



Alternatives Analysis for Premium Transit Service  
from Union Station to Georgetown

## APPENDIX H

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# Capital Costs



Alternative 1 Streetcar - Grand Total							
FTA Standard Cost Categories (SCC)	Quantity	Unit	Unit Cost (2013)	2013 Dollars without Contingency	Allocated Contingency (2013 Dollars)	2013 Dollars with Allocated Contingency	YOE Dollars Total (2016)
<b>10 GUIDEWAY &amp; TRACK ELEMENTS</b>	18400	LF	\$ 1,085	\$19,964,000	\$9,982,000	29,946,000	\$ 32,722,803
<b>20 STREETCAR STATIONS</b>	8	LS	\$ 450,000	\$3,600,000	\$1,800,000	5,400,000	\$ 5,900,726
<b>30 STREETCAR, YARD, SHOP</b>	1	LS	-	-	-	12,875,000	\$ 14,068,860
<b>40 SITEWORK &amp; SPECIAL CONDITIONS ( Utilities, Civil/Roadwork, Temporary Facilities during Construction)</b>	18400	LF	-	\$84,728,000	\$42,364,000	127,092,000	\$ 138,876,860
<b>50 SYSTEMS</b>							\$ 12,288,808
50.02 Traffic signals and crossing protection	18400	LF	\$ 59	\$1,085,600	\$542,800	1,628,400	\$ 1,779,397
50.03-50.04 Traction power supply & distribution	18400	LF	\$ 263	\$4,839,200	\$2,419,600	7,258,800	\$ 7,931,887
50.03-50.04 Alternative Propulsion	0	LS	\$ -	\$0	\$0	0	\$ -
50.05 Communications	18400	LF	\$ 13	\$239,200	\$119,600	358,800	\$ 392,070
50.06 Fare collection system and equipment	1	LS	-	-	-	2,000,000	\$ 2,185,454
<b>Construction Subtotal (10-50)</b>						186,559,000	\$ 203,858,056
<b>70 VEHICLE (EA)</b>	10	EA	\$ 5,150,000	\$51,500,000	\$2,575,000	54,075,000	\$ 59,089,213
<b>80 PROFESSIONAL SERVICES</b>							\$ 71,350,320
80.01 Preliminary Engineering	-	-	-	-	-	14,924,720	\$ 16,308,645
80.02 Final Design	-	-	-	-	-	13,059,130	\$ 14,270,064
80.03 Project Management for Design and Construction	-	-	-	-	-	7,462,360	\$ 8,154,322
80.04 Construction Administration & Management	-	-	-	-	-	22,387,080	\$ 24,462,967
80.05 - 80.08 Other Soft Costs	-	-	-	-	-	7,462,360	\$ 8,154,322
<b>Subtotal (10-80)</b>						305,929,650	\$ 334,297,589
<b>90 UNALLOCATED CONTINGENCY</b>						12,237,186	\$ 13,371,904
<b>TOTAL PROJECT COST (10-90)</b>						318,166,836	\$ 347,669,492

<b>Alternative 1 Streetcar : Georgetown to 21st Street</b>							
<b>FTA Standard Cost Categories (SCC)</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Cost</b>	<b>2013 Dollars without Contingency</b>	<b>Allocated Contingency (2013 Dollars)</b>	<b>2013 Dollars with Allocated Contingency</b>	<b>YOE Dollars Total (2016)</b>
<b>10 GUIDEWAY &amp; TRACK ELEMENTS</b>	4850	LF	\$ 1,085	\$ 5,262,250	\$ 2,631,125	\$ 7,893,375	\$ 8,625,304
<b>20 STREETCAR STATIONS</b>	2	EA	\$ 450,000	\$ 900,000	\$ 450,000	\$ 1,350,000	\$ 1,475,181
<b>30 STREETCAR, YARD, SHOP</b>							
<b>40 SITEWORK &amp; SPECIAL CONDITIONS ( Utilities, Civil/Roadwork, Temporary Facilities during Construction)</b>	4850	LF	\$ 1,354	\$ 6,566,900	\$ 3,283,450	\$ 9,850,350	\$ 10,763,743
<b>50 SYSTEMS</b>							
50.02 Traffic signals and crossing protection							
50.03-50.04 Traction power supply & distribution							
50.03-50.04 Alternative Propulsion							
50.05 Communications							
50.06 Fare collection system and equipment							
<b>Construction Subtotal (10-50)</b>				\$ 12,729,150	\$ 6,364,575	\$ 19,093,725	\$ 20,864,229
<b>70 VEHICLE (EA)</b>							
<b>Subtotal (10-70)</b>				\$ 12,729,150	\$ 6,364,575	\$ 19,093,725	\$ 20,864,229

