

CONNECTICUT TACTICAL MATERIALS GUIDE

DECEMBER 2025



TABLE OF CONTENTS

About this Guide.....	5
Tactical Urbanism Methodology.....	7
Quick-Build Project Types.....	9
Material Specifications	
Barrier Elements.....	11
Surface Treatments.....	23
Modular Components.....	29
Signage.....	35
Reference Tables.....	43



ABOUT THIS GUIDE

This document provides guidance on a range of materials suitable for implementing eleven types of Tactical Urbanism projects using a range of proven materials. The goal is to help planners, political officials, and advocates engage their communities, test temporary or interim street design treatments, and make public space enhancements. Tactical projects can also serve as a springboard for long-term improvements funded with public and private resources.

More specifically, the guidance included herein identifies 84 potential material choices for 12 common project types. Within each of the five categories (barriers, surface materials, modular components, signs, street furniture) the materials are organized from the most temporary and easiest to install to the most durable and complex. Each material table provides specifications, manufacturer information, unit costs, and procedures for installation and removal, along with other key considerations. Each material also includes a note indicating whether it is recommended for the three types of Tactical Urbanism projects: Demonstration, Pilot, or Interim Design. A corresponding scale for installation complexity is also included for quick reference. Project teams should carefully consider the complexity and cost of installation and removal, including the need to restore pavement markings, signage, and other elements to their original conditions if required by local, regional, or state authorities. This guidance is not intended for construction use and is not exhaustive; its purpose is to answer the many questions people have as they seek to advance Tactical or Quick-Build projects to the implementation and evaluation phase.

Note, all materials proposed in this guide must be reviewed and approved by CTDOT prior to implementation if they are to be applied to thoroughfares under the State of Connecticut's jurisdiction. For more information about installing such projects on state roads, please refer to CTDOT's Quick-Build Directive [here](#). For additional project planning and implementation guidance, please refer to CRCOG's 2020 [Capital Region Guide to Quick-Builds for Complete Streets](#).

Finally, unless otherwise noted, all images in this guide are the property of Street Plans.

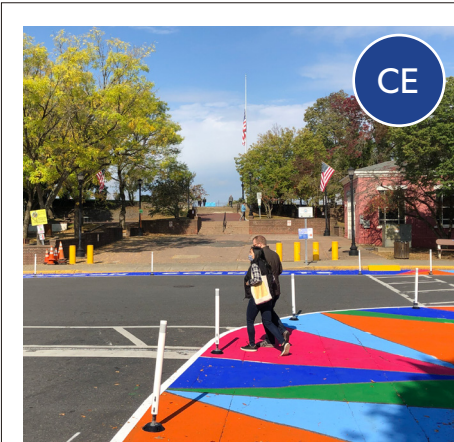
TACTICAL URBANISM METHODOLOGY

	Tactical Urbanism			Capital Project
	Quick-Build			
	 <p>DEMONSTRATION* (1 DAY - 1 MONTH · \$)</p>	 <p>PILOT PROJECT* (6 MONTHS - 1 YEAR · \$\$)</p>	 <p>INTERIM DESIGN (1 - 5 YEARS · \$\$\$)</p>	 <p>LONG-TERM/CAPITAL (5+ YEARS · \$\$\$\$)</p>
Project Type (duration · relative cost)				
Project Leaders	Anyone (Government, non-profit organizations, business groups, students etc.)	Local / regional government with local / regional organizational support	Local / regional government with local / regional organizational support	Federal, state, local government, local with regional /state organizational support
Materials + Maintenance	Very low-cost, typically low-durability (May be borrowed, easily made, or purchased; no maintenance required)	Relatively low-cost, but semi-durable (selected to maximize intended project duration and design flexibility while minimizing maintenance needs)	Low and moderate cost materials (selected to balance design flexibility, performance outcomes, and maintenance)	High-cost, permanent materials that cannot be adjusted easily; maintenance needs vary tremendously
Public Involvement	Optional before project implementation (Recommended during brief project lifespan)	Required, frequent before implementation and frequent during evaluation period	Recommended, frequent before implementation (required during initial evaluation period, optional thereafter)	Required before implementation, recommended during implementation and initial evaluation period, optional thereafter
Design Flexibility	High	High	Moderate	Low
Data Collection + Evaluation	Optional	Quantitative: Required Qualitative: Required	Quantitative: Required Qualitative: Optional	Quantitative: Recommended Qualitative: Optional

*CTDOT allows Quick-Build projects of up to six months in duration along state roads.

TACTICAL PROJECT TYPES

A range of project types can be delivered using the Tactical Urbanism / Quick-Build methodology.



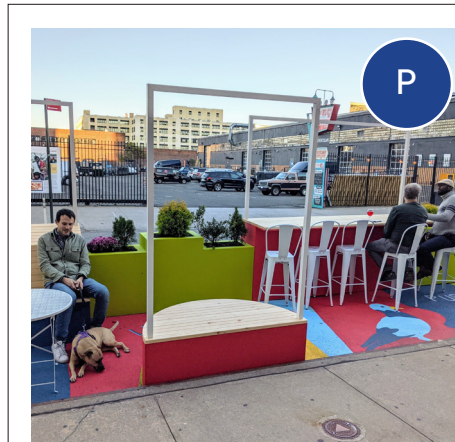
CURB EXTENSIONS

Install temporary curb extensions at intersections to shorten crossing distances for pedestrians, slow turning vehicles, and improve visibility.



GREEN INFRASTRUCTURE

Pilot low-cost stormwater management solutions such as rain barrels, bioswales, rain gardens, or permeable pavement



PARKLETS

Install parklets as an extension of the sidewalk into the street, exchanging curbside parking space for additional public space. They most often feature public seating as well as landscaping, and other amenities like art, bicycle parking etc)



PLAZAS

Transform underutilized or redundant right-of-way or parking lot space into plazas reserved exclusively for passive and active use through seating, event programming, greenery, art, and more!



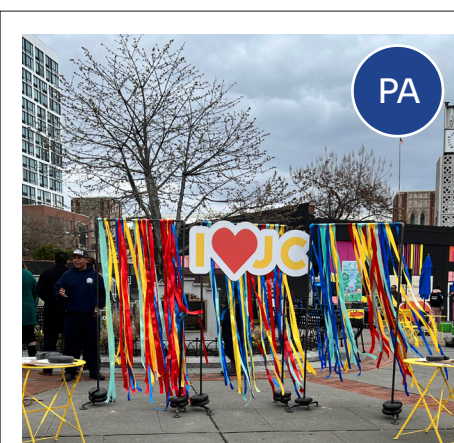
ROAD DIET

Narrow the width, or reduce the number, of travel lanes to create space for bike lanes, wider sidewalks, refuge islands, or landscape buffers.



STREET FURNITURE

Add benches, movable seating, shade canopies, bike racks, trash cans and more to enhance the comfort and usability of sidewalks and public spaces.



PUBLIC ART

Collaborate with local artists to create temporary art installations that reflect local identity, increase interaction, and enhance the aesthetic appeal of public spaces.



PROTECTED BIKE LANES

Convert existing vehicular travel or parking lanes into protected bike lanes using delineators, planters, or parked cars to physically protect cyclists from vehicular traffic.



PEDESTRIAN CROSSINGS

Implement high-visibility crosswalks and refuge islands to enhance safety at key intersections or mid-block crossings.



TRAFFIC CALMING MEASURES

Use temporary speed humps, chicanes, or roundabouts to reduce vehicle speeds and enhance street safety for all users.



TRANSIT UPGRADES

Improve transit operations through dedicated bus lanes, bus boarding islands, bus stop seating, signs etc.



WAYFINDING OR INFORMATIONAL SIGNS

Install temporary project information and/or wayfinding signs to improve navigation for people walking, wheeling, or driving.



BARRIER ELEMENTS



BARRIER ELEMENTS | LOW-PROFILE DELINEATORS



PLASTIC PARKING STOP

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: Uline
Cost: \$75/unit
Material: Recycled Plastic
Dimensions: 72"L x 6"W x 3"H
Weight: 22 lbs

- Installation & Removal**
- Bolt to concrete or asphalt with kit supplied
 - Use epoxy for Demonstration duration

- Additional Considerations**
- Weather resistant
 - Impervious to sunlight and road salt
 - Upgrade to concrete parking stops for increased durability



ZEBRA DELINEATOR

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: ZICLA
Cost: \$59/unit *based on the Zebra 13
Material: Recycled Plastic
Dimensions: 2'8"L x 8"W x 5"H
Weight: 19 lbs

- Installation & Removal**
- 4-point anchor bolt installation

- Additional Considerations**
- Anti-slip texture
 - Various colors of retroreflective stripes available
 - Variety of sizes available



ZIPPER SYSTEM

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: ZICLA
Cost: \$147/unit *unit cost based on what is pictured (1 Double A, 2 Zipper B)
 Zipper A: \$41/unit (Double A: \$79/unit)
 Zipper B: \$34/unit
Material: Recycled Plastic

- Dimensions:**
 Zipper A: 11"L x 11"W x 4"H (Double A: 1"10"L x 11"W x 4"H)
 Zipper B: 11"L x 11"W x 4"H

- Weight:**
 Zipper A: 11 lbs, 7 oz (Double A: 19 lbs, 6 oz)
 Zipper B: 7 lbs, 15 oz

- Installation & Removal**
- Anchor bolt installation
- Additional Considerations**
- Components can be used in a variety of combinations for protected bike lanes and curb extensions



RUBBER DELINEATOR

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: TrafficLogix via TapCoNet.com
Cost: \$215/unit
Material: Recycled Rubber
Dimensions: 29.5"L x 4.75"W x 4"H
Weight: 10 lbs

- Installation & Removal**
- 3-point anchor bolt installation, hardware included

- Additional Considerations**
- Includes top-mounted reflective strip
 - Mountable by cyclists when beveled edge faces inward toward the curb



TUFF-CURB

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: Impact Recovery Systems via TapCoNet.com
Cost: \$316/unit *just for Quick-Release Base pictured, does not include vertical markers
Material: Polyethylene
Dimensions: 40"L x 12"W x 3"H
Weight: 12 lbs

- Installation & Removal**
- 2-point anchor bolt installation
 - Posts/markers sold separately, install easily into Quick-Release Base

- Additional Considerations**
- Can be used as curbing, or as protected bike lane delineation with addition of markers



PRE-CAST CONCRETE CURB

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: Tricon Precast
Cost: \$200-\$400/unit
Material: Poured concrete
Dimensions: Custom
Weight: Varies based on size

- Installation & Removal**
- Can be freestanding for Demonstration duration due to weight
 - Requires pinning into asphalt for pilot duration.

