

APPENDIX C

Trail Segment Costs

TYPE Trail ii-Use Paved Path (Class I) (12' paved): moderate terrain, drainage, utilities ii-Use Paved Path (Class I) (12' paved): difficult terrain, retaining walls, drainage, utilities ii-Use Paved Path (Class I)/Unpaved Path (12' paved, with 6' DG path): moderate terrain, drainage, utilities SUBTOT Stal Trail ii-Use Paved Path (Class I) (12' paved): moderate terrain, drainage, utilities ii-Use Paved Path (Class I) (12' paved): difficult terrain, retaining walls, drainage, utilities aved Trail (native soil); 6' - 8' wide, level terrain aved Trail (native soil); 10' - 12' wide on existing road Il Bike Lanes Ill Bike Route, wayfinding signage SUBTOT ge Structures iffed Existing Bridge Pre-Engineered Bridge SUBTOT	LF L	\$162 \$405 \$180 \$180 \$180 \$180 \$111 \$20 \$6	5,600 Qty. 0 800 200 4,600 5,600	\$5,600 \$2,200 \$27,600	25,170 Qty.	Total \$0	Qty.	F / 1.11 MI Total \$0 \$950,940	7,300 L Qty. 3,520 3,520 3,780	Total \$570,240 \$570,240 \$612,360	7,470 L Qty.	Total \$0	4,510 L Qty.	Total \$
Trail it-Use Paved Path (Class I) (12' paved): moderate terrain, drainage, utilities it-Use Paved Path (Class I) (12' paved): difficult terrain, retaining walls, drainage, utilities it-Use Paved (Class I)/Unpaved Path (12' paved, with 6' DG path): moderate terrain, drainage, utilities SUBTOT Stal Trail it-Use Paved Path (Class I) (12' paved): moderate terrain, drainage, utilities it-Use Paved Path (Class I) (12' paved): difficult terrain, retaining walls, drainage, utilities aved Trail (native soil); 6' - 8' wide, level terrain aved Trail (native soil); 10' - 12' wide on existing road Il Bike Lanes Il Bike Route, wayfinding signage SUBTOT ge Structures iffed Existing Bridge Pre-Engineered Bridge SUBTOT	LF AL	\$162 \$405 \$180 \$162 \$405 \$7 \$11 \$20 \$6	800 200 4,600	\$5,600 \$2,200 \$27,600			0	\$0	3,520 3,520	\$570,240 \$570,240				
ii-Use Paved Path (Class I) (12' paved): moderate terrain, drainage, utilities ii-Use Paved Path (Class I) (12' paved): difficult terrain, retaining walls, drainage, utilities ii-Use Paved (Class I)/Unpaved Path (12' paved, with 6' DG path): moderate terrain, drainage, utilities SUBTOT stal Trail ii-Use Paved Path (Class I) (12' paved): moderate terrain, drainage, utilities ii-Use Paved Path (Class I) (12' paved): difficult terrain, drainage, utilities ii-Use Paved Path (Class I) (12' paved): difficult terrain, retaining walls, drainage, utilities aved Trail (native soil); 6' - 8' wide, level terrain aved Trail (native soil); 10' - 12' wide on existing road Il Bike Lanes Il Bike Route, wayfinding signage SUBTOT ge Structures iffed Existing Bridge Pre-Engineered Bridge SUBTOT	LF AL	\$405 \$180 \$162 \$405 \$7 \$11 \$20 \$6	800 200 4,600	\$5,600 \$2,200 \$27,600	0	\$0			3,520	\$570,240	0	\$0	0	\$
ai-Use Paved Path (Class I) (12' paved): difficult terrain, retaining walls, drainage, utilities ii-Use Paved (Class I)/Unpaved Path (12' paved, with 6' DG path): moderate terrain, drainage, utilities SUBTOT stal Trail ii-Use Paved Path (Class I) (12' paved): moderate terrain, drainage, utilities ii-Use Paved Path (Class I) (12' paved): difficult terrain, retaining walls, drainage, utilities aved Trail (native soil); 6' - 8' wide, level terrain aved Trail (native soil); 10' - 12' wide on existing road II Bike Lanes III Bike Route, wayfinding signage SUBTOT ge Structures iffed Existing Bridge Pre-Engineered Bridge SUBTOT	LF AL	\$405 \$180 \$162 \$405 \$7 \$11 \$20 \$6	800 200 4,600	\$5,600 \$2,200 \$27,600	0	\$0			3,520	\$570,240	0	\$0	0	\$
stal Trail i	LF LF LF LF LF LF LF AL EA EA	\$180 \$162 \$405 \$7 \$11 \$20 \$6	800 200 4,600	\$5,600 \$2,200 \$27,600	0	\$0					0	\$0	0	\$
SUBTOT stal Trail i-Use Paved Path (Class I) (12' paved): moderate terrain, drainage, utilities i-Use Paved Path (Class I) (12' paved): difficult terrain, retaining walls, drainage, utilities aved Trail (native soill); 6' - 8' wide, level terrain aved Trail (native soill); 10' - 12' wide on existing road il Bike Lanes il Bike Route, wayfinding signage SUBTOT ge Structures ified Existing Bridge Pre-Engineered Bridge SUBTOT I Amenities	LF LF LF LF LF LF LF AL EA	\$162 \$405 \$7 \$11 \$20 \$6	800 200 4,600	\$5,600 \$2,200 \$27,600	0	\$0					0	\$0	0	Ş
stal Trail ii-Use Paved Path (Class I) (12' paved): moderate terrain, drainage, utilities ii-Use Paved Path (Class I) (12' paved): difficult terrain, retaining walls, drainage, utilities aved Trail (native soil); 6' - 8' wide, level terrain aved Trail (native soil); 10' - 12' wide on existing road Il Bike Lanes Il Bike Route, wayfinding signage SUBTOT ge Structures iffed Existing Bridge Pre-Engineered Bridge SUBTOT I Amenities	LF LF LF LF LF LF AL	\$405 \$7 \$11 \$20 \$6	800 200 4,600	\$5,600 \$2,200 \$27,600		\$0						\$0	0	;
