

PLANNING LEVEL OPINION OF COST SUMMARY

Project Description: ATM Holding Lanes	Client: Port of Kingston
Corridor Section: SR 104	Date: 17-Jun-21
Location: SR104 & Lindvog Rd - Kingston	Date of Cost Index: 2021
	Calculated By/Entered By: GRD
	Checked By: BMP

ATMS Holding Lanes

		ESTIMATED UNIT			
	ITEM	UNIT	COST	QTY	COST
I.	RIGHT OF WAY				
	RIGHT OF WAY (urban developed)	SF	\$120	-	\$0
	RIGHT OF WAY (urban undeveloped)	SF	\$70	-	\$0
	TEMPORARY CONSTRUCTION EASEMENTS (urban developed)	SF	\$12	-	\$0
	TEMPORARY CONSTRUCTION EASEMENTS (urban undeveloped)	SF	\$7	-	\$0
	RELOCATIONS: BUSINESSES	EA	\$400,000	-	\$0
	RELOCATIONS: RESIDENCES	EA	\$300,000	-	\$0
	CONDEMNATION PROCEDURE	EA	\$100,000	-	\$0
	ADMINISTRATION (titles, appraisals, negotiations consultant, etc.)	EA	\$15,000	-	\$0
	RIGHT OF WAY TOTAL				\$0
		Inflation	ROW Year	Cost Index	Future Cost
	FUTURE ROW COST BASED ON INFLATION RATE	2%	2024	2021	\$0
II.	CONSTRUCTION				
1	PREPARATION/GRADING/DRAINAGE				
	1.1 PREPARATION				
	CLEAR & GRUB, DEMO	ACRE	\$5,000	0.2	\$1,000
	REMOVING EXISTING PAVEMENT	SY	\$10	-	\$0
	REMOVAL STRUCTURES & OBSTRUCTIONS	LS	\$0	1	\$0
	1.2 EARTHWORK				
	ROADWAY EXCAVATION INCL. HAUL	CY	\$40	170	\$6,800
	STRUCTURE EX. CL. A INCL. HAUL	CY	\$45	-	\$0
	BORROW INCL. HAUL	TON	\$30	-	\$0
	1.3 STORMWATER MITIGATION				
	DETENTION AND TREATMENT	SF	\$6	-	\$0
	1.4 STORM SEWER				
	CATCH BASIN TYPE 1	EA	\$1,500	1	\$1,500
	CATCH BASIN TYPE 2	EA	\$5,000	-	\$0
	SCHEDULE A STORM SEWER PIPE 12 IN. DIAM.	LF	\$65	180	\$11,700
	SCHEDULE A STORM SEWER PIPE 18 IN. DIAM.	LF	\$85	-	\$0
2	STRUCTURE				
	CONCRETE BRIDGES	SF	\$300	-	\$0
	CONCRETE BRIDGES WIDENING (Including Removal)	SF	\$200	-	\$0
	PEDESTRIAN BRIDGES	SF	\$550	-	\$0
	STEEL BRIDGES	SF	\$270	-	\$0
	BRIDGE APPROACH SLAB	SY	\$250	-	\$0
	CONCRETE BRIDGE REMOVAL	SF	\$35	-	\$0
	RETAINING WALLS (Reinforced Cast in Place Concrete)	SF	\$60	-	\$0
	RETAINING WALLS (Soil Nail with Concrete Fascia Panel)	SF	\$140	-	\$0
	NOISE WALLS	SF	\$30	-	\$0
3	SURFACING				
	CEMENT CONCRETE PAVEMENT	SY	\$150	-	\$0
	HOT MIX ASPHALT	TON	\$125	170	\$21,250