Alternative 1 Streetcar: 21st Street to 9th Avenue (Mt. Vernon Square)							
FTA Standard Cost Categories (SCC)	Quantity	Unit	Unit Cost	2013 Dollars without Contingency	Allocated Contingency (2013 Dollars)	2013 Dollars with Allocated Contingency	YOE Dollars Total (2016)
<b>10 GUIDEWAY &amp; TRACK ELEMENTS</b>	6400	LF	\$ 1,085	\$ 6,944,000	\$ 3,472,000	\$ 10,416,000	\$ 11,381,844
<b>20 STREETCAR STATIONS</b>	3	EA	\$ 450,000	\$ 1,350,000	\$ 675,000	\$ 2,025,000	\$ 2,212,772
<b>30 STREETCAR, YARD, SHOP</b>							
<b>40 SITEWORK &amp; SPECIAL CONDITIONS ( Utilities, Civil/Roadwork, Temporary Facilities during Construction)</b>	6400	LF	\$ 10,700	\$ 68,480,000	\$ 34,240,000	\$ 102,720,000	\$ 112,244,917
<b>50 SYSTEMS</b>							
50.02 Traffic signals and crossing protection							
50.03-50.04 Traction power supply & distribution							
50.03-50.04 Alternative Propulsion							
50.05 Communications							
50.06 Fare collection system and equipment							
<b>Construction Subtotal (10-50)</b>				\$ 76,774,000	\$ 38,387,000	\$ 115,161,000	\$ 125,839,534
<b>70 VEHICLE (EA)</b>							
<b>Subtotal (10-70)</b>				\$ 76,774,000	\$ 38,387,000	\$ 115,161,000	\$ 125,839,534

Alternative 1 Streetcar: 9th Avenue (Mt. Vernon Square) to Union Station							
FTA Standard Cost Categories (SCC)	Quantity	Unit	Unit Cost	2013 Dollars without Contingency	Allocated Contingency (2013 Dollars)	2013 Dollars with Allocated Contingency	YOE Dollars Total (2016)
<b>10 GUIDEWAY &amp; TRACK ELEMENTS</b>	7150	LF	\$ 1,085	\$ 7,757,750	\$ 3,878,875	\$ 11,636,625	\$ 12,715,654
<b>20 STREETCAR STATIONS</b>	3	EA	\$ 450,000	\$ 1,350,000	\$ 675,000	\$ 2,025,000	\$ 2,212,772
<b>30 STREETCAR, YARD, SHOP</b>							
<b>40 SITEWORK &amp; SPECIAL CONDITIONS ( Utilities, Civil/Roadwork, Temporary Facilities during Construction)</b>	7150	LF	\$ 1,354	\$ 9,681,100	\$ 4,840,550	\$ 14,521,650	\$ 15,868,199
<b>50 SYSTEMS</b>							
50.02 Traffic signals and crossing protection							
50.03-50.04 Traction power supply & distribution							
50.03-50.04 Alternative Propulsion							
50.05 Communications							
50.06 Fare collection system and equipment							
<b>Construction Subtotal (10-50)</b>				\$ 18,788,850	\$ 9,394,425	\$ 28,183,275	\$ 30,796,626
<b>70 VEHICLE (EA)</b>							
<b>Subtotal (10-70)</b>				\$ 18,788,850	\$ 9,394,425	\$ 28,183,275	\$ 30,796,626

