

Scope of Work Estimate

Conceptual Estimate

Standard Cost Categories for Capital Projects	Quantity	Cost	Unit	Total (\$000)
10 GUIDEWAY & TRACK ELEMENTS (route miles)				
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)	0			
20.01 At-grade station, stop, shelter, mall, terminal, platform	0	\$ -	EA	\$ -
SMART Corridor Bike Share System	6	\$ 50	EA	\$ 300
Mini-hub bus stops				
6'x10' shelter w/canopy	22	\$ 29,090	ea	\$ 640
Decorative paving (assume 10'x15')	367	\$ 87	sy	\$ 32
Bike racks (1 per Mini-hub)	22	\$ 713	ea	\$ 16
Decorative benches (1 per Mini-hub)	22	\$ 3,443	ea	\$ 76
Trash receptacle	22	\$ 2,801	ea	\$ 62
Security Lighting	0	\$ 14,741	ea	\$ -
North Side Transit Hub at St. Elizabeth				
10'x20' shelter w/canopy	2	\$ 48,483	ea	\$ 97
Decorative benches	4	\$ 3,443	ea	\$ 14
Bike share station	0	\$ -	ea	\$ -
Decorative lighting	8	\$ 14,741	ea	\$ 118
Landscape bed (south)	192	\$ 27	sy	\$ 5
Landscape island	93	\$ 27	sy	\$ 3
Concrete curb at landscape beds/islands	424	\$ 25	lf	\$ 11
Decorative concrete/pavers at Plaza	488	\$ 87	sy	\$ 43
Decorative paved multimodal roadway	537	\$ 196	sy	\$ 106
Concrete bus pad - 8'	320	\$ 242	sy	\$ 77
20.02 Aerial station, stop, shelter, mall, terminal, platform	0	\$ -	EA	\$ -
20.03 Underground station, stop, shelter, mall, terminal, platform	0	\$ -	0	\$ -
20.04 Other stations, landings, terminals: Intermodal, ferry, trolley, etc.	0	\$ -	0	\$ -
20.05 Joint development	0	\$ -	0	\$ -
20.06 Automobile parking multi-story structure	0	\$ -	0	\$ -
20.07 Elevators, escalators	0	\$ -	EA	\$ -
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	0			
40 SITEWORK & SPECIAL CONDITIONS	0			
40.01 Demolition, Clearing, Earthwork	0	\$ -		\$ -
Demolish Existing Signals	1	\$ 18,642	LS	\$ 19
Fifth Ave Demo (existing ROW limits)	35290	\$ 12.36	SY	\$ 436
Park Ave Demo (existing lawn and sidewalks)	8622	\$ 12.36	SY	\$ 107
Demo concrete sidewalks - 6' width (assuming full replacement)				
Bridge over US 422 (Phase 1)	567	\$ 9.88	SY	\$ 6
Cut Excavation (Bio cells)	13144	\$ 21	CY	\$ 275
Earthwork - Fill for shared use path on Fifth Ave	100	\$ 42	cy	\$ 4
40.02 Site Utilities, Utility Relocation	0	\$ -		\$ -
New Storm Sewer (Fifth Ave)	3400	\$ 126	lf	\$ 428
Storm Sewer connection to existing (Fifth Ave)	2	\$ 1,200	ea	\$ 2
Catch Basin (2 per intersection - Fifth Ave)	14	\$ 8,004	ea	\$ 112
Inlets (150 O.C. - Fifth Ave)	44	\$ 4,344	ea	\$ 191
8" Ductile Iron Pipe (DIP) (Fifth Ave)	870	\$ 80	lf	\$ 70
40.03 Haz. mat'l, contam'd soil removal/mitigation, ground water treatments	0	\$ -		\$ -
40.04 Environmental mitigation, e.g. wetlands, historic/archeologic, parks	0	\$ -		\$ -