ii-Use Paved Path (Class I) (12' paved): moderate terrain, drainage, utilities ii-Use Paved Path (Class I) (12' paved): difficult terrain, retaining walls, drainage, utilities aved Trail (native soil); 6' - 8' wide, level terrain aved Trail (native soil); 10' - 12' wide on existing road II Bike Lanes III Bike Route, wayfinding signage SUBTOT ge Structures iffed Existing Bridge Pre-Engineered Bridge SUBTOT I Amenities	LF LF LF LF AL EA	\$405 \$7 \$11 \$20 \$6	4,600	\$2,200 \$27,600			5,870	\$950,940	3,780	\$612,360				
i-Use Paved Path (Class I) (12' paved): difficult terrain, retaining walls, drainage, utilities aved Trail (native soil); 6' - 8' wide, level terrain aved Trail (native soil); 10' - 12' wide on existing road Il Bike Lanes Il Bike Route, wayfinding signage SUBTOT ge Structures iffed Existing Bridge Pre-Engineered Bridge SUBTOT I Amenities	LF LF LF LF AL EA	\$405 \$7 \$11 \$20 \$6	4,600	\$2,200 \$27,600			5,870	\$950,940	3,780	\$612,360				
aved Trail (native soil); 6' - 8' wide, level terrain aved Trail (native soil); 10' - 12' wide on existing road Il Bike Lanes Il Bike Route, wayfinding signage SUBTOT ge Structures iffed Existing Bridge Pre-Engineered Bridge SUBTOT I Amenities	LF LF LF LF AL	\$7 \$11 \$20 \$6	4,600	\$2,200 \$27,600										
aved Trail (native soil); 10' - 12' wide on existing road Il Bike Lanes Ill Bike Route, wayfinding signage SUBTOT [ge Structures Iffed Existing Bridge Pre-Engineered Bridge SUBTOT I Amenities	LF LF LF AL EA	\$11 \$20 \$6	4,600	\$2,200 \$27,600							7.470	ć=2 200		
Il Bike Lanes Il Bike Route, wayfinding signage SUBTOT ge Structures Iffed Existing Bridge Pre-Engineered Bridge SUBTOT I Amenities	LF LF AL EA	\$20 \$6	4,600	\$27,600							7,470	\$52,290		
Ill Bike Route, wayfinding signage SUBTOT ge Structures ified Existing Bridge Pre-Engineered Bridge SUBTOT	LF AL EA EA	\$6												4000
ge Structures ified Existing Bridge Pre-Engineered Bridge SUBTOT I Amenities	EA EA				0 = 4 = 0	4.5.000							4,510	\$90,20
ge Structures ified Existing Bridge Pre-Engineered Bridge SUBTOT	EA EA	Varies	5,600	535 /100	25,170	\$151,020								
Free-Engineered Bridge Pre-Engineered Bridge SUBTOT I Amenities	EA	Varies		\$33, 4 00	25,170	\$151,020	5,870	\$950,940	3,780	\$612,360	7,470	\$52,290	4,510	\$90,20
Pre-Engineered Bridge SUBTOT I Amenities	EA	Varies	_			ı								
SUBTOT I Amenities	_													
Amenities	AL	Varies	5				1	\$400,000						
			0	\$0	0	\$0	1	\$400,000	0	\$0	0	\$0	0	
head signage	EA	\$4,000	1	\$4,000	2	\$8,000								
pretive signage	EA	\$500	3	\$1,500	2	\$1,000								
finding signage	Allow/Mil	e \$2,500	1.1	\$2,750	5.0	\$12,500	1.1	\$2,750	1.4	\$3,500				
rgency locator system signage (rail trail only)	Allow/Mil	e \$3,000	1.1	\$3,300	5.0	\$15,000	1.1	\$3,300	1.4	\$4,200				
rack	EA	\$1,000	2	\$2,000	2	\$2,000								
th control of the con	EA	\$1,500	2	\$3,000	2	\$3,000	1	\$1,500						
e structure with bench	EA	\$15,000	1	\$15,000										
ing	LF	\$40					5,883	\$235,320	2,640	\$105,600				
ing (at bridges/crossings within urban segments)	Each Xing	\$25,000												
room	EA	\$30,000												
SUBTOT	AL			\$31,550		\$41,500		\$242,870		\$113,300		\$0		,
ring Area Access														
head, small (10 cars)	EA	\$30,000)											
head, medium (20 cars), portable restroom	EA	\$50,000)											
head, large (30 cars), restroom, drinking fountain	EA	\$80,000)											
SUBTOT	AL		0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	,
Track and Street Crossings														
A: Tie into railroad control cab, ped gates, barriers, roadway treatments	EA	\$250,000												
B: Traffic signal modication with new crosswalk, ped equipment, loops, striping	EA	\$50,000												
C: HAWK including all elec and striping/signing	EA	\$150,000							1	\$150,000				
D: Active Enhanced Midblock, either IRWL or overhead, ppb, yield marks, signs, path controls	EA	\$100,000												
E: Passive Enhanced Midblock, with yield marks, signs, crosswalk, path controls	EA	\$25,000												
F: Standard Midblock with signs, crosswalk, path controls	EA	\$20,000							2	\$40,000				
G: Traffic Calming Measures, medians or curb extensions, warning signs, crosswalk	EA	\$80,000												
H: Connection Facilities, with redirected path to ex xwalk and bike lanes or sharrows	EA	\$60,000												
I: Rail xing w/out rr signal mods, with barriers at tracks/path, roadway xing signs/markings, path yields	EA	\$40,000							1	\$40,000				
J: Standard Private Crossing, with stops for local road crossing and path yield signs or marks*	EA	\$10,000							1	\$10,000				
SUBTOT	AL		0	\$0	0	\$0	0	\$0	5	\$240,000	0	\$0	0	
: *The maps show PUC designated crossings and may not reflect all private crossings.			SE	3MENT 1	SEC	GMENT 2	SEG	IMENT 3	SEG	MENT 4	SEGN	ΛΕΝΤ 4A	SEGN	1ENT 4B
				TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL
	SEGIV	IENT TOTALS		\$66,950		\$192,520		\$1,593,810	_	\$1,535,900	l -	\$52,290	17/2	\$90,2