Alternative 1 Streetcar - Total Systems							
FTA Standard Cost Categories (SCC)	Quantity	Unit	Unit Cost	2013 Dollars without Contingency	Allocated Contingency (2013 Dollars)	2013 Dollars with Allocated Contingency	YOE Dollars Total (2016)
<b>10 GUIDEWAY &amp; TRACK ELEMENTS</b>							
<b>20 STREETCAR STATIONS</b>							
<b>30 STREETCAR, YARD, SHOP</b>	1	LS	-	-	-	\$ 12,875,000	\$ 14,068,860
<b>40 SITEWORK &amp; SPECIAL CONDITIONS ( Utilities, Civil/Roadwork, Temporary Facilities during Construction)</b>							
<b>50 SYSTEMS</b>							\$ 12,288,807.84
50.02 Traffic signals and crossing protection	18400	LF	\$ 59	\$ 1,085,600	\$ 542,800	\$ 1,628,400	\$ 1,779,396.65
50.03-50.04 Traction power supply & distribution	18400	LF	\$ 263	\$ 4,839,200	\$ 2,419,600	\$ 7,258,800	\$ 7,931,886.75
50.03-50.04 Alternative Propulsion		LS		\$ -	\$ -	\$ -	\$ -
50.05 Communications	18400	LF	\$ 13	\$ 239,200	\$ 119,600	\$ 358,800	\$ 392,070.45
50.06 Fare collection system and equipment	1	LS	-	-	-	\$ 2,000,000	\$ 2,185,454.00
<b>Construction Subtotal (10-50)</b>						\$ 24,121,000	\$ 26,357,668
<b>70 VEHICLE (EA)</b>	10	EA	\$ 5,150,000	\$ 51,500,000	\$ 2,575,000	\$ 54,075,000	\$ 59,089,213
<b>Subtotal (10-70)</b>						\$ 78,196,000	\$ 85,446,880

Alternative 2 Streetcar - Grand Total							
FTA Standard Cost Categories (SCC)	Quantity	Unit	Unit Cost (2013)	2013 Dollars without Contingency	Allocated Contingency (2013 Dollars)	2013 Dollars with Allocated Contingency	YOE Dollars Total (2016)
<b>10 GUIDEWAY &amp; TRACK ELEMENTS</b>	27311	LF	-	\$23,533,880	\$11,766,940	\$35,300,820	\$ 38,574,160
<b>20 STREETCAR STATIONS *</b>	9	LS	\$ 450,000	\$4,050,000	\$2,025,000	\$6,075,000	\$ 6,638,317
<b>30 STREETCAR, YARD, SHOP</b>	1	LS	-	-	-	\$12,875,000	\$ 14,068,860
<b>40 SITEWORK &amp; SPECIAL CONDITIONS ( Utilities, Civil/Roadwork, Temporary Facilities during Construction)</b>	27311	LF	-	\$93,692,394	\$46,846,197	\$140,538,591	\$ 153,570,313
<b>50 SYSTEMS</b>							\$ 17,181,796
50.02 Traffic signals and crossing protection	27311	LF	59	\$1,611,349	\$805,675	\$2,417,024	\$ 2,641,147
50.03-50.04 Traction power supply & distribution	27311	LF	263	\$7,182,793	\$3,591,397	\$10,774,190	\$ 11,773,248
50.03-50.04 Alternative Propulsion	0	LS	0	\$0	\$0	\$0	\$ -
50.05 Communications	27311	LF	13	\$355,043	\$177,522	\$532,565	\$ 581,948
50.06 Fare collection system and equipment	1	LS	-	-	-	\$2,000,000	\$ 2,185,454
<b>Construction Subtotal (10-50)</b>			-	-	-	\$210,513,189	\$ 230,033,445
<b>70 VEHICLE (EA)</b>	11	EA	\$ 5,150,000	\$56,650,000	\$2,832,500	\$59,482,500	\$ 64,998,134
<b>80 PROFESSIONAL SERVICES</b>							\$ 80,511,706
80.01 Preliminary Engineering	-	-	-	-	-	\$16,841,055	\$ 18,402,676
80.02 Final Design	-	-	-	-	-	\$14,735,923	\$ 16,102,341
80.03 Project Management for Design and Construction	-	-	-	-	-	\$8,420,528	\$ 9,201,338
80.04 Construction Administration & Management	-	-	-	-	-	\$25,261,583	\$ 27,604,013
80.05 - 80.08 Other Soft Costs	-	-	-	-	-	\$8,420,528	\$ 9,201,338
<b>Subtotal (10-80)</b>						\$343,675,305	\$ 375,543,285
<b>90 UNALLOCATED CONTINGENCY</b>						\$13,747,012	\$ 15,021,731
<b>TOTAL PROJECT COST (10-90)</b>						\$357,422,317	\$ 390,565,017

