

TA Design Treatment Typical Costs		Installed Cost (Bid to contractor for installation)		
Type of Treatment	Typical Size	Unit Cost (Labor + Material)	Unit	Product Cost (Labor + Material)
Designing for Pedestrians - Signs and Stripes/ Pavement Markings				
Pavement Markings - Words and Symbols("School XING", "ONLY" or 2 arrows)				
Matrial = Paint	20 SF	\$3.98	SF	\$80
Material = Long Life Thermoplastic	20 SF	\$11.10	SF	\$222
Crosswalks				
Standard style - Paint (Two Lines Cross Walk, 40' long)				
Material = Paint	80 LF	\$1.08	LF	\$86
Material = Thermoplastic	80 LF	\$2.31	LF	\$46
Continental style (10' wide, 40' long, 1' lines every 2')				
Material = Latex Paint	225 LF	\$3.01	LF	\$678
Material = Long Life Thermoplastic	225 LF	\$7.35	LF	\$1,654
Imprinted Crosswalks(assume 10' wide, 40' long)	400 SF(44 SY)	\$248	SY	\$10,912
Signs				
Regulatory and Warning Signs (ex. "Stop for Pedestrian", "End School Zone")	3 SF - 9 SF (18" X 24" to 36" X 36")	\$60.59	SF	\$182-\$546
Driver Speed Feedback Sign - Portable (also called a Radar Speed Sign)	each (2' X 3')	\$9,556.25	U	\$9,556
Driver Speed Feedback Signs with Recording - Fixed on pole (also called a Radar Speed Sign)	each (2' X 3')	\$7,562.50	u	\$7,563
Variable Message Sign - portable (Multiple Lines of Text)	each (4' X 8')	\$7,805.00	U	\$7,805
Designing for Pedestrians - Intersection				
Traffic Signals				
Adding Pedestrian Signal Heads and push Buttons to an existing Traffic Signal	One Installation = 8 signal heads and 8 push buttons	\$48,520	U	\$48,520
New Traffic Signal with Countdown Pedestrian Signal Heads	Intersection of two roads, each with one lane in each direction	\$706,438	U	\$706,438
Pedestrian Activated Facilities				
Flashing Beacon/Enhanced Warning Sign	2 signs, one posted in each direction	\$10,334	U	\$20,668
Rectangular Rapid Flashing Beacon (RRFB)	One installation = 4 signs, 2 on each Side of Street	\$33,750	U	\$33,750
Pedestrian Crossing In-Roadway Illumination System	Equipment includes fixtures, 4 lamps/ lane for a 3 lane crosswalk, controller, pole, and push button activator.	\$35,000-\$58,300	U	\$35,000-\$58,300
Pedestrian Hybrid Beacon(HAWK Signal)	One Installation = Mid-block, 4 lane roadway	\$209,600	U	\$209,600
Shorter Crossing Treatments & Refuge Areas				
Curb Extensions (simple - no drainage modification required)	6' wide, 20' long	\$9,334	U	\$9,334
Curb Extensions (complex - assume drainage modifications required)	6' wide, 20' long	\$18,668	U	\$18,668
Pedestrian refuge island	6' wide, 10' long	\$3,076	U	\$3,076
Designing for Pedestrians - Paths and Sidewalks				
Paths - Shared Use Path (10' wide)				
Material = Asphalt	100 LY (10' wide)	\$100	LF	\$100
Material = Crushed Stone (will have higher maintenance costs)	100 LY (10' wide)	\$65	LF	\$65
Sidewalks & Accessibility				
Sidewalks – Concrete (4" Thick)	100 LF, 5' Wide	\$191	SY	\$10,602
Detectable Warning Surface (assumes curb ramp already in place)	1 SY each	\$370	SY	\$20,576
Curb Ramps	new curb and concrete - 5' deep - 15' wide	\$2,211	U	\$2,211
Bollards on sidewalk (typical grouping of at least 4 bollards)	4' high, steel or concrete	\$1,760	U	\$1,760
Designing for Bicyclists - Roadway treatments and Amenities				
Roadway Treatments				
"Bicycle-safe" stormwaterdrainage grates	each(2' X 4')	\$700	U	\$700
Video Detectors(Installed in pairs)	each	\$21,174	U	\$21,174

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Parking				
Bicycle Racks(parking for five bicycles)	each	\$1,250	U	\$1,250
Lockers(each holds 2 bikes)	each	\$2,200-\$4,400	U	\$2,200-\$4,400
Shelter/Covered (Excluding Racks) (each holds 8 - 12 bikes)	each	\$1,870-\$5,500	U	\$1,870-\$5,500
Designing for Bicyclists - Signs and Stripes/ Pavement Markings				
Signs				
Share the Road Sign (Assembly)	1 sign (12 SF)	\$60.59	SF	\$727
Bike Route (signing per mile)	1 mile, 20 signs/mile (3 SF/Sign)	\$60.59	SF	\$3,635
Pavement Markings				
Shared lane markings "Sharrows"	each (20 SF)	\$11.10	SF	\$111
Bike Symbol (Words or Arrows, assume thermoplastic)	10 SF	\$11.10	SF	\$111
Bike lane striping (adding 4" white thermoplastic striping)	1 mile	\$1.90	LF	\$10,032
Colored Bike Lane (Green thermoplastic 4' wide and 50 ' long)	200 SF	\$13.75	SF	\$2,750
Traffic Calming - Passive Measures				
Passive Speed Control Measures				
Streetscaping				
Street trees	each	\$1,015	U	\$1,015
Pedestrian Scale Lighting (12' tall, installed every 50 ')	each	\$22,000	U	\$22,000
Rumble Strips (Milled into Pavement)	40'	\$6.50	LF	\$260
Rumble Strips(Thermo on top of Pavement)	40'	\$25.51	LF	\$1,021
Textured/ colorized pavement				
Concrete Sidewalk, 4" Thick	100 LF, 5' Wide	\$191	SY	\$10,602
Tinted Concrete Sidewalk, 4" Thick	100 LF, 5' Wide	\$283	SY	\$15,718
Brick Sidewalk, 5' wide	100 LF, 5' Wide	\$311	SY	\$17,286
Traffic Calming - Active Measures				
Active Speed Control Measures				
Horizontal Deflection				
Chicane	each	\$33,000	U	\$33,000
Mini roundabout (traversable islands that is small enough to stay within the existing ROW)	each	\$75,000-\$250,000	U	\$75,000-\$250,000
Neighborhood Traffic Circle (do not include raised channelization)	each	\$82,500	U	\$82,500
Construction				
Curb Extensions (high end - assume drainage modification required)	Intersection (4/intersection)	\$18,668	U	\$74,673
Neckdowns (assume no drainage modifications required)	each	\$4,400-\$8,800	U	\$4,400-\$8,800
Pedestrian refuge island	each, 6' wide, 10' long	\$0	U	\$0
Vertical Deflection				
Speed Humps (Speed Tables)	each	\$8,250-\$10450	\$0.00	\$8,250-\$10450
Raised crosswalk	each	\$9,500	U	\$9,500
Raised intersection (includes paving, drainage, signs and striping)	each	\$80,000 - \$120,000	\$0.00	\$80,000 - \$120,000
Volume Control Measures				
Physical Diverters				
Full street closure	1 day (8 hours)	\$311	hour	\$2,490
Partial street closure	1 day (8 hours)	\$156	hour	\$1,245
Diagonal diverter	each	\$110,000	U	\$165,000
Median barrier	LF	\$398	LF	\$398
Forced turn island	each	\$16,500 - \$27,500	U	\$16,500 - \$27,500