



# CONNECTING HOWE AVENUE

SAFETY & MOBILITY PLAN

## APPENDIX E

### PLANNING LEVEL COST ESTIMATES

# Connecting Howe Avenue

## Safety & Mobility Plan

(Feasibility Opinion of Probable Cost)



MARK THOMAS

### SUMMARY OF PROJECT COST ESTIMATE

		Current Year Cost	Escalated Cost (2030)*
TOTAL CONSTRUCTION COST		\$ 34,767,500	\$ 42,665,000
TOTAL RIGHT OF WAY COST		\$ 300,000	\$ 365,000
<b>TOTAL CAPITAL OUTLAY COSTS</b>		<b>\$ 35,068,000</b>	<b>\$ 43,030,000</b>
DESIGN	PA/ED (10%)	\$ 3,510,000	\$ 4,280,000
	PS&E (15%)	\$ 5,270,000	\$ 6,420,000
	RIGHT OF WAY (2%)	\$ 710,000	\$ 870,000
CM	CONSTRUCTION (12%)	\$ 4,210,000	\$ 5,130,000
<b>TOTAL DELIVERY COST</b>		<b>\$ 13,700,000</b>	<b>\$ 16,700,000</b>
<b>TOTAL PROJECT COST</b>		<b>\$ 48,800,000</b>	<b>\$ 59,800,000</b>

\* Assumes escalation of 4% per year. No adjustments in escalation for time between design and construction were made.

# Connecting Howe Avenue

## Safety & Mobility Plan

(Corridor Improvements including: Sidewalk Widening, Shared Use Path, Pedestrian Crossings and Bridge Widening)



ITEM No.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
<b>ROADWAY</b>					
1	Install Concrete - Curb Ramp	EA	38	\$ 10,000	\$380,000
2	Install Concrete - Curb and Gutter	LF	15,300	\$ 68	\$1,040,400
3	Install Concrete - Curb	LF	2,650	\$ 40	\$106,000
4	Install Concrete - Shared Use	SF	107,800	\$ 25	\$2,695,000
5	Install Concrete - Sidewalk	SF	42,500	\$ 15	\$637,500
6	Install Concrete - Driveway	SF	690	\$ 40	\$27,600
7	Install Concrete - Texture Pavement	SF	1,550	\$ 20	\$31,000
8	Roadway Excavation	CY	16,500	\$ 350	\$5,775,000
9	Hot Mix Asphalt	TON	3,100	\$ 250	\$775,000
10	Cold Plane	SQYD	12,750	\$ 4	\$45,900
11	Slurry Seal	TON	370	\$ 280	\$103,600
12	Base Repair (HMA) *	TON	920	\$ 250	\$230,000
13	CL2 Aggregate Base	CY	8,000	\$ 300	\$2,400,000
14	Signing and Striping	LS	1	\$ 134,000	\$134,000
15	Landscape	SF	31,850	\$ 30	\$955,500
16	Retaining Walls	SF	11,400	\$ 250	\$2,850,000
17	Barrier	LF	3,500	\$ 150	\$525,000
18	Bus Stop Amentities	EA	2	\$ 30,000	\$60,000
19	Bridge Widening	LS	1	\$ 7,700,000	\$7,700,000
<b>DRAINAGE</b>					
20	Minor Drainage (1% of Items 1-17)	LS	1	\$188,000	\$188,000
<b>ELECTRICAL</b>					
21	Traffic Signal Modification	LS	1	\$350,000	\$350,000
22	Pedestrian Signal	EA	7	\$500,000	\$3,500,000
<b>SUBTOTAL</b>					<b>\$22,809,500</b>
23	Minor Items (8% of Items 1-18) **	LS	1	\$1,502,000	\$1,502,000
<b>SUBTOTAL</b>					<b>\$24,311,500</b>
24	Mobilization (10% of Items 1-20)	LS	1	\$2,432,000	\$2,432,000
<b>SUBTOTAL</b>					<b>\$26,743,500</b>
CONTINGENCY (30%) ***					\$8,024,000
CONSTRUCTION SUBTOTAL					\$34,767,500
<b>GRAND TOTAL</b>					
<b>CONSTRUCTION SUBTOTAL=</b>					<b>\$34,767,500</b>
<b>Right of Way/Temporary Construction Easement**** =</b>					<b>\$300,000</b>
<b>GRAND TOTAL=</b>					<b>\$35,067,500</b>

\* 8% of cold plane area is assumed to require Base Repair

\*\* Minor items (for example, fencing, signage, sidewalk repair, utility adjustments, etc.) have been estimated by using a percentage.

\*\*\* This feasibility level estimate includes a 30% contingency intended to compensate for the use of preliminary and limited information.

\*\*\*\* Right of way/TCE's for driveway closures, curb ramps, new signal equipment, conforms, etc. have been estimated at \$10/SF.

General Note: Where applicable, only minor drainage improvements for Drainage Inlet relocations are included. Utility improvements such as water, communication, gas, etc. are not included in these estimates.