\* Capital Cost are based on 9 Full Stations, although in this Alternative there are actually 12 Stations, 3 split on K Street and I Street.



Alternative 2 Streetcar : Georgetown to Washington Circle							
FTA Standard Cost Categories (SCC)	Quantity	Unit	Unit Cost	2013 Dollars without Contingency	Allocated Contingency (2013 Dollars)	2013 Dollars with Allocated Contingency	YOE Dollars Total (2016)
<b>10 GUIDEWAY &amp; TRACK ELEMENTS</b>	3711	LF	\$ 1,085	\$ 4,026,880	\$ 2,013,440	\$ 6,040,320	\$ 6,600,421
<b>20 STREETCAR STATIONS</b>	2	EA	\$ 450,000	\$ 900,000	\$ 450,000	\$ 1,350,000	\$ 1,475,181
<b>30 STREETCAR, YARD, SHOP</b>							
<b>40 SITEWORK &amp; SPECIAL CONDITIONS ( Utilities, Civil/Roadwork, Temporary Facilities during Construction)</b>	3711	LF	\$ 1,354	\$ 5,024,694	\$ 2,512,347	\$ 7,537,041	\$ 8,235,928
<b>50 SYSTEMS</b>							
50.02 Traffic signals and crossing protection							
50.03-50.04 Traction power supply & distribution							
50.03-50.04 Alternative Propulsion							
50.05 Communications							
50.06 Fare collection system and equipment							
<b>Construction Subtotal (10-50)</b>				\$ 9,951,574	\$ 4,975,787	\$ 14,927,361	\$ 16,311,531
<b>70 VEHICLE (EA)</b>							
<b>Subtotal (10-70)</b>				\$ 9,951,574	\$ 4,975,787	\$ 14,927,361	\$ 16,311,531

Alternative 2 Streetcar : Washington Circle to 9th Street along I Street							
FTA Standard Cost Categories (SCC)	Quantity	Unit	Unit Cost	2013 Dollars without Contingency	Allocated Contingency (2013 Dollars)	2013 Dollars with Allocated Contingency	YOE Dollars Total (2016)
<b>10 GUIDEWAY &amp; TRACK ELEMENTS</b>	8000	LF	\$ 705	\$ 5,640,000	\$ 2,820,000	\$ 8,460,000	\$ 9,244,470
<b>20 STREETCAR STATIONS *</b>	0	EA	\$ 450,000	\$ -	\$ -	\$ -	\$ -
<b>30 STREETCAR, YARD, SHOP</b>							
<b>40 SITEWORK &amp; SPECIAL CONDITIONS ( Utilities, Civil/Roadwork, Temporary Facilities during Construction)</b>	8000	LF	\$ 880	\$ 7,040,000	\$ 3,520,000	\$ 10,560,000	\$ 11,539,197
<b>50 SYSTEMS</b>							
50.02 Traffic signals and crossing protection							
50.03-50.04 Traction power supply & distribution							
50.03-50.04 Alternative Propulsion							
50.05 Communications							
50.06 Fare collection system and equipment							
<b>Construction Subtotal (10-50)</b>				\$ 12,680,000	\$ 6,340,000	\$ 19,020,000	\$ 20,783,668
<b>70 VEHICLE (EA)</b>							
<b>Subtotal (10-70)</b>				\$ 12,680,000	\$ 6,340,000	\$ 19,020,000	\$ 20,783,668

\* Station Quantities are included in the chart for Washington Circle to 9th Street along K Street.

