METRO RAILROAD NEEDS STUDY

Appendix D

Cost Estimate Details

METROCOG
FARGO-MOORHEAD METROPOLITAN COUNCIL OF GOVERNMENTS

CONTENTS

A 40TH AVENUE N & 93RD STREET N

40th Avenue N & 93rd Street N					
Option 1 – Close Crossing at 93rd Street N and Realign 93rd Street N to 40th Ave N at 90-Degree Angle					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
RETURN TO TURF/ REMOVE DRIVEWAY	CLEARING AND GRUBBING	AC	$ 13,250	2.38	$ 31,535
	COMMON EXCAVATION	CY	$ 10	273	$ 2,734
	TOP SOIL	CY	$ 16	205	$ 3,281
	SEEDING	AC	$ 175	0.25	$ 44
CONSTRUCT NEW GRAVEL ROAD	COMMON EXCAVATION	CY	$ 10	2381	$ 23,813
	12 INCH SUBGRADE	SY	$ 3	2232	$ 6,697
	18" AGGREGATE	TON	$ 45	2093	$ 94,181
	8" SURFACE GRAVEL	CY	$ 50	496	$ 24,805
	1:3 EMBANKMENT - BORROW	CY	$ 12	1481	$ 17,771
SIGNAGE	REMOVE EXISTING SIGNAGE	EA	$ 585	1	$ 585
	INSTALL NEW SIGN	EA	$ 700	2	$ 1,400
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 248,215***
RAILROAD	FLAGGING	DAY/PERSON	$ 7,200	7	$ 50,400
	REMOVE EXISTING CROSSING PANEL	SY	$ 60	21	$ 1,280
	INSTALL NEW CONCRETE CROSSING PANEL	TF	$ 1,000	36	$ 36,000
	REMOVE EXISTING SIGNALS/GATES	PER CROSSING	$ 75,000	1	$ 75,000
TOTAL RR WITH 20% CONTINGENCY					***$ 195,216***
ROW	ROW ACQUISITION	AC	$ 50,000	2.71	$ 135,500
ROW WITH 20% CONTINGENCY					***$ 162,600***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	$ 90,905
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				
	MOBILIZATION	10% TOTAL		0.1	$ 60,603
TOTAL MISC					***$ 151,508***
SUM OF SUBTOTALS					***$ 757,539***
ROUNDED SUM OF SUBTOTALS					***$ 800,000***

Table A-1

93rd Street NW and 40th Avenue NW					
Option 2 – Full Realignments with Single 90-Degree Crossing at 40th Avenue NW					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	25.84	$ 342,380
RETURN TO TURF/ REMOVE DRIVEWAY	REMOVE EXISTING PAVEMENT (BITUMINOUS)	CY	$ 35	2590	$ 90,653
	COMMON EXCAVATION	CY	$ 10	3529	$ 35,293
	TOP SOIL	CY	$ 16	2882	$ 46,109
	SEEDING	AC	$ 175	3.57	$ 625
CONSTRUCT NEW GRAVEL ROAD	COMMON EXCAVATION	CY	$ 10	5546	$ 55,459
	12 INCH SUBGRADE	SY	$ 3	5199	$ 15,598
	18" AGGREGATE	TON	$ 45	4874	$ 219,345
	8" SURFACE GRAVEL	CY	$ 50	1155	$ 57,770
	1:3 EMBANKMENT - BORROW	CY	$ 12	3387	$ 40,640
BITUMINOUS NEW PAVED ROAD	COMMON EXCAVATION	CY	$ 10	12417	$ 124,171
	12 INCH SUBGRADE	SY	$ 3	13797	$ 41,390
	6 INCH AGGREGATE	TON	$ 45	4311	$ 194,017
	BITUMINOUS WEARING COURSE MIXTURE 2.0"	SY	$ 10	13797	$ 137,968
	BITUMINOUS NON WEARING COURSE MIXTURE	SY	$ 10	13797	$ 137,968
	PAVEMENT MARKING	LF	$ 10	13800	$ 138,000
	1:3 EMBANKMENT	CY	$ 10	6133	$ 61,333
SIGNAGE	REMOVE EXISTING SIGNAGE	EA	$ 585	2	$ 1,170
	INSTALL NEW SIGN	EA	$ 700	6	$ 4,200
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 2,092,906.24***
RAILROAD	FLAGGING	DAY/PERSON	$ 7,200	14	$ 100,800
	REMOVE EXISTING CROSSING PANEL	SY	$ 60	53	$ 3,200
	INSTALL NEW CONCRETE CROSSING PANEL	TF	$ 1,000	45	$ 45,000
	RELOCATE EXISTING SIGNALS/GATES	LS	$ 4,000	2	$ 8,000
	REMOVE EXISTING SIGNALS/GATES	PER CROSSING	$ 75,000	1	$ 75,000
TOTAL RR WITH 20% CONTINGENCY					***$ 278,400***
ROW	ROW ACQUISITION	AC	$ 50,000	22.76	$ 1,138,000
ROW WITH 20% CONTINGENCY					***$ 1,365,600***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	$ 560,536
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				
	MOBILIZATION	10% TOTAL		0.1	$ 373,691
TOTAL MISC					***$ 934,227***
SUM OF SUBTOTALS					***$ 4,671,133***
ROUNDED SUM OF SUBTOTALS					***$ 4,700,000***