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40.05 Site structures including retaining walls, sound walls	0	\$ -		\$ -
40.06 Pedestrian / bike access and accommodation, landscaping	0	\$ -		\$ -
3" deciduous trees - North Transit Hub	24	\$ 395	ea	\$ 9
Landscape bed within Plaza for trees	12	\$ 270	ea	\$ 3
Landscape median (Fifth Ave)	3393	\$ 10.13	sy	\$ 34
Curbed bioretention cell - 8' width (Fifth Ave)	4893	\$ 10.13	sy	\$ 50
Concrete curb at bio cell landscaping (Fifth Ave)	8716	\$ 10.94	lf	\$ 95
Bioretention soil - 2'	0	\$ 20.00	cy	\$ -
Filter layer - 6"	0	\$ 47.60	cy	\$ -
Gravel layer - 1'	0	\$ 32.00	cy	\$ -
Overflow pipe (bio cell) - 6" PVC	0	\$ 126	lf	\$ -
Underdrain system (bio cell) - 6"	0	\$ 18.69	lf	\$ -
Overflow/Storm inlet connection (bio cell)	36	\$ 1,200	ea	\$ 43
Trees, shrubs, perennials (Fifth Ave landscape medians plus bio cell areas)	8286	\$ 27	sy	\$ 223
2" cal. Trees	200	\$ 395	ea	\$ 79
18" Ht shrubs	3000	\$ 45	SY	\$ 134
#2 Cont. perennials	4000	\$ 26	SY	\$ 103
6' Benches (Fifth Ave and Park Ave)	25	\$ 3,443	ea	\$ 86
LED street lighting (150' O.C.)	85	\$ 14,741	ea	\$ 1,253
5' CIP concrete (Fifth Ave west side)	1639	\$ 87	sy	\$ 143
7' CIP colored concrete (Fifth Ave west side)	2294	\$ 87	sy	\$ 200
14' decorative concrete or brick pavers shared use path (Fifth Ave east side)	5367	\$ 87	sy	\$ 469
Sculptural Gateway (N of Spring Commons and 422 bridges)	2	\$ 25,000	ALLOWANCE	\$ 50
Concrete sidewalks - 6.5' width (assumed full replacement at US 422 Bridge)	614	\$ 87	sy	\$ 54
Flexible barrier posts at bike lanes	6090	\$ 5.77	lf	\$ 35
Painted (Green) Bike Lane	0	\$ 13	sy	\$ -
Decorative intersections (asphalt)	3416	\$ 74	sy	\$ 252
Decorative crosswalks (assumed 10' width)	3909	\$ 196	sy	\$ 768
Pavement striping	25060	\$ 0.80	lf	\$ 20
				\$ -
40.06 Pedestrian / bike access and accommodation, landscaping	0	\$ -		\$ -
14' decorative concrete or brick pavers shared use path (S of Fifth Ave to Hazel St)	2411	\$ 236	sy	\$ 570
Landscape (along MLK Blvd and Front St)	806	\$ 27	sy	\$ 22
Decorative lighting (200' O.C.)	8	\$ 14,741	ea	\$ 118
Benches	8	\$ 3,443	ea	\$ 28
Bike Racks	8	\$ 713	ea	\$ 6
Trash receptacles	4	\$ 2,801	ea	\$ 11
Flexible barrier posts at bike lanes	11600	\$ 5.77	lf	\$ 67
Painted (Green) Bike Lane	8013	\$ 13	sy	\$ 105
Pavement striping	24200	\$ 0.80	lf	\$ 19
City Center path				\$ 800
Commerce				
Pavement striping	6425	\$ 0.80	lf	\$ 5.14
Bike Racks	2	\$ 713	ea	\$ 1.43
Flexible barrier posts at bike lane	3200	\$ 5.77	lf	\$ 18.46
Painted (Green) bike Lane	1300	\$ 13	sy	\$ 16.90
Decorative crosswalks (assumed 10' width)	92	\$ 196	sy	\$ 18.03
Decorative lighting (200' O.C.)	4	\$ 14,741	ea	\$ 59
Trash receptacles	4	\$ 2,801	ea	\$ 11
Flexible barrier posts at bike lanes	3000	\$ 5.77	lf	\$ 17
Rayen				
Pavement striping	15600	\$ 0.80	lf	\$ 12.48
Bike Racks	4	\$ 713	ea	\$ 2.85
Flexible barrier posts at bike lane	7500	\$ 5.77	lf	\$ 43

