestrian signals, crosswalks, etc.		 Some metrics may not be appropriate for all scenarios (i.e. 	
	• Micro-Mobility?	• (Yes/No)	 Micro-Mobility Presence/absence of micro- mobility accommodations (such as scooter charging stations) 	 (Yes/No) ○ (Yes/No) 	it may not be necessary to assess micro-mobility in a rural environment)	• (Yes/No/Not applicable/Text)



		Assessment o	f Parameter/Topic: Multi-Modal An	alyses (Continued)			
	Quantitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Qualitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Comments	Jurisdiction Staff Assessment of Comments Column	
Means of	• Before/after studies	• (Yes/No)	• Written Statement of Compatibility with Complete Streets policies and other area plans	• (Yes/No)	• HCM analysis can be accomplished by either Highway Capacity Software (HCS) or Synchro/SimTraffic	• (Yes/No/Not applicable/Text)	
Assessment			• Documentation of PLOC and LTS	• (Yes/No)			
	• HCM	• (Yes/No)	• Documentation of other performance metric(s) described above	• (Yes/No)	• Require VISSIM for freeways and transit-specific analysis?	• (Yes/No/Not applicable/Text)	
	• Improvement (or at least no		• Full compatibility with Complete Streets policies	• (Yes/No)	• Improving a performance metric for one mode may lead to a decrease for other modes.	• (Yes/No/Not applicable/Text)	
Threshold of Acceptability	• Improvement (or at least no worsening) in performance metrics	• (Yes/No)	• Acceptable levels of PLOC and LTS based on jurisdiction's standards/guidelines	• (Yes/No)	• Varying the threshold of acceptability for individual modes, depending upon the urban/suburban/rural setting, may be desirable	• (Yes/No/Not applicable/Text)	
Data Availability /	• Standard traffic data collection for vehicles	• (Yes/No)					
Expense	• Additional data collection for transit, pedestrian, bicycle, and micro-mobility	• (Yes/No)	• Not applicable	• (Not applicable)		• (Not applicable/Text)	
	• Straightforward, but not commonly used for modes other than vehicles	• (Agree/Disagree with Assessment)	• Straightforward		- (A (D) :- ://	• A technique would need to be established regarding prioritization of modes/which	
Ease / Standardization of Analysis	• Require use of HCS, Synchro, SimTraffic, and/or VISSIM?	• (Yes/No)		• (Agree/Disagree with Assessment)	mode "governs" in a certain situation, along with how much degradation will be tolerated in the non-governing mode(s)	• (Yes/No/Not applicable/Text)	
Availability of	Geometric improvements	• (Yes/No)	• Geometric improvements	• (Yes/No)	• Some mitigation strategies (such as changes to signing/pavements		
Reasonable Mitigation Strategies	• Operational improvements (including signing/pavement markings and lighting)	• (Yes/No)	• Operational improvements (including signing/pavement markings and lighting)	• (Yes/No)	markings and automated enforcement), may be suggested in the TIS, but can only be implemented by the jurisdiction	• (Yes/No/Not applicable/Text)	
Alternatives if No Reasonable Mitigation Strategies	• Impact fees	• (Yes/No)	• Impact fees	• (Yes/No)	• Can improvements for other parameters/topics be used for an offset?	• (Yes/No/Not applicable/Text)	



	Assessment of Parameter/Topic: Multi-Modal Analyses (Continued)					
	Quantitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Qualitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Comments	Jurisdiction Staff Assessment of Comments Column
Ease of Review by Jurisdiction (Easy, Moderate, Difficult)	• Moderate	• (Agree/Disagree with Assessment)	• Easy	• (Agree/Disagree with Assessment)	• Quantitative analyses could be challenging to review, particularly at outset of program	• (Yes/No/Not applicable/Text)
Likely	• Analysis of multiple modes	• (Insert any other	• Assessment is subjective for	• (Insert any other	• A physical or operational improvement that benefits one mode may actually work to the detriment of another mode	• (Yes/No/Not applicable/Text)
Challenges	requires additional effort	specific challenges)	• Assessment is subjective for some performance metrics	• (Insert any other specific challenges)	• Some factors such as travel time reliability may be too detailed for TISs at this time and may not be understood by the public as well as LOS or delay	• (Yes/No/Not applicable/Text)