Alternative 2 Streetcar : Washington Circle to 21st Street along K Street							
FTA Standard Cost Categories (SCC)	Quantity	Unit	Unit Cost	2013 Dollars without Contingency	Allocated Contingency (2013 Dollars)	2013 Dollars with Allocated Contingency	YOE Dollars Total (2016)
<b>10 GUIDEWAY &amp; TRACK ELEMENTS</b>	1500	LF	\$ 705	\$ 1,057,500	\$ 528,750	\$ 1,586,250	\$ 1,733,338
<b>20 STREETCAR STATIONS</b>	0	EA	\$ 450,000	\$ -	\$ -	\$ -	\$ -
<b>30 STREETCAR, YARD, SHOP</b>							
<b>40 SITEWORK &amp; SPECIAL CONDITIONS ( Utilities, Civil/Roadwork, Temporary Facilities during Construction)</b>	1500	LF	\$ 880	\$ 1,320,000	\$ 660,000	\$ 1,980,000	\$ 2,163,599
<b>50 SYSTEMS</b>							
50.02 Traffic signals and crossing protection							
50.03-50.04 Traction power supply & distribution							
50.03-50.04 Alternative Propulsion							
50.05 Communications							
50.06 Fare collection system and equipment							
<b>Construction Subtotal (10-50)</b>				\$ 2,377,500	\$ 1,188,750	\$ 3,566,250	\$ 3,896,938
<b>70 VEHICLE (EA)</b>							
<b>Subtotal (10-70)</b>				\$ 2,377,500	\$ 1,188,750	\$ 3,566,250	\$ 3,896,938

Alternative 2 Streetcar: 21st Street to 9th Street (Mt Vernon Square) along K Street							
FTA Standard Cost Categories (SCC)	Quantity	Unit	Unit Cost	2013 Dollars without Contingency	Allocated Contingency (2013 Dollars)	2013 Dollars with Allocated Contingency	YOE Dollars Total (2016)
<b>10 GUIDEWAY &amp; TRACK ELEMENTS</b>	6550	LF	\$ 705	\$ 4,617,750	\$ 2,308,875	\$ 6,926,625	\$ 7,568,910
<b>20 STREETCAR STATIONS</b>	3	EA	\$ 450,000	\$ 1,350,000	\$ 675,000	\$ 2,025,000	\$ 2,212,772
<b>30 STREETCAR, YARD, SHOP</b>							
<b>40 SITEWORK &amp; SPECIAL CONDITIONS ( Utilities, Civil/Roadwork, Temporary Facilities during Construction)</b>	6550	LF	\$ 10,700	\$ 70,085,000	\$ 35,042,500	\$ 105,127,500	\$ 114,875,658
<b>50 SYSTEMS</b>							
50.02 Traffic signals and crossing protection							
50.03-50.04 Traction power supply & distribution							
50.03-50.04 Alternative Propulsion							
50.05 Communications							
50.06 Fare collection system and equipment							
<b>Construction Subtotal (10-50)</b>				\$ 76,052,750	\$ 38,026,375	\$ 114,079,125	\$ 124,657,340
<b>70 VEHICLE (EA)</b>							
<b>Subtotal (10-70)</b>				\$ 76,052,750	\$ 38,026,375	\$ 114,079,125	\$ 124,657,340

