Rapid Bus Cost Estimate Summary

		Corridor Improvement					
Corridor	TSP	Side Running	Median Busway	Corridor Improvement	Rapid Bus Station	Right of Way	Vehicles
Central-East	\$294,000	\$288,000	\$0	\$582,000	\$2,049,600	\$33,600	\$0
Central-West	\$128,400	\$202,608	\$0	\$331,008	\$1,389,600	\$0	\$0
Central-Square	\$45,600	\$223,200	\$0	\$268,800	\$274,800	\$0	\$0
East	\$276,600	\$618,984	\$0	\$895,584	\$4,864,800	\$61,600	\$7,350,000
West	\$128,400	\$372,744	\$0	\$501,144	\$3,601,200	\$88,200	\$0
West-FG-Univ	\$100,800	\$0	\$8,563,200	\$8,664,000	\$1,288,800	\$999,040	\$0
West-CG-Univ	\$100,800	\$0	\$0	\$100,800	\$2,214,000	\$0	\$0
West-FG-MP	\$270,600	\$0	\$10,422,720	\$10,693,320	\$759,600	\$896,000	\$13,860,000
West-CG-MP	\$270,600	\$1,137,024	\$0	\$1,407,624	\$1,017,600	\$896,000	\$11,550,000
West-Odana	\$298,200	\$222,624	\$0	\$520,824	\$3,301,200	\$0	\$11,550,000
North	\$193,800	\$63,000	\$2,100,000	\$2,356,800	\$3,110,400	\$936,600	\$7,350,000
South	\$45,600	\$0	\$0	\$45,600	\$1,407,600	\$82,600	\$0
South-FG-ParkN	\$149,400	\$0	\$1,674,000	\$1,823,400	\$529,200	\$0	\$11,340,000
South-CG-ParkN	\$149,400	\$0	\$0	\$149,400	\$906,000	\$0	\$9,450,000
South-FG-ParkS	\$100,800	\$0	\$10,693,080	\$10,793,880	\$776,400	\$896,000	\$0
South-CG-ParkS	\$100,800	\$712,872	\$0	\$813,672	\$1,718,400	\$896,000	\$0
South-FG-Fish	\$156,000	\$0	\$4,145,460	\$4,301,460	\$271,200	\$0	\$0
South-CG-Fish	\$156,000	\$452,232	\$0	\$608,232	\$648,000	\$0	\$0

Corridor	Total # of Stations	Total # of TSP Intersections	Total # of Buses	Total Length	Total Cost / Mile (2012\$)	Total Cost / Mile (2016\$)
Central-East	4	9	0	1.13	\$3,489,252	\$3,927,405
Central-West	3	3	0	0.68	\$3,727,662	\$4,196,735
Central-Square	2	0	0	0.59	\$1,369,394	\$1,541,419
East	10	7	7	5.13	\$3,203,729	\$3,605,877
West	6	3	0	2.63	\$2,353,735	\$2,649,333
West-FG-Univ	3	2	0	1.35	\$11,860,762	\$13,349,462
West-CG-Univ	3	2	0	1.35	\$2,531,233	\$2,849,395
West-FG-MP	5	6	11	2.99	\$11,942,188	\$13,441,064
West-CG-MP	5	6	11	2.99	\$6,658,845	\$7,494,711
West-Odana	6	7	11	3.28	\$6,332,042	\$7,126,782
North	6	4	7	3.08	\$6,497,686	\$7,313,270
South	3	0	0	1.45	\$1,561,651	\$1,758,155
South-FG-ParkN	2	2	9	0.29	\$53,011,200	\$59,667,406
South-CG-ParkN	2	2	9	0.29	\$39,620,439	\$44,593,858
South-FG-ParkS	6	2	0	1.88	\$11,263,396	\$12,677,119
South-CG-ParkS	6	2	0	1.88	\$4,140,915	\$4,660,863
South-FG-Fish	2	4	0	1.19	\$5,680,981	\$6,394,676
South-CG-Fish	2	4	0	1.19	\$1,561,051	\$1,757,758

Rapid Bus Cost Estimate Summary

Central segment costs NOT included in North, South, West and East estimates below

Corridor	TSP	Side Running	Median Busway	Corridor Improvement	Rapid Bus Station	Right of Way	Vehicles
North	\$193,800	\$63,000	\$2,100,000	\$2,356,800	\$3,110,400	\$936,600	\$7,350,000
South - FG	\$451,800	\$0	\$16,512,540	\$16,964,340	\$2,984,400	\$978,600	\$11,340,000
South - CG	\$451,800	\$1,165,104	\$0	\$1,616,904	\$4,680,000	\$978,600	\$9,450,000
Central	\$468,000	\$713,808	\$0	\$1,181,808	\$3,714,000	\$33,600	\$0
East	\$276,600	\$618,984	\$0	\$895,584	\$4,864,800	\$61,600	\$7,350,000
West-FG	\$499,800	\$372,744	\$18,985,920	\$19,858,464	\$5,649,600	\$1,983,240	\$13,860,000
West-CG	\$499,800	\$1,509,768	\$0	\$2,009,568	\$6,832,800	\$984,200	\$11,550,000
West-Odana-CG	\$527,400	\$595,368	\$0	\$1,122,768	\$9,116,400	\$88,200	\$11,550,000

Central segment costs NOT included in North, South, West and East estimates below

echtrar segment costs		,				
Corridor	Total # of Stations	Total # of TSP Intersections	Total # of Buses	Total Length	Total Cost / Mile (2012\$)	Total Cost / Mile (2016\$)
Central	9	12	12 0 2.40		\$3,037,408	\$3,418,753
East	10	7	7	7 5.13 \$3,203,729		\$3,605,877
West-FG	14	11	11	6.97	\$8,313,607	\$9,357,149
West-CG	14	11	11	6.97	\$4,236,027	\$4,767,773
West-Odana-CG	15	12	11	7.26	\$4,186,043	\$4,711,467
North	6	4	7	3.08	\$6,497,686	\$7,313,270
South - FG	13	8	9	4.80	\$9,513,077	\$10,707,181
South - CG	13	8	9	4.80	\$4,893,831	\$5,508,162

Does not include the Central portion of the corridor

Central segment costs included in North, South, West and East estimates below

Corridor	TSP	Side Running	Median Busway	Corridor Improvement	Rapid Bus Station	Right of Way	Vehicles
North	\$533,400	\$574,200	\$2,100,000	\$3,207,600	\$5,434,800	\$970,200	\$7,350,000
South - FG	\$625,800	\$425,808	\$16,512,540	\$17,564,148	\$4,648,800	\$978,600	\$11,340,000
South - CG	\$625,800	\$1,590,912	\$0	\$2,216,712	\$6,344,400	\$978,600	\$9,450,000
East	\$616,200	\$1,130,184	\$0	\$1,746,384	\$7,189,200	\$95,200	\$7,350,000
West-FG	\$673,800	\$798,552	\$18,985,920	\$20,458,272	\$7,314,000	\$1,983,240	\$13,860,000
West-CG	\$673,800	\$1,935,576	\$0	\$2,609,376	\$8,497,200	\$984,200	\$11,550,000
West-Odana-CG	\$701,400	\$1,021,176	\$0	\$1,722,576	\$10,780,800	\$88,200	\$11,550,000

Central segment costs included in North, South, West and East estimates below

Corridor	Total # of Stations	Total # of TSP Intersections	Total # of Buses	Total Length	Total Cost / Mile (2012\$)	Total Cost / Mile (2016\$)
East	16	16	7	6.84	\$3,093,373	\$3,481,707
West-FG	19	14	11	8.24	\$7,438,935	\$8,372,656
West-CG	19	14	11	8.24	\$3,989,714	\$4,490,507
West-Odana-CG	20	15	11	8.53	\$3,955,633	\$4,452,110
North	12	13	7	4.79	\$5,161,233	\$5,809,127
South - FG	18	11	9	6.07	\$8,076,021	\$9,089,702
South - CG	18	11	9	6.07	\$4,422,422	\$4,977,509

- 1 Queue jump lanes are not included as part of this estimate.
- 2 Local bus amenities are not included as part of this estimate.
- 3 Right-of-way costs are included for new/updated transfer point locations, and station locations. No additional ROW is required for the fixed guideway alternatives, unless minimum boulevards are required to be maintained.
- 4 Sidewalk improvements include the full reconstruction of the existing sidewalk and roadway curb/gutter within the limits of the 60' platform.
- 5 Power line relocation costs are not included as part of this estimate. It is assumed that station construction would not impact the existing lines.
- 6 In-slab radiant heat in the platform sidewalk areas is not included as part of this estimate.
- 7 Each station location requires the construction of a concrete pad in the street to accommodate bus movements.
- 8 Existing non-signalized intersections will remain as non-signalized as part of this project. No costs associated with new traffic signal poles are included as part of the cost estimate.
- 9 Existing traffic signal poles have not been assumed to be relocated unless they are a single pole (no mast arm) that is located at a bumpout platform.
- 10 Additional site improvements are based on aerial and site photography and generally relate to potential costs associated with impacts to vertical elements that are located adjacent to proposed platform locations. There are potential costs associated with impacts to unknown elements of the site.
- 11 Station shelter costs are based on the shelter configuration drawings provided by SRF.

East Corridor

Length (mi) 5.13 No. of Stations 10

Item No.	Item Description	Quantity	Unit	Unit Cost	Cost	Allocated	Final Cost
Corridor Improv	vement				\$746,320	\$149,264	\$895,58
1	Transit Signal Priority (per intersection)	7	EA	\$12,000.00	\$84,000	\$16,800	\$100,80
2	Signal Controller (per intersection)	7	EA	\$11,000.00	\$77,000	\$15,400	\$92,40
3	TSP - Bus Hardware (per bus)	7	EA	\$4,500.00	\$31,500	\$6,300	\$37,80
4	TSP Central System Upgrades	1	LS	\$38,000.00	\$38,000	\$7,600	\$45,60
5	Side Running Dedicated Lanes	8597	RF	\$60.00	\$515,820	\$103,164	\$618,98
6	Median Running Dedicated Lanes		RF	\$0.00	\$0	\$0	\$
7	Median Busway Intersection Improvements		EA	\$0.00	\$0	\$0	\$
Rapid Bus Statio	on				\$4,054,000	\$810,800	\$4,864,80
7	Small Shelter	12	EA	\$60,000.00	\$720,000	\$144,000	\$864,00
8	Medium Shelter	2	EA	\$115,000.00	\$230,000	\$46,000	\$276,00
9	Large Shelter	5	EA	\$170,000.00	\$850,000	\$170,000	\$1,020,00
	60' Bus-Bulb Platform Construction (Demolition and						
10	Improvements)	0	EA	\$60,000.00	\$0	\$0	\$(
	60' In Lane/Turn-Out Platform Construction (Demolition and						
11	Improvements)	19	EA	\$40,000.00	\$760,000	\$152,000	\$912,000
12	60' Fixed Guideway Split-Side Platform	0	EA	\$40,000.00	\$0	\$0	\$(
13	60' Fixed Guideway Shared Center Platform	0	EA	\$20,000.00	\$0	\$0	\$(
14	Additional Site Improvements	10	EA	\$20,000.00	\$200,000	\$40,000	\$240,00
15	Street Signage (2 per station)	38	EA	\$1,000.00	\$38,000	\$7,600	\$45,600
16	Utilities and Drainage Improvements (Minor)	8	EA	\$4,000.00	\$32,000	\$6,400	\$38,400
17	Utilities and Drainage Improvements (Major)	4	EA	\$20,000.00	\$80,000	\$16,000	\$96,000
18	Relocate Signal Pole Pedestal	0	EA	\$6,000.00	\$0	\$0	\$(
19	Install Pedestrian Push Button Pole	0	EA	\$5,000.00	\$0	\$0	\$(
20	Traffic Control	19	EA	\$5,000.00	\$95,000	\$19,000	\$114,000
21	Surface Parking	10	SPACE	\$3,000.00	\$30,000	\$6,000	\$36,000
22	Structured Parking	0	SPACE	\$12,000.00	\$0	\$0	\$0
23	Ticket Vending Machine	7	EA	\$75,000.00	\$525,000	\$105,000	\$630,000
24	Fare Enforcement Equipment (per enforcement officer)	1	EA	\$4,000.00	\$4,000	\$800	\$4,800
25	Emergency Phone	0	EA	\$1,000.00	\$0	\$0	\$(
26	Readerboards	7	EA	\$25,000.00	\$175,000	\$35,000	\$210,000
27	Security Cameras	5	EA	\$20,000.00	\$100,000	\$20,000	\$120,000
28	Wireless Connection	5	EA	\$5,000.00	\$25,000	\$5,000	\$30,000
29	Electrical Service	19	EA	\$10,000.00	\$190,000	\$38,000	\$228,000
30	Transfer Point	0	EΑ	\$1,600,000.00	\$0	\$0	\$(
Total Construct		ű	271	<i>\$1,000,000.00</i>	\$4,800,320	\$960,064	\$5,760,384
Right of Way	····				\$30,800	\$30,800	\$61,600
30	Commercial	4400.00	SF	\$7.00	\$30,800	\$30,800	\$61,600
31	Residential	4400.00	SF	\$4.00	\$0	\$0	\$(
Vehicles			31	ў 4.00	\$7,000,000	\$350,000	\$7,350,000
32	Low Floor 60-foot Buses	7	EA	\$1,000,000.00	\$7,000,000	\$350,000	\$7,350,000
33	Low Floor 60-foot Buses w/ Left-Side Doors	,	EA	\$1,200,000.00	\$7,000,000	\$330,000	\$7,550,000
Soft Costs				71,200,000.00	30	70	\$2,070,949
34	Preliminary Engineering			T 1		T I	\$192,013
35	Final Design		 	+			\$358,63
36	Project Management for Design and Construction		 	+			\$236,62
37	Construction Administration and Management		 	+			\$384,33
38	Insurance		+	+		+	\$384,33
	Legal; Permits; Review Fees by Other Agencies		+	+		+	\$192,01
39 40			+	+		+	\$49,54
40	Surveys, Testing, Investigation, Inspection Agency Force Account Work		-	+			
41	,		 	+			\$361,09
42	Public Art	l	<u> </u>				\$57,60
450/ 0	(No. 4 Apr.) 1 1 1/2-1. (Co. 4.)						\$4.452.045.E
	cy (Not Applied to Vehicle Costs)						\$1,183,940.0
East Corridor To	otal Cost						\$16,426,87

West Corridor Length (mi) 2.63 No. of Stations 6

Corridor Improvement 1 Transit Signal Priority (per into 2 Signal Controller (per intersect 3 TSP - Bus Hardware (per bus) 4 TSP Central System Upgrades 5 Side Running Dedicated Lane: 6 Median Running Dedicated Lane: 6 Median Busway Intersection 7 Median Busway Intersection Rapid Bus Station 7 Small Shelter 8 Medium Shelter 9 Large Shelter 60' Bus-Bulb Platform Constrution 10 Improvements) 60' In Lane/Turn-Out Platforn 11 Improvements) 12 60' Fixed Guideway Split-Side 13 60' Fixed Guideway Split-Side 13 60' Fixed Guideway Split-Side 14 Additional Site Improvements 15 Street Signage (2 per station) 16 Utilities and Drainage Improv 17 Utilities and Drainage Improv 18 Relocate Signal Pole Pedestal 19 Install Pedestrian Push Button 20 Traffic Control 21 Surface Parking 22 Structured Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service Total Construction Costs Right of Way 30 Commercial 31 Residential Vehicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration 38 Insurance 39 Legal; Permits; Review Fees b 40 Surveys, Testing, Investigatio 41 Agency Force Account Work 42 Public Art							Final Cost
2 Signal Controller (per intersed 3 TSP - Bus Hardware (per bus) 4 TSP - Bus Hardware (per bus) 4 TSP - Bus Hardware (per bus) 5 Side Running Dedicated Lane: 6 Median Running Dedicated Lare: 7 Median Busway Intersection 7 Median Busway Intersection 7 Median Busway Intersection 7 Median Busway Intersection 8 Median Busway Intersection 10 Improvements) 60' Bus-Bulb Platform Construst Inmprovements) 60' In Lane/Turn-Out Platforn 11 Improvements) 12 60' Fixed Guideway Split-Side 13 60' Fixed Guideway Split-Side 13 60' Fixed Guideway Split-Side 14 Additional Site Improvement 15 Street Signage (2 per station) 16 Utilities and Drainage Improv 17 Utilities and Drainage Improv 18 Relocate Signal Pole Pedestal 19 Install Pedestrian Push Buttor 19 Install Pedestrian Push Buttor 20 Traffic Control 21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service 10 Total Construction Costs 12 Residential 13 Residential 14 Residential 15 Final Design 16 Project Management for Desi 17 Construction Administration 18 Insurance 18 Users, Testing, Investigatio 40 Surveys, Testing, Investigatio 41 Agency Force Account Work					\$417,620	\$83,524	\$501,14
3 TSP - Bus Hardware (per bus) 4 TSP Central System Upgrades 5 Side Running Dedicated Lane 6 Median Running Dedicated Lane 7 Median Busway Intersection Rapid Bus Station 7 Small Shelter 8 Medium Shelter 9 Large Shelter 60' Bus-Bulb Platform Construm Improvements) 60' In Lane/Turn-Out Platform Improvements) 60' In Lane/Turn-Out Platform 11 Improvements) 12 60' Fixed Guideway Split-Side 13 60' Fixed Guideway Shared Construction 14 Additional Site Improvements 15 Street Signage (2 per station) 16 Utilities and Drainage Improv 17 Utilities and Drainage Improv 18 Relocate Signal Pole Pedestal 19 Install Pedestrian Push Buttor 20 Traffic Control 21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service folal Construction Costs Residential fehicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration of Agency Force Account Work 40 Surveys, Testing, Investigatio 41 Agency Force Account Work	ersection)	3	EA	\$12,000.00	\$36,000	\$7,200	\$43,20
4 TSP Central System Upgrades 5 Side Running Dedicated Lane 6 Median Running Dedicated Lane 7 Median Busway Intersection 7 Small Shelter 8 Medium Shelter 9 Large Shelter 60' Bus-Bulb Platform Construments) 60' In Lane/Turn-Out Platform 10 Improvements) 11 Improvements) 12 60' Fixed Guideway Split-Side 13 60' Fixed Guideway Split-Side 13 60' Fixed Guideway Shared Construction 14 Additional Site Improvements 15 Street Signage (2 per station) 16 Utilities and Drainage Improv 17 Utilities and Drainage Improv 18 Relocate Signal Pole Pedestal 19 Install Pedestrian Push Button 20 Traffic Control 21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service 10tol Construction Costs 10th Way 30 Commercial 31 Residential 10th Vehicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration of Surveys, Testing, Investigation 40 Surveys, Testing, Investigation 41 Agency Force Account Work	tion)	3	EA	\$11,000.00	\$33,000	\$6,600	\$39,6
5 Side Running Dedicated Lane 6 Median Running Dedicated Lane 6 Median Running Dedicated Lane 7 Median Busway Intersection Rapid Bus Station 7 Small Shelter 8 Medium Shelter 9 Large Shelter 60' Bus-Bulb Platform Constrution Improvements) 60' In Lane/Turn-Out Platforn 11 Improvements) 12 60' Fixed Guideway Split-Side 13 60' Fixed Guideway Split-Side 14 Additional Site Improvements 15 Street Signage (2 per station) 16 Utilities and Drainage Improv 17 Utilities and Drainage Improv 18 Relocate Signal Pole Pedestal 19 Install Pedestrian Push Buttor 20 Traffic Control 21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service 10tal Construction Costs 10th Costs 31 Residential 11 Residential 12 Fehicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration of Agency Force Account Work 4 Surveys, Testing, Investigatio 40 Surveys, Testing, Investigatio 41 Agency Force Account Work		0	EA	\$4,500.00	\$0	\$0	;
6 Median Running Dedicated La 7 Median Busway Intersection Rundian Busway Intersection Rapid Bus Station 7 Small Shelter 8 Medium Shelter 9 Large Shelter 60' Bus-Bulb Platform Construction Improvements) 60' Bus-Bulb Platform Construction C		1	LS	\$38,000.00	\$38,000	\$7,600	\$45,6
7 Median Busway Intersection 1apid Bus Station 7 Small Shelter 8 Medium Shelter 9 Large Shelter 60' Bus-Bulb Platform Constrution 10 Improvements) 60' In Lane/Turn-Out Platforn 11 Improvements) 12 60' Fixed Guideway Split-Side 13 60' Fixed Guideway Shared Construction 14 Additional Site Improvements 15 Street Signage (2 per station) 16 Utilities and Drainage Improv 17 Utilities and Drainage Improv 18 Relocate Signal Pole Pedestal 19 Install Pedestrian Push Buttor 20 Traffic Control 21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service 10tal Construction Costs 18th of Way 30 Commercial 31 Residential 14 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration of Surveys, Testing, Investigation 40 Surveys, Testing, Investigation 41 Agency Force Account Work	•	5177	RF	\$60.00	\$310,620	\$62,124	\$372,74
Apid Bus Station 7 Small Shelter 8 Medium Shelter 9 Large Shelter 60' Bus-Bulb Platform Constrution Fixed Guideway Split-Side 11 Improvements) 60' In Lane/Turn-Out Platform 11 Improvements) 12 60' Fixed Guideway Split-Side 13 60' Fixed Guideway Shared Cultive State of Street Signage (2 per station) 15 Street Signage (2 per station) 16 Utilities and Drainage Improv 17 Utilities and Drainage Improv 18 Relocate Signal Pole Pedestal 19 Install Pedestrian Push Buttor 20 Traffic Control 21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service otal Construction Costs tight of Way 30 Commercial 31 Residential rehicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Lucoft Costs 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration of Surveys, Testing, Investigation 40 Surveys, Testing, Investigation 41 Agency Force Account Work	nes	0	RF	\$0.00	\$0	\$0	
7 Small Shelter 8 Medium Shelter 9 Large Shelter 60' Bus-Bulb Platform Construmorovements) 60' In Lane/Turn-Out Platform 11 Improvements) 12 60' Fixed Guideway Split-Side 13 60' Fixed Guideway Shared Construction Site Improvements 15 Street Signage (2 per station) 16 Utilities and Drainage Improv 17 Utilities and Drainage Improv 18 Relocate Signal Pole Pedestal 19 Install Pedestrian Push Button 20 Traffic Control 21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service 10to Losts 11 Residential 12 Low Floor 60-foot Buses 13 Low Floor 60-foot Buses 14 Preliminary Engineering 15 Final Design 16 Project Management for Desi 17 Construction Administration 16 Jurveys, Testing, Investigation 18 Jurveys, Testing, Investigation 19 Legal; Permits; Review Fees b 20 Surveys, Testing, Investigation 21 Agency Force Account Work	mprovements	0	EA	\$0.00	\$0	\$0	Ş
8 Medium Shelter 9 Large Shelter 60' Bus-Bulb Platform Construit Improvements) 60' in Lane/Turn-Out Platform Improvements) 12 60' Fixed Guideway Split-Side 13 60' Fixed Guideway Split-Side 14 Additional Site Improvements 15 Street Signage (2 per station) 16 Utilities and Drainage Improv 17 Utilities and Drainage Improv 18 Relocate Signal Pole Pedestal 19 Install Pedestrian Push Button 20 Traffic Control 21 Surface Parking 22 Structured Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service otal Construction Costs ight of Way 30 Commercial 31 Residential ehicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Loft Costs 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration 38 Insurance 40 Surveys, Testing, Investigatio 40 Surveys, Testing, Investigatio 41 Agency Force Account Work					\$3,001,000	\$600,200	\$3,601,20
9 Large Shelter 60' Bus-Bulb Platform Constru Improvements) 60' In Large Shelter 60' Bus-Bulb Platform Constru Improvements) 60' In Large Shelter 11 60' Fixed Guideway Split-Side 13 60' Fixed Guideway Split-Side 13 60' Fixed Guideway Shared Cc 14 Additional Site Improvement 15 Street Signage (2 per station) 16 Utilities and Drainage Improv 17 Utilities and Drainage Improv 18 Relocate Signal Pole Pedestal 19 Install Pedestrian Push Buttor 20 Traffic Control 21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Seurity Cameras 28 Wireless Connection 29 Electrical Service otal Construction Costs ight of Way 30 Commercial 31 Residential fehicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Loft Costs 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration: 38 Insurance 39 Legal; Permits; Review Fees b 40 Surveys, Testing, Investigatio 41 Agency Force Account Work		4	EA	\$60,000.00	\$240,000	\$48,000	\$288,0
60° Bus-Bulb Platform Construments) 60° Bus-Bulb Platform Construments) 60° In Lane/Turn-Out Platform 11 Improvements) 12 60° Fixed Guideway Split-Side 13 60° Fixed Guideway Shared Collad Street Signage (2 per station) 14 Additional Site Improvements 15 Street Signage (2 per station) 16 Utilities and Drainage Improv 17 Utilities and Drainage Improv 18 Relocate Signal Pole Pedestal 19 Install Pedestrian Push Buttor 20 Traffic Control 21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service otal Construction Costs ight of Way 30 Commercial 31 Residential ehicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses W/ Loft Costs 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration and Surveys, Testing, Investigation 41 Agency Force Account Work		0	EA	\$115,000.00	\$0	\$0	
10 Improvements) 60' In Lane/Turn-Out Platform 11 Improvements) 12 60' Fixed Guideway Split-Side 13 60' Fixed Guideway Shared Co 14 Additional Site Improvements 15 Street Signage (2 per station) 16 Utilities and Drainage Improv 17 Utilities and Drainage Improv 18 Relocate Signal Pole Pedestal 19 Install Pedestrian Push Buttor 20 Traffic Control 21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service 10tal Construction Costs 19th of Way 30 Commercial 31 Residential 2ehicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Loft Costs 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration and Surveys, Testing, Investigation 41 Agency Force Account Work		7	EA	\$170,000.00	\$1,190,000	\$238,000	\$1,428,00
60' In Lane/Turn-Out Platforn Improvements) 12 60' Fixed Guideway Split-Side 13 60' Fixed Guideway Shared Ci 14 Additional Site Improvements 15 Street Signage (2 per station) 16 Utilities and Drainage Improv 17 Utilities and Drainage Improv 18 Relocate Signal Pole Pedestal 19 Install Pedestrian Push Buttor 20 Traffic Control 21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service otal Construction Costs ight of Way 30 Commercial 31 Residential ehicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses V Loft Costs 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration and Surveys, Testing, Investigatio 40 Surveys, Testing, Investigatio 41 Agency Force Account Work	ction (Demolition and						
11 Improvements) 12 60' Fixed Guideway Split-Side 13 60' Fixed Guideway Split-Side 13 60' Fixed Guideway Shared Co. 14 Additional Site Improvements 15 Street Signage (2 per station) 16 Utilities and Drainage Improv 17 Utilities and Drainage Improv 18 Relocate Signal Pole Pedestal 19 Install Pedestrian Push Buttor 20 Traffic Control 21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service otal Construction Costs ight of Way 30 Commercial 31 Residential ehicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Lost 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration and Surveys, Testing, Investigatio 40 Surveys, Testing, Investigatio 41 Agency Force Account Work		0	EA	\$60,000.00	\$0	\$0	9
12 60' Fixed Guideway Split-Side 13 60' Fixed Guideway Shared Co 14 Additional Site Improvements 15 Street Signage (2 per station) 16 Utilities and Drainage Improv 17 Utilities and Drainage Improv 18 Relocate Signal Pole Pedestal 19 Install Pedestrian Push Buttor 20 Traffic Control 21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service otal Construction Costs ight of Way 30 Commercial 31 Residential ehicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Loft Costs 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration as 38 Insurance 39 Legal; Permits; Review Fees b 40 Surveys, Testing, Investigatio 41 Agency Force Account Work	Construction (Demolition and						
13 60' Fixed Guideway Shared Ct 14 Additional Site Improvements 15 Street Signage (2 per station) 16 Utilities and Drainage Improv 17 Utilities and Drainage Improv 18 Relocate Signal Pole Pedestal 19 Install Pedestrian Push Buttor 20 Traffic Control 21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service otal Construction Costs ght of Way 30 Commercial 31 Residential ehicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Loft costs 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration as 38 Insurance 39 Legal; Permits; Review Fees b 40 Surveys, Testing, Investigatio 41 Agency Force Account Work		11	EA	\$40,000.00	\$440,000	\$88,000	\$528,00
14 Additional Site Improvements 15 Street Signage (2 per station) 16 Utilities and Drainage Improv 17 Utilities and Drainage Improv 18 Relocate Signal Pole Pedestal 19 Install Pedestrian Push Buttor 20 Traffic Control 21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service total Construction Costs 19 Service 10 Service 11 Residential 22 Low Floor 60-foot Buses 32 Low Floor 60-foot Buses w/ Loft Costs 33 Low Floor 60-foot Buses w/ Loft Costs 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration 38 Insurance 40 Surveys, Testing, Investigatio 41 Agency Force Account Work	Platform	0	EA	\$40,000.00	\$0	\$0	,
15 Street Signage (2 per station) 16 Utilities and Drainage Improv 17 Utilities and Drainage Improv 18 Relocate Signal Pole Pedestal 19 Install Pedestrian Push Buttor 20 Traffic Control 21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service 29 Electrical Service 20 tal Construction Costs 29 Structured Parking 30 Commercial 31 Residential 29 Electrical Service 31 Low Floor 60-foot Buses 32 Low Floor 60-foot Buses W Legal; Permits'; Review Fees Bustance Administration and Insurance 39 Legal; Permits; Review Fees Bustance Agency Force Account Work 40 Surveys, Testing, Investigation 41 Agency Force Account Work	enter Platform	0	EA	\$20,000.00	\$0	\$0	,
16 Utilities and Drainage Improv 17 Utilities and Drainage Improv 18 Relocate Signal Pole Pedestal 19 Install Pedestrian Push Buttor 20 Traffic Control 21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service 29 Electrical Service 20 Structured Parking 30 Commercial 31 Residential 29 Security Cameras 20 Security Cameras 21 Security Cameras 22 Wireless Connection 23 Fied Construction Costs 25 Security Cameras 26 Security Cameras 27 Security Cameras 28 Wireless Connection 29 Fiederfoads 30 Commercial 31 Residential 31 Residential 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses W/ Low Floor 60-foot Buses W/ Low Floor 60-foot Buses W/ Low Floor 60-foot Buses M/ Low Floor 60-foot B		5	EA	\$20,000.00	\$100,000	\$20,000	\$120,0
17 Utilities and Drainage Improv 18 Relocate Signal Pole Pedestal 19 Install Pedestrian Push Buttor 20 Traffic Control 21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service 29 Selectrical Service 20 Stall Construction Costs 29 Interview Service 20 Stall Construction Costs 20 Selectrical Service 21 Service 22 Selectrical Service 23 Low Floor 60-foot Buses 31 Residential 25 Low Floor 60-foot Buses 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration and Service Floor 38 Insurance 39 Legal; Permits; Review Fees Buses 40 Surveys, Testing, Investigatio 41 Agency Force Account Work		22	EA	\$1,000.00	\$22,000	\$4,400	\$26,4
18 Relocate Signal Pole Pedestal 19 Install Pedestrian Push Button 20 Traffic Control 21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service otal Construction Costs ght of Way 30 Commercial 31 Residential eshicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Lu off Costs 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration a 38 Insurance 39 Legal; Permits; Review Fees b 40 Surveys, Testing, Investigatio 41 Agency Force Account Work	ements (Minor)	5	EA	\$4,000.00	\$20,000	\$4,000	\$24,0
19 Install Pedestrian Push Buttor 20 Traffic Control 21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service total Construction Costs ght of Way 30 Commercial 31 Residential ehicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Low Floor 60-foot Buses w/ Low Floor 60-foot Buses m/ Low Floor 60-foot	ements (Major)	1	EA	\$20,000.00	\$20,000	\$4,000	\$24,0
20 Traffic Control 21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service otal Construction Costs ght of Way 30 Commercial 31 Residential ehicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Low Floor 60-foot 60-foot Buses w/ Low Floor 60-foot B		0	EA	\$6,000.00	\$0	\$0	
21 Surface Parking 22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service 20tal Construction Costs 29 the Service State Construction 30 Commercial 31 Residential 29 Low Floor 60-foot Buses 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses W/ Low Floor 60-foot Buses W/ Low Floor 60-foot Buses W/ Low Floor 60-foot Buses M/ Low	Pole	0	EA	\$5,000.00	\$0	\$0	,
22 Structured Parking 23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service total Construction Costs ght of Way 30 Commercial 31 Residential 29 Low Floor 60-foot Buses 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses 40 Preliminary Engineering 55 Final Design 56 Project Management for Desi 57 Construction Administration and Survays, Testing, Investigation 40 Surveys, Testing, Investigation 41 Agency Force Account Work		11	EA	\$5,000.00	\$55,000	\$11,000	\$66,0
23 Ticket Vending Machine 24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service tal Construction Costs ght of Way 30 Commercial 31 Residential thicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Low for Costs 44 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration 38 Insurance 39 Legal; Permits; Review Fees b 40 Surveys, Testing, Investigatio 41 Agency Force Account Work		0	SPACE	\$3,000.00	\$0	\$0	
24 Fare Enforcement Equipment 25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service total Construction Costs ght of Way 30 Commercial 31 Residential ehicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses 40 Preliminary Engineering 41 Preliminary Engineering 43 Final Design 44 Surveys, Testing, Investigatio 45 Agency Force Account Work		0	SPACE	\$12,000.00	\$0	\$0	,
25 Emergency Phone 26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service tal Construction Costs ght of Way 30 Commercial 31 Residential hicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Loft ft Costs 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration and Insurance 39 Legal; Permits; Review Fees but Agency Force Account Work		6	EA	\$75,000.00	\$450,000	\$90,000	\$540,0
26 Readerboards 27 Security Cameras 28 Wireless Connection 29 Electrical Service that Construction Costs ght of Way 30 Commercial 31 Residential thicks 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Low Floor 60-foot Buses 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration at Samuel Construction Administratio	(per enforcement officer)	1	EA	\$4,000.00	\$4,000	\$800	\$4,8
27 Security Cameras 28 Wireless Connection 29 Electrical Service 29 Electrical Service 29 State Connection 29 Electrical Service 29 Electrical Service 20 State Connection 30 Commercial 31 Residential 20 Electrical 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Low Floor 60-foot Buses w/ Low Floor 60-foot Buses m/ Low Floor 60-foot Bu		0	EA	\$1,000.00	\$0	\$0	,
28 Wireless Connection 29 Electrical Service otal Construction Costs ght of Way 30 Commercial 31 Residential ehicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Low Flo		7	EA	\$25,000.00	\$175,000	\$35,000	\$210,00
29 Electrical Service btal Construction Costs ght of Way 30 Commercial 31 Residential ehicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Loft Costs 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration a 38 Insurance 39 Legal; Permits; Review Fees b 40 Surveys, Testing, Investigatio 41 Agency Force Account Work		7	EA	\$20,000.00	\$140,000	\$28,000	\$168,0
otal Construction Costs ght of Way 30 Commercial 31 Residential ehicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Lo off Costs 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration at the second of t		7	EA	\$5,000.00	\$35,000	\$7,000	\$42,00
ght of Way 30 Commercial 31 Residential shicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Low Floor 60-foot Bus		11	EA	\$10,000.00	\$110,000	\$22,000	\$132,0
30 Commercial 31 Residential ehicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Low Floor 60-foot Floor 60-foot Floor 60-foot Floor 60-foot Fl					\$3,418,620	\$683,724	\$4,102,3
30 Commercial 31 Residential ehicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Low Floor 60-foot					\$44,100	\$44,100	\$88,2
31 Residential shicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Low Floor 60-foot Floor 60-foot Buses w/ Low Floor 60-foot Floor 60-		6300.00	SF	\$7.00	\$44,100	\$44,100	\$88,2
hicles 32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Low Floor			SF	\$4.00	\$0	\$0	
32 Low Floor 60-foot Buses 33 Low Floor 60-foot Buses w/ Low fit Costs 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration at Insurance 39 Legal; Permits; Review Fees b 40 Surveys, Testing, Investigatio 41 Agency Force Account Work					\$0	\$0	
33 Low Floor 60-foot Buses w/ Loft Costs 34 Preliminary Engineering 35 Final Design 36 Project Management for Desi 37 Construction Administration a 38 Insurance 39 Legal; Permits; Review Fees b 40 Surveys, Testing, Investigatio 41 Agency Force Account Work			EA	\$1,000,000.00	\$0	\$0	
oft Costs 34 Preliminary Engineering 35 Final Design 36 Project Management for Design 37 Construction Administration and Strange Stra	ft-Side Doors		EA	\$1,200,000.00	\$0	\$0	
34 Preliminary Engineering 35 Final Design 36 Project Management for Design 37 Construction Administration at Insurance 38 Insurance 39 Legal; Permits; Review Fees because of Surveys, Testing, Investigation 41 Agency Force Account Work				+1,200,000.00	30	٥٩٥	\$1,182,3
35 Final Design 36 Project Management for Desi 37 Construction Administration a 38 Insurance 39 Legal; Permits; Review Fees b 40 Surveys, Testing, Investigatio 41 Agency Force Account Work		1	T	T I		1	\$136,7
36 Project Management for Desi 37 Construction Administration a 38 Insurance 39 Legal; Permits; Review Fees b 40 Surveys, Testing, Investigatio 41 Agency Force Account Work		1	 	1			\$205,9
37 Construction Administration a 38 Insurance 39 Legal; Permits; Review Fees b 40 Surveys, Testing, Investigatio 41 Agency Force Account Work	an and Construction	+	 	+			\$69,2
38 Insurance 39 Legal; Permits; Review Fees b 40 Surveys, Testing, Investigatio 41 Agency Force Account Work			 	+			\$273,9
39 Legal; Permits; Review Fees b 40 Surveys, Testing, Investigatio 41 Agency Force Account Work	management	1	 	1			\$136,7
40 Surveys, Testing, Investigatio 41 Agency Force Account Work	v Other Agencies	1	 				\$136,7
41 Agency Force Account Work		+	 	1			\$36,3
	i, ilispection	1	 	1			\$72,7
		-	-	+			
42 Fublic Art		L	l			l l	\$41,02
5% Contingency (Not Applied to Vehicle Costs							\$805,941.3

Mix Traffic Length 8684

Item No.	Item Description	Quantity	Unit	Unit Cost	Cost	Allocated	Final Cost
Corridor Impro	vement				\$7,220,000	\$1,444,000	\$8,664,00
1	Transit Signal Priority (per intersection)	2	EA	\$12,000.00	\$24,000	\$4,800	\$28,80
2	Signal Controller (per intersection)	2	EA	\$11,000.00	\$22,000	\$4,400	\$26,40
3	TSP - Bus Hardware (per bus)	0	EA	\$4,500.00	\$0	\$0	\$
4	TSP Central System Upgrades	1	LS	\$38,000.00	\$38,000	\$7,600	\$45,60
5	Side Running Dedicated Lanes		RF	\$60.00	\$0	\$0	\$
6	Median Running Dedicated Lanes - University	7136	RF	\$1,000.00	\$7,136,000	\$1,427,200	\$8,563,20
7	Median Busway Intersection Improvements	3	EA	\$0.00	\$0	\$0	\$
Rapid Bus Stati					\$1,074,000	\$214,800	\$1,288,80
7	Small Shelter	0	EA	\$60,000.00	\$0	\$0	\$(
8	Medium Shelter	1	EA	\$115,000.00	\$115,000	\$23,000	\$138,000
9	Large Shelter	2	EA	\$170,000.00	\$340,000	\$68,000	\$408,000
	60' Bus-Bulb Platform Construction (Demolition and						
10	Improvements)	0	EA	\$60,000.00	\$0	\$0	\$(
	60' In Lane/Turn-Out Platform Construction (Demolition and						
11	Improvements)	0	EA	\$40,000.00	\$0	\$0	\$(
12	60' Fixed Guideway Split-Side Platform	0	EA	\$40,000.00	\$0	\$0	\$(
13	60' Fixed Guideway Shared Center Platform	3	EA	\$20,000.00	\$60,000	\$12,000	\$72,000
14	Additional Site Improvements	0	EA	\$20,000.00	\$0	\$0	\$(
15	Street Signage (2 per station)	6	EA	\$1,000.00	\$6,000	\$1,200	\$7,20
16	Utilities and Drainage Improvements (Minor)	2	EA	\$4,000.00	\$8,000	\$1,600	\$9,60
17	Utilities and Drainage Improvements (Major)	0	EA	\$20,000.00	\$0	\$0	\$(
18	Relocate Signal Pole Pedestal	0	EA	\$6,000.00	\$0	\$0	\$(
19	Install Pedestrian Push Button Pole	0	EA	\$5,000.00	\$0	\$0	\$(
20	Traffic Control	3	EA	\$5,000.00	\$15,000	\$3,000	\$18,000
21	Surface Parking	0	SPACE	\$3,000.00	\$0	\$0	\$(
22	Structured Parking	0	SPACE	\$12,000.00	\$0	\$0	\$(
23	Ticket Vending Machine	5	EA	\$75,000.00	\$375,000	\$75,000	\$450,000
24	Fare Enforcement Equipment (per enforcement officer)		EA	\$4,000.00	\$0	\$0	\$(
25	Emergency Phone	0	EA	\$1,000.00	\$0	\$0	\$(
26	Readerboards	3	EA	\$25,000.00	\$75,000	\$15,000	\$90,000
27	Security Cameras	2	EA	\$20,000.00	\$40,000	\$8,000	\$48,000
28	Wireless Connection	2	EA	\$5,000.00	\$10,000	\$2,000	\$12,000
29	Electrical Service	3	EA	\$10,000.00	\$30,000	\$6,000	\$36,000
Total Construct	ion Costs				\$8,294,000		\$9,952,80
Right of Way					\$499,520	\$499,520	\$999,04
30	Commercial	71360	SF	\$7.00	\$499,520	\$499,520	\$999,04
31	Residential		SF	\$4.00	\$0	\$0	\$(
Vehicles					\$0		\$(
32	Low Floor 60-foot Buses		EA	\$1,000,000.00	\$0	\$0	\$1
33	Low Floor 60-foot Buses w/ Left-Side Doors		EA	\$1,200,000.00	\$0	\$0	\$1
Soft Costs							\$2,986,40
34	Preliminary Engineering		1	1			\$331,76
35	Final Design						\$507,63
36	Project Management for Design and Construction						\$175,870
37	Construction Administration and Management						\$668,51
38	Insurance						\$331,76
39	Legal; Permits; Review Fees by Other Agencies						\$107,91
40	Surveys, Testing, Investigation, Inspection						\$215,83
41	Agency Force Account Work						\$547,59
42	Public Art						\$99,52
	cy (Not Applied to Vehicle Costs)						\$2,090,736.6
West-FG-Univ 1	Total Cost						\$16,028,9

Item No.	Item Description	Quantity	Unit	Unit Cost	Cost	Allocated	Final Cost
Corridor Improv	ement				\$84,000	\$16,800	\$100,800
1	Transit Signal Priority (per intersection)	2	EA	\$12,000.00	\$24,000	\$4,800	\$28,800
2	Signal Controller (per intersection)	2	EA	\$11,000.00	\$22,000	\$4,400	\$26,40
3	TSP - Bus Hardware (per bus)	0	EA	\$4,500.00	\$0	\$0	\$1
4	TSP Central System Upgrades	1	LS	\$38,000.00	\$38,000	\$7,600	\$45,60
5	Side Running Dedicated Lanes	0	RF	\$60.00	\$0	\$0	\$
6	Median Running Dedicated Lanes		RF	\$0.00	\$0	\$0	\$
7	Median Busway Intersection Improvements		EA	\$0.00	\$0	\$0	\$
Rapid Bus Statio				·	\$1,845,000	\$369,000	\$2,214,00
7	Small Shelter	1	EA	\$60,000.00	\$60,000	\$12,000	\$72,00
8	Medium Shelter	2	EA	\$115,000.00	\$230,000	\$46,000	\$276,00
9	Large Shelter	3	EA	\$170,000.00	\$510,000	\$102,000	\$612,00
	60' Bus-Bulb Platform Construction (Demolition and			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,	,	, , , , , , , , , , , , , , , , , , , ,
10	Improvements)	0	EA	\$60,000.00	\$0	\$0	\$
-	60' In Lane/Turn-Out Platform Construction (Demolition and			, ,	, ,		
11	Improvements)	6	EA	\$40,000.00	\$240,000	\$48,000	\$288,00
12	60' Fixed Guideway Split-Side Platform	0	EA	\$40,000.00	\$0	\$0	\$
13	60' Fixed Guideway Shared Center Platform	0	EA	\$20,000.00	\$0	\$0	\$
14	Additional Site Improvements	6	EA	\$20,000.00	\$120,000	\$24,000	\$144,00
15	Street Signage (2 per station)	12	EA	\$1,000.00	\$12,000	\$2,400	\$14,40
16	Utilities and Drainage Improvements (Minor)	2	EA	\$4,000.00	\$8,000	\$1,600	\$9,60
17	Utilities and Drainage Improvements (Major)	0	EA	\$20,000.00	\$0	\$0	\$
18	Relocate Signal Pole Pedestal	0	EA	\$6,000.00	\$0	\$0	\$
19	Install Pedestrian Push Button Pole	0	EA	\$5,000.00	\$0	\$0	\$
20	Traffic Control	6	EA	\$5,000.00	\$30,000	\$6,000	\$36,00
21	Surface Parking	0	SPACE	\$3,000.00	\$0	\$0	\$
22	Structured Parking	0	SPACE	\$12,000.00	\$0	\$0	\$1
23	Ticket Vending Machine	5	EA	\$75,000.00	\$375,000	\$75,000	\$450,000
24	Fare Enforcement Equipment (per enforcement officer)		EA	\$4,000.00	\$0	\$0	\$
25	Emergency Phone	0	EA	\$1,000.00	\$0	\$0	\$
26	Readerboards	5	EA	\$25,000.00	\$125,000	\$25,000	\$150,00
27	Security Cameras	3	EA	\$20,000.00	\$60,000	\$12,000	\$72,00
28	Wireless Connection	3	EA	\$5,000.00	\$15,000	\$3,000	\$18,00
29	Electrical Service	6	EA	\$10,000.00	\$60,000	\$12,000	\$72,00
Total Construction	on Costs				\$1,929,000	\$385,800	\$2,314,80
Right of Way					\$0	\$0	\$
30	Commercial		SF	\$7.00	\$0	\$0	\$
31	Residential		SF	\$4.00	\$0	\$0	\$
Vehicles			, Ji	Ç-1.00	\$0	\$0 \$0	\$
32	Low Floor 60-foot Buses		EA	\$1,000,000.00	\$0	\$0	\$
33	Low Floor 60-foot Buses w/ Left-Side Doors	1	EA	\$1,000,000.00	\$0	\$0 \$0	\$
Soft Costs	Low 11001 00 100t bases w/ Lett-side boots		LA	71,200,000.00	ŞU	30	\$659,71
	Drolliminary Engineering	I	T	T		Т	\$77,16
34 35	Preliminary Engineering					-	\$115,74
	Final Design	 	 	+		 	
36	Project Management for Design and Construction	-	-	+			\$38,58
37	Construction Administration and Management	 	 	+			\$154,32 \$77,16
38	Insurance	-	1				
39	Legal; Permits; Review Fees by Other Agencies	-	-	+			\$19,29
40	Surveys, Testing, Investigation, Inspection	1	1				\$38,58
41	Agency Force Account Work	-	-				\$115,74
42	Public Art	<u> </u>	<u> </u>	1			\$23,14
450/ 0	Maria de de Maleda Const						A4
	y (Not Applied to Vehicle Costs)						\$446,177.7
West-CG-Univ Co	orridor Total Cost						\$3,420,69

Item No.	Item Description	Quantity	Unit	Unit Cost	Cost	Allocated	Final Cost
Corridor Improve	<u> </u>				\$8,911,100	\$1,782,220	\$10,693,320
1	Transit Signal Priority (per intersection)	6	EA	\$12,000.00	\$72,000	\$14,400	\$86,400
2	Signal Controller (per intersection)	6	EA	\$11,000.00	\$66,000	\$13,200	\$79,200
3	TSP - Bus Hardware (per bus)	11	EA	\$4,500.00	\$49,500	\$9,900	\$59,400
4	TSP Central System Upgrades	1	LS	\$38,000.00	\$38,000	\$7,600	\$45,600
5	Side Running Dedicated Lanes	0	RF	\$60.00	\$0	\$0	\$0
6	Median Running Dedicated Lanes - Partial	15792	RF	\$550.00	\$8,685,600	\$1,737,120	\$10,422,720
7	Median Busway Intersection Improvements	6	EA	\$0.00	\$0	\$0	\$(
Rapid Bus Statio	n				\$2,233,000	\$446,600	\$2,679,600
7	Small Shelter	5	EA	\$60,000.00	\$300,000	\$60,000	\$360,000
8	Medium Shelter	0	EA	\$115,000.00	\$0	\$0	\$(
9	Large Shelter	0	EA	\$170,000.00	\$0	\$0	\$(
	60' Bus-Bulb Platform Construction (Demolition and						
10	Improvements)	0	EA	\$60,000.00	\$0	\$0	\$0
	60' In Lane/Turn-Out Platform Construction (Demolition and						
11	Improvements)	0	EA	\$40,000.00	\$0	\$0	\$0
12	60' Fixed Guideway Split-Side Platform	0	EA	\$40,000.00	\$0	\$0	\$(
13	60' Fixed Guideway Shared Center Platform	5	EA	\$20,000.00	\$100,000	\$20,000	\$120,000
14	Additional Site Improvements	0	EA	\$20,000.00	\$0	\$0	\$0
15	Street Signage (2 per station)	0	EA	\$1,000.00	\$0	\$0	\$0
16	Utilities and Drainage Improvements (Minor)	2	EA	\$4,000.00	\$8,000	\$1,600	\$9,600
17	Utilities and Drainage Improvements (Major)	0	EA	\$20,000.00	\$0	\$0	\$(
18	Relocate Signal Pole Pedestal	0	EA	\$6,000.00	\$0	\$0	\$0
19	Install Pedestrian Push Button Pole	0	EA	\$5,000.00	\$0	\$0	\$(
20	Traffic Control	5	EA	\$5,000.00	\$25,000	\$5,000	\$30,000
21	Surface Parking	0	SPACE	\$3,000.00	\$0	\$0	\$(
22	Structured Parking	0	SPACE	\$12,000.00	\$0	\$0	\$0
23	Ticket Vending Machine	2	EA	\$75,000.00	\$150,000	\$30,000	\$180,000
24	Fare Enforcement Equipment (per enforcement officer)		EA	\$4,000.00	\$0	\$0	\$0
25	Emergency Phone	0	EA	\$1,000.00	\$0	\$0	\$0
26	Readerboards	0	EA	\$25,000.00	\$0	\$0	\$0
27	Security Cameras	0	EA	\$20,000.00	\$0	\$0	\$0
28	Wireless Connection	0	EA	\$5,000.00	\$0	\$0	\$0
29	Electrical Service	5	EA	\$10,000.00	\$50,000	\$10,000	\$60,000
30	Transfer Point	1	EA	\$1,600,000.00	\$1,600,000	\$320,000	\$1,920,000
Total Construction	on Costs				\$11,144,100	\$2,228,820	\$13,372,920
Right of Way					\$448,000	\$448,000	\$896,000
30	Commercial	64000	SF	\$7.00	\$448,000	\$448,000	\$896,000
31	Residential		SF	\$4.00	\$0	\$0	\$0
Vehicles					\$13,200,000	\$660,000	\$13,860,000
32	Low Floor 60-foot Buses		EA	\$1,000,000.00	\$0	\$0	\$1
33	Low Floor 60-foot Buses w/ Left-Side Doors	11	EA	\$1,200,000.00	\$13,200,000	\$660,000	\$13,860,00
Soft Costs							\$4,737,682
34	Preliminary Engineering						\$445,76
35	Final Design						\$809,60
36	Project Management for Design and Construction						\$495,842
37	Construction Administration and Management						\$896,00
38	Insurance						\$445,76
39	Legal; Permits; Review Fees by Other Agencies						\$133,84
40	Surveys, Testing, Investigation, Inspection						\$531,68
41	Agency Force Account Work						\$845,44
42	Public Art						\$133,729
	1			1			
15% Contingency	(Not Applied to Vehicle Costs)						\$2,850,990.33
West-FG-MP Tot							\$35,717,593

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Includes High Point Station

Item No.	Item Description	Quantity	Unit	Unit Cost	Cost	Allocated	Final Cost
orridor Improv	rement				\$434,020	\$86,804	\$520,8
1	Transit Signal Priority (per intersection)	7	EA	\$12,000.00	\$84,000	\$16,800	\$100,8
2	Signal Controller (per intersection)	7	EA	\$11,000.00	\$77,000	\$15,400	\$92,4
3	TSP - Bus Hardware (per bus)	11	EA	\$4,500.00	\$49,500	\$9,900	\$59,4
4	TSP Central System Upgrades	1	LS	\$38,000.00	\$38,000	\$7,600	\$45,
5	Side Running Dedicated Lanes	3092	RF	\$60.00	\$185,520	\$37,104	\$222,6
6	Median Running Dedicated Lanes	0	RF	\$0.00	\$0	\$0	
7	Median Busway Intersection Improvements	0	EA	\$0.00	\$0	\$0	
apid Bus Statio	on				\$4,351,000	\$870,200	\$5,221,2
7	Small Shelter	9	EA	\$60,000.00	\$540,000	\$108,000	\$648.0
8	Medium Shelter	0	EA	\$115,000.00	\$0	\$0	
9	Large Shelter	4	EA	\$170,000.00	\$680,000	\$136,000	\$816,
	60' Bus-Bulb Platform Construction (Demolition and						
10	Improvements)	0	EA	\$60,000.00	\$0	\$0	
	60' In Lane/Turn-Out Platform Construction (Demolition and	1		, ,			
11	Improvements)	13	EA	\$40,000.00	\$520,000	\$104,000	\$624,0
12	60' Fixed Guideway Split-Side Platform	0	EA	\$40,000.00	\$0	\$0	
13	60' Fixed Guideway Shared Center Platform	0	EA	\$20,000.00	\$0	\$0	
14	Additional Site Improvements	6	EA	\$20,000.00	\$120,000	\$24,000	\$144,
15	Street Signage (2 per station)	26	EA	\$1,000.00	\$26,000	\$5,200	\$31,2
16	Utilities and Drainage Improvements (Minor)	0	EA	\$4,000.00	\$0	\$0	
17	Utilities and Drainage Improvements (Major)	1	EA	\$20,000.00	\$20,000	\$4,000	\$24,0
18	Relocate Signal Pole Pedestal	0	EA	\$6,000.00	\$0	\$0	
19	Install Pedestrian Push Button Pole	0	EA	\$5,000.00	\$0	\$0	
20	Traffic Control	13	EA	\$5,000.00	\$65,000	\$13,000	\$78,0
21	Surface Parking	0	SPACE	\$3,000.00	\$0	\$0	
22	Structured Parking	0	SPACE	\$12,000.00	\$0	\$0	
23	Ticket Vending Machine	6	EA	\$75,000.00	\$450,000	\$90,000	\$540,0
24	Fare Enforcement Equipment (per enforcement officer)		EA	\$4,000.00	\$0	\$0	
25	Emergency Phone	0	EA	\$1,000.00	\$0	\$0	
26	Readerboards	4	EA	\$25,000.00	\$100,000	\$20,000	\$120,0
27	Security Cameras	4	EA	\$20,000.00	\$80,000	\$16,000	\$96,0
28	Wireless Connection	4	EA	\$5,000.00	\$20,000	\$4,000	\$24,
29	Electrical Service	13	EA	\$10,000.00	\$130,000	\$26,000	\$156,
30	Transfer Point	1	EA	\$1,600,000.00	\$1,600,000	\$320,000	\$1,920,
otal Constructi	ion Costs				\$4,785,020	\$957,004	\$5,742,0
ight of Way					\$0	\$0	
30	Commercial	0	SF	\$7.00	\$0	\$0	
31	Residential	0	SF	\$4.00	\$0	\$0	
ehicles					\$11,000,000	\$550,000	\$11,550,
32	Low Floor 60-foot Buses	11	EA	\$1,000,000.00	\$11,000,000	\$550,000	\$11,550,0
33	Low Floor 60-foot Buses w/ Left-Side Doors		EA	\$1,200,000.00	\$0	\$0	
oft Costs							\$2,296,
34	Preliminary Engineering						\$191,
35	Final Design					Ì	\$397,
36	Project Management for Design and Construction						\$315,
37	Construction Administration and Management					Ì	\$382,
38	Insurance					Ì	\$191,
39	Legal; Permits; Review Fees by Other Agencies						\$47
40	Surveys, Testing, Investigation, Inspection					Ì	\$315
41	Agency Force Account Work					Ì	\$397
42	Public Art	1					\$57
	•		•	•			7
% Contingence	cy (Not Applied to Vehicle Costs)						\$1,205,77

Mix Traffic Length 14248

Added 1 for High Pointe per Mike C's comments.

North Corridor Length (mi) 3.08 No. of Stations 6

Item No.	Item Description	Quantity	Unit	Unit Cost	Cost	Allocated	Final Cos
orridor Improv	vement				\$1,964,000	\$392,800	\$2,35
1	Transit Signal Priority (per intersection)	4	EA	\$12,000.00	\$48,000	\$9,600	\$5
2	Signal Controller (per intersection)	4	EA	\$11,000.00	\$44,000	\$8,800	\$!
3	TSP - Bus Hardware (per bus)	7	EA	\$4,500.00	\$31,500	\$6,300	\$:
4	TSP Central System Upgrades	1	LS	\$38,000.00	\$38,000	\$7,600	\$
5	Side Running Dedicated Lanes	875	RF	\$60.00	\$52,500	\$10,500	\$
6	Median Running Dedicated Lanes - Partial	1500	RF	\$550.00	\$825,000	\$165,000	\$9
7	Rail Grade Crossing	1	LS	\$400,000.00	\$400,000	\$80,000	\$4
8	Yahara Bridge	3000	SF	\$175.00	\$525,000	\$105,000	\$6
9	Median Busway Intersection Improvements	0	EA	\$0.00	\$0	\$0	
pid Bus Statio				70.00	\$4,192,000	\$838,400	\$5,0
10	Small Shelter	6	EA	\$60,000.00	\$360,000	\$72,000	\$4
11	Medium Shelter	2	EA	\$115,000.00	\$230,000	\$46,000	\$2
12	Large Shelter	3	EA	\$170,000.00	\$510,000	\$102,000	\$6
12	60' Bus-Bulb Platform Construction (Demolition and		LA	\$170,000.00	3310,000	\$102,000	ŞŪ
13	Improvements)		EA	\$60,000.00	\$0	\$0	
13	60' In Lane/Turn-Out Platform Construction (Demolition and		LA	300,000.00	ŞÜ	Ş0	
14	Improvements)	11	EA	\$40,000.00	\$440,000	\$88,000	\$5
15	60' Fixed Guideway Split-Side Platform	0	EA	\$40,000.00	\$440,000	\$00,000	Ş 3
16	60' Fixed Guideway Shared Center Platform	0	EA EA	\$20,000.00	\$0 \$0	\$0 \$0	
17	Additional Site Improvements	5	EA	\$20,000.00	\$100,000	\$20,000	\$1
18	Street Signage (2 per station)	22	EA	\$1,000.00	\$22,000	\$4,400	\$1
19	Utilities and Drainage Improvements (Minor)	4	EA	\$4,000.00	\$16,000	\$3,200	\$
20	Utilities and Drainage Improvements (Major)	1	EA	\$20,000.00	\$20,000	\$4,000	\$
21	Relocate Signal Pole Pedestal	0	EA	\$6,000.00	\$20,000	\$4,000	Ş
22	Install Pedestrian Push Button Pole	0	EA	\$5,000.00	\$0	\$0 \$0	
23	Traffic Control	11	EA		\$55,000	\$11,000	\$
		0	SPACE	\$5,000.00	\$55,000	\$11,000	\$
24	Surface Parking	0		\$3,000.00	\$0	\$0 \$0	
25	Structured Parking Ticket Vanding Machine	7	SPACE	\$12,000.00		\$105,000	\$6
26	Ticket Vending Machine Fare Enforcement Equipment (per enforcement officer)	1	EA	\$75,000.00	\$525,000		
27 28		0	EA EA	\$4,000.00 \$1,000.00	\$4,000 \$0	\$800 \$0	
29	Emergency Phone Readerboards	5	EA	\$25,000.00	\$125,000	\$25,000	\$1
30	Security Cameras	3	EA	\$20,000.00	\$60,000	\$12,000	\$
31	Wireless Connection	3	EA	\$5,000.00	\$15,000	\$3,000	\$
32	Electrical Service Transfer Point	11	EA	\$10,000.00	\$110,000	\$22,000	\$1
33		1	EA	\$1,600,000.00	\$1,600,000	\$320,000	\$1,9
al Construct	ion Costs				\$6,156,000	\$1,231,200	\$7,3
ht of Way					\$468,300	\$468,300	\$9
34	Commercial	66900.00	SF	\$7.00	\$468,300	\$468,300	\$9
35	Residential		SF	\$4.00	\$0	\$0	
nicles					\$7,000,000	\$350,000	\$7,3
36	Low Floor 60-foot Buses	7	EA	\$1,000,000.00	\$7,000,000	\$350,000	\$7,3
37	Low Floor 60-foot Buses w/ Left-Side Doors	1	EA	\$1,200,000.00	\$0	\$0	
t Costs							\$2,6
38	Preliminary Engineering						\$2
39	Final Design						\$4
40	Project Management for Design and Construction						\$2
41	Construction Administration and Management						\$4
42	Insurance						\$2
43	Legal; Permits; Review Fees by Other Agencies						\$
44	Surveys, Testing, Investigation, Inspection						\$3
45	Agency Force Account Work						\$4
46	Public Art						\$
						•	
6 Contingen	cy (Not Applied to Vehicle Costs)						\$1,648,

Mix Traffic Length 15237

Added 1 per Mike C's comments. Added 1 per Mike C's comments. South Corridor Length (mi) 1.45

Length (mi) 1.4 No. of Stations 3

Item No.	Item Description	Quantity	Unit	Unit Cost	Cost	Allocated	Final Cos
idor Improv	rement				\$38,000	\$7,600	\$4
1	Transit Signal Priority (per intersection)	0	EA	\$12,000.00	\$0	\$0	
2	Signal Controller (per intersection)	0	EA	\$11,000.00	\$0	\$0	
3	TSP - Bus Hardware (per bus)	0	EA	\$4,500.00	\$0	\$0	
4	TSP Central System Upgrades	1	LS	\$38,000.00	\$38,000	\$7,600	\$4
5	Side Running Dedicated Lanes	0	RF	\$60.00	\$0	\$0	
6	Median Running Dedicated Lanes	0	RF	\$0.00	\$0	\$0	
7	Median Busway Intersection Improvements	0	EA	\$0.00	\$0	\$0	
id Bus Statio	n				\$1,173,000	\$234,600	\$1,40
7	Small Shelter	4	EA	\$60,000.00	\$240,000	\$48,000	\$2
8	Medium Shelter	0	EA	\$115,000.00	\$0	\$0	
9	Large Shelter	2	EA	\$170,000.00	\$340,000	\$68,000	\$4
	60' Bus-Bulb Platform Construction (Demolition and						
10	Improvements)	0	EA	\$60,000.00	\$0	\$0	
	60' In Lane/Turn-Out Platform Construction (Demolition and						
11	Improvements)	6	EA	\$40,000.00	\$240,000	\$48,000	\$2
12	60' Fixed Guideway Split-Side Platform	0	EA	\$40,000.00	\$0	\$0	
13	60' Fixed Guideway Shared Center Platform	0	EA	\$20,000.00	\$0	\$0	
14	Additional Site Improvements	3	EA	\$20,000.00	\$60,000	\$12,000	\$
15	Street Signage (2 per station)	12	EA	\$1,000.00	\$12,000	\$2,400	\$
16	Utilities and Drainage Improvements (Minor)	3	EA	\$4,000.00	\$12,000	\$2,400	\$
17	Utilities and Drainage Improvements (Major)	0	EA	\$20,000.00	\$0	\$0	
18	Relocate Signal Pole Pedestal	0	EA	\$6,000.00	\$0	\$0	
19	Install Pedestrian Push Button Pole	0	EA	\$5,000.00	\$0	\$0	
20	Traffic Control	6	EA	\$5,000.00	\$30,000	\$6,000	\$
21	Surface Parking	0	SPACE	\$3,000.00	\$0	\$0	
22	Structured Parking	0	SPACE	\$12,000.00	\$0	\$0	
23	Ticket Vending Machine	1	EA	\$75,000.00	\$75,000	\$15,000	\$
24	Fare Enforcement Equipment (per enforcement officer)	1	EA	\$4,000.00	\$4,000	\$800	•
25	Emergency Phone	0	EA	\$1,000.00	\$0	\$0	
26	Readerboards	2	EA	\$25,000.00	\$50,000	\$10,000	\$
27	Security Cameras	2	EA	\$20,000.00	\$40,000	\$8,000	<u>.</u>
28	Wireless Connection	2	EA	\$5,000.00	\$10,000	\$2,000	\$
29	Electrical Service	6	EA	\$10,000.00	\$60,000	\$12,000	\$
l Constructi	on Costs			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$1,211,000	\$242,200	\$1,4
t of Way					\$41,300	\$41,300	\$
30	Commercial	5900.00	SF	\$7.00	\$41,300	\$41,300	\$
31	Residential		SF	\$4.00	\$0	\$0	
icles			<u> </u>	Ţ	\$0	\$0	
32	Low Floor 60-foot Buses		EA	\$1,000,000.00	\$0	\$0	
33	Low Floor 60-foot Buses w/ Left-Side Doors		EA	\$1,200,000.00	\$0	\$0	
Costs				+1,200,000.00	30	70	\$4
34	Preliminary Engineering	T		1 1		1	\$
35	Final Design	†		+ +			\$
36	Project Management for Design and Construction	 		 		+	\$
37	Construction Administration and Management	1		+ +			\$
38	Insurance	1		+ +			\$
39	Legal; Permits; Review Fees by Other Agencies	 		+ +			<u> </u>
40	Surveys, Testing, Investigation, Inspection	 		+ +			\$
41	Agency Force Account Work	1		+ +			\$
	Public Art	 		+ +			\$
							>
42						l e	

Mix Traffic Length 7631

Item No.	Item Description	Quantity	Unit	Unit Cost	Cost	Allocated	Final Cost
Corridor Impro	vement				\$1,519,500	\$303,900	\$1,823,40
1	Transit Signal Priority (per intersection)	2	EA	\$12,000.00	\$24,000	\$4,800	\$28,80
2	Signal Controller (per intersection)	2	EA	\$11,000.00	\$22,000	\$4,400	\$26,40
3	TSP - Bus Hardware (per bus)	9	EA	\$4,500.00	\$40,500	\$8,100	\$48,60
4	TSP Central System Upgrades	1	LS	\$38,000.00	\$38,000	\$7,600	\$45,60
5	Side Running Dedicated Lanes	0	RF	\$60.00	\$0	\$0	
6	Median Running Dedicated Lanes - Full	1550	RF	\$900.00	\$1,395,000	\$279,000	\$1,674,00
7	Median Busway Intersection Improvements	2	EA	\$0.00	\$0	\$0	Ç
Rapid Bus Stati	on				\$441,000	\$88,200	\$529,20
7	Small Shelter	1	EA	\$60,000.00	\$60,000	\$12,000	\$72,00
8	Medium Shelter	0	EA	\$115,000.00	\$0	\$0	
9	Large Shelter	1	EA	\$170,000.00	\$170,000	\$34,000	\$204,00
	60' Bus-Bulb Platform Construction (Demolition and						
10	Improvements)	0	EA	\$60,000.00	\$0	\$0	Ç
	60' In Lane/Turn-Out Platform Construction (Demolition and						
11	Improvements)	0	EA	\$40,000.00	\$0	\$0	ç
12	60' Fixed Guideway Split-Side Platform	0	EA	\$40,000.00	\$0	\$0	(
13	60' Fixed Guideway Shared Center Platform	2	EA	\$20,000.00	\$40,000	\$8,000	\$48,00
14	Additional Site Improvements	0	EA	\$20,000.00	\$0	\$0	
15	Street Signage (2 per station)	4	EA	\$1,000.00	\$4,000	\$800	\$4,80
16	Utilities and Drainage Improvements (Minor)	3	EA	\$4,000.00	\$12,000	\$2,400	\$14,40
17	Utilities and Drainage Improvements (Major)	0	EA	\$20,000.00	\$0	\$0	
18	Relocate Signal Pole Pedestal	0	EA	\$6,000.00	\$0	\$0	(
19	Install Pedestrian Push Button Pole	0	EA	\$5,000.00	\$0	\$0	
20	Traffic Control	2	EA	\$5,000.00	\$10,000	\$2,000	\$12,00
21	Surface Parking	0	SPACE	\$3,000.00	\$0	\$0	
22	Structured Parking	0	SPACE	\$12,000.00	\$0	\$0	
23	Ticket Vending Machine	1	EA	\$75,000.00	\$75,000	\$15,000	\$90,00
24	Fare Enforcement Equipment (per enforcement officer)		EA	\$4,000.00	\$0	\$0	
25	Emergency Phone	0	EA	\$1,000.00	\$0	\$0	
26	Readerboards	1	EA	\$25,000.00	\$25,000	\$5,000	\$30,00
27	Security Cameras	1	EA	\$20,000.00	\$20,000	\$4,000	\$24,00
28	Wireless Connection	1	EA	\$5,000.00	\$5,000	\$1,000	\$6,00
29	Electrical Service	2	EA	\$10,000.00	\$20,000	\$4,000	\$24,00
otal Construct	ion Costs				\$1,960,500	\$392,100	\$2,352,60
ight of Way					\$0	\$0	, , ,
30	Commercial		SF	\$7.00	\$0	\$0	
31	Residential		SF	\$4.00	\$0	\$0	
ehicles				,	\$10,800,000	\$540,000	\$11,340,00
32	Low Floor 60-foot Buses		EA	\$1,000,000.00	\$0	\$0	Ψ12,0 .0,0
33	Low Floor 60-foot Buses w/ Left-Side Doors	9	EA	\$1,200,000.00	\$10,800,000	\$540,000	\$11,340,00
oft Costs	1			71,200,000.00	710,000,000	Ç5-10,000	\$1,318,49
34	Preliminary Engineering				I	Т	\$ 1,518,4 3
35	Final Design			+			\$78,42
36	Project Management for Design and Construction			+			\$225,63
37	Construction Administration and Management						\$255,21
38	Insurance			+			\$156,84 \$78,42
38				+			\$78,42 \$19,60
40	Legal; Permits; Review Fees by Other Agencies			+			
	Surveys, Testing, Investigation, Inspection			+			\$255,2
41	Agency Force Account Work			+			\$225,63
42	Public Art						\$23,52
0/ 0	(No. A. alla Ivalia Cont.)						Å===
	cy (Not Applied to Vehicle Costs)						\$550,663.6
outh-FG-Park!	N Corridor Total Cost						\$15,561,75

Item No.	Item Description	Quantity	Unit	Unit Cost	Cost	Allocated	Final Cost
Corridor Impro	vement				\$124,500	\$24,900	\$149,400
1	Transit Signal Priority (per intersection)	2	EA	\$12,000.00	\$24,000	\$4,800	\$28,800
2	Signal Controller (per intersection)	2	EA	\$11,000.00	\$22,000	\$4,400	\$26,400
3	TSP - Bus Hardware (per bus)	9	EA	\$4,500.00	\$40,500	\$8,100	\$48,600
4	TSP Central System Upgrades	1	LS	\$38,000.00	\$38,000	\$7,600	\$45,600
5	Side Running Dedicated Lanes	0	RF	\$60.00	\$0	\$0	\$(
6	Median Running Dedicated Lanes	0	RF	\$0.00	\$0	\$0	\$1
7	Median Busway Intersection Improvements	0	EA	\$0.00	\$0	\$0	\$1
Rapid Bus Stati	on	•			\$755,000	\$151,000	\$906,000
7	Small Shelter	3	EA	\$60,000.00	\$180,000	\$36,000	\$216,00
8	Medium Shelter	0	EA	\$115,000.00	\$0	\$0	\$1
9	Large Shelter	1	EA	\$170,000.00	\$170,000	\$34,000	\$204,00
	60' Bus-Bulb Platform Construction (Demolition and						
10	Improvements)	0	EA	\$60,000.00	\$0	\$0	\$
	60' In Lane/Turn-Out Platform Construction (Demolition and						
11	Improvements)	4	EA	\$40,000.00	\$160,000	\$32,000	\$192,00
12	60' Fixed Guideway Split-Side Platform	0	EA	\$40,000.00	\$0	\$0	\$
13	60' Fixed Guideway Shared Center Platform	0	EA	\$20,000.00	\$0	\$0	\$
14	Additional Site Improvements	2	EA	\$20,000.00	\$40,000	\$8,000	\$48,00
15	Street Signage (2 per station)	8	EA	\$1,000.00	\$8,000	\$1,600	\$9,60
16	Utilities and Drainage Improvements (Minor)	3	EA	\$4,000.00	\$12,000	\$2,400	\$14,40
17	Utilities and Drainage Improvements (Major)	0	EA	\$20,000.00	\$0	\$0	\$1
18	Relocate Signal Pole Pedestal	0	EA	\$6,000.00	\$0	\$0	\$1
19	Install Pedestrian Push Button Pole	0	EA	\$5,000.00	\$0	\$0	\$1
20	Traffic Control	4	EA	\$5,000.00	\$20,000	\$4,000	\$24,00
21	Surface Parking	0	SPACE	\$3,000.00	\$0	\$0	\$1
22	Structured Parking	0	SPACE	\$12,000.00	\$0	\$0	\$1
23	Ticket Vending Machine	1	EA	\$75,000.00	\$75,000	\$15,000	\$90,00
24	Fare Enforcement Equipment (per enforcement officer)		EA	\$4,000.00	\$0	\$0	\$
25	Emergency Phone	0	EA	\$1,000.00	\$0	\$0	\$
26	Readerboards	1	EA	\$25,000.00	\$25,000	\$5,000	\$30,00
27	Security Cameras	1	EA	\$20,000.00	\$20,000	\$4,000	\$24,00
28	Wireless Connection	1	EA	\$5,000.00	\$5,000	\$1,000	\$6,00
29	Electrical Service	4	EA	\$10,000.00	\$40,000	\$8,000	\$48,00
Total Construct	tion Costs				\$879,500	\$175,900	\$1,055,40
Right of Way					\$0	\$0	\$
30	Commercial		SF	\$7.00	\$0	\$0	\$
31	Residential		SF	\$4.00	\$0	\$0	\$1
Vehicles		•			\$9,000,000	\$450,000	\$9,450,00
32	Low Floor 60-foot Buses	9	EA	\$1,000,000.00	\$9,000,000	\$450,000	\$9,450,00
33	Low Floor 60-foot Buses w/ Left-Side Doors		EA	\$1,200,000.00	\$0	\$0	\$
Soft Costs							\$840,78
34	Preliminary Engineering						\$35,18
35	Final Design						\$142,77
36	Project Management for Design and Construction	1				<u> </u>	\$197,59
37	Construction Administration and Management						\$70,36
38	Insurance	1					\$35,18
39	Legal; Permits; Review Fees by Other Agencies						\$8,79
40	Surveys, Testing, Investigation, Inspection	1					\$197,59
41	Agency Force Account Work						\$142,77
42	Public Art	1					\$10,55
	•	•	•	•			
15% Contingen	cy (Not Applied to Vehicle Costs)						\$284,428.3!
	N Total Cost						\$11,630,61

Item No.	Item Description	Quantity	Unit	Unit Cost	Cost	Allocated	Final Cost
Corridor Impro	vement				\$8,994,900	\$1,798,980	\$10,793,88
1	Transit Signal Priority (per intersection)	2	EA	\$12,000.00	\$24,000	\$4,800	\$28,8
2	Signal Controller (per intersection)	2	EA	\$11,000.00	\$22,000	\$4,400	\$26,4
3	TSP - Bus Hardware (per bus)	0	EA	\$4,500.00	\$0	\$0	
4	TSP Central System Upgrades	1	LS	\$38,000.00	\$38,000	\$7,600	\$45,6
5	Side Running Dedicated Lanes	0	RF	\$60.00	\$0	\$0	
6	Median Running Dedicated Lanes - Full	9901	RF	\$900.00	\$8,910,900	\$1,782,180	\$10,693,0
7	Median Busway Intersection Improvements	6	EA	\$0.00	\$0	\$0	
Rapid Bus Stati	ion				\$2,247,000	\$449,400	\$2,696,40
7	Small Shelter	5	EA	\$60,000.00	\$300,000	\$60,000	\$360,0
8	Medium Shelter	0	EA	\$115,000.00	\$0	\$0	
9	Large Shelter	0	EA	\$170,000.00	\$0	\$0	
	60' Bus-Bulb Platform Construction (Demolition and						
10	Improvements)	0	EA	\$60,000.00	\$0	\$0	
	60' In Lane/Turn-Out Platform Construction (Demolition and						
11	Improvements)	0	EA	\$40,000.00	\$0	\$0	
12	60' Fixed Guideway Split-Side Platform	0	EA	\$40,000.00	\$0	\$0	,
13	60' Fixed Guideway Shared Center Platform	5	EA	\$20,000.00	\$100,000	\$20,000	\$120,0
14	Additional Site Improvements	0	EA	\$20,000.00	\$0	\$0	
15	Street Signage (2 per station)	10	EA	\$1,000.00	\$10,000	\$2,000	\$12,0
16	Utilities and Drainage Improvements (Minor)	3	EA	\$4,000.00	\$12,000	\$2,400	\$14,4
17	Utilities and Drainage Improvements (Major)	0	EA	\$20,000.00	\$0	\$0	
18	Relocate Signal Pole Pedestal	0	EA	\$6,000.00	\$0	\$0	
19	Install Pedestrian Push Button Pole	0	EA	\$5,000.00	\$0	\$0	
20	Traffic Control	5	EA	\$5,000.00	\$25,000	\$5,000	\$30,0
21	Surface Parking	0	SPACE	\$3,000.00	\$0	\$0	
22	Structured Parking	0	SPACE	\$12,000.00	\$0	\$0	
23	Ticket Vending Machine	2	EA	\$75,000.00	\$150,000	\$30,000	\$180,0
24	Fare Enforcement Equipment (per enforcement officer)		EA	\$4,000.00	\$0	\$0	
25	Emergency Phone	0	EA	\$1,000.00	\$0	\$0	:
26	Readerboards	0	EA	\$25,000.00	\$0	\$0	
27	Security Cameras	0	EA	\$20,000.00	\$0	\$0	
28	Wireless Connection	0	EA	\$5,000.00	\$0	\$0	
29	Electrical Service	5	EA	\$10,000.00	\$50,000	\$10,000	\$60,0
30	Transfer Point	1	EA	\$1,600,000.00	\$1,600,000	\$320,000	\$1,920,0
Total Construct	tion Costs				\$11,241,900	\$2,248,380	\$13,490,2
Right of Way					\$448,000	\$448,000	\$896,0
30	Commercial	64000	SF	\$7.00	\$448,000	\$448,000	\$896,0
31	Residential		SF	\$4.00	\$0	\$0	
Vehicles					\$0	\$0	
32	Low Floor 60-foot Buses		EA	\$1,000,000.00	\$0	\$0	
33	Low Floor 60-foot Buses w/ Left-Side Doors		EA	\$1,200,000.00	\$0	\$0	
Soft Costs							\$3,979,1
34	Preliminary Engineering						\$449,6
35	Final Design						\$683,4
36	Project Management for Design and Construction						\$233,7
37	Construction Administration and Management						\$903,8
38	Insurance						\$449,6
39	Legal; Permits; Review Fees by Other Agencies	1					\$134,8
40	Surveys, Testing, Investigation, Inspection						\$269,6
41	Agency Force Account Work						\$719,3
42	Public Art	1					\$134,9
				•			
5% Contingen	cy (Not Applied to Vehicle Costs)						\$2,754,811.