- Additional Considerations**
- Optional paint finish available



Image: NYC DOT



Image: City of Bentonville



Image: City and County of Honolulu



BARRIER ELEMENTS | VERTICAL DELINEATORS



FREESTANDING DELINEATOR

Duration
 Demonstration Pilot Interim

Installation Complexity
 Low Moderate High

Specifications
Manufacturer: TrafficConesforLess.com
Cost: \$24.17/unit
Materials:
 Post: PVC
 Base: Rubber
 Reflective Material: High Intensity Sheeting

Dimensions:
 Post: 3.75" dia x 42"H
 Base: 8"-12" dia
Weight: 11 lbs (including post and base)

Installation & Removal
 • Freestanding

Additional Considerations
 • Detachable rubber base
 • Loop handle makes staging easy
 • Customizable (add logos/graphics)
 • Can order without reflective strips



WAVE DELINEATOR

Duration
 Demonstration Pilot Interim

Installation Complexity
 Low Moderate High

Specifications
Manufacturer: Saris Infrastructure
Cost: \$200/unit
Material: ABS Plastic
Dimensions: 93.3"L x 11.5"W x 27.4"H
Weight: 11 lbs

Installation & Removal
 • Can be freestanding for Demonstration duration
 • Anchoring system available for Pilot duration

Additional Considerations
 • Lightweight, lengthier barrier for protected bike lane or curb extension demonstration projects
 • Folds flat for easy transport and storage



TUBULAR DELINEATOR

Duration
 Demonstration Pilot Interim

Installation Complexity
 Low Moderate High

Specifications
Manufacturer: Uline
Cost: \$41/unit
Materials:
 Post: Polypropylene
 Base: Plastic
 Reflective Material: High Intensity Sheeting

Dimensions:
 Post: 2.25" dia x 36"H
 Base: 8" dia
Weight: 2.7 lbs (including post and base)

Installation & Removal
 • Adhesive butyl pad, epoxy, or hardware
 • Hardware recommended for rougher pavement conditions
 • If using butyl pad or epoxy, ensure pavement has been thoroughly swept

Additional Considerations
 • Easy to install, widely available



FLAT DELINEATOR

Duration
 Demonstration Pilot Interim

Installation Complexity
 Low Moderate High

Specifications
Manufacturer: Uline
Cost: \$45/unit
Materials:
 Post: Polypropylene
 Base: Plastic
 Reflective Material: High Intensity Sheeting

Dimensions:
 Post: 2.25" dia x 36"H
 Base: 8" dia
Weight: 2.59 lbs (including post and base)

Installation & Removal
 • Adhesive butyl pad, epoxy, or hardware
 • Hardware recommended for rougher pavement conditions
 • If using butyl pad or epoxy, ensure pavement has been thoroughly swept

Additional Considerations
 • 12" reflective strip on both sides



POINTER DELINEATOR

Duration
 Demonstration Pilot Interim

Installation Complexity
 Low Moderate High

Specifications
Manufacturer: ZICLA
Cost: \$135/unit
Material: Recycled Plastic
Dimensions:
 Post: 35"H x 4"W
 Base: 9"L x 9"H
Weight: 8 lbs

Installation & Removal
 • Epoxy or hardware (four anchor points)
 • Hardware recommended for rougher pavement conditions
 • If using butyl pad or epoxy, ensure pavement has been thoroughly swept

Additional Considerations
 • Can include road signs/graphics
 • Provides a large retroreflective surface



Image: RTL

Image: ZICLA

BARRIER ELEMENTS | BOLLARDS + BLOCKS



K71 BOLLARD

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
 Manufacturer: USReflector
 Cost: \$107/unit
 Material: Polypropylene
 Dimensions: 7.50"dia x 29"H
 Weight: 4 lbs

- Installation & Removal**
- Anchor bolt installation
 - Colored cap sleeve placed over bolt

- Additional Considerations**
- Collapsible profile ensures emergency vehicle access. Spacing should account for curb access as needed for necessary, routine city sanitation and snow removal services



K72 BOLLARD

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
 Manufacturer: USReflector
 Cost: \$128/unit
 Material: Polypropylene
 Dimensions: 10"dia x 29"H
 Weight: 4 lbs

- Installation & Removal**
- Anchor bolt installation
 - Colored cap sleeve placed over bolt

- Additional Considerations**
- Similar collapsible profile as K71



IRON BOLLARD

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
 Manufacturer: Vestil via Zoro.com
 Cost: \$171/unit + \$145 delivery surcharge per unit
 Material: Ductile Iron
 Dimensions:
 Post: 38.5"H
 Base: 9.25"x9.25"
 Weight: 64 lbs (including post and base)

- Installation & Removal**
- Fixed or removable installation

- Additional Considerations**
- Particularly well-suited for sidewalks and pedestrian areas within historic districts.



TIMBER BOLLARD

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
 Manufacturer: Bollard Street
 Cost: \$300/unit
 Material: Timber
 Dimensions: 12"L x 12"W x 35"H
 Weight: 40-80 lbs

- Installation & Removal**
- Fixed or removable installation

- Additional Considerations**
- Can also function as informal seating / leaning element



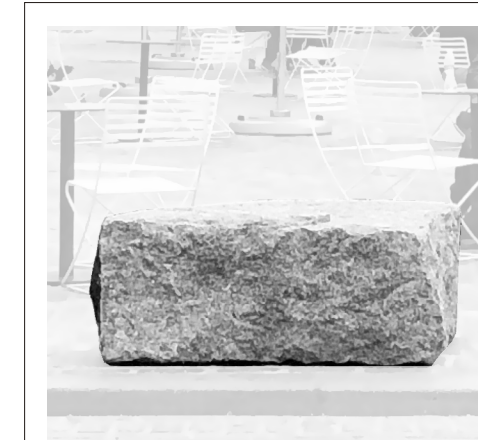
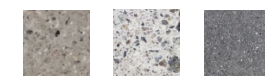
CONCRETE BOLLARD

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
 Manufacturer: Dawn Enterprises
 Cost: \$430/unit
 Material: Concrete
 Dimensions:
 Base: 24"dia
 Top: 18"dia
 Height: 26"
 Weight: 940 lbs

- Installation & Removal**
- Freestanding

- Additional Considerations**
- Choose from seven color bands and three finishes



GRANITE BLOCK

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
 Manufacturer: Varies
 Cost: \$850/unit
 Material: Granite
 Dimensions: 57"L x 26"W x 18"H
 Weight: Varies

- Installation & Removal**
- Freestanding for both project durations

- Additional Considerations**
- Forklift required to move blocks into place



Image: Versa

BARRIER ELEMENTS | PLANTERS



WOODEN CRATE

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: Hardware or craft store
Cost: \$28/unit
Material: Wood
Dimensions: 17.9"L x 12.5"W x 9.6"H
Weight: 2 lbs

- Installation & Removal**
- Freestanding

- Additional Considerations**
- Stackable
 - Additional sizes available



PLASTIC PLANTER

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: Sol 72 Outdoor (via Wayfair)
Cost: \$115/unit
Material: Plastic
Dimensions: 16"D x 33"W x 17.5"H
Weight: 29 lbs

- Installation & Removal**
- Freestanding
 - Consult product specifications for recommend soil and water quantities
 - Fill water reservoir prior to planting

- Additional Considerations**
- Fade and crack-resistant
 - Consider repurposing for other projects/ uses after the pilot project is complete



STOCK TANK

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: CountyLine via Tractor Supply
Cost: \$140/unit
Material: Galvanized Steel
Dimensions: 24"W x 24"H x 48"L
Weight: 44 lbs

- Installation & Removal**
- Freestanding

- Additional Considerations**
- Rust-resistant
 - Drain plug included



ZEBRA PLANTER

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: ZICLA
Cost: \$263/unit
Material: Recycled Plastic
Dimensions: 39"L x 12"W x 15"H
Weight: 18 lbs

- Installation & Removal**
- Use of anchor bolts recommended for pilot or interim design projects

- Additional Considerations**
- Stackable
 - Reflective strips offered in four colors, in addition to white



CORTEN STEEL PLANTER

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: Veradek
Cost: \$210/unit *based on "short" size pictured
Material: Corten Steel
Dimensions: 30"L x 12"W x 24"H
Weight: 19 lbs

