Capacity Software Guide

Project Type	Facility Type	Need	Results	Software
Intersection Improvement	Signalized Intersection	to determine how well a signal operates	LOS (delay)	HCS (Signals)
		to determine signal phasing	Optimization	
		to determine number of turn lanes and lengths	Queue length	
		to view how the intersection operates	Simulation	Synchro
		to determine signal phasing	Optimization	
		to compare against a roundabout	Comparision	SIDRA
	Stop controlled Intersection (TWSC or AWSC)	to determine how well a stop control operates	LOS (delay)	HCS (TWSC/AWSC)
		to determine number of turn lanes and lengths	Queue	
		to view how the intersection operates	Simulations	Synchro
		to compare against a roundabout	Comparision	SIDRA
	Roundabout (RAB) *Concept/Preliminary*	to determine how well a roundabout operates		SIDRA
		to determine the number of circulatory lanes		
		to determine the configuration of approach lanes		
	Final	to determine how well a roundabout operates		ARCADY
		to determine the number of circulatory lanes		
		to determine the configuration of approach lanes		
		to finalize the geometric layout		
		to view how the intersection operates		VISSIM
		to compare against a signal or stop control		SIDRA
Widening	Rural Freeway Two Lane	to determine the level of service		HCS (TwoLane)
		to determine the if two lanes are enough		
	Multilane	to determine the level of service		HCS (Multilane)
		to determine the how many lanes are needed		
	Interstate Section	to determine the level of service	LOS	HCS (Freeways)
		to determine the number of lanes needed	LOS (Density)	
	Weaving	LOS		HCS (Weaving)
	Urban Arterial Signalized Corridor	to coordinate signal time		Synchro
		to determine number of lanes		
Interchange	Ramp Terminals Signalized (in unison)	to analyze a pair of closely spaced intersections		Synchro
	Stop Controlled (in unison)	to determine ramp storage length		
		to coordinate signal timing		
	Diverge/Merge at on/off ramps			HCS (Ramps)
	Entire Interchange Operation Diamond, Cloverleaf	to view how a interchange operates		CORSIM
	SPUI	to view how a interchange operates		SIDRA
	Diverging Diamond	to view how a interchange operates		VISSIM
	Roundabout	to view how a interchange operates		VISSIM
Network	Signalized and stop controlled	to view how an entire network operates		Synchro
	Interchange, RAB, One way Streets, Transit, Peds	to view how an entire network operates		VISSIM