Item No.	Item Description	Quantity	Unit	Unit Cost	Cost	Allocated	Final Cost
orridor Improv	ement				\$678,060	\$135,612	\$813,67
1	Transit Signal Priority (per intersection)	2	EA	\$12,000.00	\$24,000	\$4,800	\$28,80
2	Signal Controller (per intersection)	2	EA	\$11,000.00	\$22,000	\$4,400	\$26,4
3	TSP - Bus Hardware (per bus)	0	EA	\$4,500.00	\$0	\$0	,
4	TSP Central System Upgrades	1	LS	\$38,000.00	\$38,000	\$7,600	\$45,6
5	Side Running Dedicated Lanes	9901	RF	\$60.00	\$594,060	\$118,812	\$712,87
6	Median Running Dedicated Lanes		RF	\$0.00	\$0	\$0	
7	Median Busway Intersection Improvements		EA	\$0.00	\$0	\$0	
tapid Bus Statio	on .	_			\$3,032,000	\$606,400	\$3,638,40
7	Small Shelter	10	EA	\$60,000.00	\$600,000	\$120,000	\$720,00
8	Medium Shelter	0	EA	\$115,000.00	\$0	\$0	,
9	Large Shelter	0	EA	\$170,000.00	\$0	\$0	
	60' Bus-Bulb Platform Construction (Demolition and	_		72.0,000.00		7-	
10	Improvements)	0	EA	\$60,000.00	\$0	\$0	9
10	60' In Lane/Turn-Out Platform Construction (Demolition and	, in the second	271	\$00,000.00	ΨÜ	γo	,
11	Improvements)	10	EA	\$40,000.00	\$400,000	\$80,000	\$480,00
12	60' Fixed Guideway Split-Side Platform	0	EA	\$40,000.00	\$0	\$0	ψ.00,00 Ç
13	60' Fixed Guideway Shared Center Platform	0	EA	\$20,000.00	\$0	\$0	3
14	Additional Site Improvements	5	EA	\$20,000.00	\$100,000	\$20,000	\$120,00
15	Street Signage (2 per station)	20	EA	\$1,000.00	\$20,000	\$4,000	\$24,00
16	Utilities and Drainage Improvements (Minor)	3	EA	\$4,000.00	\$12,000	\$2,400	\$14,40
17	Utilities and Drainage Improvements (Major)	0	EA	\$20,000.00	\$12,000	\$0	71-7,-10
18	Relocate Signal Pole Pedestal	0	EA	\$6,000.00	\$0	\$0 \$0	Ç
19	Install Pedestrian Push Button Pole	0	EA	\$5,000.00	\$0	\$0 \$0	`
20	Traffic Control	10	EA	\$5,000.00	\$50,000	\$10,000	\$60,00
21	Surface Parking	0	SPACE	\$3,000.00		\$10,000	300,00
22	Structured Parking	0	SPACE	\$12,000.00	\$0 \$0	\$0 \$0	
	Ticket Vending Machine	2	EA		\$150,000	\$30,000	•
23		2		\$75,000.00			\$180,00
24 25	Fare Enforcement Equipment (per enforcement officer)	0	EA EA	\$4,000.00 \$1,000.00	\$0 \$0	\$0 \$0	<u> </u>
26	Emergency Phone Readerboards	0		_	\$0 \$0	\$0 \$0	<u>;</u>
		0	EA EA	\$25,000.00	\$0 \$0	\$0 \$0	
27	Security Cameras			\$20,000.00			
28 29	Wireless Connection	0 10	EA	\$5,000.00	\$0	\$0	Ć430.00
30	Electrical Service Transfer Point	10	EA EA	\$10,000.00	\$100,000	\$20,000	\$120,00
		1	EA	\$1,600,000.00	\$1,600,000	\$320,000	\$1,920,00
otal Constructi	on Costs				\$3,710,060	\$742,012	\$4,452,07
light of Way				1	\$448,000	\$448,000	\$896,00
30	Commercial	64000	SF	\$7.00	\$448,000	\$448,000	\$896,00
31	Residential		SF	\$4.00	\$0	\$0	
ehicles/			•		\$0	\$0	Ş
32	Low Floor 60-foot Buses		EA	\$1,000,000.00	\$0	\$0	9
33	Low Floor 60-foot Buses w/ Left-Side Doors		EA	\$1,200,000.00	\$0	\$0	
oft Costs							\$1,403,24
34	Preliminary Engineering						\$148,40
35	Final Design						\$231,56
36	Project Management for Design and Construction						\$83,16
37	Construction Administration and Management						\$301,28
38	Insurance						\$148,40
39	Legal; Permits; Review Fees by Other Agencies						\$59,50
40	Surveys, Testing, Investigation, Inspection					Ì	\$119,0
41	Agency Force Account Work						\$267,4
42	Public Art						\$44,5
	•	•	•	•		II.	· /-
5% Contingenc	y (Not Applied to Vehicle Costs)						\$1,012,696.
	,						72,012,030.

2 Signal Co 3 TSP - Bu: 4 TSP Cent 5 Side Run 6 Median 7 Median 7 Median 7 Small Sh 8 Medium 9 Large Sh 60' Bus-I 10 Improve 60' In La 11 Improve 12 60' Fixec 13 60' Fixec 14 Addition 15 Street Si 16 Utilities 17 Utilities 18 Relocate 19 Install Pe 20 Traffic C 21 Surface I 22 Structur 23 Ticket Vo 24 Fare Enf 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs	Shelter elter Bulb Platform Construction (Demolition and ments) ne/Turn-Out Platform Construction (Demolition and ments) d Guideway Split-Side Platform d Guideway Shared Center Platform lal Site Improvements gnage (2 per station) and Drainage Improvements (Minor) and Drainage Improvements (Major) elsignal Pole Pedestal edestrian Push Button Pole ontrol	4 4 0 1 0 6281 2 2 0 0 0 0 0 2 0 4 3 1 0 0 2 2	EA E	\$12,000.00 \$11,000.00 \$4,500.00 \$38,000.00 \$60.00 \$550.00 \$115,000.00 \$170,000.00 \$40,000.00 \$40,000.00 \$20,000.00 \$1,000.00 \$20,000.00 \$4,000.00 \$20,000.00 \$20,000.00	\$3,584,550 \$48,000 \$44,000 \$0 \$38,000 \$3,454,550 \$0 \$120,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$716,910 \$9,600 \$8,800 \$7,600 \$0 \$690,910 \$0 \$45,200 \$24,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$4,301,460 \$57,600 \$52,800 \$45,600 \$44,145,460 \$271,200 \$144,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
2 Signal Co 3 TSP - Bu: 4 TSP Cent 5 Side Run 6 Median 7 Median 7 Small Sh 8 Medium 9 Large Sh 60' Bus-I 10 Improve 60' In La 11 Improve 12 60' Fixed 13 60' Fixed 14 Addition 15 Street Si 16 Utilities 17 Utilities 18 Relocate 19 Install Pe 20 Traffic C 21 Surface I 22 Structur 23 Ticket Ve 24 Fare Enf 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs	ontroller (per intersection) s Hardware (per bus) tral System Upgrades uning Dedicated Lanes Running Dedicated Lanes - Partial Busway Intersection Improvements elter Shelter elter Bulb Platform Construction (Demolition and ments) ne/Turn-Out Platform Construction (Demolition and ments) d Guideway Split-Side Platform d Guideway Shared Center Platform ald Site Improvements gnage (2 per station) and Drainage Improvements (Major) s Signal Pole Pedestal edestrian Push Button Pole ontrol	4 0 1 0 6281 2 0 0 0 0 0 0 2 0 0 4 3 1 0 0	EA EA LS RF RF EA	\$11,000.00 \$4,500.00 \$38,000.00 \$60.00 \$550.00 \$0.00 \$115,000.00 \$170,000.00 \$40,000.00 \$20,000.00 \$20,000.00 \$1,000.00 \$4,000.00	\$44,000 \$0 \$38,000 \$0 \$3,454,550 \$0 \$120,000 \$0 \$0 \$0 \$0 \$0 \$1,40,000 \$0 \$40,000 \$12,000	\$8,800 \$0 \$7,600 \$0 \$690,910 \$0 \$45,200 \$24,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$52,800 \$10 \$45,600 \$41,45,460 \$10 \$271,200 \$144,000 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10
3 TSP - Bu: 4 TSP Cent 5 Side Run 6 Median 7 Median 7 Median 7 Small Sh 8 Medium 9 Large Sh 60' Bus-I 10 Improve 60' In La 11 Improve 12 60' Fixed 13 60' Fixed 14 Addition 15 Street Si 16 Utilities 17 Utilities 18 Relocate 19 Install Pe 20 Traffic C 21 Surface I 22 Structur 23 Ticket Va 24 Fare Enf 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs	s Hardware (per bus) tral System Upgrades uning Dedicated Lanes Running Dedicated Lanes - Partial Busway Intersection Improvements elter Shelter elter Bulb Platform Construction (Demolition and ments) ne/Turn-Out Platform Construction (Demolition and ments) d Guideway Split-Side Platform d Guideway Shared Center Platform ald Site Improvements gnage (2 per station) and Drainage Improvements (Major) es Signal Pole Pedestal edestrian Push Button Pole ontrol	0 1 0 6281 2 0 0 0 0 0 2 0 4 3 1 0 0	EA LS RF RF EA	\$4,500.00 \$38,000.00 \$60.00 \$550.00 \$0.00 \$115,000.00 \$170,000.00 \$40,000.00 \$40,000.00 \$20,000.00 \$1,000.00 \$4,000.00	\$0 \$38,000 \$0 \$3,454,550 \$0 \$226,000 \$120,000 \$0 \$0 \$0 \$0 \$0 \$0 \$40,000 \$12,000	\$0 \$7,600 \$0 \$690,910 \$0 \$45,200 \$24,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1 \$45,600 \$4,145,460 \$1 \$271,20 \$144,000 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1
4 TSP Cent 5 Side Run 6 Median 7 Median 7 Median 7 Small Sh 8 Medium 9 Large Sh 60' Bus-1 10 Improve 60' In La 11 Improve 12 60' Fixed 13 60' Fixed 14 Addition 15 Street Si 16 Utilities 17 Utilities 18 Relocate 19 Install Pe 20 Traffic C 21 Surface I 22 Structur 23 Ticket Va 24 Fare Enf 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs	tral System Upgrades uning Dedicated Lanes Running Dedicated Lanes - Partial Busway Intersection Improvements elter Shelter elter Bulb Platform Construction (Demolition and ments) ne/Turn-Out Platform Construction (Demolition and ments) d Guideway Split-Side Platform d Guideway Shared Center Platform ald Site Improvements gnage (2 per station) and Drainage Improvements (Major) es Signal Pole Pedestal edestrian Push Button Pole ontrol	1 0 6281 2 0 0 0 0 0 2 0 4 3 1 0 0	EA E	\$38,000.00 \$60.00 \$550.00 \$0.00 \$115,000.00 \$170,000.00 \$40,000.00 \$20,000.00 \$1,000.00 \$4,000.00 \$20,000.00 \$4,000.00	\$38,000 \$0 \$3,454,550 \$0 \$226,000 \$120,000 \$0 \$0 \$0 \$0 \$0 \$12,000 \$0 \$12,000 \$0 \$12,000	\$7,600 \$0 \$690,910 \$0 \$45,200 \$24,000 \$0 \$0 \$0 \$0 \$0 \$0 \$8,000 \$8,000 \$8,000	\$45,60 \$ \$4,145,46 \$ \$271,20 \$144,00 \$ \$ \$ \$ \$
5 Side Run 6 Median 7 Median 7 Median 7 Small Sh 8 Medium 9 Large Sh 60' Bus-l 10 Improve 60' In La 11 Improve 12 60' Fixed 13 60' Fixed 14 Addition 15 Street Si 16 Utilities 17 Utilities 18 Relocate 19 Install Pe 20 Traffic C 21 Surface I 22 Structur 23 Ticket Vd 24 Fare Enf 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs	Ining Dedicated Lanes Running Dedicated Lanes - Partial Busway Intersection Improvements elter Shelter elter Bulb Platform Construction (Demolition and ments) Ine/Turn-Out Platform Construction (Demolition and ments) Id Guideway Split-Side Platform Id Guideway Shared Center Platform Id Site Improvements Ignage (2 per station) In Drainage Improvements (Minor) In Drainage Improvements (Major) In Signal Pole Pedestal In Sedestrian Push Button Pole In Source In Service In	0 6281 2 0 0 0 0 0 2 0 4 3 1 0 0	EA E	\$60.00 \$550.00 \$0.00 \$10.00 \$115,000.00 \$170,000.00 \$40,000.00 \$40,000.00 \$20,000.00 \$1,000.00 \$4,000.00	\$0 \$3,454,550 \$0 \$226,000 \$120,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$12,000 \$12,000 \$12,000	\$0 \$690,910 \$0 \$45,200 \$24,000 \$0 \$0 \$0 \$0 \$0 \$8,000 \$8,000	\$4,145,466 \$1,445,466 \$1271,200 \$144,000 \$1,500 \$1,
6 Median 7 Median 7 Median 7 Small Sh 8 Medium 9 Large Sh 60' Bus-I 10 Improve 60' In La 11 Improve 12 60' Fixed 13 60' Fixed 14 Addition 15 Street Si 16 Utilities 17 Utilities 18 Relocate 19 Install Pe 20 Traffic C 21 Surfacet 22 Structur 23 Ticket Ve 24 Fare Enf 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica	Running Dedicated Lanes - Partial Busway Intersection Improvements elter Shelter elter Bulb Platform Construction (Demolition and ments) d Guideway Split-Side Platform d Guideway Shared Center Platform ald Site Improvements gnage (2 per station) and Drainage Improvements (Minor) and Drainage Improvements (Major) el Signal Pole Pedestal edestrian Push Button Pole ontrol	6281 2 0 0 0 0 0 0 0 2 0 4 3 1 0 0	EA E	\$550.00 \$0.00 \$10.00 \$115,000.00 \$170,000.00 \$40,000.00 \$40,000.00 \$20,000.00 \$1,000.00 \$4,000.00	\$3,454,550 \$0 \$226,000 \$120,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$12,000 \$12,000 \$12,000	\$690,910 \$0 \$45,200 \$24,000 \$0 \$0 \$0 \$0 \$0 \$8,000 \$0 \$8,000	\$4,145,46i \$1,271,20i \$144,00i \$1,271,20i \$1,271,20i \$1,271,20i \$1,271,20i \$1,271,20i \$1,271,20i \$48,00i \$1,271,20i \$48,00i \$1,271,20i
7 Median Rapid Bus Station 7 Small Sh 8 Medium 9 Large Sh 60' Bus-l 10 Improve 60' In La 11 Improve 12 60' Fixed 13 60' Fixed 14 Addition 15 Street Si 16 Utilities 17 Utilities 18 Relocate 19 Install Pe 20 Traffic C 21 Surface I 22 Structur 23 Ticket Ve 24 Fare Enfe 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica	Busway Intersection Improvements elter Shelter elter Bulb Platform Construction (Demolition and ments) Inc/Turn-Out Platform Construction (Demolition and ments) I Guideway Split-Side Platform I Guideway Shared Center Platform I Guideway Shared Center Platform I Guideway Shared Center Platform I Side Improvements I gnage (2 per station) I and Drainage Improvements (Minor) I and Drainage Improvements (Major) I Signal Pole Pedestal I edestrian Push Button Pole I ontrol	2 0 0 0 0 0 0 2 0 4 3 1 0 0	EA E	\$0.00 \$60,000.00 \$115,000.00 \$170,000.00 \$60,000.00 \$40,000.00 \$20,000.00 \$20,000.00 \$1,000.00 \$4,000.00	\$0 \$226,000 \$120,000 \$0 \$0 \$0 \$0 \$0 \$0 \$40,000 \$12,000	\$0 \$45,200 \$24,000 \$0 \$0 \$0 \$0 \$0 \$8,000 \$0 \$8,000	\$144,000 \$144,000 \$15,
Rapid Bus Station	elter Shelter elter Bulb Platform Construction (Demolition and ments) ne/Turn-Out Platform Construction (Demolition and ments) d Guideway Split-Side Platform d Guideway Shared Center Platform lad Site Improvements gnage (2 per station) and Drainage Improvements (Minor) and Drainage Improvements (Major) el Signal Pole Pedestal edestrian Push Button Pole ontrol	2 0 0 0 0 0 0 2 0 4 3 1	EA	\$60,000.00 \$115,000.00 \$170,000.00 \$60,000.00 \$40,000.00 \$40,000.00 \$20,000.00 \$20,000.00 \$1,000.00 \$4,000.00	\$226,000 \$120,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$40,000 \$12,000	\$45,200 \$24,000 \$0 \$0 \$0 \$0 \$0 \$0 \$8,000 \$0 \$8,000	\$271,20 \$144,00 \$144,00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
7 Small Sh 8 Medium 9 Large Sh 60' Bus-I 10 Improve 60' In La 11 Improve 12 60' Fixed 13 60' Fixed 14 Addition 15 Street Si 16 Utilities 17 Utilities 18 Relocate 19 Install Pe 20 Traffic C 21 Surface I 22 Structur 23 Ticket Ve 24 Fare Enfi 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica	Shelter elter Bulb Platform Construction (Demolition and ments) ne/Turn-Out Platform Construction (Demolition and ments) d Guideway Split-Side Platform d Guideway Shared Center Platform lal Site Improvements gnage (2 per station) and Drainage Improvements (Minor) and Drainage Improvements (Major) elsignal Pole Pedestal edestrian Push Button Pole ontrol	0 0 0 0 0 0 2 0 4 3 1 0 0	EA E	\$115,000.00 \$170,000.00 \$60,000.00 \$40,000.00 \$40,000.00 \$20,000.00 \$20,000.00 \$1,000.00 \$4,000.00	\$120,000 \$0 \$0 \$0 \$0 \$0 \$0 \$40,000 \$0 \$4,000 \$12,000	\$24,000 \$0 \$0 \$0 \$0 \$0 \$0 \$8,000 \$0 \$8,000	\$144,000 \$1 \$1 \$1 \$1 \$1 \$48,000 \$1
8 Medium 9 Large Sh 60' Bus-I 10 Improve 60' In La 11 Improve 12 60' Fixec 13 60' Fixec 14 Addition 15 Street Si 16 Utilities 17 Utilities 18 Relocate 19 Install Pe 20 Traffic C 21 Surface I 22 Structur 23 Ticket Ve 24 Fare Enfi 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs	Shelter elter Bulb Platform Construction (Demolition and ments) ne/Turn-Out Platform Construction (Demolition and ments) d Guideway Split-Side Platform d Guideway Shared Center Platform lal Site Improvements gnage (2 per station) and Drainage Improvements (Minor) and Drainage Improvements (Major) elsignal Pole Pedestal edestrian Push Button Pole ontrol	0 0 0 0 0 0 2 0 4 3 1 0 0	EA E	\$115,000.00 \$170,000.00 \$60,000.00 \$40,000.00 \$40,000.00 \$20,000.00 \$20,000.00 \$1,000.00 \$4,000.00	\$0 \$0 \$0 \$0 \$0 \$40,000 \$0 \$4,000 \$12,000	\$0 \$0 \$0 \$0 \$0 \$0 \$8,000 \$0 \$800	\$1 \$1 \$1 \$1 \$1 \$48,000
9 Large Sh 60' Bus-1 10 Improve 60' In La 11 Improve 12 60' Fixec 13 60' Fixec 14 Addition 15 Street Si 16 Utilities 17 Utilities 18 Relocate 19 Install Pe 20 Traffic C 21 Surface I 22 Structur 23 Ticket Ve 24 Fare Enf 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs	elter Bulb Platform Construction (Demolition and ments) ne/Turn-Out Platform Construction (Demolition and ments) d Guideway Split-Side Platform d Guideway Shared Center Platform lal Site Improvements gnage (2 per station) and Drainage Improvements (Minor) and Drainage Improvements (Major) signal Pole Pedestal edestrian Push Button Pole ontrol	0 0 0 0 2 0 4 3 1 0	EA	\$170,000.00 \$60,000.00 \$40,000.00 \$40,000.00 \$20,000.00 \$20,000.00 \$1,000.00 \$4,000.00	\$0 \$0 \$0 \$0 \$0 \$40,000 \$0 \$4,000 \$12,000	\$0 \$0 \$0 \$0 \$8,000 \$0 \$800	\$i \$i \$i \$48,000 \$i
10	Bulb Platform Construction (Demolition and ments) ne/Turn-Out Platform Construction (Demolition and ments) d Guideway Split-Side Platform d Guideway Shared Center Platform ald Site Improvements gnage (2 per station) and Drainage Improvements (Minor) and Drainage Improvements (Major) Signal Pole Pedestal edestrian Push Button Pole ontrol	0 0 0 2 0 4 3 1 0	EA EA EA EA EA EA EA EA EA	\$60,000.00 \$40,000.00 \$40,000.00 \$20,000.00 \$20,000.00 \$1,000.00 \$4,000.00	\$0 \$0 \$0 \$40,000 \$0 \$4,000 \$12,000	\$0 \$0 \$0 \$8,000 \$0 \$800	\$ \$ \$ \$48,00
10 Improve 60' In La 11 Improve 12 60' Fixed 13 60' Fixed 14 Addition 15 Street Si 16 Utilities 17 Utilities 18 Relocate 19 Install Pe 20 Traffic C 21 Surface I 22 Structur 23 Ticket Va 24 Fare Enfi 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs	ments) ne/Turn-Out Platform Construction (Demolition and ments) d Guideway Split-Side Platform d Guideway Shared Center Platform all Site Improvements gnage (2 per station) and Drainage Improvements (Minor) and Drainage Improvements (Major) Signal Pole Pedestal edestrian Push Button Pole ontrol	0 0 2 0 4 3 1 0	EA EA EA EA EA EA	\$40,000.00 \$40,000.00 \$20,000.00 \$20,000.00 \$1,000.00 \$4,000.00	\$0 \$0 \$40,000 \$0 \$4,000 \$12,000	\$0 \$0 \$8,000 \$0 \$800	\$ \$ \$48,00 \$
11	ne/Turn-Out Platform Construction (Demolition and ments) d Guideway Split-Side Platform d Guideway Shared Center Platform all Site Improvements gnage (2 per station) and Drainage Improvements (Minor) and Drainage Improvements (Major) Signal Pole Pedestal edestrian Push Button Pole ontrol	0 0 2 0 4 3 1 0	EA EA EA EA EA EA	\$40,000.00 \$40,000.00 \$20,000.00 \$20,000.00 \$1,000.00 \$4,000.00	\$0 \$0 \$40,000 \$0 \$4,000 \$12,000	\$0 \$0 \$8,000 \$0 \$800	\$ \$ \$48,00 \$
60' In La Improve 12	ments) d Guideway Split-Side Platform d Guideway Shared Center Platform lal Site Improvements gnage (2 per station) and Drainage Improvements (Minor) and Drainage Improvements (Major) e Signal Pole Pedestal edestrian Push Button Pole ontrol	0 2 0 4 3 1 0	EA EA EA EA EA	\$40,000.00 \$40,000.00 \$20,000.00 \$20,000.00 \$1,000.00 \$4,000.00	\$0 \$0 \$40,000 \$0 \$4,000 \$12,000	\$0 \$0 \$8,000 \$0 \$800	\$1 \$1 \$48,00 \$1
11 Improve 12 60' Fixed 13 60' Fixed 14 Addition 15 Street Si 16 Utilities 17 Utilities 18 Relocate 19 Install PC 20 Traffic C 21 Surface I 22 Structur 23 Ticket V 24 Fare Enf 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs	ments) d Guideway Split-Side Platform d Guideway Shared Center Platform lal Site Improvements gnage (2 per station) and Drainage Improvements (Minor) and Drainage Improvements (Major) e Signal Pole Pedestal edestrian Push Button Pole ontrol	0 2 0 4 3 1 0	EA EA EA EA EA	\$40,000.00 \$20,000.00 \$20,000.00 \$1,000.00 \$4,000.00	\$0 \$40,000 \$0 \$4,000 \$12,000	\$0 \$8,000 \$0 \$800	\$1 \$48,00 \$1
12 60' Fixed 13 60' Fixed 14 Addition 15 Street Si 16 Utilities 17 Utilities 18 Relocate 19 Install Pe 20 Traffic C 21 Surface U 22 Structur 23 Ticket Ve 24 Fare Enfi 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs	d Guideway Split-Side Platform d Guideway Shared Center Platform lal Site Improvements gnage (2 per station) and Drainage Improvements (Minor) and Drainage Improvements (Major) e Signal Pole Pedestal edestrian Push Button Pole ontrol	0 2 0 4 3 1 0	EA EA EA EA EA	\$40,000.00 \$20,000.00 \$20,000.00 \$1,000.00 \$4,000.00	\$0 \$40,000 \$0 \$4,000 \$12,000	\$0 \$8,000 \$0 \$800	\$(\$48,000 \$(
13 60' Fixed 14 Addition 15 Street Si 16 Utilities 17 Utilities 18 Relocate 19 Install Pe 20 Traffic C 21 Surface 22 Structur 23 Ticket Ve 24 Fare Enf 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs	d Guideway Shared Center Platform al Site Improvements gnage (2 per station) and Drainage Improvements (Minor) and Drainage Improvements (Major) e Signal Pole Pedestal edestrian Push Button Pole ontrol	2 0 4 3 1 0	EA EA EA EA	\$20,000.00 \$20,000.00 \$1,000.00 \$4,000.00	\$40,000 \$0 \$4,000 \$12,000	\$8,000 \$0 \$800	\$48,000 \$0
14 Addition 15 Street Si 16 Utilities 17 Utilities 18 Relocate 19 Install Pe 20 Traffic C 21 Surfacet 22 Structur 23 Ticket Ve 24 Fare Enf 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs	al Site Improvements gnage (2 per station) and Drainage Improvements (Minor) and Drainage Improvements (Major) e Signal Pole Pedestal edestrian Push Button Pole ontrol	0 4 3 1 0	EA EA EA	\$20,000.00 \$1,000.00 \$4,000.00	\$0 \$4,000 \$12,000	\$0 \$800	\$(
15 Street Si 16 Utilities 17 Utilities 18 Relocate 19 Install Pc 20 Traffic C 21 Surface I 22 Structur 23 Ticket Vc 24 Fare Enf 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs	gnage (2 per station) and Drainage Improvements (Minor) and Drainage Improvements (Major) and Drainage Improvements (Major) Signal Pole Pedestal edestrian Push Button Pole ontrol	4 3 1 0	EA EA EA	\$1,000.00 \$4,000.00	\$4,000 \$12,000	\$800	
16 Utilities 17 Utilities 18 Relocate 19 Install Pe 20 Traffic C 21 Surface I 22 Structur 23 Ticket Ve 24 Fare Enf 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs	and Drainage Improvements (Minor) and Drainage Improvements (Major) Signal Pole Pedestal edestrian Push Button Pole ontrol	3 1 0 0	EA EA	\$4,000.00	\$12,000		
17 Utilities 18 Relocate 19 Install Pe 20 Traffic C 21 Surface I 22 Structur 23 Ticket Ve 24 Fare Enf 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs	and Drainage Improvements (Major) s Signal Pole Pedestal edestrian Push Button Pole ontrol	1 0 0	EA				\$14,400
18 Relocate 19 Install Pe 20 Traffic C 21 Surface I 22 Structur 23 Ticket Vc 24 Fare Enfi 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs	s Signal Pole Pedestal edestrian Push Button Pole ontrol	0		\$20,000.00	\$20,000	\$4,000	\$24,000
19 Install Pe 20 Traffic C 21 Surface I 22 Structur 23 Ticket Vc 24 Fare Enf 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs	edestrian Push Button Pole ontrol	0	LA	\$6,000.00	\$0,000	\$4,000	\$24,000
20 Traffic C 21 Surface I 22 Structur 23 Ticket Vc 24 Fare Enf 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs	ontrol		EA	\$5,000.00	\$0	\$0	\$(
21 Surface I 22 Structur 23 Ticket Ve 24 Fare Enf 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs			EA	\$5,000.00	\$10,000	\$2,000	\$12,000
22 Structur 23 Ticket Vo 24 Fare Enf 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs	Dorling						
23 Ticket Volume 1 Ticket Volume 24 Fare Enforce 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs		0	SPACE SPACE	\$3,000.00	\$0 \$0	\$0 \$0	\$(\$(
24 Fare Enf. 25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs				\$12,000.00	\$0		\$1
25 Emerger 26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs	ending Machine	0	EA	\$75,000.00	\$0	\$0	\$(
26 Readerb 27 Security 28 Wireless 29 Electrica Total Construction Costs	orcement Equipment (per enforcement officer)		EA	\$4,000.00	\$0	\$0	\$(
27 Security 28 Wireless 29 Electrica Total Construction Costs		0	EA	\$1,000.00	\$0	\$0	\$(
28 Wireless 29 Electrica Total Construction Costs		0	EA	\$25,000.00	\$0	\$0	\$(
29 Electrica Total Construction Costs		0	EA	\$20,000.00	\$0	\$0	\$(
Total Construction Costs		0	EA	\$5,000.00	\$0	\$0	\$(
	Il Service	2	EA	\$10,000.00	\$20,000	\$4,000	\$24,000
					\$3,810,550	\$762,110	\$4,572,660
Right of Way		1	ı		\$0	\$0	\$1
30 Commer			SF	\$7.00	\$0	\$0	\$(
31 Resident	tial		SF	\$4.00	\$0	\$0	\$
Vehicles		1	1		\$0	\$0	\$
	or 60-foot Buses		EA	\$1,000,000.00	\$0	\$0	\$1
	or 60-foot Buses w/ Left-Side Doors		EA	\$1,200,000.00	\$0	\$0	\$(
Soft Costs		_	1	, ,	1		\$1,303,20
	ary Engineering			1			\$152,42
35 Final Des	•			1			\$228,63
	Management for Design and Construction			1			\$76,21
	ction Administration and Management						\$304,84
38 Insuranc							\$152,42
39 Legal; Pe	ermits; Review Fees by Other Agencies						\$38,10
	Testing, Investigation, Inspection						\$76,21
41 Agency F							\$228,63
42 Public Ai	Force Account Work						\$45,72
							-
15% Contingency (Not Ap	rt						\$881,380.22
South-FG-Fish Corridor To	rt						7001,300.2

