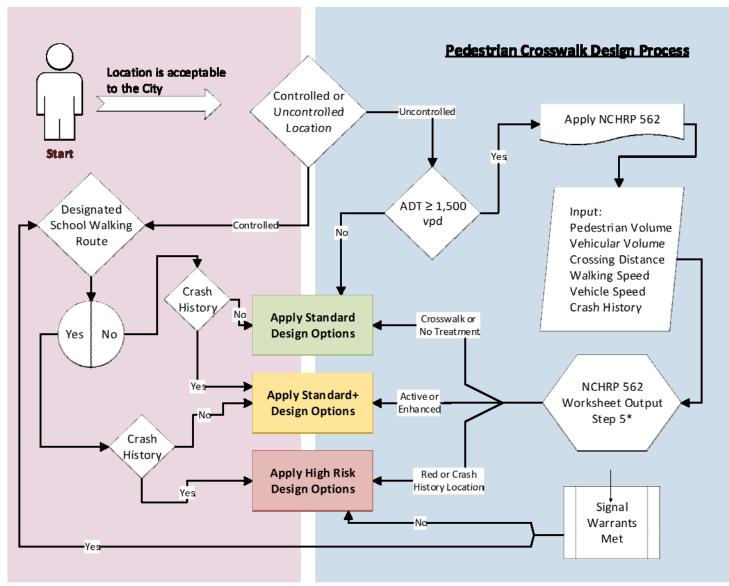
Crosswalk Design Guidelines: Overview



Street Lighting:

Street lighting is considered through the Street Light Asset Management Team. New crossings installed on collector streets and higher classification will have positive contrast lighting as part of the design and in collaboration with the lighting team.

Data Needs:

Pedestrian Volume, hourly Vehicular Volume, hourly, Crossing Distance Walking Speed Vehicular Speed Crash History

Special Considerations:

Sensitive population?
Adjacent School?
Published school walk route?

Notes:

If adjacent to a school or on published school walking route map, design to results plus one level.

Evaluation of street lighting conditions is a concurrent process. Street light installation is managed through the street light Asset Management Team.

Crosswalk Design Guidelines: Uncontrolled

Street	Uncontrolled Design Options						
Туре	Standard Standard+		High Risk Location				
Local	Unmarked	Pavement Markings	High Visibility Markings Pedestrian Warning Series (W11-2) or School Warning Series (S1-1)				
Collector	High Visibility Markings	Pedestrian Warning Series (W11-2) or School Warning Series (S1-1)	In-Lane Signs (R1-6a) Pedestrian Islands R1-6a Signs on Island Bump Outs Stop Here for Ped. (R1-5b) Signs w/ Stop Bar on Multilane Approach				
Minor & Major Arterials ≤ 3 Lanes	High Visibility Markings	Pedestrian Warning Series (W11-2) or School Warning Series (S1-1) Bright Sides In-Lane Signs (R1-6a) Pedestrian Islands R1-6a Signs on Island Bump Outs Stop Here for Ped. (R1-5b) Signs w/ Stop Bar on Multilane Approach	Rectangular Rapid Flashing Beacon (RRFB) - Side Mounted Pedestrian Hybrid Beacon (PHB) Pedestrian Signal				
	High Visibility Markings	In-Lane Signs (R1-6a)	Rectangular Rapid Flashing Beacon (RRFB) - Additional Mounting Over- head or on Island				
Minor & Major	Pedestrian Warning Series (W11-2) or	Pedestrian Islands	Pedestrian Hybrid Beacon (PHB)				
Arterials	School Warning Series (S1-1)	R1-6a Signs on Island	Pedestrian Signal				
≥ 3 Lanes	Bright Sides Mid-block: Stop Here for Ped. (R1-5b)		Overhead Mounted "Local Law, Stop for Ped" (R1-9a)				
	Signs w/ Stop Bar	Stop Bar on Multilane Approach					

Notes:

Design options are a suite of devices that are appropriate for a particular design level.

The final design for a given location will be tailored to meet the needs of that particular location.

Final design is subject to the opinion of the City Engineer.

Street Lighting:

Project Managers and Designers must work with the Street Light Asset Management Team to determine the best lighting practice for each location.

Crosswalk Design Guidelines: Controlled

Control	Street	Design Options				
Туре	Туре	Standard	Standard+	High Risk Location		
Stop Con- trolled	Local	Unmarked	Pavement Markings	High Visibility Markings	Notes:	
				Pedestrian Warning Series (W11-2)		
				or School Warning Series (S1-1)	Design options	
	Collector, Minor Ater- tial, & Ma- jor Arterial	High Visibility Markings		Bright Sides	are a suite of de- vices that are	
			School Warning Series (S1-1)	In-Lane Signs (R1-6a)	appropriate for a	
				Pedestrian Islands	particular design	
				R1-6a Signs on Island	level.	
				Bump Outs	The final design	
Signal- ized	All Types	High Visibility Markings	Enhanced High Visibility Marking, e.g.	Advanced Pedestrian Phase	The final design	
		Stop Bars	10' wide crosswalk	Pedestrian Only Phase	for a given loca-	
		Count Down Pedestrian Heads		Pedestrian Scramble Phase	tion will be tai-	
Rounda- bout	lector: Sin-	Standard Markings	High Visibility Markings	Stop (Yield) Bars	lored to meet	
		R1-6a Signs on Island		Stop Here for Ped. (R1-5b) Signs	the needs of that	
	gle Lane			Audible warning strips	particular loca-	
	Minor Arte- rial & Major	High Visibility Markings		Pedestrian Warning Series (W11-2) or	tion.	
		R1-6a Signs on Island	Stop Here for Ped. (R1-5b) Signs	School Warning Series (S1-1)	Final design is	
		Audible warning strips			subject to the	
					opinion of the	
	Minor Arte- rial & Major Arterial: Multi Lane	High Visibility Markings	Rectangular Rapid Flashing Beacon	Pedestrian Hybrid Beacon (PHB)	City Engineer.	
		R1-6a Signs on Island	(RRFB) - Side Mounted			
		Audible warning strips				
		Stop (Yield) Bars				
		Stop Here for Ped. (R1-5b) Signs				

Street Lighting:

Project Managers and Designers must work with the Street Light Asset Management Team to determine the best lighting practice for each location.