- Installation & Removal**
- Freestanding

- Additional Considerations**
- Ideal for temporary public spaces, like plazas or parklets
 - Three sizes available



ROUND PLANTER

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: Sybertech
Cost: \$266/unit
Material: Polypropylene
Dimensions: 30"dia x 20"H
Weight: 29 lbs

- Installation & Removal**
- Freestanding

- Additional Considerations**
- Self-watering, fill reservoir prior to planting
 - Forklift/strap slots for ease of movement/ relocation
 - Variety of sizes, colors, and finishes available



BARRIER ELEMENTS | PLANTERS



STEP PLANTER

Duration

- Demonstration
- Pilot
- Interim

Installation Complexity

- Low
- Moderate
- High

Specifications

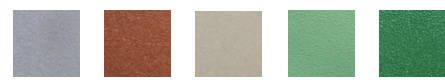
Manufacturer: TerraCast
Cost: \$300/unit
Material: Polypropylene
Dimensions: 34" dia x 24.5"H
Weight: 29 lbs

Installation & Removal

- Freestanding

Additional Considerations

- Commonly used by NYC DOT Plaza Program



CONCRETE PLANTER

Duration

- Demonstration
- Pilot
- Interim

Installation Complexity

- Low
- Moderate
- High

Specifications

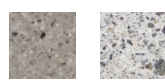
Manufacturer: Dawn Enterprises
Cost: \$426/unit
Material: Concrete
Dimensions: 24" dia x 24"H
Weight: 470 lbs

Installation & Removal

- Freestanding

Additional Considerations

- Provides a durable and low maintenance option that may not be aesthetically appropriate in all contexts



STEEL PLANTER

Duration

- Demonstration
- Pilot
- Interim

Installation Complexity

- Low
- Moderate
- High

Specifications

Manufacturer: DeziignLine
Cost: \$1,470/unit
Material: Steel
Dimensions: 48"L x 24"W x 25"H
Weight: 220 lbs

Installation & Removal

- Freestanding

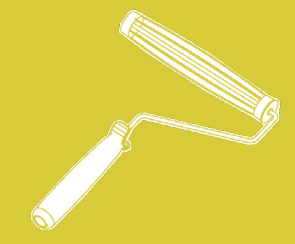
Additional Considerations

- Optional foot rest for cyclists for waiting at traffic signals
- Available in a variety of colors
- Base is forklift-ready





SURFACE TREATMENTS



SURFACE TREATMENTS | MARKINGS



DUCT TAPE

- Duration**
 ● Demonstration ○ Pilot ○ Interim
- Installation Complexity**
 ● Low ○ Moderate ○ High

Specifications
Manufacturer: Duck Brand
Cost: \$7/roll
Material: Polythene
Dimensions: 1.88"W x 15yd
Weight: N/A

- Installation & Removal**
- Adheres directly to pavement

- Additional Considerations**
- Easy to source and remove
 - Commonly used for tape art or very temporary lane striping



CHALK PAINT

- Duration**
 ● Demonstration ○ Pilot ○ Interim
- Installation Complexity**
 ● Low ○ Moderate ○ High

Specifications
Manufacturer: Krylon via Lowe's
Cost: \$10/can
Material: Paint
Dimensions: N/A
Weight: N/A

- Installation & Removal**
- Chalk spray paint, adheres directly to pavement
 - Fades away with water (e.g. precipitation, or intentional removal) and use

- Additional Considerations**
- Easy to source and apply



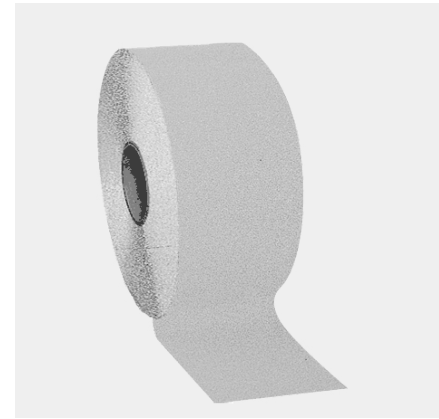
ROOFING FELT PAPER

- Duration**
 ● Demonstration ○ Pilot ○ Interim
- Installation Complexity**
 ○ Low ● Moderate ○ High

Specifications
Manufacturer: Warrior Roofing
Cost: \$35/roll
Material: Felt Roof Deck (AKA "Underlayment")
Dimensions: 36"W, 432 sq. ft. total
Weight: 32 lbs

- Installation & Removal**
- Use paper as a base for painted pavement markings (e.g. bike lane symbols, art crosswalks, etc.) and paint directly onto paper and adhere to asphalt with black or grey duct tape

- Additional Considerations**
- Tape entire perimeter to mitigate turning wheels dislodging the material



FOIL-BACKED TAPE

- Duration**
 ● Demonstration ○ Pilot ○ Interim
- Installation Complexity**
 ● Low ○ Moderate ○ High

Specifications
Manufacturer: Emedco
Cost: \$156/roll
Material: Polymer
Dimensions: 4"W x 150'L
Weight: N/A

- Installation & Removal**
- Adheres directly to pavement
 - Easily removable

- Additional Considerations**
- Reflective, ideal for temporary striping
 - Subject to degradation where vehicular wheelpath may provide repeated contact



STAMARK TAPE

- Duration**
 ○ Demonstration ● Pilot ● Interim
- Installation Complexity**
 ○ Low ● Moderate ○ High

Specifications
Manufacturer: 3M Stamark via Uline
Cost: \$320/roll
Material: Polymer
Dimensions: 4"W x 150'L
Weight: 18 lbs

- Installation & Removal**
- Adheres more strongly to pavement than other tapes
 - May need to use shovel or other tool with a sharp edge to remove, if necessary
 - Available in 6" and 12" widths

- Additional Considerations**
- Highly reflective and relatively durable
 - More expensive than traffic paint
 - Black tape may be used to cover up existing markings



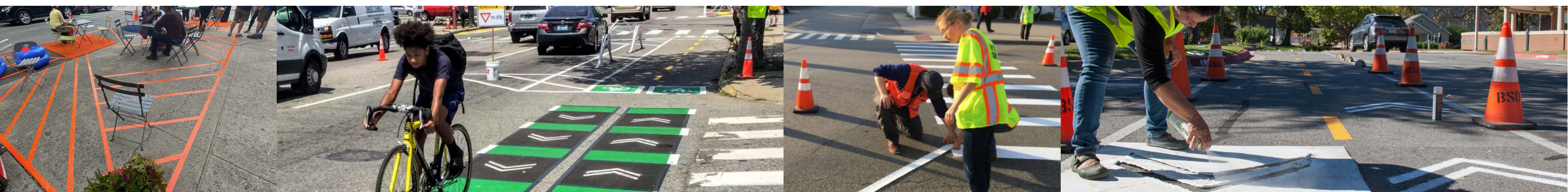
ROADWAY STENCIL

- Duration**
 ● Demonstration ● Pilot ○ Interim
- Installation Complexity**
 ● Low ○ Moderate ○ High

Specifications
Manufacturer: Stencil Ease
Cost: \$70-\$150/stencil
Material: LLDPE Plastic
Dimensions: Varies by stencil
Weight: Varies by stencil

- Installation & Removal**
- Apply spray paint, spray chalk, or use rollers to paint over the stencil for desired effect

- Additional Considerations**
- Can be customized tofor application of various pavement markings



SURFACE TREATMENTS | PAINT



TEMPERA PAINT

- Duration**
 ● Demonstration ○ Pilot ○ Interim
- Installation Complexity**
 ● Low ○ Moderate ○ High

Specifications
Manufacturer: Blick
Cost: \$37/gal
Material: Paint
Dimensions: 1 gal
Weight: 10.5 lbs

- Installation & Removal**
- Shake and apply straight from the bottle or within a paint tray
 - Washes away with water

- Additional Considerations**
- Available in powder or liquid form
 - Non-toxic and stormwater drain safe
 - Additional colors available



ACRYLIC PAINT

- Duration**
 ○ Demonstration ● Pilot ○ Interim
- Installation Complexity**
 ● Low ○ Moderate ○ High

Specifications
Manufacturer: Sherwin Williams
Cost: \$68/gal
Material: Paint
Dimensions: 5 gal, 15"H x 13"D
Weight: 65 lbs

- Installation & Removal**
- Apply with brushes/rollers
 - Can be applied in conjunction with primer, sealant, and shark grip for extra durability
 - Power wash to remove
 - Removal may require scarification, power washing, or painting over with paint that closely matches asphalt color

- Additional Considerations**
- Appropriate for all project types that include solid paint directly onto pavement



COLORPAVE HD

- Duration**
 ○ Demonstration ● Pilot ● Interim
- Installation Complexity**
 ○ Low ● Moderate ○ High

Specifications
Manufacturer: Sealmaster
Cost: \$162/unit
Material: Paint
Dimensions: 5 gal, 15"H x 13"D
Weight: 65 lbs

- Installation & Removal**
- Unit purchase is for base, tint needs to be purchased separately and mixed into substrate base with mud mixer/paddle
 - Apply with brushes/rollers
 - Power wash to remove
 - Removal may require scarification, power washing, or painting over with paint that closely matches asphalt color

- Additional Considerations**
- Base includes substrate for non-slip texture



TRAFFIC PAINT

- Duration**
 ○ Demonstration ● Pilot ● Interim
- Installation Complexity**
 ○ Low ● Moderate ○ High

Specifications
Manufacturer: Sherwin Williams
Cost: \$175/unit
Material: Paint
Dimensions: 5 gal, 15"H x 13"D
Weight: 65 lbs

- Installation & Removal**
- Apply with 4" roller for striping
 - Scarify to remove
 - For retroreflectivity, mix in glass beads

- Additional Considerations**
- Like all paint, will eventually need to be re-applied
 - For more durability, consider MMA, Ruby Lake Glass or Streetbond (see right).