CONSTRI	JCTION CO	ST TOTAL		\$66,950		\$192,520	¢	1,593,810	¢	1,535,900	i	\$52,290	8/2	\$90,20
DESIGN, ENGI							Ť		7		 	100 4 7 00 000	F. 2585	\$13,5
				\$10,043		\$28,878		\$239,072		\$230,385		\$7,844		
ENVIRONM	ENTAL PERMI	TTING (10%)		\$6,695		\$19,252		\$159,381		\$153,590		\$5,229		\$9,
CONSTRUCT	ION MANAGE	MENT (15%)		\$10,043		\$28,878		\$239,072		\$230,385		\$7,844		\$13,
	CONTING	GENCY (20%)		\$13,390		\$38,504		\$318,762		\$307,180		\$10,458		\$18,0
COMBINED CONSTRUCTION/S				\$107,120		\$308,032	ć	2,550,096	ć	2,457,440		\$83,664		\$144,32
SEGMENT AGO				3107,120 107,120		308,032		550,096	Ş	2,437,440	<u> </u>	\$5,424		,144,32

MBSST Network: Master Plan

MBSST Network: Master Plan			CEC	NACNIT C 4	CEC	AFNIT F 2	I cro	NACNIT C 2	CEC	NACNIT CA	CECN	ACNIT CD	CEC	ACNT CC	CEC	ACNT CD	CEC	NACNIT CC	CEC	N 4 E N I T E E
COST ESTIMATE - ALL SEGMENTS				MENT 5.1		MENT 5.2	SEGMENT 5.3		SEGMENT 5A					MENT 5C	SEGMENT 5D		SEGMENT 5E			MENT 5F
9-Oct-2013	SEGMI	ENT LENGTH	7,890	LF / 1.49 MI	13,630	LF / 2.58 MI	18,520	LF / 3.51 MI	580 L	LF / 0.11 MI	3,390 L	F / 0.64 MI	2,710 L	F / 0.51 MI	7,280	LF / 1.38 MI	11 1,150 LF / 0.22 MI		570 L	.F / 0.11 MI
ТҮРЕ	UNIT	COST	Qty.	Total	Qty.	Total	Qty.	Total	Qty.	Total	Qty.	Total	Qty.	Total	Qty.	Total	Qty.	Total	Qty.	Total
Rail Trail	_																			
Multi-Use Paved Path (Class I) (12' paved): moderate terrain, drainage, utilities	LF	\$162	7,890	\$1,278,180	13,630	\$2,208,060	18,520	\$3,000,240							\blacksquare					
Multi-Use Paved Path (Class I) (12' paved): difficult terrain, retaining walls, drainage, utilities	LF	\$405													-					
Multi-Use Paved (Class I)/Unpaved Path (12' paved, with 6' DG path): moderate terrain, drainage, utilities	LF .	\$180	7.000	Å4 270 400	42.620	42 200 000	40.530	Å2 000 240		40		40		40	پ	40		40		
SUBTOTA Coastal Trail	L		7,890	\$1,278,180	13,630	\$2,208,060	18,520	\$3,000,240	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$
Multi-Use Paved Path (Class I) (12' paved): moderate terrain, drainage, utilities	LF	\$162																		
Multi-Use Paved Path (Class I) (12' paved): indertact terrain, retaining walls, drainage, utilities	LF	\$405																		
Unpaved Trail (native soil); 6' - 8' wide, level terrain	LF	\$7							580	\$4,060	3,390	\$23,730	2,710	\$18,970	7,820	\$54,740	1,150	\$8,050	570	\$3,99
Unpaved Trail (native soil); 10' - 12' wide on existing road	LF	\$11							500	\$ 1,000	3,330	Ų23,730	2,710	Ų10,370	7,020	ψ3 1,7 10	1,150	ψο,σσσ	370	43,33
Class II Bike Lanes	LF	\$20																		
Class III Bike Route, wayfinding signage	LF	\$6																		
SUBTOTA	-		0	\$0	0	\$0	0	\$0	580	\$4,060	3,390	\$23,730	2,710	\$18,970	7,820	\$54,740	1,150	\$8,050	570	\$3,99
Bridge Structures										. ,		. ,								
Modified Existing Bridge	EA	Varies																		
New Pre-Engineered Bridge	EA	Varies																		
SUBTOTA	L		0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$1
Trail Amenities																				
Trailhead signage	EA	\$4,000	1	\$4,000	1	\$4,000	2	\$8,000												
Interpretive signage	EA	\$500			2	\$1,000	3	\$1,500												
Wayfinding signage	Allow/Mile	\$2,500	1.5	\$3,750	2.6	\$6,500	3.5	\$8,750												
Emergency locator system signage (rail trail only)	Allow/Mile	\$3,000	1.5	\$4,500	2.6	\$7,800	3.5	\$10,500												
Bike rack	EA	\$1,000	2	\$2,000	2	\$2,000	4	\$4,000												
Bench	EA	\$1,500	3	\$4,500	4	\$6,000	3	\$4,500												
Shade structure with bench	EA	\$15,000																		
Fencing	LF	\$40			13,628	\$545,120	18,520	\$740,800	1											
Lighting (at bridges/crossings within urban segments)	Each Xing	\$25,000																		
Restroom	EA	\$30,000																		
SUBTOTA	L			\$18,750		\$572,420		\$778,050		\$0		\$0		\$0		\$0		\$0		\$1
Staging Area Access	_																			
Trailhead, small (10 cars)	EA	\$30,000																		
Trailhead, medium (20 cars), portable restroom	EA	\$50,000																		
Trailhead, large (30 cars), restroom, drinking fountain	EA	\$80,000													ldot					
SUBTOTA	L		0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$1
Rail Track and Street Crossings																				
Type A: Tie into railroad control cab, ped gates, barriers,roadway treatments	EA	\$250,000	3	\$750,000	1	\$250,000	1	\$250,000							\blacksquare					
Type B: Traffic signal modication with new crosswalk, ped equipment, loops, striping	EA	\$50,000													-					
Type C: HAWK including all elec and striping/signing	EA	\$150,000													-					
Type D: Active Enhanced Midblock, either IRWL or overhead, ppb, yield marks, signs, path controls	EA	\$100,000													-					
Type E: Passive Enhanced Midblock, with yield marks, signs, crosswalk, path controls	EA	\$25,000													-					
Type F: Standard Midblock with signs, crosswalk, path controls	EA	\$20,000	-												\vdash					