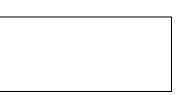
Jurisdiction Staff Recommendation for Including This Parameter/Topic:

Yes:	
No:	

Jurisdiction Staff Recommendation for Measurement Type:

Qualitative Measurement:	
Quantitative Measurement:	
Both:	
Not Applicable:	





Assessment of Parameter/Topic: Multiple Proposed Developments

	Analyst:	Date:	Project:			
	Quantitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Qualitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Comments	Jurisdiction Staff Assessment of Comments Column
D	 All other proposed developments within X distance of subject development that have reached a certain level of approval. (Differing values of X desirable for urban vs. suburban vs. rural conditions) 	• (Yes/No)	 All other proposed developments identified during Study Scoping Process 		 Needs to be firmly identified during the Study Scoping Process 	• (Yes/No/Not applicable/Text)
Performance Metric(s)	• All other proposed developments with roadway access within TIS study area of subject development	• (Yes/No)		• (Yes/No)	• If another proposed development does not require a TIS, perhaps incorporate that development via background growth rate	• (Yes/No/Not applicable/Text)
	• All other proposed developments whose TIS study areas overlap the TIS study area of the subject development	• (Yes/No)			• If Quantitative Measurement is to be used, allow for flexibility, for unusual conditions	• (Yes/No/Not applicable/Text)
Means of Assessment	Number of other developments included	• (Yes/No)	Number of other developments included	• (Yes/No)		• (Not applicable/Text)
Threshold of Acceptability	Not applicable	• (Not applicable)	Not applicable	• (Not applicable)		• (Not applicable/Text)
Data Availability / Expense	• Information readily available from jurisdiction's files	• (Yes/No)	• Information readily available from jurisdiction's files	• (Yes/No)		• (Not applicable/Text)
Ease / Standardization of Analysis	 Standardization of identifying other developments is straightforward. 	• (Agree/Disagree with Assessment)	• Will be based on jurisdiction's judgment. Strictly speaking, standardization of identifying other developments is not possible.	• (Agree/Disagree with Assessment)		• (Not applicable/Text)
	• Analysis of other developments in TIS is straightforward	• (Agree/Disagree with Assessment)	• Analysis of other developments in TIS is straightforward	• (Agree/Disagree with Assessment)		• (Not applicable/Text)
Availability of Reasonable Mitigation Strategies	Not applicable	• (Not applicable)	Not applicable	• (Not applicable)		• (Not applicable/Text)
Alternatives if No Reasonable Mitigation Strategies	• Not applicable	• (Not applicable)	• Not applicable	• (Not applicable)		• (Not applicable/Text)
Ease of Review by Jurisdiction (Easy, Moderate, Difficult)	• Moderate	• (Agree/Disagree with Assessment)	• Moderate	• (Agree/Disagree with Assessment)		• (Not applicable/Text)



Assessment of Parameter/Topic: Multiple Proposed Developments (Continued)

	Quantitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Qualitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Comments	Jurisdiction Staff Assessment of Comments Column
Likely Challenges	• Unusual roadway network/access conditions may lead to unreasonable requirements	• (Insert any other specific challenges)	• May result in appearance of inequitable treatment of different developments	• (Insert any other specific challenges)	• Adjacent developments not within the same jurisdiction may be challenging	• (Yes/No/Not applicable/Text)

From a technical analysis perspective, can this parameter generally be accommodated within existing TIS frameworks? Yes: \mathbf{X} No:

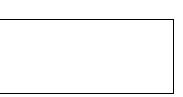
Jurisdiction Staff Recommendation for Including This Parameter/Topic:

Yes:	
No:	

Jurisdiction Staff Recommendation for Measurement Type:

Qualitative Measurement:	
Quantitative Measurement:	
Both:	
Not Applicable:	





Assessment of Parameter/Topic: Balancing Housing/Business/Traffic

	Analyst:	Date:	Project:	0		
	Quantitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Qualitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Comments	Jurisdiction Staff Assessment of Comments Column
	• Reduced vehicular trip generation	• (Yes/No)			• Actual changes in trip generation could only be assessed in a Post-Development Audit	• (Yes/No/Not applicable/Text)
Performance Metric(s)	• Increased transit, micro-mobility, bicycle and/ or pedestrian trip generation	• (Yes/No)	 Provision/participation in program(s) to discourage vehicular trip generation 	• (Yes/No)	 Consider allowing more vehicular congestion to 	• (Yes/No/Not applicable/Text)
	• Provision of infrastructure to discourage vehicular trip generation	• (Yes/No)			encourage use of other modes	• (<i>Tes/No/Not applicable/Text</i>)
Means of Assessment	 Post-Development Audit Design plans for infrastructure	• (Yes/No) • (Yes/No)	• Financial commitment for program(s) to discourage vehicular trip generation	• (Yes/No)		• (Not applicable/Text)
	• Reduced vehicular trip generation	• (Yes/No)	• Financial commitment	• (Yes/No)	• Actual changes in trip generation could only be assessed in a Post-Development Audit	• (Yes/No/Not applicable/Text)
Threshold of Acceptability	Additional infrastructure	• (Yes/No)			How much infrastructure/financial commitment would be "acceptable"?	• (Yes/No/Not applicable/Text)
Data Availability /	• Readily available for compliance with infrastructure design standards	• (Agree/Disagree with Assessment)	• Not applicable	• (Not applicable)		• (Not applicable/Text)
Expense	• Dependent upon criteria for Post- Development Audit, for changes in trip generation	• (Agree/Disagree with Assessment)		• (<i>Not applicable</i>)		• (<i>Not applicable/Text</i>)
	• Straightforward, for compliance with infrastructure design standards	• (Agree/Disagree with Assessment)			 Infrastructure/financial requirements would need to be developed. 	• (Yes/No/Not applicable/Text)
Ease / Standardization of Analysis	• Dependent upon procedures for Post-Development Audit, for changes in trip generation	• (Agree/Disagree with Assessment)	• Straightforward	• (Agree/Disagree with Assessment)	 Requirements would need to vary by location. (For example, provision of a sidewalk in a rural location, without connections to other sidewalks, may not be practical or even desirable. However, reservation of right-of- way for a future system of sidewalks could be appropriate.) 	• (Yes/No/Not applicable/Text)



	Assessment of Parameter/Topic: Balancing Housing/Business/Traffic (Continued)					
	Quantitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Qualitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Comments	Jurisdiction Staff Assessment of Comments Column
Availability of Reasonable Mitigation Strategies	 None, for compliance with infrastructure design standards Dependent upon procedures for Post-Development Audit, for changes in trip generation 	 (Agree/Disagree with Assessment) (Agree/Disagree with Assessment) 	• None	• (Yes/No)	• Incentives for mixed-use development could be considered, such as accepting reduced trip generation and internal trips	• (Yes/No/Not applicable/Text)
Alternatives if No Reasonable Mitigation Strategies	 Not applicable, for compliance with infrastructure design standards Dependent upon procedures for Post-Development Audit, for 	 (Agree/Disagree with Assessment) (Agree/Disagree with Assessment) 	• Impact fees	• (Yes/No)		• (Not applicable/Text)
Ease of Review by Jurisdiction (Easy, Moderate, Difficult)	 changes in trip generation Easy, for compliance with infrastructure design standards For changes in trip generation, dependent upon procedures for Post-Development Audit 	 (Agree/Disagree with Assessment) (Agree/Disagree with Assessment) 	• Moderate	• (Agree/Disagree with Assessment)	• Likely to require qualitative judgment of "acceptable" in some cases	• (Yes/No/Not applicable/Text)
Likely Challenges	 Dependent upon procedures for Post-Development Audit 	• (Insert any other specific challenges)	 Development of standards Consistency in application of standards 	 (Insert any other specific challenges) (Insert any other specific challenges) 		• (Not applicable/Text)