Alternative 2 Streetcar: 9th Street (Mt. Vernon Square) to Union Station							
FTA Standard Cost Categories (SCC)	Quantity	Unit	Unit Cost	2013 Dollars without Contingency	Allocated Contingency (2013 Dollars)	2013 Dollars with Allocated Contingency	YOE Dollars Total (2016)
<b>10 GUIDEWAY &amp; TRACK ELEMENTS</b>	7550	LF	\$ 1,085	\$ 8,191,750	\$ 4,095,875	\$ 12,287,625	\$ 13,427,020
<b>20 STREETCAR STATIONS</b>	4	EA	\$ 450,000	\$ 1,800,000	\$ 900,000	\$ 2,700,000	\$ 2,950,363
<b>30 STREETCAR, YARD, SHOP</b>							
<b>40 SITEWORK &amp; SPECIAL CONDITIONS ( Utilities, Civil/Roadwork, Temporary Facilities during Construction)</b>	7550	LF	\$ 1,354	\$ 10,222,700	\$ 5,111,350	\$ 15,334,050	\$ 16,755,930
<b>50 SYSTEMS</b>							
50.02 Traffic signals and crossing protection							
50.03-50.04 Traction power supply & distribution							
50.03-50.04 Alternative Propulsion							
50.05 Communications							
50.06 Fare collection system and equipment							
<b>Construction Subtotal (10-50)</b>				\$ 20,214,450	\$ 10,107,225	\$ 30,321,675	\$ 33,133,313
<b>70 VEHICLE (EA)</b>							
<b>Subtotal (10-70)</b>				\$ 20,214,450	\$ 10,107,225	\$ 30,321,675	\$ 33,133,313

Alternative 2 Streetcar - Total Systems							
FTA Standard Cost Categories (SCC)	Quantity	Unit	Unit Cost	2013 Dollars without Contingency	Allocated Contingency (2013 Dollars)	2013 Dollars with Allocated Contingency	YOE Dollars Total (2016)
<b>10 GUIDEWAY &amp; TRACK ELEMENTS</b>							
<b>20 STREETCAR STATIONS</b>							
<b>30 STREETCAR, YARD, SHOP</b>	1	LS	-	-	-	\$ 12,875,000	\$ 14,068,860
<b>40 SITEWORK &amp; SPECIAL CONDITIONS ( Utilities, Civil/Roadwork, Temporary Facilities during Construction)</b>							
<b>50 SYSTEMS</b>							\$ 17,181,796.22
50.02 Traffic signals and crossing protection	27311.00	LF	\$ 59	\$ 1,611,349	\$ 805,675	\$ 2,417,024	\$ 2,641,146.84
50.03-50.04 Traction power supply & distribution	27311.00	LF	\$ 263	\$ 7,182,793	\$ 3,591,397	\$ 10,774,190	\$ 11,773,247.77
50.03-50.04 Alternative Propulsion		LS		\$ -	\$ -	\$ -	\$ -
50.05 Communications	27311.00	LF	\$ 13	\$ 355,043	\$ 177,522	\$ 532,565	\$ 581,947.61
50.06 Fare collection system and equipment	1.00	LS	-	-	-	\$ 2,000,000	\$ 2,185,454.00
<b>Construction Subtotal (10-50)</b>						\$ 28,598,778	\$ 31,250,656
<b>70 VEHICLE (EA)</b>	11	EA	\$ 5,150,000	\$ 56,650,000	\$ 2,832,500	\$ 59,482,500	\$ 64,998,134
<b>Subtotal (10-70)</b>						\$ 88,081,278	\$ 96,248,790