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	CRUSHED SURFACING	TON	\$60	200	\$12,000
4	ROADSIDE DEVELOPMENT				
	FENCING	LF	\$20	-	\$0
	SEEDING, MULCHING & FERTILIZING	ACRE	\$3,000	-	\$0
	WETLAND MITIGATION (BUFFER IMPACTS)	LS	\$0	1	\$0
	TEMP. WATER POLLUTION & EROSION CONTROL (2%)	LS	\$4,000	1	\$4,000
	LANDSCAPING	LS	\$1,000	1	\$1,000
5	TRAFFIC				
	GUARDRAIL	LF	\$60	-	\$0
	CONCRETE BARRIER	LF	\$200	-	\$0
	ATMS & SIGNAL SYSTEMS	LS	\$470,000	1	\$470,000
	ILLUMINATION	LS	\$50,000	1	\$50,000
	SIGNING	LS	\$14,000	1	\$14,000
	STRIPING	LF	\$2	4,000	\$8,000
	CURBS	LF	\$45	410	\$18,450
	CURB RAMP	EA	\$8,000	2	\$16,000
	SIDEWALKS	SY	\$150	10	\$1,500
	ADJUST MANHOLE OR CATCH BASIN	EA	\$800	-	\$0
	TRAFFIC CONTROL (3%)	LS	\$5,000	1	\$5,000
6	OTHER ITEMS				
	SURVEYING (2%)	LS	\$4,000	1	\$4,000
	SPECIAL ITEMS	EST	\$0	-	\$0
	FRANCHISE UTILITY RELOCATIONS	EST	\$2,000	-	\$0
7	ROADWAY SUBTOTAL (ITEMS 1 THRU 6)				\$176,200
	ATMS SUBTOTAL				\$470,000
8	MOBILIZATION (10%)				
	10% OF ROADWAY ITEM 7	EST	\$17,700	1	\$17,700
	10% OF ATMS ITEM 7	EST	\$47,000	1	\$47,000
9	ROADWAY SUBTOTAL (ITEMS 7 & 8)				\$193,900
	ATMS SUBTOTAL (ITEMS 7 & 8)				\$517,000
10	SALES TAX				
	9.8% FOR NEW UTILITIES	EST	\$0	1	\$0
11	AGREEMENTS (Utilities, WSP, etc.)	EST	\$0	1	\$0
12	ROADWAY SUBTOTAL (ITEMS 9 THRU 11)				\$193,900
	ATMS SUBTOTAL (ITEMS 9 THRU 11)				\$517,000
13	ROADWAY CONTINGENCY (30% OF ITEM 12)	EST	\$58,200	1	\$58,200
	ATMS CONTINGENCY (15% OF ITEM 12)	EST	\$77,600	1	\$77,600
14	CONSTRUCTION SUBTOTAL (ITEMS 12 & 13)				\$846,700
15	FUTURE CN COST BASED ON INFLATION RATE	Inflation	Const. Year	Cost Index	Future Cost
		5%	2024	2021	\$981,000

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16	CONSTRUCTION ADMINISTRATION				
	CONSTRUCTION ENGINEERING (15% OF ITEM 14)	EST	\$127,100	1	\$127,100
	A.H.J. ENGINEERING & ADMINISTRATION (5% OF ITEM 14)	EST	\$42,400	1	\$42,400

17	FUTURE CN ADMIN COST BASED ON INFLATION RATE	Inflation	Const. Year	Cost Index	Future Cost
		5%	2024	2021	\$197,000

III.	PRELIMINARY WORK				
	PRELIMINARY ENGINEERING (20.0% OF ITEM 14)	EST	\$169,400	1	\$169,400
	A.H.J. ENGINEERING & ADMINISTRATION (5% OF ITEM 14)	EST	\$42,400	1	\$42,400
	ENVIRONMENTAL PERMITS/DOCUMENTS	EST	\$0	1	\$0

	FUTURE PE COST BASED ON INFLATION RATE	Inflation	Design Year	Cost Index	Future Cost
		5%	2022	2021	\$223,000

IV.	TOTAL ESTIMATED COST (ITEMS I, 15, 17, & III)				
	TOTAL PROJECT COST (BASED ON INFLATION RATE)				\$1,401,000

SUMMARY (Including inflation)	
Right of Way	\$0
Design Engineering, Administration, Environmental Permitting (Item III)	\$223,000
Construction Contract (Incl. Administration)	\$1,178,000

The above opinion of cost is a planning level estimate only. It is based on best available information and scope at the time, not on the results of a detailed engineering study, and is supplied as a budgeting guide only. Perteet Inc. does not guarantee or warrant the accuracy of this planning level estimate.