Item No.	Item Description	Quantity	Unit	Unit Cost	Cost	Allocated	Final Cost
Corridor Impro	ovement				\$506,860	\$101,372	\$608,23
1	Transit Signal Priority (per intersection)	4	EA	\$12,000.00	\$48,000	\$9,600	\$57,60
2	Signal Controller (per intersection)	4	EA	\$11,000.00	\$44,000	\$8,800	\$52,80
3	TSP - Bus Hardware (per bus)	0	EA	\$4,500.00	\$0	\$0	Ç
4	TSP Central System Upgrades	1	LS	\$38,000.00	\$38,000	\$7,600	\$45,60
5	Side Running Dedicated Lanes	6281	RF	\$60.00	\$376,860	\$75,372	\$452,23
6	Median Running Dedicated Lanes	0	RF	\$0.00	\$0	\$0	Ş
7	Median Busway Intersection Improvements	0	EA	\$0.00	\$0	\$0	Ç
Rapid Bus Stat	ion				\$540,000	\$108,000	\$648,00
7	Small Shelter	4	EA	\$60,000.00	\$240,000	\$48,000	\$288,00
8	Medium Shelter	0	EA	\$115,000.00	\$0	\$0	Ş
9	Large Shelter	0	EA	\$170,000.00	\$0	\$0	Ç
	60' Bus-Bulb Platform Construction (Demolition and						
10	Improvements)	0	EA	\$60,000.00	\$0	\$0	Ş
	60' In Lane/Turn-Out Platform Construction (Demolition and						·
11	Improvements)	4	EA	\$40,000.00	\$160,000	\$32,000	\$192,00
12	60' Fixed Guideway Split-Side Platform	0	EA	\$40,000.00	\$0	\$0	\$
13	60' Fixed Guideway Shared Center Platform	0	EA	\$20,000.00	\$0	\$0	\$
14	Additional Site Improvements	2	EA	\$20,000.00	\$40,000	\$8,000	\$48,00
15	Street Signage (2 per station)	8	EA	\$1,000.00	\$8,000	\$1,600	\$9,60
16	Utilities and Drainage Improvements (Minor)	3	EA	\$4,000.00	\$12,000	\$2,400	\$14,40
17	Utilities and Drainage Improvements (Major)	1	EA	\$20,000.00	\$20,000	\$4,000	\$24,00
18	Relocate Signal Pole Pedestal	0	EA	\$6,000.00	\$0	\$0	\$
19	Install Pedestrian Push Button Pole	0	EA	\$5,000.00	\$0	\$0	\$
20	Traffic Control	4	EA	\$5,000.00	\$20,000	\$4,000	\$24,00
21	Surface Parking	0	SPACE	\$3,000.00	\$0	\$0	\$
22	Structured Parking	0	SPACE	\$12,000.00	\$0	\$0	\$
23	Ticket Vending Machine	0	EA	\$75,000.00	\$0	\$0	\$
24	Fare Enforcement Equipment (per enforcement officer)		EA	\$4,000.00	\$0	\$0	\$
25	Emergency Phone	0	EA	\$1,000.00	\$0	\$0	\$
26	Readerboards	0	EA	\$25,000.00	\$0	\$0	\$
27	Security Cameras	0	EA	\$20,000.00	\$0	\$0	\$
28	Wireless Connection	0	EA	\$5,000.00	\$0	\$0	\$
29	Electrical Service	4	EA	\$10,000.00	\$40,000	\$8,000	\$48,00
Total Construc	tion Costs		<u> </u>	, , ,	\$1,046,860	\$209,372	\$1,256,23
Right of Way					\$0	\$0	\$
30	Commercial		SF	\$7.00	\$0	\$0	\$
31	Residential		SF	\$4.00	\$0	\$0	\$
Vehicles			31	Ş4.00	\$0	\$0	\$
32	Low Floor 60-foot Buses		EA	\$1,000,000.00	\$0	\$0 \$0	\$
33	Low Floor 60-foot Buses W/ Left-Side Doors		EA	\$1,200,000.00	\$0 \$0	\$0 \$0	Ş
	LOW FIGOR OF TOOL BUSING W/ LCTC-SIDE DOORS		L EA	\$1,200,000.00	\$0	ŞU	\$358,02
Soft Costs	Dueliusia en Fania entre	T	1	1	ı	1	
34	Preliminary Engineering		1	1			\$41,87
35	Final Design		 	1		-	\$62,81
36	Project Management for Design and Construction		 	1			\$20,93
37	Construction Administration and Management		1				\$83,74
38	Insurance		-			-	\$41,87
39	Legal; Permits; Review Fees by Other Agencies		1				\$10,46
40	Surveys, Testing, Investigation, Inspection						\$20,93
41	Agency Force Account Work		ļ				\$62,81
42	Public Art		l				\$12,56
	ncy (Not Applied to Vehicle Costs)						\$242,138.7
outh-CG-Fish	Corridor Total Cost						\$1,856,39