Type G: Traffic Calming Measures, medians or curb extensions, warning signs, crosswalk	EA EA	\$80,000													\vdash					
Type H: Connection Facilities, with redirected path to ex xwalk and bike lanes or sharrows Type I: Rail xing w/out rr signal mods, with barriers at tracks/path, roadway xing signs/markings, path yields	EA	\$40,000													\vdash					
Type 1: Standard Private Crossing, with stops for local road crossing and path yield signs or marks*	EA	\$10,000	1	\$10,000	3	\$30,000	12	\$120,000							\vdash					
SUBTOTA		\$10,000	4		4				0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	Ś
Note: *The maps show PUC designated crossings and may not reflect all private crossings.	-	ı		MENT 5.1		MENT 5.2		MENT 5.3	_	MENT 5A	SEGN	MENT 5B		MENT 5C		MENT 5D		MENT 5E		MENT 5F
, , , , , , , , , , , , , , , , , , ,			520	TOTAL	520	TOTAL	520	TOTAL	320	TOTAL	5201	TOTAL	3201	TOTAL	320	TOTAL	520	TOTAL	520	TOTAL
	SEGME	ENT TOTALS		\$2,056,930	1 .	\$3,060,480	1	\$4,148,290	1	\$4,060	1 -	\$23,730	1 -	\$18,970		\$54,740	1 .	\$8,050	1	\$3,99
CONSTRUC				\$2,056,930		3,060,480	-	34,148,290		\$4,060		\$23,730		\$18,970		\$54,740		\$8,050		\$3,990
			- \$		>		1													
DESIGN, ENGIN				\$308,540		\$459,072		\$622,244		\$609		\$3,560		\$2,846		\$8,211		\$1,208		\$59
ENVIRONME	NTAL PERMIT	TING (10%)		\$205,693		\$306,048	3	\$414,829		\$406		\$2,373		\$1,897		\$5,474		\$805		\$39
CONSTRUCTION	ON MANAGEN	MENT (15%)		\$308,540		\$459,072	2	\$622,244		\$609		\$3,560		\$2,846		\$8,211		\$1,208		\$59
												\$4,746		\$3,794		\$10,948		\$1,610		\$79
	CONTING	ENCY (20%)		5411.386		5612.096		5829.658												
COMBINED CONSTRUCTION/SU	CONTING			\$411,386	ć	\$612,096	-	\$829,658		\$812					\vdash					
COMBINED CONSTRUCTION/SU SEGMENT AGGI	PPORT CO	ST TOTAL		\$411,386	\$	\$4,896,768	-	\$6,637,264		\$6,496		\$37,968 06,784		\$30,352		\$87,584		\$12,880		\$6,384

EAR \$50.00	Qty. Total Qty.
Maint-lane Mai	500
Make 1 to the work of the Class 112 properly immedirent terrain, drainings, utilities F S100	750
Multi-Sub-Payed Pilot (Case) 112 passed) official for incompanies, driving with (Case) 112 passed) official for incompanies with moderate terrain, driving with (Case) 112 passed pilot (Case) 1	750
Multi-Like Pawed (Pame) Like Li	
Substitution Subs	250 0 \$0 0
Control Cont	
Wild-Live Pawed Path (Cases) (12 pawed) difficult terrain, retaining walls, drainage, utilities LF \$405	
Unproved Trail (parties coli); 6"-6" a wide, leven fear rain improved Trail (parties coli); 6"-12" wide on ensisting road LF S11 57 50 50 57,370 50 50 50 50 50 50 50	
Unpawed Frail (narries (soil)) 10 - 12 winde on existing road IF Sail S	
Class Bible Lances	
Class III like Noote, wayfinding spraage	
Subtroid	
Bridge Structures EA Varies	310 \$1,860 730
Modified Sixting Bridge EA Varies	\$0 310 \$1,860 730
New Pre-Engineered Bridge	
Trail Amenites Fabra Fab	200
Tail Amenities Tail Bead signage EA \$4,000 1 \$4,000 1	
Trailbead spianges	00 0 30 0
Interpretive signage	000
Wayfinding signage	00
Emergency locator system signage (rail trail only)	
Biller ack Biller ack Biller ack Beach Bea	500
EA \$1,500	000
Shade structure with bench	500
Fencing	
Each Xing S25,000 T S175,000 S0 S580,000 S0 S56,000 S28 S580,000 S580,	
EA \$30,000 \$469,100 \$50 \$580,600 \$524	
Staging Area Access Subtrotal Staging Area Access Staging	00
Staging Area Access Frailhead, small (10 cars) EA \$30,000 EA \$50,000	000 \$0
Trailhead, medium (20 cars), portable restroom EA \$50,000	
Trailhead, large (30 cars), restroom, drinking fountain EA \$80,000 SUBTOTAL Do \$0 \$0 \$0 \$1 \$80,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
Subtook Subt	
Rail Track and Street Crossings Type A: Tie into railroad control cab, ped gates, barriers, roadway treatments EA \$250,000 1 \$250,000 3 \$750,000 1 \$250,000 1 \$250,000 1 \$550,	
Type A: Tie into railroad control cab, ped gates, barriers, roadway treatments EA \$250,000 1 \$250,000 1 \$250,000 1 \$250,000 1 \$50,000 1	\$0 0 \$0 0
Type B: Traffic signal modication with new crosswalk, ped equipment, loops, striping EA \$50,000 EA \$150,000 E	
Type C: HAWK including all elec and striping/signing EA \$150,000 Type D: Active Enhanced Midblock, either IRWL or overhead, ppb, yield marks, signs, path controls EA \$100,000 EA \$100,000 EA \$25,000 EA \$25,000 EA \$20,000 EA \$20	000
Type D: Active Enhanced Midblock, either IRWL or overhead, ppb, yield marks, signs, path controls EA \$100,000 Type E: Passive Enhanced Midblock, with yield marks, signs, crosswalk, path controls EA \$25,000 Type F: Standard Midblock with signs, crosswalk, path controls EA \$20,000 EA \$20,000 EA \$20,000 EA \$20,000 EA \$20,000 EA \$80,000 Type H: Connection Facilities, with redirected path to ex xwalk and bike lanes or sharrows EA \$60,000 Type H: Rail xing w/out rr signal mods, with barriers at tracks/path, roadway xing signs/markings, path yields EA \$40,000 EA \$40,0	000
Type E: Passive Enhanced Midblock, with yield marks, signs, crosswalk, path controls EA \$25,000 1 \$20,000 1 \$20,000	
Type F: Standard Midblock with signs, crosswalk, path controls EA \$20,000 1 \$20,000	,00
Type G: Traffic Calming Measures, medians or curb extensions, warning signs, crosswalk EA \$80,000 1 1 \$80,000 1 Type H: Connection Facilities, with redirected path to ex xwalk and bike lanes or sharrows EA \$60,000 3 \$180,000 1 Type I: Rail xing w/out rr signal mods, with barriers at tracks/path, roadway xing signs/markings, path yields EA \$40,000 1 \$1 \$10,000 1 Type J: Standard Private Crossing, with stops for local road crossing and path yield signs or marks* EA \$10,000 4 \$40,000 1 \$10,000 1 Type J: Standard Private Crossing, with stops for local road crossing and path yield signs or marks*	
Type H: Connection Facilities, with redirected path to ex xwalk and bike lanes or sharrows EA \$60,000 Type I: Rail xing w/out rr signal mods, with barriers at tracks/path, roadway xing signs/markings, path yields EA \$40,000 Type I: Rail xing w/out rr signal mods, with barriers at tracks/path, roadway xing signs/markings, path yields EA \$40,000 Type I: Standard Private Crossing, with stops for local road crossing and path yield signs or marks* EA \$10,000 4 \$40,000 1 \$10,000	,00
Type I: Rail xing w/out rr signal mods, with barriers at tracks/path, roadway xing signs/markings, path yields EA \$40,000	
Type J: Standard Private Crossing, with stops for local road crossing and path yield signs or marks* EA \$10,000 4 \$40,000 1 \$10,000	
	00
SUBTOTAL 6 \$310,000 0 \$0 18 \$1,270,000 0 \$0 3 \$350,000 6 \$56	
Note: *The maps show PUC designated crossings and may not reflect all private crossings. SEGMENT 6 SEGMENT 6 SEGMENT 7 SEGMENT 7B SEGMENT 8 SEGMENT 8	
TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL	
SEGMENT TOTALS \$1,939,020 \$7,370 \$6,285,500 \$725,760 \$6,446,400 \$7,44	
CONSTRUCTION COST TOTAL \$1,939,020 \$7,370 \$6,285,500 \$725,760 \$6,446,400 \$7,440,	\$1,860
DESIGN, ENGINEERING AND PS&E (15%) \$290,853 \$1,106 \$942,825 \$108,864 \$966,960 \$1,13	038 \$279
	225
	025 \$186
CONTINGENCY (20%) \$387,804 \$1,474 \$1,257,100 \$145,152 \$1,289,280 \$1,48	038 \$279
COMBINED CONSTRUCTION/SUPPORT COST TOTAL \$3,102,432 \$11,792 \$10,056,800 \$1,161,216 \$10,314,240 \$11,904,	038 \$279 050 \$372
SEGMENT AGGREGATED TOTAL \$3,114,224 \$11,218,016 \$10,314,240	038 \$279 050 \$372

MRSST Natwork: Master Pla

MBSST Network: Master Plan																				
COST ESTIMATE - ALL SEGMENTS			SEGN	MENT 10 **	SEG	MENT 11	SEG	MENT 12	SEG	MENT 13	SEGI	MENT 14	SEGMENT 15		SEGMENT 16		SEGN	ΛENT 16A	SEGN	MENT 16B
9-Oct-2013	SEGME	NT LENGTH	7,940	LF / 1.50 MI	16,880 LF / 3.20 MI		II 6,030 LF / 1.14 MI		4,510 LF / 0.85 MI		6,160 LF / 1.17 MI		7,240 LF / 1.37 MI		II 9,400 LF / 1.78 N		/II 2,100 LF / 0.40 MI		2,530	LF / 0.48 MI
	T																			
ТҮРЕ	UNIT	COST	Qty.	Total	Qty.	Total	Qty.	Total	Qty.	Total	Qty.	Total	Qty.	Total	Qty.	Total	Qty.	Total	Qty.	Total
Rail Trail						4														
Multi-Use Paved Path (Class I) (12' paved): moderate terrain, drainage, utilities	LF	\$162			12,430			\$118,260	3,510	\$568,620	5,360	\$868,320	6,200	\$1,004,400	9,400	\$1,522,800				
Multi-Use Paved Path (Class I) (12' paved): difficult terrain, retaining walls, drainage, utilities	LF	\$405	7,940	\$4,215,700	4,450	\$1,802,250	5,300	\$2,146,500	1,000	\$405,000	800	\$324,000	1,040	\$421,200						
Multi-Use Paved (Class I)/Unpaved Path (12' paved, with 6' DG path): moderate terrain, drainage, utilities	LF	\$180																		
SUBTOTA	L		7,940	\$4,215,700	16,880	\$3,815,910	6,030	\$2,264,760	4,510	\$973,620	6,160	\$1,192,320	7,240	\$1,425,600	9,400	\$1,522,800	0	\$0	0	\$0
Coastal Trail						ı														
Multi-Use Paved Path (Class I) (12' paved): moderate terrain, drainage, utilities	LF	\$162															2,100	\$340,200		
Multi-Use Paved Path (Class I) (12' paved): difficult terrain, retaining walls, drainage, utilities	LF	\$405																		
Unpaved Trail (native soil); 6' - 8' wide, level terrain	LF	\$7																		
Unpaved Trail (native soil); 10' - 12' wide on existing road	LF	\$11																		
Class II Bike Lanes	LF	\$20																	2,530	\$50,600
Class III Bike Route, wayfinding signage	LF	\$6																		
SUBTOTA	L		0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	2,100	\$340,200	2,530	\$50,600
Bridge Structures																				
Modified Existing Bridge	EA	Varies					1	\$600,000												
New Pre-Engineered Bridge	EA	Varies	1	\$450,000	2	\$400,000	3	\$3,000,000	1	\$1,000,000			2	\$1,450,000						
SUBTOTA			1		2		4	\$3,600,000	1	\$1,000,000	0	\$0	2	\$1,450,000	0	\$0	0	\$0	0	\$0
Trail Amenities																				
Trailhead signage	EA	\$4,000	2	\$8,000	2	\$8,000	1	\$4,000			1	\$4,000								
Interpretive signage	EA	\$500		+2,230	l − -	+2,230		ļ .,230				, .,								
Wayfinding signage	Allow/Mile	\$2,500	1.5	\$3,750	3.2	\$8,000	1.1	\$2,750							1.8	\$4,500				
Emergency locator system signage (rail trail only)	Allow/Mile	\$3,000	1.5	\$4,500	3.2	\$9,600	1.1	\$3,300	0.9	\$2,700	1.2	\$3,600	1.4	\$4,200	1.8	\$5,400				
Bike rack	EA	\$1,000	1.5	Ş4,300	5.2	\$6,000	1.1	\$3,300	0.5	\$2,700	1.2	\$3,000	1.4	J4,200	1.0	\$3,400				
Bench	EA	\$1,500			6	\$9,000														
Shade structure with bench	EA	\$1,300			٥	39,000														
			15.000	¢(25, 200	F 200	6244 200	2.000	Ć420.000												
Fencing Lighting (at heidage (greenings within unban cogmonts)	LF	\$40	15,880	\$635,200	5,280 12	\$211,200	3,000	\$120,000												
Lighting (at bridges/crossings within urban segments) Restroom	Each Xing	\$25,000	ь	\$150,000	12	\$300,000	12	\$300,000												
	EA	\$30,000		6004 450		4554.000		6430.050		62.700		47.500		44.000		40.000		60		40
SUBTOTA	-			\$801,450		\$551,800		\$430,050		\$2,700		\$7,600		\$4,200		\$9,900		\$0		\$0
Staging Area Access		ć20.000								ć20.000										
Trailhead, small (10 cars)	EA	\$30,000							1	\$30,000										
Trailhead, medium (20 cars), portable restroom	EA	\$50,000																		
Trailhead, large (30 cars), restroom, drinking fountain	EA	\$80,000										4.5						4-		
SUBTOTA	<u> </u>		0	\$0	0	\$0	0	\$0	1	\$30,000	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
Rail Track and Street Crossings																				
Type A: Tie into railroad control cab, ped gates, barriers, roadway treatments	EA	\$250,000	1	\$250,000	2	\$500,000	1	\$250,000							1	\$250,000				
Type B: Traffic signal modication with new crosswalk, ped equipment, loops, striping	EA	\$50,000					1	\$50,000												
Type C: HAWK including all elec and striping/signing	EA	\$150,000	2	\$300,000			1	\$150,000												
Type D: Active Enhanced Midblock, either IRWL or overhead, ppb, yield marks, signs, path controls	EA	\$100,000			1	\$100,000														
Type E: Passive Enhanced Midblock, with yield marks, signs, crosswalk, path controls	EA	\$25,000	2	\$50,000	1	\$25,000	1	\$25,000							1	\$25,000				
Type F: Standard Midblock with signs, crosswalk, path controls	EA	\$20,000									2	\$40,000								
Type G: Traffic Calming Measures, medians or curb extensions, warning signs, crosswalk	EA	\$80,000																		
Type H: Connection Facilities, with redirected path to ex xwalk and bike lanes or sharrows	EA	\$60,000			2	\$120,000			1	\$60,000	1	\$60,000			1	\$60,000				
Type I: Rail xing w/out rr signal mods, with barriers at tracks/path, roadway xing signs/markings, path yields	EA	\$40,000											1	\$40,000						
Type J: Standard Private Crossing, with stops for local road crossing and path yield signs or marks*	EA	\$10,000			3	\$30,000							4	\$40,000						
SUBTOTA	L		5	\$600,000	9	\$775,000	4	\$475,000	1	\$60,000	3	\$100,000	5	\$80,000	3	\$335,000	0	\$0	0	\$0
Notes: *The maps show PUC designated crossings and may not reflect all private crossings.			SEG	MENT 10	SEC	MENT 11	SEC	MENT 12	SEG	MENT 13	SEG	MENT 14	SEG	MENT 15	SEG	MENT 16	SEGN	MENT 16A	SEGI	MENT 16B
**Segment 10 Rail Trail cost includes \$1,000,000 for moving the tracks due to constrained ROW.				TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL
	SEGME	NT TOTALS		\$6,067,150	1	\$5,542,710		\$6,769,810	1	\$2,066,320		\$1,299,920		\$2,959,800		\$1,867,700		\$340,200		\$50,600
CONSTRUC	TION COS	Τ ΤΟΤΔΙ	-	6,067,150		\$5,542,710		6,769,810	٥	2,066,320	Ś	1,299,920	Ś	2,959,800	-	\$1,867,700		\$340,200		\$50,600
			— <u> </u>		 '				 		—		⊢ Ť		,					
DESIGN, ENGIN				\$910,073	l	\$831,407		\$1,015,472	ĺ	\$309,948		\$194,988	ĺ	\$443,970		\$280,155		\$51,030		\$7,590
ENVIRONME	NTAL PERMIT	TING (10%)		\$606,715		\$554,271	L	\$676,981		\$206,632		\$129,992		\$295,980		\$186,770		\$34,020		\$5,060
CONSTRUCTION	N MANAGEN	/IENT (15%)		\$910,073		\$831,407	7	\$1,015,472		\$309,948		\$194,988		\$443,970		\$280,155		\$51,030		\$7,590
		ENCY (20%)		\$1,213,430		\$1,108,542		\$1,353,962		\$413,264		\$259,984		\$591,960		\$373,540		\$68,040		\$10,120
COMBINED CONSTRUCTION/SU			-					10,831,696	ć		6		ć		-			\$544,320		
				9,707,440		\$8,868,336	7			3,306,112		2,079,872		4,735,680	•	\$2,988,320				\$80,960
SEGMENT AGGI	REGATED	TOTAL	\$9 ,	,707,440	\$8,	,868,336	\$10	,831,696	\$3 ,	306,112	\$2,	079,872	\$4,	735,680			\$3,6	13,600		

COST ESTIMATE - ALL SEGMENTS				MENT 17		MENT 18		MENT 18A	_	MENT 18B		MENT 19		MENT 19A		MENT 20
9-Oct-2013	SEGMI	ENT LENGTH	21,140) LF / 4.00 MI	6,350	LF / 1.20 MI	6,840	LF / 1.30 MI	7,980	LF / 1.51 MI	1,510	LF / 0.29 MI	950 L	F / 0.18 MI	3,930 L	LF / 0.74 MI
ТҮРЕ	UNIT	COST	Qty.	Total	Qty.	Total	Qty.	Total	Qty.	Total	Qty.	Total	Qty.	Total	Qty.	Total
Rail Trail															إحسا	
Multi-Use Paved Path (Class I) (12' paved): moderate terrain, drainage, utilities	LF		10,540		6,350	\$1,028,700									3,930	\$636,66