Alternative 3 Premium Bus - Grand Total							
FTA Standard Cost Categories (SCC)	Quantity	Unit	Unit Cost (2013)	2013 Dollars without Contingency	Allocated Contingency (2013 Dollars)	2013 Dollars with Allocated Contingency	YOE Dollars Total (2016)
<b>10 GUIDEWAY &amp; TRACK ELEMENTS</b>		LF	-	\$0	\$0	\$0	\$ -
<b>20 BUS STATIONS</b>	9	LS	\$ 450,000	\$4,050,000	\$2,025,000	\$6,075,000	\$ 6,638,317
<b>30 BUS, YARD, SHOP</b>	1	LS	-	-	-	\$0	\$ -
<b>40 SITEWORK &amp; SPECIAL CONDITIONS ( Utilities, Civil/Roadwork, Temporary Facilities during Construction)</b>	19647	LF	-	\$78,226,090	\$39,113,045	\$117,339,135	\$ 128,219,641
<b>50 SYSTEMS</b>							\$ 4,085,443
50.02 Traffic signals and crossing protection	19647	LF	\$ 59	\$1,159,173	\$579,587	\$1,738,760	\$ 1,899,989
50.06 Fare collection system and equipment	1	LS	-	-	-	\$2,000,000	\$ 2,185,454
<b>Construction Subtotal (10-50)</b>						\$127,152,895	\$ 138,943,401
<b>70 VEHICLE (EA)</b>	12	EA	\$ 1,287,500	\$15,450,000	\$772,500	\$16,222,500	\$ 17,726,764
<b>80 PROFESSIONAL SERVICES</b>							\$ 48,630,190
80.01 Preliminary Engineering	-	-	-	-	-	\$10,172,232	\$ 11,115,472
80.02 Final Design	-	-	-	-	-	\$8,900,703	\$ 9,726,038
80.03 Project Management for Design and Construction	-	-	-	-	-	\$5,086,116	\$ 5,557,736
80.04 Construction Administration & Management	-	-	-	-	-	\$15,258,347	\$ 16,673,208
80.05 - 80.08 Other Soft Costs	-	-	-	-	-	\$5,086,116	\$ 5,557,736
<b>Subtotal (10-80)</b>						\$187,878,908	\$ 205,300,355
<b>90 UNALLOCATED CONTINGENCY</b>						\$7,515,156.30	\$ 8,212,014
<b>TOTAL PROJECT COST (10-90)</b>						\$195,394,063.88	\$ 213,512,369

Alternative 3 Premium Bus : Georgetown to 21st Street							
FTA Standard Cost Categories (SCC)	Quantity	Unit	Unit Cost	2013 Dollars without Contingency	Allocated Contingency (2013 Dollars)	2013 Dollars with Allocated Contingency	YOE Dollars Total (2016)
<b>10 GUIDEWAY &amp; TRACK ELEMENTS</b>		LF	\$ 1,085	\$ -	\$ -	\$ -	\$ -
<b>20 BUS STATIONS</b>	2	EA	\$ 450,000	\$ 900,000	\$ 450,000	\$ 1,350,000	\$ 1,475,181
<b>30 BUS, YARD, SHOP</b>							
<b>40 SITEWORK &amp; SPECIAL CONDITIONS ( Utilities, Civil/Roadwork, Temporary Facilities during Construction)</b>	4850	LF	\$ 470	\$ 2,279,500	\$ 1,139,750	\$ 3,419,250	\$ 3,736,307
<b>50 SYSTEMS</b>							
50.02 Traffic signals and crossing protection							
50.06 Fare collection system and equipment							
<b>Construction Subtotal (10-50)</b>				\$ 3,179,500	\$ 1,589,750	\$ 4,769,250	\$ 5,211,488
<b>70 VEHICLE (EA)</b>							
<b>Subtotal (10-70)</b>				\$ 3,179,500	\$ 1,589,750	\$ 4,769,250	\$ 5,211,488



