SIGNAL REMOVAL ANALYSIS WORKSHEET

Stage 1 – Intersection Inventory

City:	
Lanes/Approach	ADT:
Lanes/Approach	ADT:
(mph)	
	City: Lanes/Approach (mph)

Stage 2 – Preliminary Screening

1.	Minimum Required Sight Distance (from Table 16-4)	NO	YES
	Is Intersection Sight Distance Less Than Minimum?		
2.	Do Special Site Conditions Make Signal Removal Institutionally Infeasible?		
	Comments:		
3.	Does Existing (or future) Traffic Satisfy Signal Installation Warrants?		
4	Did Any Special Research Justify Signal Installation?		
4.			
	Are These Reasons Still Valid?		
	Comments:		

IF ANY OF THE ABOVE QUESTIONS ARE ANSWERED "YES" – DEFER SIGNAL REMOVAL
OTHERWISE, PROCEED WITH DETAILED ANALYSIS

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Stage 3 – Detailed Analysis: Two-Way Stop Control 3.1 Estimated Impacts on Crashes

5.11	Louine	aced impacts on C	rushes		
		Total Major Street Volume	Higher Volume Side Street Approach		Crash Experience
Mir Re (Tab	nimum quired le 16-1)			Check if Minimum Satisfied	
	1st				Total Crashes
amu	2nd				Period Covered: From To
- Vol	3rd				MM-YYYY MM-YYYY
lour	4th				Length of Time Period years
est H	5th				Average Annual
High	6th				Crash Frequency (X ₂)
Nth I	7th				
	8th				From Equation 16-1 $Y = 1.01 + 0.139X_1 - 0.605X_2$
	Volume	Magnitude (No. of Hou	rs Meeting Requirement) X	=	Predicted Change in Annual Crash Frequency (Y) =

3.2 Traffic Flow Related Impacts

Change Per Vehicle (From Impacts Worksheet)	Daily Change (From Impacts Worksheet)	x 320	=	Annual Change
		Idling Delay	\longrightarrow	
		Total Delay	\longrightarrow	
		Total Stops	\longrightarrow	
		Excess Fuel	\longrightarrow	

3.3 Junction – Related Cost Impacts

Annual Signal Operation Costs	Costs Of Signal Removal x CRF* = Annual Costs	
Electrical	Remove Hardware	x 0.142
Maintenance	Install Stop Signs	x 0.142
Timing	Annual Stop Sign Maintenance	
Total		Total

* (CRF – Capital Recovery Factor For 15 Years At 12% Interest)

Annual Operation Costs – Annual Removal Costs = Annual Cost Savings From Signal Removal:

3.4 Anticipated Strength of Opposition/Support For Signal Removal

Comments:

3.5 Final Decision:

Retain Signal

Recommend Removal

Comments: