CITY OF MERCED
Development Services

TO: Bicycle Advisory Commission
FROM: Bill King, Principal Planner
DATE: April 23, 2013
SUBJECT: 2013 Bicycle Transportation Plan Project Prioritization

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ACTION REQUIRED:

Recommendation to Staff on the draft prioritization of bike facility projects in the draft 2013 Bicycle Transportation Plan

BACKGROUND

On Tuesday, March 26, 2013, the Bicycle Advisory Commission (BAC) met to discuss topics pertaining to the prioritization process for the recommended bike facility projects. The BAC was asked to complete a scoring sheet for the project objectives and asked to score the objectives on a scale of 1-5 (5 representing the highest value) to help guide City Staff determine project ranking factors for use in scoring all proposed bicycle projects. The resulting BAC scores are listed for each objective below:

Bike Facility Project Objectives	Scores
• Enhance Existing System	4.3
• Project Readiness	3.7
• Connection to Activity Centers	2.6
• Transit Access/ Support Facilities	2.3
• Safety	2.1

The Bike Facility Project Ranking factors were adjusted based on the recommendations from the BAC, and appear in the *Project Ranking Worksheet*, Table F.1 (Attachment A).

PRIORITIZATION PROCESS

A total of 100 bike facility projects are included in the draft *City of Merced 2013 Bicycle Transportation Plan*. These projects range from those currently “in process” to others that will be constructed when urban development, such as subdivisions, commercial, and industrial developments. Several projects are located in the county. Since development of all these projects is unlikely to occur during the 5-year life of the plan, Staff identified those projects that do not need to be prioritized at this time. 55 projects were prioritized (Attachment B).

All projects are listed in Attachment B. This list would be a tool used by City Staff to identify likely bike facility projects to improve during the 5-year life of the plan. The actual selection of projects will be driven by several factors including grant specific objectives, available funds, and project readiness.

ADJUSTMENT OF THE PRIORITIZATION RESULTS

While the approach to prioritize projects quantitatively helped to order a large number of projects, Staff seeks a qualitative approach to finalize the prioritization of the projects. Please review the entire list of projects and identify those projects that may not have scored high, but may be worthy of consideration and recommendation by the BAC to be placed into the list of top scoring projects. Staff is not asking that the quantified approach be redone, however.

ACTION

Recommend approval of the prioritization list, along with related appendices, and to recommend adjustments where appropriate.

Attachments

A. Project Prioritization, BTP Appendix F
B. Comprehensive List of all Proposed Bike Facility Projects, BTP Appendix E

Appendix F

Project Prioritization

Table F.1: Project Ranking Worksheet		
Objectives	**Project Ranking Factors**	**Factor Value**
Connection to Activity Centers	Provide access to local and regional centers with high bicycle traffic (School, major shopping centers, major employment centers, etc.)	1.0
	Fills in void for areas that do not provide bikeway to: libraries, schools, parks and recreational facilities, downtown, etc.	1.2
	Provide direct access routes (Schools, employment centers, shopping centers, library, parks, etc.)	0.4
	Sub Total	*2.6*
Safety	Improves bikeways in areas of high or potential collisions	1.1
	Improves bikeways in areas of high population/ high industrial density	0.3
	Eliminates existing barriers	0.7
	Sub Total	*2.1*
Enhances Existing System	Improves existing floor markings or postage signs	2.1
	Connects to existing or proposed bikeways in the City or County.	0.8
	Bridging gaps in existing bikeways	1.4
	Sub Total	*4.3*
Transit Access / Support Facilities	Provide connection to public Transportation systems (Cattracks, The Bus , Amtrak, YARTS, etc.)	0.5
	Provide and connects to support facilities (bike racks, public restrooms, showers, drinking fountains, undercrossings, etc.)	1.8
	Sub Total	*2.3*
Project Readiness	Environmental Review documents are completed or are minimal	1.0
	Projects is not affected by related but separate infrastructure needs	2.2
	Necessary collaboration agreements have been obtained	0.5
	Sub Total	*3.7*
	Total (Highest) Possible Score	**15**