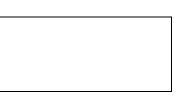
Jurisdiction Staff Recommendation for Including This Parameter/Topic:

Yes:	
No:	

Jurisdiction Staff Recommendation for Measurement Type:

Qualitative Measurement:	
Quantitative Measurement:	
Both:	
Not Applicable:	





Assessment of Parameter/Topic: Post-Development Audit

	Analyst:	Date:	Project:			
	Quantitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Qualitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Comments	Jurisdiction Staff Assessment of Comments Column
	• Net site trip generation by mode (proffered in selected horizon year)	• (Yes/No)	• Compliance with proffered TDM/mitigation measure(s)	• (Yes/No)		
Performance Metric(s)	 Trip distribution pattern Levels of service Traffic growth – study area roadway network 	 (Yes/No) (Yes/No) (Yes/No) 	Compliance with Conditions of Approval	• (Yes/No)	Measures of traffic performance other than LOS, such as delay and queuing, could be considered (<i>Yes/No/N</i>	• (Yes/No/Not applicable/Text)
	 Proffered/required off-site improvements Various site trip generation and 	• (Yes/No)				
	mode split surveys/driveway counts	• (Yes/No)	Comparison of predicted versus actual operational situations	• (Yes/No)	• A mix of both quantitative and	
Means of Assessment	Means of Assessment • Intersection turning movement counts and capacity analysis • (Yes/No) • qualitation of effectiveness of • (Yes/No)	qualitative assessment may be	• (Yes/No/Not applicable/Text)			
	reflecting growth trends, such as SHA AADT database	• (Yes/No)	TDM/mitigation measures			
Threshold of Acceptability	 Established vehicle trip generation limits ("trip caps") Projected Levels of Service 	• (Yes/No) • (Yes/No)	 Compliance with proposed TDM measures Compliance with other 	• (Yes/No)	• A mix of both quantitative and qualitative assessment may be	• (Yes/No/Not applicable/Text)
	 Projected trip distribution pattern Previously approved TIS	• (Yes/No) • (Yes/No)	Conditions of ApprovalPreviously approved TIS and	• (Yes/No)	usefulEase of obtaining the data will be	
Data Availability / Expense	 document Archived traffic data (from MDOT SHA or jurisdiction) New traffic count data 	 (Yes/No) (Yes/No) 	other supporting documents	• (Yes/No)	an important consideration (i.e., can the data be easily accessed online or through a time- consuming process?)	• (Yes/No/Not applicable/Text)
Ease / Standardization of Analysis	 Analysis procedure based on traffic engineering and transportation planning principles considered straightforward 	• (Agree/Disagree with Assessment)	• Procedure for evaluating compliance is somewhat straightforward	• (Agree/Disagree with Assessment)		• (Not applicable/Text)
Availability of Reasonable Mitigation Strategies	• Not applicable	• (Not applicable)	• Not applicable	• (Not applicable)	• Post development audit can be considered as an "after the fact" type of evaluation. Therefore, this factor may not be applicable	• (Yes/No/Not applicable/Text)
Alternatives if No Reasonable Mitigation Strategies	• Not applicable	• (Not applicable)	• Not applicable	• (Not applicable)	• Post development audit can be considered as an "after the fact" type of evaluation. Therefore, this factor may not be applicable	• (Yes/No/Not applicable/Text)