SAFE RIDE

- Duration**
 ○ Demonstration ● Pilot ● Interim
- Installation Complexity**
 ○ Low ● Moderate ○ High

Specifications
Manufacturer: Sealmaster
Cost: \$211/unit
Material: Paint
Dimensions: 5 gal, 15"H x 13"D
Weight: 65 lbs

- Installation & Removal**
- Apply with brushes/rollers
 - Pressure wash to remove or scarify
 - Single component, no mixing required prior to application

- Additional Considerations**
- Bike lane and bus lane colors meet MUTCD requirements
 - For more durability, consider MMA, Ruby Lake Glass or Streetbond (see right).



STREETBOND

- Duration**
 ○ Demonstration ● Pilot ● Interim
- Installation Complexity**
 ○ Low ○ Moderate ● High

Specifications
Manufacturer: GAF
Cost: \$400/unit *unit cost based on the below:
 Part A (5 gal substrate) & Part B (epoxy additive): \$350
 Part C (tint): \$50

- Material:** Paint
Dimensions: 5 gal, 15"H x 13"D
Weight: 65 lbs
- Installation & Removal**
- Three-part mixing (base, epoxy additive, tint) and water required
 - Typically applied project durations of a minimum of twelve months; Scarify to remove

- Additional Considerations**
- Many more colors available
 - Custom colors also available

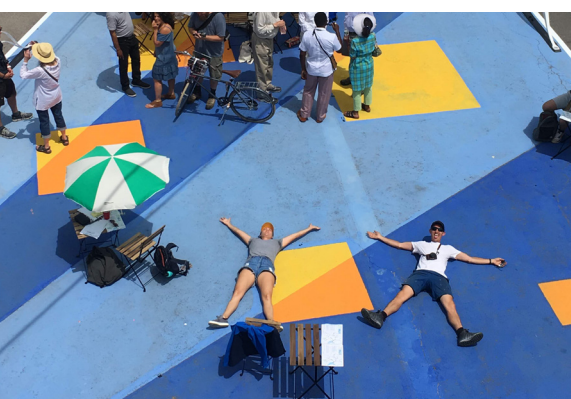
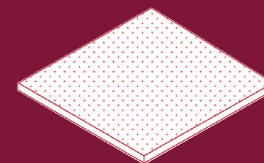




Image: Joe Linton

MODULAR COMPONENTS



MODULAR COMPONENTS | PAVERS + TILES



RUBBER TILE

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: Uline
Cost: \$66/3'x3' tile system
Material: Recycled Rubber
Dimensions: 3'L x 3'W x 3/4"H
Weight: 30 lbs

- Installation & Removal**
- Interlocking system
 - Lays on pavement or asphalt, no hardware required

- Additional Considerations**
- Ideal to create quick even surfaces (temporary sidewalks, parklets etc.)



PEDESTRIAN ISLAND

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

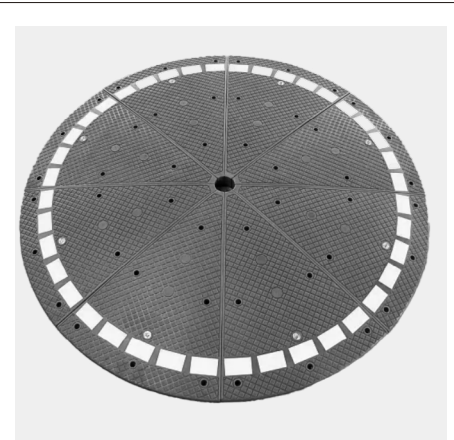
Specifications
Manufacturer: USReflector
Cost: \$3,698/unit *minimum cost including the components below

- 2 Piece Bull Nose Traffic Island (5'L x 5'W)
- Traffic Island Extension pieces (5'L x 2.5'W)

Material: Recycled Rubber
Dimensions: Varies
Weight: Varies

- Installation & Removal**
- Anchoring system, multiple modular components required to make one traffic island

- Additional Considerations**
- Requires no excavation compared with constructed concrete or asphalt alternatives



RUBBER ROUNDABOUT

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: Vortex
Cost: N/A
Material: Recycled Rubber
Dimensions: 10'D x 4"H
Weight: N/A

- Installation & Removal**
- Use anchoring system recommended by manufacturer
 - Multiple modular components required to make one roundabout

- Additional Considerations**
- Ideal to create even surfaces without resurfacing asphalt
 - Can be used in difficult road conditions and includes reflectivity



BUS BOARDING ISLAND

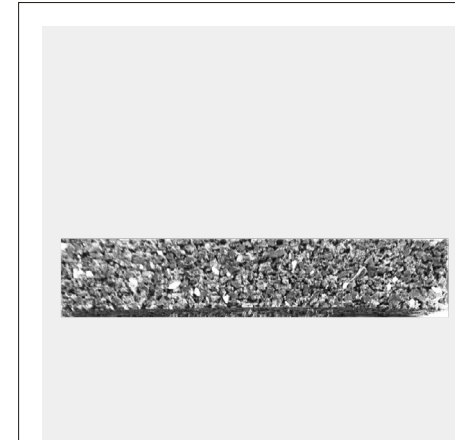
- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: ZICLA
Cost: \$22,258/platform *minimum cost including the below components

- Main Module
- Main Module with Connector
- Access Ramp
- Curb End

Material: Recycled Plastic
Dimensions: 41'-1 1/4"L x 8'-6" W x 7" L *minimum dimension based on above cost
Weight: Varies

- Installation & Removal**
- Use anchoring system recommended by manufacturer; can be assembled to various, desired widths and lengths
- Additional Considerations**
- Shim platform where uneven surfaces exist



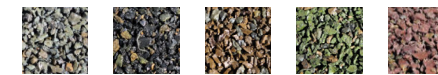
FLEXI-PAVE

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: KBI
Cost: \$10-\$12/sq. ft.
Material: Rock aggregate, recycled tires, and bonding agent
Dimensions: Varies
Weight: Varies

- Installation & Removal**
- Mix Flexi-Pave material according to manufacturer instructions

- Additional Considerations**
- Provides a non-slip, permeable surface for stormwater infiltration
 - Can be used for temporary sidewalk/paths, to cover tree pits, etc.



WOOD TILE

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: Bison Innovative Products
Cost: \$50/unit
Material: Wood (Varies)
Dimensions: 24"L x 24"W
Weight: 24 lbs

- Installation & Removal**
- Modular tiles combine with pedestral system for installation and removal

- Additional Considerations**
- Provides attractive, even surface for parklets, other temporary public spaces

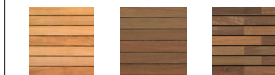


Image: USReflector



Image: Vortex



Image: ZICLA

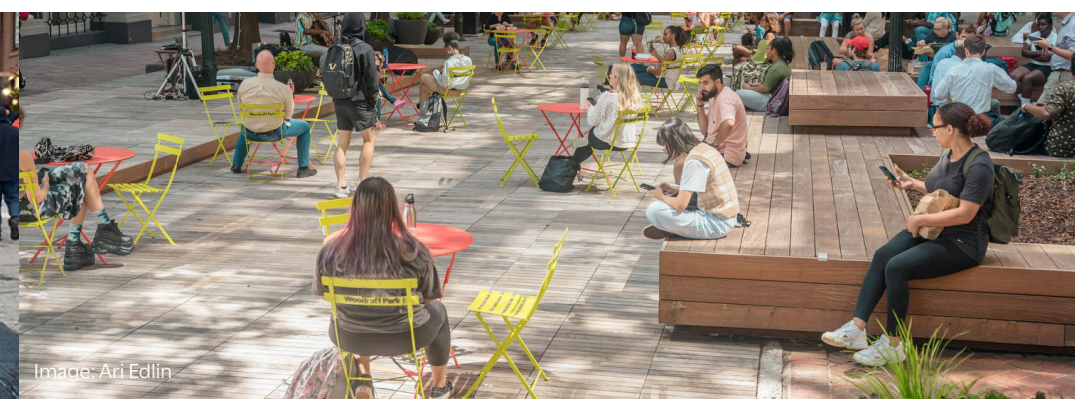


Image: Ari Edlin

MODULAR COMPONENTS | PANELS + RAMPS



ADA RAMP

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: Global Industrial
Cost: \$81/unit
Material: Plastic
Dimensions: 27"L x 27"W x 4"H
Weight: 9.5 lbs

- Installation & Removal**
- Bolt or epoxy to top of the curb

- Additional Considerations**
- 1,000 lb weight capacity
 - Particularly applicable for painted curb extensions where sidewalk ramps do not currently exist, and street level parklets or streateries without decking



PLASTIC SPEED BUMP

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: Uline
Cost: \$130/unit
Material: Plastic
Dimensions: 72"L x 10"W x 2"H
Weight: 23 lbs

- Installation & Removal**
- Install with anchoring system

- Additional Considerations**
- Can be removed for snow removal
 - Semi-flexible and lightweight
 - To be used in very low-speed environments like alleyways, parking lots, ingress/egress points for emergency vehicles along the edge of pedestrian plazas, etc.