Appendix E
Comprehensive List of all Proposed Bike Facility Projects

ATTACHMENT B

#	Roadway	From	To	Location	Project Types	Priority	Length (mi)	Conceptual Cost	Scenario Factor
40	**13th Street**	V St.	O St.	City	BL-(Rest)	15	.8		
22	**East side on G Street**	Bellevue Rd.	Mercy Ave.	City/R	BL-(Rest)	14	1.36		
21	**M Street**	M Circle	Barclay Way	City	BL	12.9	.2		
28	**East side on McKee Road**	Yosemite Ave.	Black Rascal Creek Path	City	BL	11.4	.6		
39	**14th Street**	V St.	G St.	City	BL	10.3	1.4		
31	**Olive Avenue**	R St.	Hwy 59	City	BL	10	1		
27	**Parsons Avenue**	27th St.	Yosemite Pkwy.	City	BL	9.8	.7		
50	**Childs Avenue**	Carol Ave.	Tower Rd.	City/R	BL	9.7	2.25		
60b	**Gerard Avenue**	Coffee	Tower Rd.	City	BL	9.7	1		
26b	**Parsons Avenue**	Marie	Olive	City	BL	9.4	--		
56	**G Street**	Childs Ave.	Mission Ave.	City	BL	9.4	1		
18a	**Bellevue Road**	G St.	Barclay Ave	City/R	BL	9.4	.25		
18b	**Bellevue Road**	Barclay Ave.	M St.	City/R	BL	9.4	.25		
72	**O St**	8th St.	N. Bear Ck. Dr.	City	BB	9.3	1.48		
30	**McKee Road**	27th St.	Santa Fe Ave	County	BL	9.3	.5		
19	**Barclay Way**	M St.	Bellevue Rd	City	BL	9.2	.57		
41	**Yosemite Parkway**	Main St.	Baker Dr.	City/R	BL	8.8	1.3		

34	**Highway 59**	16th St.	Olive Ave.	City/R	BL	8.7	.8
90	**Collector Street BL** [1]	Select Locations	Select Locations	City	BL	8.5	10
26d	**Parsons Avenue**	Brookdale	Yosemite Ave	City	BL	8.1	--
20	**Bancroft Drive**	Cardella Rd.	Barclay Way	City	BL	8	.69
26a	**Parsons Avenue**	North Bear Creek	Marie	City	BL	8	--
36	**Santa Fe Drive**	McKee Rd.	G St.	City	BL	7.9	1.7
63	**Coffee St.**	Childs Ave.	Gerard Ave.	City	BL	7.5	.5
60a	**Gerard Avenue**	Parsons Ave.	Coffee	City	BL	7.5	1
65	**Mission Avenue**	Hwy 59	Tyler Rd.	City/R	BL	7.1	1
73	**Canal Street**	Childs Ave.	26th St.	City	BB	7	1.82
35	**Cooper Avenue**	Ashby Rd.	Hwy 59	City	BL	7	1
86	**Bellevue Rd. & Lake Rd.**	NA	NA	County	Safe-Crossing	6.9	NA
87	**Green St & Santa Fe Dr.**	NA	NA	City	Undercross	6.6	NA
37	**Ashby Road**	Cooper Ave.	16th St.	City	BL	6.6	.7
42	**Wardrobe Ave.**	Thornton Rd.	West Ave.	City	BL	6.6	1
38	**16th Street**	Ashby Rd.	G St.	City/R	BL	6.5	2
52	**West Avenue**	Childs Ave.	South city limits	City	BL	6.3	.5