Multi-Use Paved Path (Class I) (12' paved): difficult terrain, retaining walls, drainage, utilities	LF	\$405	7,100													
Multi-Use Paved (Class I)/Unpaved Path (12' paved, with 6' DG path): moderate terrain, drainage, utilities	LF	\$180	3,500		6.350	¢1 020 700		ćo		ćo	\vdash	ćo		ćo	2.020	¢626.66
SUBTOTAL Coastal Trail			21,140	\$5,212,980	6,350	\$1,028,700	0	\$0	0	\$0	0	\$0	0	\$0	3,930	\$636,66
Multi-Use Paved Path (Class I) (12' paved): moderate terrain, drainage, utilities	LF	\$162				1										
Multi-Use Paved Path (Class I) (12' paved): indictate terrain, retaining walls, drainage, utilities	LF	\$405													-+	
Unpaved Trail (native soil); 6' - 8' wide, level terrain	LF	\$403													\rightarrow	
Unpaved Trail (native soil); 10' - 12' wide on existing road	LF	\$11	$\vdash \vdash$								\vdash					
Class II Bike Lanes	LF		$\vdash \vdash$				6 940	¢126 900	7 000	¢150.600	\vdash		050	¢10.000		
Class III Bike Route, wayfinding signage	LF LF	\$20 \$6	$\vdash \vdash \vdash$				6,840	\$136,800	7,980	\$159,600			950	\$19,000	\rightarrow	
SUBTOTAL		90	0	\$0	0	\$0	6,840	\$136,800	7,980	\$159,600	0	\$0	950	\$19,000	0	
Bridge Structures							,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,						
Modified Existing Bridge	EA	Varies														
New Pre-Engineered Bridge	EA	Varies	7	\$7,000,000											1	\$1,000,00
SUBTOTAL			7	\$7,000,000	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	1	\$1,000,00
Trail Amenities																
Trailhead signage	EA	\$4,000			1	\$4,000									1	\$4,00
Interpretive signage	EA	\$500														
Wayfinding signage	Allow/Mile	\$2,500	4.0	\$10,000											0.7	\$1,75
Emergency locator system signage (rail trail only)	Allow/Mile	\$3,000	4.0	\$12,000	1.2	\$3,600					0.5	\$1,500			0.7	\$2,10
Bike rack	EA	\$1,000														
Bench	EA	\$1,500														
Shade structure with bench	EA	\$15,000														
Fencing	LF	\$40	5,280	\$211,200	6,350	\$254,000					3,320	\$132,800			5,280	\$211,20
Lighting (at bridges/crossings within urban segments)	Each Xing	\$25,000	-,		5	\$125,000					1	\$25,000			1	\$25,00
Restroom	EA	\$30,000			1	\$30,000						, ,,,,,,,				,
SUBTOTAL				\$233,200		\$416,600		\$0		\$0		\$159,300		\$0		\$244,05
Staging Area Access																
Trailhead, small (10 cars)	EA	\$30,000														
Trailhead, medium (20 cars), portable restroom	EA	\$50,000														
Trailhead, large (30 cars), restroom, drinking fountain	EA	\$80,000														
SUBTOTAL			0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$
Rail Track and Street Crossings																
Type A: Tie into railroad control cab, ped gates, barriers, roadway treatments	EA	\$250,000														
Type B: Traffic signal modication with new crosswalk, ped equipment, loops, striping	EA	\$50,000														
Type C: HAWK including all elec and striping/signing	EA	\$150,000														
Type D: Active Enhanced Midblock, either IRWL or overhead, ppb, yield marks, signs, path controls	EA	\$100,000														
Type E: Passive Enhanced Midblock, with yield marks, signs, crosswalk, path controls	EA	\$25,000														
Type F: Standard Midblock with signs, crosswalk, path controls	EA	\$20,000			1	\$20,000										
Type G: Traffic Calming Measures, medians or curb extensions, warning signs, crosswalk	EA	\$80,000														
Type H: Connection Facilities, with redirected path to ex xwalk and bike lanes or sharrows	EA	\$60,000			2	\$120,000					1	\$60,000				
Type I: Rail xing w/out rr signal mods, with barriers at tracks/path, roadway xing signs/markings, path yields	EA	\$40,000														
Type J: Standard Private Crossing, with stops for local road crossing and path yield signs or marks*	EA	\$10,000	3	\$30,000												
SUBTOTAL			3	1 ,	3		0					. ,	0			
Note: *The maps show PUC designated crossings and may not reflect all private crossings.		l	SEG	MENT 17	SEG	MENT 18	SEGI	MENT 18A	SEG	MENT 18B	SEG	MENT 19	SEGN	MENT 19A	SEGI	MENT 20
		l	1	TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL
	SEGME	ENT TOTALS		\$12,476,180		\$1,585,300		\$136,800		\$159,600		\$219,300		\$19,000	137'2	\$1,880,71
CONSTRUC	CONSTRUCTION COST TO		\$1	12,476,180	Ş	\$1,585,300		\$136,800		\$159,600		\$219,300		\$19,000	\$	1,880,710
DESIGN, ENGINE	ERING AND	PS&E (15%)		\$1,871,427		\$237,795										
ENVIRONMEN				\$1,247,618		\$158,530										\$188,0
CONSTRUCTION MANAGEMI		/IENI (15%)	1	\$1,871,427	1	\$237,795		\$20,520		\$23,940		\$32,895		\$2,850	IN /	\$282,1
CONSTRUCTION																
		ENCY (20%)		\$2,495,236		\$317,060		\$27,360		\$31,920		\$43,860		\$3,800		\$376,1
COMBINED CONSTRUCTION/SUF			\$1	\$2,495,236 1 <mark>9,961,888</mark>	Ş	\$317,060 \$ 2,536,480		\$27,360 \$218,880		\$31,920 \$255,360		\$43,860 \$350,880		\$3,800 \$30,400	\$3	\$376,1 <mark>3,009,13</mark>