PLASTIC SPEED BUMP

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: Uline
Cost: \$145/unit
Material: Rubber
Dimensions: 48"L x 12"W x 2"H
Weight: 32 lbs

- Installation & Removal**
- Install with anchoring system

- Additional Considerations**
- Can be removed for snow removal
 - Reflective for improved visibility
 - To be used in very low-speed environments (see left) or may be used to harden centerline or within left-turn turn-boxes to encourage slower turning speeds



TACTILE WARNING PAD

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: USReflector
Cost: \$360/unit (at the below dimensions)
Material: Polyurethane
Dimensions: 15"L x 15"W
Weight: N/A

- Installation & Removal**
- Self adhesive or flexible urethane
 - Bolt to sidewalk surface

- Additional Considerations**
- Provides slip and impact resistance
 - Available with or without self bonding pre-applied adhesive system



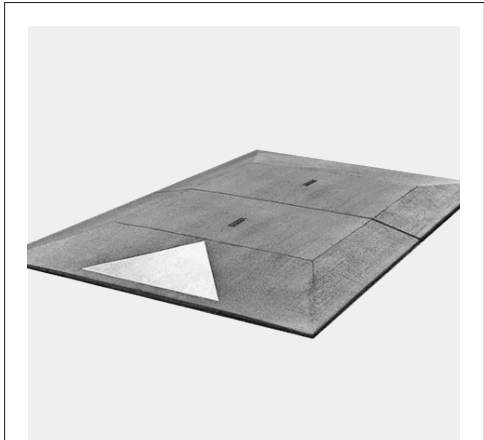
RAISED CROSSWALK

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: USReflector
Cost: \$9,600/for 24'W street crossing
Material: Recycled Rubber
Dimensions: 24'W
Weight: N/A

- Installation & Removal**
- Bolted into asphalt
 - May be removed for snow removal

- Additional Considerations**
- Great alternative to test more permanent raised crosswalks



RUBBER SPEED CUSHION

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: USReflector
Cost: \$2,390/unit (single speed cushion)
Material: Recycled Rubber
Dimensions: 6.5'L x 5.4'W x 2.5"H
Weight: N/A

- Installation & Removal**
- Bolted and bonded to concrete, asphalt or block paving with kit supplied

- Additional Considerations**
- Tough and flexible, they follow the road surface contour and incorporate a unique underside profile that molds itself to the road surface without the need for excavation





SIGNS



SIGNS | TRAFFIC AND INFORMATION



A-FRAME SIGN

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: Uline
Cost: \$130/unit (coroplast sign not included)
Material: Plastic
Dimensions: 27"W x 46"H
Weight: 23 lbs

- Installation & Removal**
- Insert 24"x36" coroplast project poster and stage sign along route/at project site
 - Remove poster and fold up to deinstall

- Additional Considerations**
- Add sand bags on top of support spans to make it less susceptible to wind



TRAFFIC SIGN

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: Seton
Cost: \$156/unit (includes sign)
Materials: Plastic and metal
Dimensions: 4'H, 24" Stop sign
Weight: 25-50 lbs

- Installation & Removal**
- Freestanding

- Additional Considerations**
- Easy to install and remove
 - Given weight, not for pilot or interim use



COROPLAST STREET SIGN

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: Signs.com or local print shop
Cost: \$29-\$48/unit
Material: Coroplast
Dimensions: Varies
Weight: N/A

- Installation & Removal**
- Print with gromets or poke holes in coroplast to affix to existing sign posts with zip ties

- Additional Considerations**
- Durable signage solution
 - This material can be used for MUTCD or project information signs (pictured)
 - Custom colors available



COROPLAST LAWN SIGN

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: Signs.com or local print shop
Cost: \$29-\$48/unit
Material: Coroplast
Dimensions: 18"W x 24"L
Weight: N/A

- Installation & Removal**
- Install on wooden or metal stakes in grass
 - Stakes included with purchase

- Additional Considerations**
- Due to lower height, some information may not as noticeable compared to mounting on an existing sign post
 - Custom colors available



PAVEMENT DECAL

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: Signs.com
Cost: \$105/unit
Material: PVC-free aluminum foil
Dimensions: 24" dia
Weight: N/A

- Installation & Removal**
- Self-adhesive
 - Requires heat application and/or tool for removal

- Additional Considerations**
- No heat gun or sealers for installation
 - Custom sizes available
 - For best result sweep or power wash surface before installation
 - Custom colors available



BARRICADE + JACKET

- Duration**
 Demonstration Pilot Interim
- Installation Complexity**
 Low Moderate High

Specifications
Manufacturer: Soncocardcontrol.com
Cost: \$215/unit (unit cost based on the below:)

- Barricade: \$95/unit
- Jacket: \$120/unit

Material:

- Barricade: Metal
- Jacket: Vinyl

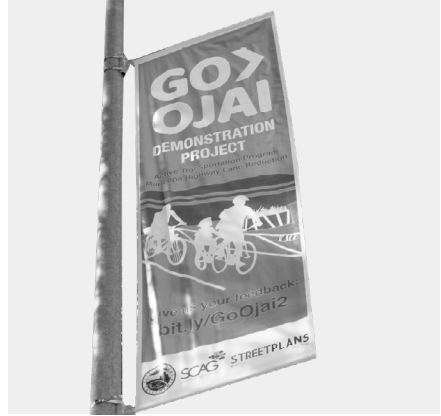
Dimensions: 96"W x 44"H
Weight: 40 lbs (barricade)

- Installation & Removal**
- Freestanding, place in desired location

- Additional Considerations**
- Enables interchangeability of branding and messaging
 - Jacket design allows barricades to interlock
 - Custom colors available



SIGNS | TRAFFIC AND INFORMATION



BANNER

Duration
 Demonstration Pilot Interim

Installation Complexity
 Low Moderate High

Specifications
Manufacturer: Intersection
Cost: \$600/unit
Material: Vinyl
Dimensions: Varies
Weight: N/A

Installation & Removal
 • Typically requires professional installation and removal

Additional Considerations
 • Creates placemaking and educational benefits, most commonly applied to projects within commercial districts



ALUMINUM SIGN

Duration
 Demonstration Pilot Interim

Installation Complexity
 Low Moderate High

Specifications
Manufacturer: Signs.com
Cost: \$31-\$200/unit
Material: Aluminum
Dimensions: Varies
Weight: N/A

Installation & Removal
 • Affix to U-channel posts using screws

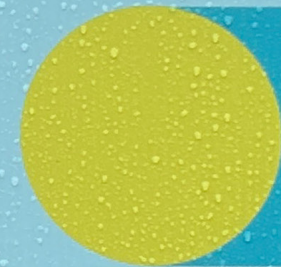
Additional Considerations
 • High quality metal signs to meet regulatory requirements or wayfinding
 • Many municipalities fabricate their own signs, which can save money but add time
 • MUTCD compliant signs available



SAFER STREETS



ART MEETS ACTION DEMONSTRATION PROJECT
 STAMFORD VISION ZERO ACTION PLAN



15%
 Crossing distance reduction

550
 Square feet of reclaimed pedestrian space

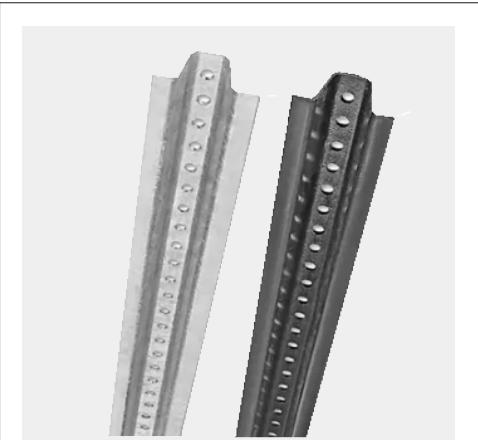
This Vision Zero demonstration project features curb extensions painted with vibrant art and vertical delineators to enhance pedestrian safety by reclaiming space at intersections. Curb extensions narrow the road, slowing down traffic and shortening crossing distances, making streets safer for pedestrians. Aligned with Vision Zero's goal of eliminating traffic fatalities, these installations highlight the importance of prioritizing pedestrian safety and creating safer streets for everyone.

Stamford VISION ZERO



Image: MDMA

SIGNAGE | POSTS + BASES



U-CHANNEL POST

Duration

- Demonstration ● Pilot ● Interim

Installation Complexity

- Low ● Moderate ○ High

Specifications

Manufacturer: signs.com

Cost: \$31-\$200/unit

Material: Aluminum

Dimensions: Varies

Weight: 2lbs

Installation & Removal

- Affix to metal pole or other pole with holes using screws

Additional Considerations

- Powder-coated steel resists rust



QUIKRETE BUCKET BASE

Duration

- Demonstration ○ Pilot ○ Interim

Installation Complexity

- Low ● Moderate ○ High

Specifications

Manufacturer: The Home Depot

Cost: \$10.28/unit *for concrete mix, does not include 5-gal bucket or post

Material: Cement Concrete Mix

Dimensions: N/A

Weight: min. 40 lbs when mixed

Installation & Removal

- Follow product instructions, requires mixing with water and waiting approximately one hour to solidify

Additional Considerations

- Quick way to make a sign base and install sign post



POST + BRACKETS

Duration

- Demonstration ● Pilot ● Interim

Installation Complexity

- Low ○ Moderate ○ High

Specifications

Manufacturer: Build a Sign

Cost: \$98/unit

Material: Cast iron

Dimensions:

Pole: 4" dia

Base: 14" dia

Weight: N/A

Installation & Removal

- Affix sign to post with screws

Additional Considerations

- Lightweight way to affix aluminium signs
- Stands on its own, no need to purchase separate base



RUBBER BASE + POST

Duration

- Demonstration ● Pilot ○ Interim

Installation Complexity

- Low ○ Moderate ○ High

Specifications

Manufacturer: Brimar

Cost: \$132/unit

Material: Rubber base, steel post

Dimensions:

Post: 6"H

Base: 18"L x 18"W x 3"H

Weight: 30 lbs

Installation & Removal

- Affix sign to post with screws

Additional Considerations

- Light and easy to transport
- Stands on its own, no need to purchase separate base
- May need additional sand bags or weight to prevent falling down when bumped.