53	**R Street**	Childs Ave.	South city limits	City	BL	6.3	.75
85	**G St. & Cottonwood Creek**	NA	NA	City	Undercross	6.2	NA
3	**G Street**	Cottonwood Creek	Cottonwood Creek	City	Undercross	6.2	NA
32	**Olive Avenue**	G St.	Larkspur Ave.	City	BL	6.2	1.6
29	**McKee Road**	Black Rascal Creek	Olive Ave.	City	BL	6	.4
26c	**Parsons Avenue**	Olive	Brookdale	City	BL	5.9	--
25	**Gardner Avenue**	Cardella Rd.	Yosemite Ave.	City/R	BL	5.8	.5
95	**Bike Access to Sidewalks** [5]	NA	NA	City	Sidewalk Ramps	5.8	50 items
54	**M Street**	Childs Ave.	Mission Ave.	City	BL	5.7	1
88	**Lake Rd. & Yosemite Ave.**	NA	NA	County	Undercross	5.6	NA
89	**Glen Ave & Bear Creek**	NA	NA	County	PB-Bridge	5.2	NA
84	**Black Rascal Creek & McKee Rd.**	NA	NA	City	Safe-Crossing	5.1	NA
91	**Traffic Signal Sensors** [2]	Select Locations	Select Locations	City	Traffic Signal Sensors	4.8	15 items
58	**Gerard Ave.**	M St.	Barroso Ave.	City	BL	4.5	1.25
92	**Way finding signs** [3]	Select Locations	Select Locations	City	Way finding signs	4	30 items
93	**Employee Cycling**	NA	NA	City	Employee Cycling	4.2	NA

	Program [4]				Program		
94	**Gerard Ave. & Hwy. 59**	NA	NA	County	Traffic Signal	4.1	1 item
17	**Bear Creek**	16th St.	Massasso St.	City	Path	4.1	----
51	**Thornton Road**	Wardrobe Ave.	Dickenson Ferry	City	BL	3.7	1
67	**Mission Avenue**	Coffee St.	Tower Rd.	City	BL	3.7	1.5
83	**Parsons Ave. & Bear Creek**	NA	NA	County	Undercross/ V-Bridge	2.7	NA
1	**Fahrens Creek**	Heitz Ct.	Bellevue Rd.	City	Path-(Dev)	NP	1.21
2	**Fahrens Creek**	Bellevue Rd.	Old Lake Rd.	City/R	Path-(Dev)	NP	1.46
4	**PG&E Corridor**	G St.	Bandoni Pond	City	Path-(Dev)	NP	.49
5	**PG&E Corridor**	N. Gardner Ave	G St.	City	Path-(Dev)	NP	1.48
6	**PG &E Power-Lines**	El Capitan High School	Nevada St.	City	Path-(Dev)	NP	1.19
7	**Campus Parkway**	Yosemite Ave.	Hwy 140	County/ R	Path-(Dev)	NP	2.56
8	**Campus Parkway**	Hwy 140	Childs Ave.	City/R	Path-(Dev)	NP	.49
9	**Black Rascal Creek**	Yosemite Ave.	Mariner Way	City/R	Path (IP)	NP	.8
10	**Black rascal Creek**	Lake Rd. (Extended)	Campus Pkwy	County	Path-(Dev)	NP	.44
11	**North Bear Creek**	16th St.	25th St.	City/R	Path (IP)	NP	.77
12	**Merced Avenue**	Parsons Ave.	City limit line	City	Path-(Dev)	NP	.37

13	**Merced Avenue**	City limit line	Coffee St.	County	Path-(Dev)	NP	.62
14	**South of Gerard Avenue**	South R St. and Stuart Ave.	Hwy 59	County	Path-(Dev)	NP	1.2
15	**South of Gerard Avenue**	Hwy 59	Tyler Rd.	City	Path-(Dev)	NP	1.02
16	**South Of Gerard Avenue**	Tyler Rd.	Frontage Rd.	County	Path-(Dev)	NP	1.7
23	**Golf Road**	Old Lake Rd.	Bellevue Rd.	County	BL	NP	1
24	**Gardner Avenue**	Bellevue Rd..	Cardella Rd	County/ R	BL	NP	1
33	**Olive Avenue**	Larkspur Ave.	Campus Pkwy.	County	BL	NP	.9
43	**West Avenue**	Childs Ave.	Wardrobe Ave	City	BL (Rest-IP)	NP	.5
44	**R Street**	Childs Ave.	19th St.	City	BL (Rest-IP)	NP	1.4
45	**M Street**	11th St.	21st St.	City	BL (Rest-IP)	NP	.8
46	**G Street**	11th St.	21th St.	City	BL (Rest-IP)	NP	.8
47	**11th Street**	V St.	M St.	City	BL (IP)	NP	.8
48	**11th Street**	MLK Jr. Way	G St.	City	BL (IP)	NP	.3
49	**Childs Avenue**	Delong St.	Hwy 99	County	BL	NP	.5
55	**S. Hwy 59**	Childs Ave.	Mission Ave.	County	BL	NP	1
57	**Tyler Road**	Childs Ave.	Mission Ave.	County	BL	NP	1
59	**Gerard Avenue**	Barroso Ave	Frontage Rd.	County	BL	NP	1.4