MBSST Network: Master Plan

COST ESTIMATE - ALL SEGMENTS <u>SUMMARY</u>			RAIL ONLY	RAIL ONLY	COASTAL ONLY	COASTAL ONLY	COMBINED	COMBINED
9-Oct-2013								
	T			COST TYPE		COST TYPE	OTV TOTAL	COST TWOS TOTAL
TYPE Rail Trail	UNIT	COST	QTY. TOTAL	TOTAL	QTY. TOTAL	TOTAL	QTY. TOTAL	COST TYPE TOTAL
Multi-Use Paved Path (Class I) (12' paved): moderate terrain, drainage, utilities	LF	\$162	127,370	\$20,633,940	0	\$0	127,370	\$20,633,940
Multi-Use Paved Path (Class I) (12' paved): difficult terrain, retaining walls, drainage, utilities	LF	\$405	28,980	\$12,736,900	0	\$0	28,980	\$12,736,900
Multi-Use Paved (Class I)/Unpaved Path (12' paved, with 6' DG path): moderate terrain, drainage, utilities	LF	\$180	3,500	\$630,000	0	\$0	3,500	\$630,000
SUBTOTA	L		159,850	\$34,000,840	0	\$0	159,850	\$34,000,840
Coastal Trail			-					
Multi-Use Paved Path (Class I) (12' paved): moderate terrain, drainage, utilities	LF	\$162	0	\$0	16,230	\$2,629,260	16,230	\$2,629,260
Multi-Use Paved Path (Class I) (12' paved): difficult terrain, retaining walls, drainage, utilities	LF	\$405	0	\$0	0	\$0	0	\$0
Unpaved Trail (native soil); 6' - 8' wide, level terrain	LF	\$7	0	\$0	24,490	\$171,430	24,490	\$171,430
Unpaved Trail (native soil); 10' - 12' wide on existing road	LF	\$11	0	\$0	870	\$9,570	870	\$9,570
Class II Bike Lanes	LF	\$20	0	\$0	24,810	\$496,200	24,810	\$496,200
Class III Bike Route, wayfinding signage	LF	\$6	0	\$0	30,810	\$184,860	30,810	\$184,860
SUBTOTA	L		0	\$0	97,210	\$3,491,320	97,210	\$3,491,320
Bridge Structures								
Modified Existing Bridge	EA	Varies	1	\$600,000	0	\$0		1 /
New Pre-Engineered Bridge	EA	Varies	23	\$28,200,000	0	\$0	23	
SUBTOTA	L		24	\$28,800,000	0	\$0	24	\$28,800,000
Trail Amenities	Γ.	Ć4 000	10	¢72.000		ćo	10	¢72.000
Trailhead signage	EA	\$4,000	18 10	\$72,000	0	\$0 \$0	18 10	
Interpretive signage	EA Allerry (NAILE	\$500	30	\$5,000 \$74,750	0	\$0 \$0	30	
Wayfinding signage Emergency locator system signage (rail trail only)	Allow/Mile	\$2,500 \$3,000	39.6	\$118,800	0	\$0	39.6	\$74,750 \$118,800
Bike rack	Allow/Mile EA	\$1,000	20	\$118,800	0	\$0	20	
Bench	EA	\$1,500	24	\$36,000	0	\$0	24	\$36,000
Shade structure with bench	EA	\$15,000	2	\$30,000	0	\$0	2	\$30,000
Fencing	LF	\$40	96,721	\$3,868,840	0	\$0	96,721	\$3,868,840
Lighting (at bridges/crossings within urban segments)	Each Xing	\$25,000	70	\$1,750,000	0	\$0	70	\$1,750,000
Restroom	EA	\$30,000	1	\$30,000	0	\$0	1	\$30,000
SUBTOTA	L			\$6,005,390		\$0		\$6,005,390
Staging Area Access								
Trailhead, small (10 cars)	EA	\$30,000	0	\$0	1	\$30,000	1	\$30,000
Trailhead, medium (20 cars), portable restroom	EA	\$50,000	0	\$0	0	\$0	0	\$0
Trailhead, large (30 cars), restroom, drinking fountain	EA	\$80,000	0	\$0	1	\$80,000	1	\$80,000
SUBTOTA	L		0	\$0	2	\$110,000	2	\$110,000
Rail Track and Street Crossings								
Type A: Tie into railroad control cab, ped gates, barriers, roadway treatments	EA	\$250,000	16	\$4,000,000	0	\$0	16	
Type B: Traffic signal modication with new crosswalk, ped equipment, loops, striping	EA	\$50,000	4	\$200,000	0	\$0	4	1,
Type C: HAWK including all elec and striping/signing	EA	\$150,000	4	\$600,000	0	\$0	4	\$600,000
Type D: Active Enhanced Midblock, either IRWL or overhead, ppb, yield marks, signs, path controls	EA	\$100,000	3 15	\$300,000	0	\$0 \$0	3	
Type E: Passive Enhanced Midblock, with yield marks, signs, crosswalk, path controls	EA EA	\$25,000	7	\$375,000 \$140,000	0	\$0 \$0	15 7	\$375,000 \$140,000
Type F: Standard Midblock with signs, crosswalk, path controls Type G: Traffic Calming Measures, medians or curb extensions, warning signs, crosswalk	EA	\$20,000 \$80,000	1	\$140,000	0	\$0 \$0	1	\$140,000
Type G: Traffic Calming Measures, medians or curb extensions, warning signs, crosswalk Type H: Connection Facilities, with redirected path to ex xwalk and bike lanes or sharrows	EA	\$60,000	11	\$660,000	0	\$0	11	\$660,000
Type I: Rail xing w/out rr signal mods, with barriers at tracks/path, roadway xing signs/markings, path yields	EA	\$40,000	3	\$120,000	0	\$0	3	\$120,000
Type J: Standard Private Crossing, with stops for local road crossing and path yield signs or marks*	EA	\$10,000	32	\$320,000	0	\$0	32	\$320,000
SUBTOTA		,	96	\$6,795,000	0	\$0	96	\$6,795,000
Note: *The maps show PUC designated crossings and may not reflect all private crossings.				, , , , , , , , ,		7.		, , , , , , , ,
	SEGMENT TOTALS							
CONSTRU				\$75,601,230		\$3,601,320		\$79,202,550
DESIGN, ENGIN				\$11,340,185		\$5,001,320		\$11,880,383
ENVIRONME				\$7,560,123		\$360,132		\$7,920,255
CONSTRUCTION				\$11,340,185		\$540,198		\$11,880,383
	CONTING	ENCY (20%)		\$15,120,246		\$720,264		\$15,840,510
COMBINED CONSTRUCTION/SU	IPPORT CO	ST TOTAL		\$120,961,968		\$5,762,112		\$126,724,080
SEGMENT AGG				\$120,961,968		\$5,762,112		\$126,724,080
SEGIVIEIVI AGG	NEGATEL	OIAL		7120,301,308		33,70Z,11Z		7120,724,080