TIMBER POST

Duration

- Demonstration ● Pilot ● Interim

Installation Complexity

- Low ● Moderate ○ High

Specifications

Manufacturer: The Home Depot

Cost: \$20/unit (does not include directional signs)

Material: Wood

Dimensions: 4"L x 4"W x 8'H

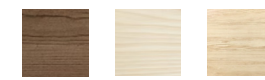
Weight: 35.3 lbs

Installation & Removal

- Can be used with Quikrete base

Additional Considerations

- Easy to move/relocate, provides more placemaking aesthetic, especially for pilot or interim public space projects



CONCRETE BASE + POST

Duration

- Demonstration ● Pilot ● Interim

Installation Complexity

- Low ○ Moderate ○ High

Specifications

Manufacturer: Tapco

Cost: \$200/unit

Material: Concrete base w/ metal pole

Dimensions: 18"L x 18"W x 18"H

Weight: 250 lbs

Installation & Removal

- Affix sign to post with screws

Additional Considerations

- Most durable in potentially windy conditions
- Stands on its own, no need to purchase separate base



Image: Fitzpatrick Woolmer



STREET FURNITURE



STREET FURNITURE | SEATING



WOOD PALETTE SEATING

Duration

- Demonstration ● Pilot ○ Interim

Installation Complexity

- Low ○ Moderate ○ High

Specifications

Manufacturer:

Cost: \$34/unit

Material: Wood

Dimensions: 36"L x 36"W x 5"H

Weight: 30lbs; 3,500 lbs capacity

Installation & Removal

- Assemble wood pallets together using nails and a hammer

Additional Considerations

- Use a 2-way forklift for quicker install



STACKED RAILROAD TIES

Duration

- Demonstration ● Pilot ● Interim

Installation Complexity

- Low ● Moderate ○ High

Specifications

Manufacturer:

Cost: \$30-\$200/unit

Material: Wood

Dimensions: 108"L x 14"W x 14"H

Weight: 200 lbs

Installation & Removal

- Stacked Railroad Ties and connect them by using an anchor system

Additional Considerations

- Can be cut into smaller pieces to be used as barrier elements



MOVABLE BISTRO SET

Duration

- Demonstration ● Pilot ○ Interim

Installation Complexity

- Low ○ Moderate ○ High

Specifications

Manufacturer: Ebern Designs

Cost: \$100/set

Material: Wood with metal frame

Dimensions:

Table: 23"W x 27"H, 13 lbs

Chair: 15"W x 31"H, 9 lbs

Installation & Removal

- Follow manufacturer instructions

Additional Considerations

- Easy to stored



PICNIC TABLE

Duration

- Demonstration ● Pilot ○ Interim

Installation Complexity

- Low ● Moderate ○ High

Specifications

Manufacturer: Uline

Cost: \$575/unit

Material: Wood with steel frame

Dimensions: 72"L x 60"W x 29"H

Weight: 240 lbs

Installation & Removal

- Assembly hardware provided by manufacturer

Additional Considerations

- Heavy duty table



ADIRONDACK CHAIR

Duration

- Demonstration ● Pilot ○ Interim

Installation Complexity

- Low ○ Moderate ○ High

Specifications

Manufacturer: Highland Dunes

Cost: \$84/unit

Material: Wood

Dimensions: 28"W x 34.5"H x 32"D

Weight: 20 lbs

Installation & Removal

- Follow manufacturer instructions

Additional Considerations

- Lightweight seating option



CABANA SLING CHAIR

Duration

- Demonstration ● Pilot ○ Interim

Installation Complexity

- Low ○ Moderate ○ High

Specifications

Manufacturer: The Inside

Cost: \$140/unit

Material: Wood frame, fabric sling

Dimensions: 33"L x 20"W x 40"H

Weight: 101 lbs

Installation & Removal

- Follow manufacturer instructions

Additional Considerations

- One-piece fabric sling included
- Custom fabrics available



Image: NYCDOT

Image: Sari Goodfriend (circa 2021)

STREET FURNITURE | SEATING



FOLDING CUSHION

Duration

- Demonstration
- Pilot
- Interim

Installation Complexity

- Low
- Moderate
- High

Specifications

Manufacturer: SunnyLife

Cost: \$75/unit

Material: Steel, Polyester Fiber

Dimensions: 36"L x 17"W

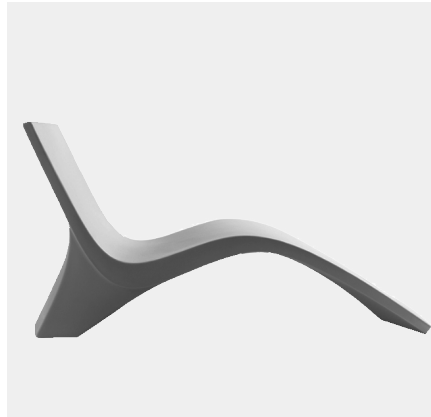
Weight: 3 lbs

Installation & Removal

- Ready to use

Additional Considerations

- Water and fade resistant coating
- Adjustable recycling settings



CHILL CHAISE LOUNGE

Duration

- Demonstration
- Pilot
- Interim

Installation Complexity

- Low
- Moderate
- High

Specifications

Manufacturer: Landscape Forms

Cost: \$1050/unit

Material: Polyethylene

Dimensions: 62"L x 28"W x 33"H

Weight: 60 lbs

Installation & Removal

- Follow manufacturer instructions

Additional Considerations

- Surface mounted or freestanding



UPHOLSTERED SEATING

Duration

- Demonstration
- Pilot
- Interim

Installation Complexity

- Low
- Moderate
- High

Specifications

Manufacturer: Flash Furniture

Cost: \$80-\$100/set

Material: Vinyl

Dimensions: 18"W x 12-18"H

Weight: 10-15 lbs

Installation & Removal

- Ready to use

Additional Considerations

- Soft seating is safe around kids of all ages
- Movable and playful



STREET FURNITURE | OVERHEAD ELEMENTS



UMBRELLAS

Duration

- Demonstration ● Pilot ● Interim

Installation Complexity

- Low ○ Moderate ○ High

Specifications

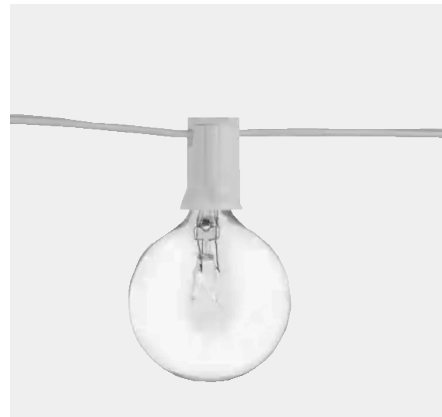
Manufacturer:
Cost: \$215/unit
Material: polyester fabric/aluminum
Dimensions: 108"L x 108"W x 102"H
Weight: 50 lbs

Installation & Removal

- Follow manufacturer instructions

Additional Considerations

- Durable fabric



STRING LIGHTS (PLUG-IN)

Duration

- Demonstration ● Pilot ● Interim

Installation Complexity

- Low ● Moderate ○ High

Specifications

Manufacturer: Hampton Bay
Cost: \$25/unit
Material: glass bulb/white string
Dimensions: 12'L
Weight: 0.56 lbs

Installation & Removal

- Extension cord required

Additional Considerations

- Long Lasting LED bulbs



STRING LIGHTS (SOLAR)

Duration

- Demonstration ● Pilot ● Interim

Installation Complexity

- Low ○ Moderate ○ High

Specifications

Manufacturer: Hampton Bay
Cost: \$60/unit
Material: glass bulb/black string
Dimensions: 20'L
Weight: 4.6 lbs

Installation & Removal

- Follow manufacturer instructions

Additional Considerations

- Easy to install
- Use of clean energy
- Convenient

STREET FURNITURE | BIKE PARKING



U-BIKE RACK

Duration

- Demonstration ● Pilot ● Interim

Installation Complexity

- Low ● Moderate ○ High

Specifications

Manufacturer: Global Industrial
Cost: \$190/unit
Material: Steel
Dimensions: 14-1/2"L x 1-5/8"W x 34"H
Weight: 12.2 lbs

Installation & Removal

- Ground mount for installation in fresh, wet cement or soil

Additional Considerations

- It holds up to 2 bikes in the upright position when used alone



BIKEEEP SMART DOCK

Duration

- Demonstration ● Pilot ● Interim

Installation Complexity

- Low ○ Moderate ● High

Specifications

Manufacturer: Bikeeep
Cost: NA
Material: Stainless steel
Dimensions: 14"L x 4"W x 36"H
Weight: 37 lbs

