

# Appendix F

## Planning Level Costs

The following tables describe planning-level costs for implementing the Monroe Neighborhood Street Design Plan. Major design components are itemized and are accompanied by per-unit construction costs. Additional project costs include roadway and stormwater survey. Total estimated costs include a 30% contingency to account for unknown project costs at this conceptual design phase.

### Order of Magnitude Cost Estimate, Monroe Neighborhood Street Design Plan

NO.	ITEM	UNIT	LENGTH	COST
1	Monroe St - Linwood Ave to 72nd Ave	Mi.	0.50	\$501,320
2	Monroe St - 72nd Ave to Fuller Rd	Mi.	0.50	\$378,790
3	SE 72nd Ave	Mi.	0.10	\$85,950
4	Thompson Rd - SE 72nd to Fuller	Mi.	0.50	\$861,840
5	Boyer Dr - 85th Ave, Spencer Dr	Mi.	0.35	\$32,000
<b>SUBTOTAL</b>				\$1,859,900

ADDITIONAL COST	SUGGESTED	PERCENTAGE	COST
Construction Surveying	1.0-2.5%	2.5%	\$46,498
Temporary Traffic Control	3.0-8.0%	3.0%	\$55,797
Mobilization	8.0-10.0%	10.0%	\$185,990
Erosion Control	0.5-2.0%	2.0%	\$37,198
Contingency	30-40%	30.0%	\$557,970
Escalation (per year)	0.5-2.0%	0.0%	\$0
Construction Year	Unknown		
<b>TOTAL CONSTRUCTION COST (2016 Dollars)</b>			\$2,743,353

RIGHT OF WAY COST	UNIT	QUANTITY	UNIT COST	COST
New Right of Way Acquisition	SQ FT	0		\$0
Structure(s)	Lump Sum	All		\$0
ENGINEERING COSTS	SUGGESTED	PERCENTAGE	UNIT COST	COST
Design Engineering	15.0%	15.0%		\$411,503
Construction Engineering	10.0%	10.0%		\$274,335
City Costs (Permitting, Public Involvement, Management)	7.0%	7.0%		\$192,035
<b>TOTAL ESTIMATED PROJECT COST</b>				\$3,621,225

Note: All figures are planning-level, order of magnitude cost estimates.

## Concept-Level Cost Estimates of Recommended Improvements

Project Sections	Action	Timing	Estimated Cost
Monroe Street— Linwood to 72nd Avenue	Sawcut and add pavement to the south	Mid-term	\$81,840
	Asphalt shared-use path	Mid-term	\$90,000
	Chicanes	Mid-term	\$170,000
	Curb ramp	Mid-term	\$55,000
	Tabled intersection	Mid-term	\$15,000
	Crosswalk markings	Mid-term	\$7,800
	Speed cushion	Mid-term	\$9,000
	Mini-roundabout	Mid-term	\$22,000
	Centerline removal	Mid-term	\$2,480
	Raised crosswalk	Mid-term	\$9,000
	North side curb	Mid-term	\$37,200
	Signs	Mid-term	\$2,000
	Monroe Street—72nd Avenue to Fuller Road	Sawcut and add pavement to the south	Mid-term
Asphalt shared-use path		Mid-term	\$58,500
Chicanes		Mid-term	\$90,000
Curb ramp		Mid-term	\$30,000
Stormwater/bioswale		Mid-term	\$11,300
Tabled intersection		Mid-term	\$15,000
Speed cushion		Mid-term	\$6,000
Crosswalk markings		Mid-term	\$2,600
Centerline removal		Mid-term	\$1,400
Raised crosswalk		Mid-term	\$6,000
North side curb		Mid-term	\$21,000
Signs		Mid-term	\$2,000
Sharrows		Mid-term	\$2,000
Concrete sidewalk		Mid-term	\$66,000

Project Sections	Action	Timing	Estimated Cost
SE 72nd Avenue	Sawcut and add pavement to the east	Mid-term	\$13,200
	Asphalt shared-use path	Mid-term	\$18,000
	Speed cushion	Mid-term	\$6,000
	Curb ramp	Mid-term	\$5,000
	Pavement markings	Mid-term	\$800
	Raised crosswalk	Mid-term	\$3,000
	Concrete sidewalk	Mid-term	\$33,000
	East side curb	Mid-term	\$4,950
	Signs	Mid-term	\$2,000
	Thompson Road (with 74th and 77th Avenues)	Sawcut and add pavement to the south	Mid-term
Asphalt shared-use path		Mid-term	\$23,760
Rectangular rapid flashing beacon		Mid-term	\$300,000
Curb ramp		Mid-term	\$40,000
Stormwater/bioswale		Mid-term	\$14,300
Tabled intersection		Mid-term	\$30,000
Speed cushion		Mid-term	\$15,000
Centerline removal		Mid-term	\$3,000
Bike lane markings		Mid-term	\$2,000
Concrete sidewalk		Mid-term	\$380,000
North side curb		Mid-term	\$30,000
Boyer Drive-85th Avenue-Spencer Drive	Signs	Mid-term	\$2,000
	Concrete sidewalk	Mid-term	\$17,500
	Curb ramp	Mid-term	\$5,000
	Signs	Mid-term	\$2,000
	Bike sharrow markings	Mid-term	\$4,000
Gateway signs	Mid-term	\$3,500	