61	**Henry Street**	Gerard Ave.	Mission Ave.	County	BL	NP	.5
62	**Grogan Avenue**	Macready Dr.	West Ave.	City	BL- (IP)	NP	.5
64	**Mission Avenue**	M St.	Hwy. 59	County/ R	BL	NP	.3
66	**Mission Avenue**	Tyler Rd.	Frontage Rd.	County/ R	BL	NP	1.6
68	**Alternatives to 16th Street**	TBD	TBD	City	Study Area	NP	
69	**Alternatives to Olive Avenue**	TBD	TBD	City	Study Area	NP	
70	**North Area Access to GVHS**	TBD	TBD	City	Study Area	NP	
71	**M Street**	16th St.	18th St.	City	BR (Rest-IP)	NP	.15
74	**West Avenue**	X St	Wardrobe Ave.	City	SW (IP)	NP	.44
75	**Childs Avenue**	West Ave.	D St.	City	SW (IP)	NP	1.64
76	**Childs Avenue**	Delong St.	Brantley St.	County	SW (IP)	NP	.25
77	**M Street**	Childs Ave.	11th St.	City	SW (IP)	NP	.57
78	**G Street**	Childs Ave.	11th St.	City	SW (IP)	NP	.32
79	**8th Street**	West Ave.	MLK Jr. Way	City	SW (IP)	NP	1.2
80	**11th Street**	X St.	V St.	City	SW (IP)	NP	.18
81	**11th Street**	M St.	MLK Jr. Way	City	SW (IP)	NP	.27
82	**11th Street**	G St.	D St.	City	SW (IP)	NP	.27

Table Key

Project Types	Meaning
Path	Bike Path (Class I)
“BL”	Bike Lane (Class II)
“BR”	Bike Route (Class III)
“SW”	Sharrow
“BB”	Bicycle Boulevard
PB-Bridge / V-Bridge	Pedestrian and Bicycle Bridge / Vehicular Bridge
Undercross and Overpass	A proposed crossing of a highway, road, railroad, canal, or river through a lower level or a bridge for continuity for a Class I, II, or III bikeway system.
Safe Crossing	A proposed crossing of a highway, road, railroad, canal, or river through a lower level, a bridge, or at grade crossing for continuity of a Class I, II, or III bikeway system.
Employee Cycling Program [4]	Workplace program where the focus is to establish safe, secure, and cover bike parking, showers, and lockers.
Restoration (Rest)	Proposed restoration of an existing Class I, Class III, or Class III bikeway.
Way Finding Signs [3]	Placing signs around Merced’s City limit that indicate where bikeways are located.
Collector Street Bike Lanes [1]	The City will work on striping 10 miles of collector streets that are wide enough to fit bike lanes.
Study Area	Areas being evaluated for proposed bikeway systems to be incorporated.
Traffic Signal Sensors [2]	Incorporate detectable bicycle sensors throughout the city limits.
Development (Dev)	These bike facilities will most likely be constructed as part of a future development project, or with major new road construction.
“IP”	In-Process Bikeway Project
“R”	Regional Projects

NOTES:

COUNTY: For projects marked as being located in the County, collaborating with Merced County to develop bikeways of mutual interest will be emphasized during the implementation phase of the plan, particularly to improve regional bikeways located between the Merced City Limits and its Sphere of Influence on high-demand bikeways, such as those that exist between the City and UC Merced and other significant bicycle commuter populations.

NP: Many projects are marked NP ("Not Prioritized") in this table due to several factors, including: (1) projects are "In-Process", meaning that they are being worked-on to implement; (2) the projects are in the county; or (3) the projects will most likely be constructed as part of a future development project (Dev), or with major new road construction. Forty-five projects were not prioritized.

Tally Table

Bikeways	Number of Projects
Class I	17
Class II	58
Class III	1
Bicycle Boulevard	2
Sharrows	9
Support Facility	13
Total	100