Installation & Removal

- Follow manufacturer instructions

Additional Considerations

- Secure bicycle
- Controlled access



OONEE MINI

Duration

- Demonstration ● Pilot ● Interim

Installation Complexity

- Low ○ Moderate ● High

Specifications

Manufacturer: Oonee
Cost: NA
Material: Steel, Polypropylene, Metal
Dimensions: 33"L x 20"W x 40"H
Weight: NA

Installation & Removal

- Follow manufacturer instructions

Additional Considerations

- Long term bicycle parking solution

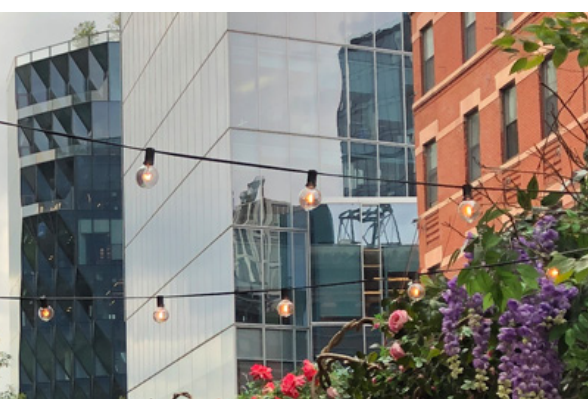
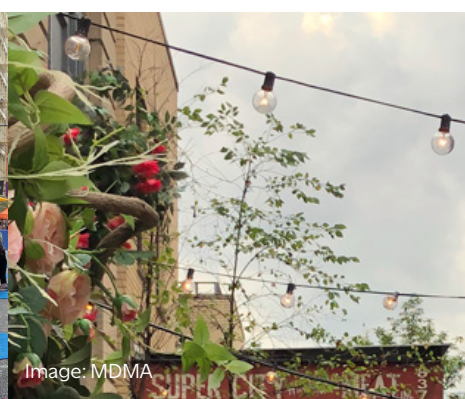
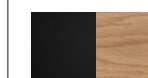


Image: MDMA

Image: CycleSafe

Image: NYC DOT

STREET FURNITURE | STORAGE



WOOD BIN

Duration

- Demonstration ● Pilot ○ Interim

Installation Complexity

- Low ○ Moderate ○ High

Specifications

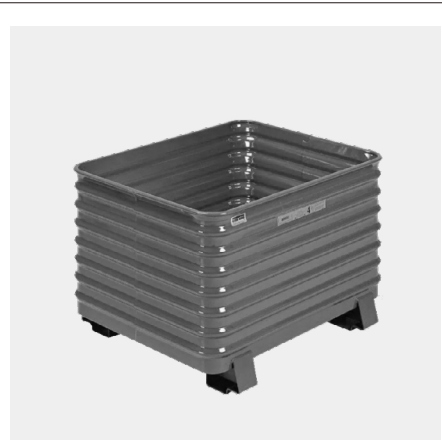
Manufacturer: Webstaurant store
Cost: \$450/unit
Material: Wood base / plastic liner
Dimensions: 48"L x 48"W x 32"H
Weight: 85 lbs

Installation & Removal

- Assemble wood panels together by using nails

Additional Considerations

- Can be customized with locking lid



BULK STORAGE

Duration

- Demonstration ● Pilot ○ Interim

Installation Complexity

- Low ○ Moderate ○ High

Specifications

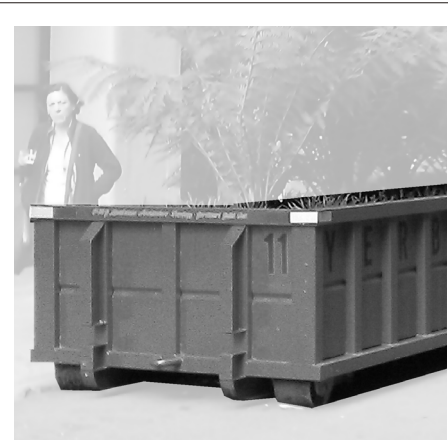
Manufacturer: Steel King
Cost: \$587/unit
Material: Steel
Dimensions: 40"L x 41-1/2"W x 24"H
Weight: NA

Installation & Removal

- Ready for use

Additional Considerations

- Stackable



ROLL-OFF CONTAINER

Duration

- Demonstration ● Pilot ○ Interim

Installation Complexity

- Low ● Moderate ○ High

Specifications

Manufacturer: Wastequip
Cost: \$5567/unit
Material: Galvanized Steel
Dimensions: 22'L x 7.75'W x 4.5'H
Weight: 4320 lbs

Additional Considerations

- Multifunctional
- Storage large placemaking elements
- Customize lid



SHIPPING CONTAINER

Duration

- Demonstration ● Pilot ● Interim

Installation Complexity

- Low ● Moderate ○ High

Specifications

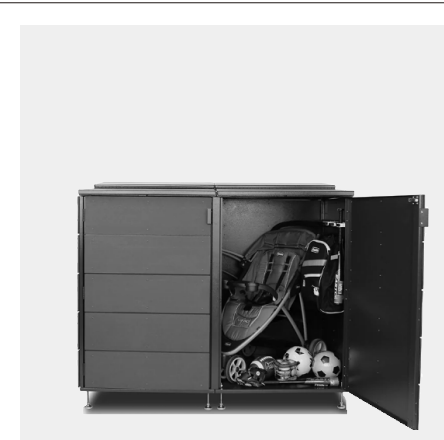
Manufacturer: ACC
Cost: \$325/unit
Material: Steel and wood platform
Dimensions: 6'L x 6.45'W x 6.30'H
Weight: 11020 lbs

Installation & Removal

- Assembly hardware provided by manufacturer

Additional Considerations

- Storage large placemaking elements



CITIBIN SHEDS

Duration

- Demonstration ● Pilot ● Interim

Installation Complexity

- Low ● Moderate ○ High

Specifications

Manufacturer: CitiBin
Cost: \$2700/unit
Material: Aluminum enclosure
Dimensions: 28"W x 34.5"H x 32"D
Weight: 190 lbs per module

Installation & Removal

- Follow manufacturer instructions

Additional Considerations

- Multifunctional
- Additional planting modules

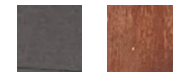


Image: Pittsburg Downtown Partnership



Image: Buck Ennis

Image: Miranda Jaimes

REFERENCE TABLES

BARRIER ELEMENTS	PROJECT DURATION			INSTALL COMPLEXITY			PROJECT TYPES	COST
	DEMONSTRATION	PILOT	INTERIM	LOW	MODERATE	HIGH		
LOW-PROFILE DELINEATORS								
Parking Stop	●	●	○	●	○	○	CE, P, PBL, PC, TC, TU	\$75/unit
Zebra Delineator	○	●	●	○	●	○	CE, PBL, PC, TC, TU	\$59/unit
Zipper System	○	●	●	○	●	○	CE, PBL, PC, TC, TU	Zipper A: \$41/unit Zipper B: \$34/unit Double A: \$79/unit
Rubber Delineator	○	●	●	○	●	○	PBL, TU	\$215/unit
Tuff-Curb	○	●	○	○	●	○	CE, P, PC, PBL, PL, TC, TU	\$316/unit
Pre-Cast Concrete Curb	○	●	●	○	○	●	CE, P, PC, PBL, TU	\$200-\$400/unit
VERTICAL DELINEATORS								
Freestanding Delineator	●	○	○	●	○	○	CE, P, PBL, PL, RD, TC	\$24.17/unit
Wave Delineator	●	○	○	●	○	○	CE, PBL, PC, TC	\$200/unit
Tubular Delineator	●	●	○	●	○	○	CE, PBL, PC, PL, RD, TC, TU	\$41/unit
Flat Delineator	●	●	○	●	○	○	CE, PBL, PC, PL, RD, TC, TU	\$45/unit
Pointer Delineator	○	●	●	●	○	○	CE, PBL, PC, PL, RD, TC, TU	\$135/unit
BOLLARDS								
K71 Bollard	○	●	●	○	●	○	CE, PBL, PC, PL, RD, TC, TU	\$107/unit
K72 Bollard	○	●	●	○	●	○	CE, PBL, PC, PL, RD, TC, TU	\$128/unit
Iron Bollard	○	●	●	○	○	●	CE, P, PL, GI	\$180/unit
Timber Bollard	●	●	●	●	●	○	CE, P, PL, GI	\$300/unit
Concrete Bollard	○	●	●	○	●	○	CE, PBL, PC, PL, RD, TC	\$430/unit
Granite Block	○	●	●	○	●	○	CE, PBL, PC, PL, RD, TC	\$850/unit

CE - Curb Extensions
 GI - Green Infrastructure
 P - Parklets
 PA - Public Art
 PBL - Protected Bike Lanes
 PC - Pedestrian Crossings
 PL - Plazas
 RD - Road Diet
 SF - Street Furniture
 TC - Traffic Calming
 TU - Transit Upgrades
 WS - Wayfinding / Information Signs