Item No.	Item Description	Quantity	Unit	Unit Cost	Cost	Allocated	Final Cost
Corridor Improv	rement				\$485,000	\$97,000	\$582,000
1	Transit Signal Priority (per intersection)	9	EA	\$12,000.00	\$108,000	\$21,600	\$129,600
2	Signal Controller (per intersection)	9	EA	\$11,000.00	\$99,000	\$19,800	\$118,800
3	TSP - Bus Hardware (per bus)	0	EA	\$4,500.00	\$0	\$0	\$(
4	TSP Central System Upgrades	1	LS	\$38,000.00	\$38,000	\$7,600	\$45,60
5	Side Running Dedicated Lanes	4000	RF	\$60.00	\$240,000	\$48,000	\$288,00
6	Median Running Dedicated Lanes	0	RF	\$0.00	\$0	\$0	\$(
7	Median Busway Intersection Improvements	0	EA	\$0.00	\$0	\$0	\$1
Rapid Bus Statio	on .				\$1,708,000	\$341,600	\$2,049,600
7	Small Shelter	4	EA	\$60,000.00	\$240,000	\$48,000	\$288,00
8	Medium Shelter	4	EA	\$115,000.00	\$460,000	\$92,000	\$552,000
9	Large Shelter	0	EA	\$170,000.00	\$0	\$0	\$
	60' Bus-Bulb Platform Construction (Demolition and						
10	Improvements)	0	EA	\$60,000.00	\$0	\$0	\$(
	60' In Lane/Turn-Out Platform Construction (Demolition and						
11	Improvements)	8	EA	\$40,000.00	\$320,000	\$64,000	\$384,00
12	60' Fixed Guideway Split-Side Platform	0	EA	\$40,000.00	\$0	\$0	\$(
13	60' Fixed Guideway Shared Center Platform	0	EA	\$20,000.00	\$0	\$0	\$(
14	Additional Site Improvements	4	EA	\$20,000.00	\$80,000	\$16,000	\$96,00
15	Street Signage (2 per station)	16	EA	\$1,000.00	\$16,000	\$3,200	\$19,20
16	Utilities and Drainage Improvements (Minor)	3	EA	\$4,000.00	\$12,000	\$2,400	\$14,40
17	Utilities and Drainage Improvements (Major)	3	EA	\$20,000.00	\$60,000	\$12,000	\$72,00
18	Relocate Signal Pole Pedestal	0	EA	\$6,000.00	\$0	\$0	\$(
19	Install Pedestrian Push Button Pole	0	EA	\$5,000.00	\$0	\$0	\$
20	Traffic Control	8	EA	\$5,000.00	\$40,000	\$8,000	\$48,00
21	Surface Parking	0	SPACE	\$3,000.00	\$0	\$0	\$
22	Structured Parking	0	SPACE	\$12,000.00	\$0	\$0	\$(
23	Ticket Vending Machine	4	EA	\$75,000.00	\$300,000	\$60,000	\$360,00
24	Fare Enforcement Equipment (per enforcement officer)		EA	\$4,000.00	\$0	\$0	\$
25	Emergency Phone	0	EA	\$1,000.00	\$0	\$0	\$
26	Readerboards	4	EA	\$25,000.00	\$100,000	\$20,000	\$120,00
27	Security Cameras	0	EA	\$20,000.00	\$0	\$0	\$
28	Wireless Connection	0	EA	\$5,000.00	\$0	\$0	\$
29	Electrical Service	8	EA	\$10,000.00	\$80,000	\$16,000	\$96,00
Total Constructi	on Costs				\$2,193,000	\$438,600	\$2,631,60
Right of Way					\$16,800	\$16,800	\$33,60
30	Commercial	2400	SF	\$7.00	\$16,800	\$16,800	\$33,60
31	Residential	0	SF	\$4.00	\$0	\$0	\$
Vehicles					\$0	\$0	\$
32	Low Floor 60-foot Buses		EA	\$1,000,000.00	\$0	\$0	\$
33	Low Floor 60-foot Buses w/ Left-Side Doors		EA	\$1,200,000.00	\$0	\$0	\$
Soft Costs	·			, , ,	ψū	70	\$755,04
34	Preliminary Engineering	T		1			\$87,72
35	Final Design						\$131,91
36	Project Management for Design and Construction		 				\$44,19
37	Construction Administration and Management		1				\$175,60
38	Insurance						\$87,72
39	Legal; Permits; Review Fees by Other Agencies		1				\$22,77
40	Surveys, Testing, Investigation, Inspection	1	1				\$45,54
41	Agency Force Account Work						\$133,26
42	Public Art	1	1				\$26,31
	_1 · · · · · ·	1		1			Ţ <u></u>
15% Contingenc	cy (Not Applied to Vehicle Costs)						\$513,036.9
	rridor Total Cost						\$3,933,28
Central-Last Col	Tidol Total Cost						73,333,20

Item No.	Item Description	Quantity	Unit	Unit Cost	Cost	Allocated	Final Cost
Corridor Improv	vement				\$275,840	\$55,168	\$331,008
1	Transit Signal Priority (per intersection)	3	EA	\$12,000.00	\$36,000	\$7,200	\$43,200
2	Signal Controller (per intersection)	3	EA	\$11,000.00	\$33,000	\$6,600	\$39,600
3	TSP - Bus Hardware (per bus)	0	EA	\$4,500.00	\$0	\$0	\$0
4	TSP Central System Upgrades	1	LS	\$38,000.00	\$38,000	\$7,600	\$45,600
5	Side Running Dedicated Lanes	2814	RF	\$60.00	\$168,840	\$33,768	\$202,608
6	Median Running Dedicated Lanes	0	RF	\$0.00	\$0	\$0	\$0
7	Median Busway Intersection Improvements	0	EA	\$0.00	\$0	\$0	\$0
Rapid Bus Statio	on .		•		\$1,158,000	\$231,600	\$1,389,600
7	Small Shelter	0	EA	\$60,000.00	\$0	\$0	\$0
8	Medium Shelter	1	EA	\$115,000.00	\$115,000	\$23,000	\$138,000
9	Large Shelter	2	EA	\$170,000.00	\$340,000	\$68,000	\$408,000
	60' Bus-Bulb Platform Construction (Demolition and						
10	Improvements)	0	EA	\$60,000.00	\$0	\$0	\$0
	60' In Lane/Turn-Out Platform Construction (Demolition and						
11	Improvements)	3	EA	\$40,000.00	\$120,000	\$24,000	\$144,000
12	60' Fixed Guideway Split-Side Platform	0	EA	\$40,000.00	\$0	\$0	\$0
13	60' Fixed Guideway Shared Center Platform	0	EA	\$20,000.00	\$0	\$0	\$0
14	Additional Site Improvements	1	EA	\$20,000.00	\$20,000	\$4,000	\$24,000
15	Street Signage (2 per station)	6	EA	\$1,000.00	\$6,000	\$1,200	\$7,200
16	Utilities and Drainage Improvements (Minor)	3	EA	\$4,000.00	\$12,000	\$2,400	\$14,400
17	Utilities and Drainage Improvements (Major)	0	EA	\$20,000.00	\$0	\$0	\$0
18	Relocate Signal Pole Pedestal	0	EA	\$6,000.00	\$0	\$0	\$0
19	Install Pedestrian Push Button Pole	0	EA	\$5,000.00	\$0	\$0	\$0
20	Traffic Control	3	EA	\$5,000.00	\$15,000	\$3,000	\$18,000
21	Surface Parking	0	SPACE	\$3,000.00	\$0	\$0	\$0
22	Structured Parking	0	SPACE	\$12,000.00	\$0	\$0	\$0
23	Ticket Vending Machine	5	EA	\$75,000.00	\$375,000	\$75,000	\$450,000
24	Fare Enforcement Equipment (per enforcement officer)		EA	\$4,000.00	\$0	\$0	\$0
25	Emergency Phone	0	EA	\$1,000.00	\$0	\$0	\$0
26	Readerboards	3	EA	\$25,000.00	\$75,000	\$15,000	\$90,000
27	Security Cameras	2	EA	\$20,000.00	\$40,000	\$8,000	\$48,000
28	Wireless Connection	2	EA	\$5,000.00	\$10,000	\$2,000	\$12,000
29	Electrical Service	3	EA	\$10,000.00	\$30,000	\$6,000	\$36,000
Total Construct	ion Costs				\$1,433,840	\$286,768	\$1,720,608
Right of Way					\$0	\$0	\$0
30	Commercial	0	SF	\$7.00	\$0	\$0	\$0
31	Residential	0	SF	\$4.00	\$0	\$0	\$0
Vehicles					\$0	\$0	\$0
32	Low Floor 60-foot Buses		EA	\$1,000,000.00	\$0	\$0	\$0
33	Low Floor 60-foot Buses w/ Left-Side Doors		EA	\$1,200,000.00	\$0	\$0	\$0
Soft Costs	<u> </u>					1	\$490,373
34	Preliminary Engineering			T		T	\$57,354
35	Final Design						\$86,030
36	Project Management for Design and Construction						\$28,677
37	Construction Administration and Management						\$114,707
38	Insurance		1	1			\$57,354
39	Legal; Permits; Review Fees by Other Agencies						\$14,338
40	Surveys, Testing, Investigation, Inspection						\$28,677
41	Agency Force Account Work						\$86,030
42	Public Art						\$17,20
	1	1	1	1			7-7)20
15% Contingen	cy (Not Applied to Vehicle Costs)						\$331,647.19
	prridor Total Cost						\$2,542,628
Certifiar-West Cl	official Cost						72,342,02

Central-Square Length (mi) 0.59

No. of Stations 2

Item No.	Item Description	Quantity	Unit	Unit Cost	Cost	Allocated	Final Cost
orridor Improv	vement				\$224,000	\$44,800	\$268,
1	Transit Signal Priority (per intersection)	0	EA	\$12,000.00	\$0	\$0	
2	Signal Controller (per intersection)	0	EA	\$11,000,00	\$0	\$0	
3	TSP - Bus Hardware (per bus)	0	EA	\$4,500.00	\$0	\$0	
4	TSP Central System Upgrades	1	LS	\$38,000.00	\$38,000	\$7,600	\$45,
5	Side Running Dedicated Lanes	3100	RF	\$60.00	\$186,000	\$37,200	\$223,
6	Median Running Dedicated Lanes	0	RF	\$0.00	\$180,000	\$0	7223,
7	Median Busway Intersection Improvements	0	EA	\$0.00	\$0	\$0	
apid Bus Statio			LA	\$0.00	\$229,000	\$45,800	\$274,
•				450,000,00			\$274,
7	Small Shelter	0	EA	\$60,000.00	\$0	\$0	
8	Medium Shelter	0	EA	\$115,000.00	\$0	\$0	
9	Large Shelter	0	EA	\$170,000.00	\$0	\$0	
	60' Bus-Bulb Platform Construction (Demolition and						
10	Improvements)	0	EA	\$60,000.00	\$0	\$0	
	60' In Lane/Turn-Out Platform Construction (Demolition and						
11	Improvements)	0	EA	\$40,000.00	\$0	\$0	
12	60' Fixed Guideway Split-Side Platform	0	EA	\$40,000.00	\$0	\$0	
13	60' Fixed Guideway Shared Center Platform	0	EA	\$20,000.00	\$0	\$0	
14	Additional Site Improvements	0	EA	\$20,000.00	\$0	\$0	
15	Street Signage (2 per station)	4	EA	\$1,000.00	\$4,000	\$800	\$4
16	Utilities and Drainage Improvements (Minor)	0	EA	\$4,000.00	\$0	\$0	
17	Utilities and Drainage Improvements (Major)	0	EA	\$20,000.00	\$0	\$0	
18	Relocate Signal Pole Pedestal	0	EA	\$6,000.00	\$0	\$0	
19	Install Pedestrian Push Button Pole	0	EA	\$5,000.00	\$0	\$0	
20	Traffic Control	0	EA	\$5,000.00	\$0	\$0	
21	Surface Parking	0	SPACE	\$3,000.00	\$0	\$0	
22	Structured Parking	0	SPACE	\$12,000.00	\$0	\$0	
23	Ticket Vending Machine	3	EA	\$75,000.00	\$225,000	\$45,000	\$270
24	Fare Enforcement Equipment (per enforcement officer)	-	EA	\$4,000.00	\$0	\$0	
25	Emergency Phone	0	EA	\$1,000.00	\$0	\$0	
26	Readerboards	0	EA	\$25,000.00	\$0	\$0	
27	Security Cameras	0	EA	\$20,000.00	\$0	\$0	
28	Wireless Connection	0	EA	\$5,000.00	\$0	\$0	
29	Electrical Service	0	EA	\$10,000.00	\$0 \$0	\$0 \$0	
otal Constructi			LA	\$10,000.00	\$453,000	\$90,600	\$543
	on Costs						\$543
ght of Way	Ta	_		4-44	\$0	\$0	
30	Commercial	0	SF	\$7.00	\$0	\$0	
31	Residential	0	SF	\$4.00	\$0	\$0	
ehicles					\$0	\$0	
32	Low Floor 60-foot Buses		EA	\$1,000,000.00	\$0	\$0	
33	Low Floor 60-foot Buses w/ Left-Side Doors		EA	\$1,200,000.00	\$0	\$0	
ft Costs							\$154
34	Preliminary Engineering						\$18
35	Final Design						\$27
36	Project Management for Design and Construction						\$9
37	Construction Administration and Management						\$36
38	Insurance						\$18
39	Legal; Permits; Review Fees by Other Agencies						\$4
40	Surveys, Testing, Investigation, Inspection			1			\$9
41	Agency Force Account Work			1			\$27
42	Public Art	†		+ +		-	\$5
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Mix Traffic Length 0

Item No.	Description	Unit		Jnit Price
orridor Im _l	provement			
1	Transit Signal Priority (per intersection)	EA	\$	12,000
2	Signal Controller (per intersection)	EA	\$	11,00
3	TSP - Bus Hardware (per bus)	EA	\$	4,50
4	TSP Central System Upgrades	LS	\$	38,00
5	Side Running Dedicated Lanes	RF	\$	6
6	Median Running Dedicated Lanes	RF	\$	
7	Median Running Dedicated Lanes - Full	RF	\$	90
8	Median Running Dedicated Lanes - Partial	RF	\$	55
9	Median Running Dedicated Lanes - University	RF	\$	1,00
10	Median Busway Intersection Improvements	EA		
apid Bus S	ation			
11	Small Shelter	EA	\$	60,00
12	Medium Shelter	EA	\$	115,00
13	Large Shelter	EA	\$	170,00
14	60' Bus-Bulb Platform Construction (Demolition and Improvements)	EA	\$	60,00
15	60' In Lane/Turn-Out Platform Construction (Demolition and Improvements)	EA	\$	40,00
16	60' Fixed Guideway Split-Side Platform	EA	\$	40,00
17	60' Fixed Guideway Shared Center Platform	EA	\$	20,00
18	Additional Site Improvements	EA	\$	20,00
19	Street Signage (2 per station)	EA	\$	1,00
20	Utilities and Drainage Improvements (Minor)	EA	\$	4,00
21	Utilities and Drainage Improvements (Major)	EA	\$	20,00
22	Relocate Signal Pole Pedestal	EA	\$	6,00
23	Install Pedestrian Push Button Pole	EA	\$	5,00
24	Traffic Control	EA	\$	5,00
25	Surface Parking	SPACE	\$	3,00
26	Structured Parking	SPACE	\$	12,00
27	Ticket Vending Machine	EA	\$	75,00
28	Fare Enforcement Equipment (per enforcement officer)	EA	\$	4,00
29	Emergency Phone	EA	\$	1,00
30	Readerboards	EA	\$	25,00
31	Security Cameras	EA	\$	20,00
32	Wireless Connection	EA	\$	5,00
33	Electrical Service	EA	\$	10,00
34	Transfer Point	EA	\$	1,600,00
ight of Wa	!			
35	Commercial	SF	\$	
36	Residential	SF	\$	
ehicles		3.	1	
37	Low Floor 60-foot Buses	EA	\$	1,000,00
38	Low Floor 60-foot Buses w/ Left-Side Doors	EA	\$	1,200,00