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Standard Cost Categories for Capital Projects		Quantity	Cost	Unit	Total (\$000)
	Painted (Green) bike Lane	5280	\$ 13	sy	\$ 68.64
	Decorative crosswalks (assumed 10' width)	432	\$ 196	sy	\$ 84.67
	Decorative lighting (200' O.C.)	4	\$ 14,741	ea	\$ 59
	Trash receptacles	4	\$ 2,801	ea	\$ 11
	Flexible barrier posts at bike lanes	3000	\$ 5.77	lf	\$ 17
	Federal				
	Pavement striping	4435	\$ 0.80	lf	\$ 3.55
	Bike Racks	2	\$ 713	ea	\$ 1.43
	Flexible barrier posts at bike lane	2218	\$ 5.77	lf	\$ 13
	Painted (Green) bike Lane	1516	\$ 13	sy	\$ 19.71
	Decorative crosswalks (assumed 10' width)	170	\$ 196	sy	\$ 33.32
	Decorative lighting (200' O.C.)	6	\$ 14,741	ea	\$ 88
	Trash receptacles	4	\$ 2,801	ea	\$ 11
	Flexible barrier posts at bike lanes	3000	\$ 5.77	lf	\$ 17
40.07	Automobile, bus, van accessways including roads, parking lots	0	\$ -		\$ -
	New roadway at Fifth Ave - 11' width lanes	11755	\$ 188	sy	\$ 2,207
	Roadway widening at Park Ave - 10'	3018	\$ 188	sy	\$ 567
	Mill and overlay at Park Ave - 28' width	8055	\$ 110	sy	\$ 882
	Curb and gutter (Fifth and Park Ave plus median)	19070	\$ 25	lf	\$ 481
	Signage and wayfinding	570	\$ 214	ea	\$ 122
	Mill Creek Park Improvements				\$ 500
40.08	Temporary Facilities and other indirect costs during construction	0	\$ -		\$ -
50 SYSTEMS		0			
50.01	Train control and signals	0	\$ -		\$ -
50.01	Install New Signals to Interface w/Freight Traffic	0	\$ -	LS	\$ -
50.02	Traffic signals and crossing protection	0	\$ -	LS	\$ -
	Decorative signal system - Full w/Cross Turn Lanes	0	\$ 370,908	ea	\$ -
	Decorative signal system - Full	0	\$ 333,817	ea	\$ -
	Decorative signal system - Half	0	\$ 222,545	ea	\$ -
	HAWK Ped crossing system at stadium	1	\$ 94,839	ea	\$ 95
					\$ -
					\$ -
50.03	Traction power supply: substations	0	\$ -		\$ -
50.04	Traction power distribution: catenary and third rail	0	\$ -		\$ -
50.05	Communications	0	\$ -		\$ -
	3" PVC conduit	14640	\$ 14	0	\$ 202
	Fiber optic line (10% slack)	16104	\$ 3.00	0	\$ 48
	Pull Boxes (300 O.C.)	49	\$ 843	0	\$ 41
	Wireless Hubs	22	\$ 1,981	ea	\$ 44
					\$ -
50.06	Fare collection system and equipment	0	\$ -		\$ -
50.07	Central Control	0	\$ -		\$ -
Construction Subtotal (10 - 50)		0			\$ 14,920
60 ROW, LAND, EXISTING IMPROVEMENTS					
60.01	Purchase or lease of real estate	1.000	\$ 50,000	LS	\$ 50
60.01	Purchase or lease RR Alignment ROW	0.000	\$ -	ACRES	\$ -
60.02	Relocation of existing households and businesses	0.000	\$ -	LS	\$ -
60.01	Purchase or lease of real estate	0.000	\$ -	LS	\$ -
60.01	Purchase or lease RR Alignment ROW	0.000	\$ -	ACRES	\$ -
60.02	Relocation of existing households and businesses	0.000	\$ -	LS	\$ -
60.02	14' Shared Use Path Connection Through Amphitheater (In-kind Project)	1.600	\$ 500,000	LS	\$ 800
60.03	Vallourec Bike Trail Connection (In-kind Project Cost Share)	1.000	\$ 500,000	LS	\$ 500
70 VEHICLES (number)					\$ -
70.04	Bus	3	\$ 325,000	ea	\$ 975
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)		\$ 14,920			\$ -
80.01	Preliminary Engineering		3.00%		\$ 448
80.02	Final Design		5.00%		\$ 746

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80.03 Project Management for Design and Construction		0.00%		\$ -
80.04 Construction Administration & Management		4.00%		\$ 597
80.05 Professional Liability and other Non-Construction Insurance		1.00%		\$ 149
80.06 Legal; Permits; Review Fees by other agencies, cities, etc.		1.00%		\$ 149
80.07 Surveys, Testing, Investigation, Inspection		0.75%		\$ 112
80.08 Start up		0.25%		\$ 37
Subtotal (10 - 80)				\$ 19,483
90 UNALLOCATED CONTINGENCY		5.00%		\$ 974
Subtotal (10 - 90)				\$ -
100 FINANCE CHARGES				\$ -
Total Project Cost (10 - 100)				\$ 20,457
Allocated Contingency as % of Base Yr Dollars w/o Contingency				\$ -
Unallocated Contingency as % of Base Yr Dollars w/o Contingency				\$ -
Total Contingency as % of Base Yr Dollars w/o Contingency				\$ -
Unallocated Contingency as % of Subtotal (10 - 80)				\$ -
YOE Construction Cost per Mile (X000)				\$ -
YOE Total Project Cost per Mile Not Including Vehicles (X000)				\$ -
YOE Total Project Cost per Mile (X000)				\$ -