Assessment of Parameter/Topic: Post-Development Audit (Continued)							
	Quantitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Qualitative Measurement	Jurisdiction Staff Assessment: Should this line item be incorporated into TISs?	Comments	Jurisdiction Staff Assessment of Comments Column	
Ease of Review by Jurisdiction (Easy, Moderate, Difficult)	• Moderate	• (Agree/Disagree with Assessment)	• Easy	• (Agree/Disagree with Assessment)	• Review process involves a comparison of predicted vs. actual situations. (i.e., case of comparing apples with apples)	• (Yes/No/Not applicable/Text)	
	• Some of the metrics are difficult to quantify, considering that traffic volumes typically fluctuate daily	• (Insert any other specific challenges)	• Conditions stipulated in an accompanying resolution will have to be highly specific	• (Insert any other specific challenges)	• Would this be completed by the jurisdiction or the developer? (It would probably be the jurisdiction.)	• (Yes/No/Not applicable/Text)	
Likely Challenges	• Establishing a "degree of allowance/acceptability" with respect to analysis thresholds	• (Insert any other specific challenges)	• Potential need for revision of Adequacy of Public Facilities Ordinance	• Detential need for revision of		• Who would pay for the audit? (A developer "escrow" account could be used.)	• (Yes/No/Not applicable/Text)
	• Potential for deterring private sector development/investment			• (Insert any other specific challenges)	• Will this be a requirement for all types of development, regardless of the location and size?	• (Yes/No/Not applicable/Text)	
				• Would this requirement be on a case-by-case basis?	• (Yes/No/Not applicable/Text)		

Jurisdiction Staff Recommendation for Including This Parameter/Topic:

Yes:	
No:	

Jurisdiction Staff Recommendation for Measurement Type:

Qualitative Measurement:	
Quantitative Measurement:	
Both:	
Not Applicable:	





Assessment of Parameter/Topic: Variable Transportation Impact Study Requirements

Analyst:

Project:

1. Is there a compelling reason to have variable TIS requirements?

Date:

A single type of TIS may fail to account for some desirable performance metrics in some, but not all situations. For example, consideration of parking management may be desirable in a dense urban setting, but may not be particularly relevant in a rural setting.

Jurisdiction Staff Discussion:

2. Does the master plan or other planning document(s) offer a straightforward method of establishing the different types of TIS to be identified?

If not, the type of TIS could perhaps be identified as part of the Study Scoping Process.

Jurisdiction Staff Discussion:

3. How many different types of TIS would be appropriate?

The larger the number of different types, the larger the number of types of review.

Jurisdiction Staff Discussion:

4. How would Performance Metrics, Means of Assessment and Thresholds of Acceptability vary by type of TIS?

For example, an LOS of "E" or even "F" might be acceptable in a dense urban setting, but not in a rural setting.

Jurisdiction Staff Discussion:



Assessment of Parameter/Topic: Variable TIS Requirements (Continued)

5. How would Data Availability/Expense, Ease/Standardization of Analysis, Availability of Reasonable Mitigation Strategies and Alternatives if No Reasonable Mitigation Strategies vary by type of TIS?

Inclusion of an additional Performance Metric would require consideration of each of these items as well.

Jurisdiction Staff Discussion:

6. How will Ease of Review by Jurisdiction be affected by variable types of TIS?

Strictly speaking, additional types of TIS will make the efforts of reviewers more complicated. However, the added complexity would not necessarily be extensive.

Jurisdiction Staff Discussion:

7. What are the Likely Challenges to implementing variable TIS requirements?

In addition to the items noted above, there could be resistance from TIS preparers regarding any additional complexity involved. Also, including variable TIS requirements could potentially require jurisdictions to change their Adequate Public Facilities Ordinances.

Jurisdiction Staff Discussion:

8. From a technical analysis perspective, can this parameter generally be accommodated within existing TIS frameworks?

Yes: No: X

Jurisdiction Staff Recommendation for Including Parameter/Topic:

Yes:	
No:	