Alternative 3 Premium Bus: 21st Street to 9th Avenue (Mt. Vernon Square)							
FTA Standard Cost Categories (SCC)	Quantity	Unit	Unit Cost	2013 Dollars without Contingency	Allocated Contingency (2013 Dollars)	2013 Dollars with Allocated Contingency	YOE Dollars Total (2016)
<b>10 GUIDEWAY &amp; TRACK ELEMENTS</b>		LF	\$ 1,085	\$ -	\$ -	\$ -	\$ -
<b>20 BUS STATIONS</b>	3	EA	\$ 450,000	\$ 1,350,000	\$ 675,000	\$ 2,025,000	\$ 2,212,772
<b>30 BUS, YARD, SHOP</b>							
<b>40 SITEWORK &amp; SPECIAL CONDITIONS ( Utilities, Civil/Roadwork, Temporary Facilities during Construction)</b>	6400	LF	\$ 11,250	\$ 72,000,000	\$ 36,000,000	\$ 108,000,000	\$ 118,014,516
<b>50 SYSTEMS</b>							
50.02 Traffic signals and crossing protection							
50.06 Fare collection system and equipment							
<b>Construction Subtotal (10-50)</b>				\$ 73,350,000	\$ 36,675,000	\$ 110,025,000	\$ 120,227,288
<b>70 VEHICLE (EA)</b>							
<b>Subtotal (10-70)</b>				\$ 73,350,000	\$ 36,675,000	\$ 110,025,000	\$ 120,227,288

Alternative 3 Premium Bus: 9th Avenue (Mt. Vernon Square) to Union Station							
FTA Standard Cost Categories (SCC)	Quantity	Unit	Unit Cost	2013 Dollars without Contingency	Allocated Contingency (2013 Dollars)	2013 Dollars with Allocated Contingency	YOE Dollars Total (2016)
<b>10 GUIDEWAY &amp; TRACK ELEMENTS</b>		LF	\$ 1,085	\$ -	\$ -	\$ -	\$ -
<b>20 BUS STATIONS</b>	4	EA	\$ 450,000	\$ 1,800,000	\$ 900,000	\$ 2,700,000	\$ 2,950,363
<b>30 BUS, YARD, SHOP</b>							
<b>40 SITEWORK &amp; SPECIAL CONDITIONS ( Utilities, Civil/Roadwork, Temporary Facilities during Construction)</b>	8397	LF	\$ 470	\$ 3,946,590	\$ 1,973,295	\$ 5,919,885	\$ 6,468,818
<b>50 SYSTEMS</b>							
50.02 Traffic signals and crossing protection							
50.06 Fare collection system and equipment							
<b>Construction Subtotal (10-50)</b>				\$ 5,746,590	\$ 2,873,295	\$ 8,619,885	\$ 9,419,181
<b>70 VEHICLE (EA)</b>							
<b>Subtotal (10-70)</b>				\$ 5,746,590	\$ 2,873,295	\$ 8,619,885	\$ 9,419,181

Alternative 3 Premium Bus - Total Systems							
FTA Standard Cost Categories (SCC)	Quantity	Unit	Unit Cost	2013 Dollars without Contingency	Allocated Contingency (2013 Dollars)	2013 Dollars with Allocated Contingency	YOE Dollars Total (2016)
<b>10 GUIDEWAY &amp; TRACK ELEMENTS</b>							
<b>20 BUS STATIONS</b>							
<b>30 BUS, YARD, SHOP</b>	1	LS	-	-	-	\$ -	\$ -
<b>40 SITEWORK &amp; SPECIAL CONDITIONS ( Utilities, Civil/Roadwork, Temporary Facilities during Construction)</b>							
<b>50 SYSTEMS</b>							\$ 4,085,443.45
50.02 Traffic signals and crossing protection	19647	LF	\$ 59	\$ 1,159,173	\$ 579,587	\$ 1,738,760	\$ 1,899,989.45
50.06 Fare collection system and equipment	1	LS	-	-	-	\$ 2,000,000	\$ 2,185,454.00
<b>Construction Subtotal (10-50)</b>						\$ 3,738,760	\$ 4,085,443
<b>70 VEHICLE (EA)</b>	12	EA	\$ 1,287,500	\$ 15,450,000	\$ 772,500	\$ 16,222,500	\$ 17,726,764
<b>Subtotal (10-70)</b>						\$ 19,961,260	\$ 21,812,207