BARRIER ELEMENTS	PROJECT DURATION			INSTALL COMPLEXITY			PROJECT TYPES	COST
	DEMONSTRATION	PILOT	INTERIM	LOW	MODERATE	HIGH		
PLANTERS								
Wood Crate	●	○	○	●	○	○	CE, GI, PBL, PC, PL	\$28/unit
Plastic Planter	●	●	○	●	○	○	CE, GI, P, PBL, PC, PL	\$115/unit
Stock Tank	●	●	○	●	○	○	CE, GI, P, PBL, PC, PL	\$140/unit
Zebra Planter	●	●	●	●	○	○	CE, GI, P, PBL, PC, PL	\$263/unit
Corten Steel Planter	○	●	●	○	●	○	CE, P, TC, PL	\$209/unit
Round Planter	○	●	●	○	●	○	CE, GI, PBL, PC, PL	\$266/unit
Step Planter	○	●	●	○	●	○	PBL, CE, P, TC, PL	\$300/unit
Concrete Planter	○	●	●	○	○	●	CE, GI, P, PBL, PC, PL	\$426/unit
Steel Planter	○	●	●	○	○	●	CE, GI, P, PBL, PC, PL	\$1,470/unit

CE - Curb Extensions
 GI - Green Infrastructure
 P - Parklets
 PA - Public Art
 PBL - Protected Bike Lanes
 PC - Pedestrian Crossings
 PL - Plazas
 RD - Road Diet
 SF - Street Furniture
 TC - Traffic Calming
 TU - Transit Upgrades
 WS - Wayfinding / Information Signs

REFERENCE TABLES

SURFACE TREATMENTS	PROJECT DURATION			INSTALL COMPLEXITY			PROJECT TYPES	COST
	DEMONSTRATION	PILOT	INTERIM	LOW	MODERATE	HIGH		
MARKINGS								
Duct Tape	●	○	○	●	○	○	CE, PBL, PC, PL	\$7/roll
Chalk Paint	●	○	○	●	○	○	CE, PBL, PC, PL	\$10/can
Roofing Felt Paper	●	○	○	○	●	○	PBL, PC	\$35/roll
Foil-Backed Tape	●	○	○	●	○	○	CE, PBL, PC, RD, TC, TU	\$156/roll
Stamark Tape	○	●	●	○	●	○	CE, PBL, PC, RD, TC, TU	\$320/roll
Roadway Stencils	●	●	○	●	○	○	PBL, PA, PC, RD, TC, WS, TU	\$70-\$150/stencil
PAINT								
Tempera Paint	●	○	○	●	○	○	CE, PA, PC, PL, TC, RD	\$37/gal
Acrylic Paint	○	●	○	●	○	○	CE, PBL, PC, PL, RD, TC, PA	\$68/gal
Colorpave HD 500	○	●	●	○	●	○	CE, PBL, PC, PL, RD, TC, TU	\$162/5-gal
Traffic Paint	○	●	●	○	●	○	CE, PBL, PC, PL, RD, TC, TU	\$175/5-gal
Safe Ride	○	●	●	○	●	○	CE, PBL, PC, PL, RD, TC, TU	\$211/5-gal
StreetBond	○	●	●	○	○	●	CE, PBL, PC, PL, RD, TC, TU	\$400/5-gal

CE - Curb Extensions
 GI - Green Infrastructure
 P - Parklets
 PA - Public Art
 PBL - Protected Bike Lanes
 PC - Pedestrian Crossings
 PL - Plazas
 RD - Road Diet
 SF - Street Furniture
 TC - Traffic Calming
 TU - Transit Upgrades
 WS - Wayfinding / Information Signs

REFERENCE TABLES

MODULAR COMPONENTS	PROJECT DURATION			INSTALL COMPLEXITY			PROJECT TYPES	COST
	DEMONSTRATION	PILOT	INTERIM	LOW	MODERATE	HIGH		
MARKINGS								
Rubber Tile	●	○	○	●	○	○	P	\$66/3'x3' system
Pedestrian Island	○	●	●	○	○	●	PC, RD, TC	\$3,698/unit
Rubber Roundabout	○	●	●	○	○	●	TC	N/A
Bus Boarding Island	○	●	●	○	○	●	RD, TC, TU	\$22,258
Flexi-Pave	○	●	●	○	○	●	GI	\$10-12/sqft
Wood Tile	○	●	●	○	○	●	P, TU	\$50/unit
PANELS + RAMPS								
ADA Ramp	●	●	○	●	○	○	CE, PC, TC, TU	\$100/unit
Plastic Speed Bump	●	●	○	○	●	○	TC	\$130/unit
Rubber Speed Bump	○	●	●	○	●	○	TC	\$145/unit
Tactile Warning Pad	○	●	●	○	○	●	CE, PC, TC, TU	\$360/unit
Raised Crosswalk	○	●	●	○	○	●	PC, TC	\$9,600/unit
Rubber Speed Cushion	○	●	●	○	○	●	TC	\$2,390/unit

CE - Curb Extensions
 GI - Green Infrastructure
 P - Parklets
 PA - Public Art
 PBL - Protected Bike Lanes
 PC - Pedestrian Crossings
 PL - Plazas
 RD - Road Diet
 SF - Street Furniture
 TC - Traffic Calming
 TU - Transit Upgrades
 WS - Wayfinding / Information Signs

REFERENCE TABLES

SIGNAGE	PROJECT DURATION			INSTALL COMPLEXITY			PROJECT TYPES	COST
	DEMONSTRATION	PILOT	INTERIM	LOW	MODERATE	HIGH		
FREESTANDING								
A-Frame Sign	●	○	○	●	○	○	PL, WS	\$130/unit
Traffic Paint	●	○	○	●	○	○	PBL, PC, RD, TC, WS	\$156/unit
Coroplast Street Sign	●	●	○	●	○	○	CE, GI, PBL, PC, PL, TC, WS	\$29-\$48/unit
Coroplast Lawn Sign	●	●	○	●	○	○	GI, WS	\$29-\$48/unit
Pavement Decal	●	●	○	○	●	○	PC, PL, PU, WS	\$105/unit
Barricade + Jacket	●	●	○	○	●	○	PL, WS	\$95/barricade, \$120/jacket
Banner	●	●	○	○	○	●	PL, WS	\$600/unit
Aluminum Sign	○	●	●	○	●	○	CE, P, PBL, PC, PLC, RD, TC, TU, WS	\$31-200/unit
POSTS + BASES								
U-Channel Post	●	●	●	○	●	○	WS	\$31-200/unit
Quikrete Bucket Base	●	○	○	○	●	○	WS	\$10.28/unit
Post + Brackets	●	●	●	●	○	○	WS	\$98/unit
Rubber Base + Post	●	●	○	●	○	○	WS	\$132/unit
Timber Post	○	●	●	○	●	○	WS	\$20/unit
Concrete Base + Post	○	●	●	●	○	○	WS	\$200/unit

CE - Curb Extensions
 GI - Green Infrastructure
 P - Parklets
 PA - Public Art
 PBL - Protected Bike Lanes
 PC - Pedestrian Crossings
 PL - Plazas
 RD - Road Diet
 SF - Street Furniture
 TC - Traffic Calming
 TU - Transit Upgrades
 WS - Wayfinding / Information Signs

REFERENCE TABLES

STREET FURNITURE	PROJECT DURATION			INSTALL COMPLEXITY			PROJECT TYPES	COST
	DEMONSTRATION	PILOT	INTERIM	LOW	MODERATE	HIGH		
SEATING								
Wood Palette Seating	●	●	○	●	○	○	P, PL, SF	\$34/unit
Stacked Railroad Ties	●	●	●	○	●	○	P, PBL, PL, SF	\$30-\$200/unit
Movable Bistro Set	●	●	○	●	○	○	P, PL, SF	\$100/set
Picnic Table	○	●	○	○	●	○	P, PL, SF	\$575/unit
Adirondack Rack	●	●	○	●	○	○	P, PL, SF	\$84/unit
Cabana Sling Chair	●	●	○	●	○	○	P, PL, SF	\$140/unit
Folding Cushion	●	○	○	●	○	○	P, PL, SF	\$75/unit
Chill Chaise Lounge	○	●	●	○	●	○	P, PL, SF	\$1050/unit
Upholstered Seating	●	○	○	●	○	○	P, PL, SF	\$80-\$100/set
OVERHEAD ELEMENTS								
Umbrellas	●	●	●	●	○	○	P, PL, SF	\$215/unit
String Lights (Plug-in)	●	●	●	○	●	○	P, PL, SF	\$25/unit
String Lights (Solar)	●	●	●	●	○	○	P, PL, SF	\$60/unit
BIKE PARKING								
U-Bike Rack	○	●	●	○	●	○	P, PL, SF	\$190/unit
Bikeep Smart Dock	○	●	●	○	○	●	P, PL, SF	NA
Oonee Mini	○	●	●	○	○	●	P, PL, SF	NA
STORAGE								
Wood Bin	●	●	○	●	○	○	PL, SF	\$450/unit
Bulk Storage	●	●	○	●	○	○	PL, SF	\$807/unit
Roll-Off Container	●	●	○	○	●	○	CE, PL, SF	\$5567/unit
Shipping Container	○	●	●	○	●	○	CE, PL, SF	\$325/unit
CitiBin Sheds	○	●	●	○	●	○	CE, PL, SF	\$2700/unit

CE - Curb Extensions
 GI - Green Infrastructure
 P - Parklets
 PA - Public Art
 PBL - Protected Bike Lanes
 PC - Pedestrian Crossings
 PL - Plazas
 RD - Road Diet
 SF - Street Furniture
 TC - Traffic Calming
 TU - Transit Upgrades
 WS - Wayfinding / Information Signs

