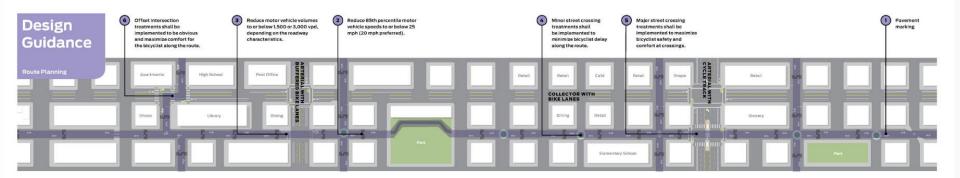
KING STREET BICYCLE BOULEVARD PILOT October 18, 2016



Our Design Objective

- Provide many of the benefits of the proposed final design through interim strategies
- Assess impacts and prove the concept
- Suggest options for review and analyze:

Signs + Pavement Marking	Speed Management				
Volume Management	Minor Street Crossings				
Major Street Crossings	Green Infrastructure				



- Urban Bikeway Design Guide by National Association of City Transportation
 Officials (NACTO)
- Urban Street Design Guide by NACTO
- Wisconsin Bicycle Facility Design Handbook by Wisconsin Department of Transportation (WisDOT)
- Facilities Development Manual (FDM) by WisDOT
- Guide for the Development of Bicycle Facilities by Association of State Highway and Transportation Officials (AASHTO)
- Manual of Uniform Traffic Control Devices (MUTCD) by Federal Highway Administration (FHWA)

Our Design Criteria + Assumptions

- Assume the T.Y. Lin International concept plans have been approved for design (with Alt C at West Avenue)
- Assume a total budget of approximately \$50,000
 - This would likely limit the scope of the project to be from 7th Street to West Avenue
 - Add 16th Street?



- 1. Identify individual permanent elements for each management segment + prioritize their need
- 2. Identify temporary replacements for each permanent element + determine the unit cost
- 3. Identify options for reuse of materials both existing materials for this project and future projects for after this project
- 4. Identify the process for Pilot-to-Permanent (P2P)
- 5. Suggest a Community Engagement Feedback Loop
 - What affects were shifted to other roads and intersections
 - Comments on the pilot design

Segment 1: Mini Traffic Circle



Segment 1: Mini Traffic Circle









Chronicle / Gina Gayle

Segment 1: Mini Traffic Circle

Item #	Item Description	Quantity	Unit	Unit Cost		To	tal Cost
619.1000	Mobilization	1	EACH	\$	301.00	\$	301.00
633.0200	Delineators Flexible	40	EACH	\$	40.00	\$	1,600.00
645.0100	Traffic Control (project)	1	EACH	\$	-	\$	-
646.0106	Pavement Marking Epoxy 4-Inch	400	LF	\$	0.50	\$	200.00
	Plantings	1	LS	\$	2,500.00	\$	2,500.00
				Constru	uction Cost	\$	4,300.00
			Original Design		25%	\$	1,075.00
			CA		5%	\$	215.00
						\$	5,590.00
				Replica	ted Design	\$	537.50

Segment 2: Curb Extensions



Segment 2: Curb Extensions









ISG

Segment 2: Curb Extensions

Item #	Item Description	Quantity	Unit	Unit Cost		То	tal Cost
619.1000	Mobilization	1	EACH	\$	406.00	\$	406.00
633.0200	Delineators Flexible	40	EACH	\$	40.00	\$	1,600.00
645.0100	Traffic Control (project)	1	EACH	\$	-	\$	-
646.0106	Pavement Marking Epoxy 4-Inch	400	LF	\$	0.50	\$	200.00
	Plantings	1	LS	\$	4,000.00	\$	4,000.00
				Constr	uction Cost	\$	5,800.00
			Original Design		40%	\$	2,320.00
			CA		5%	\$	290.00
						\$	8,410.00
				Replica	ited Design	\$	580.00

Segment 3: West Avenue Crossing **«**¢ **«** ≣ KING ST 87 **}**> Alt C: Restrict All Left Turns on West Restrict All Cross Auto Traffic on King Greenway Crossings & Median Refuge (Split)

ISG

Segment 3: West Avenue Crossing

ltem #	Item Description	Quantity	Unit	Unit	Cost	То	tal Cost
619.1000	Mobilization	1	EACH	\$	542.40	\$	542.40
633.0200	Delineators Flexible	130	EACH	\$	40.00	\$	5,200.00
645.0100	Traffic Control (project)	1	EACH	\$ 1,	500.00	\$	1,500.00
646.0106	Pavement Marking Epoxy 4-Inch	1292	LF	\$	0.50	\$	646.00
646.0126	Pavement Marking Epoxy 8-Inch	402.6	LF	\$	1.00	\$	402.60
	Plantings	1	LS	\$5,	000.00	\$	5,000.00
				Cons	struction Co	st \$	12,748.60
			Design		25	%\$	3,187.15
			CA		5	%\$	637.43
						\$	16,573.18



	Quantity	Unit Cost		
West Avenue	1	\$ 12,748.60	\$	12,748.60
Mini Traffic Circle	2	\$ 4,300.00	\$	8,600.00
Curb Extensions	3	\$ 5,800.00	\$	17,400.00
		Construction Cost	\$	38,748.60
		Design		8,279.65
		CA		1,937.43
		Bidding		2,500.00
		ISG Fee		12,717.08
		Total Project Cost	\$	51,465.68

BE EXTRAORDINARY + EXCEPTIONAL