Table A-2

B 26TH STREET NW

26th Street NW					
Option 1 – Two-Lane Overpass					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	2.9	$ 38,425
RETURN TO TURF/ REMOVE DRIVEWAY	COMMON EXCAVATION	CY	$ 10	118	$ 1,177
	TOP SOIL	CY	$ 16	118	$ 1,883
	SEEDING	AC	$ 175	0.15	$ 26
CONSTRUCT NEW GRAVEL ROAD	COMMON EXCAVATION	CY	$ 10	1035	$ 10,355
	12 INCH SUBGRADE	SY	$ 3	971	$ 2,912
	18" AGGREGATE	TON	$ 45	910	$ 40,955
	8" SURFACE GRAVEL	CY	$ 50	216	$ 10,786
CONSTRUCT NEW GRAVEL DRIVEWAY	COMMON EXCAVATION	CY	$ 10	125	$ 1,247
	12 INCH SUBGRADE	SY	$ 3	117	$ 351
	18" AGGREGATE	TON	$ 45	110	$ 4,933
	8" SURFACE GRAVEL	CY	$ 50	26	$ 1,299
CONSTRUCT DRIVEWAY	DRIVEWAY CONCRETE - 6 IN REINFORCED	SY	$ 150	505	$ 75,724
	8" CONCRETE PAVEMENT	SY	$ 85	402	$ 34,130
CONSTRUCT NEW PAVED ROAD	COMMON EXCAVATION	CY	$ 10	5213	$ 52,125
	12 INCH SUBGRADE	SY	$ 3	5792	$ 17,375
	6 INCH AGGREGATE	TON	$ 45	1810	$ 81,445
	8" CONCRETE PAVEMENT	SY	$ 85	5792	$ 492,292
	PAVEMENT MARKING	LF	$ 10	392	$ 3,919
	1:3 EMBANKMENT	CY	$ 10	34536	$ 345,358
	SAFETY RAILING	LF	$ 450	1920	$ 864,000
LIGHTING	INSTALL NEW STREET LIGHT	EA	$ 700	4	$ 2,800
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 2,500,221.06***
RAILROAD	FLAGGING	DAY/PERSON	$ 7,200	30	$ 216,000
	REMOVE EXISTING CROSSING PANEL	SY	$ 60	120	$ 7,200
	REMOVE EXISTING SIGNALS/GATES	PER CROSSING	$ 75,000	1	$ 75,000
TOTAL RR WITH 20% CONTINGENCY					***$ 357,840***
ROW	ROW ACQUISITION	AC	$ 250,000	2.13	$ 532,500
ROW WITH 20% CONTINGENCY					***$ 639,000***
STRUCTURE (WITH 30% CONTINGENCY)	CONSTRUCT NEW BRIDGE - 26TH	SF	$ 350	16000	$ 5,600,000
				30% CONTINGENCY	$ 7,280,000
RETAINING WALL (WITH 30% CONTINGENCY)		SF	$ 160	30584	$ 4,893,392
				30% CONTINGENCY	$ 6,361,409
STRUCTURAL ITEMS WITH 30% CONTINGENCY					***$ 13,641,409***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST				
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT	15% TOTAL		0.15	
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				$ 2,570,771
	MOBILIZATION	10% TOTAL		0.1	$ 1,713,847
TOTAL MISC					***$ 4,284,618***
SUM OF SUBTOTALS					***$ 21,423,088***
ROUNDED SUM OF SUBTOTALS					***$ 22,000,000***

Table B-1

26th Street NW					
Option 2 – Six-Lane Overpass					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	3.38	$ 44,785
RETURN TO TURF/ REMOVE DRIVEWAY	COMMON EXCAVATION	CY	$ 10	115	$ 1,155
	TOP SOIL	CY	$ 16	115	$ 1,848
	SEEDING	AC	$ 175	0.14	$ 25
CONSTRUCT NEW GRAVEL ROAD	COMMON EXCAVATION	CY	$ 10	1035	$ 10,355
	12 INCH SUBGRADE	SY	$ 3	971	$ 2,912
	18" AGGREGATE	TON	$ 45	910	$ 40,955
	8" SURFACE GRAVEL	CY	$ 50	216	$ 10,786
CONSTRUCT DRIVEWAY	DRIVEWAY CONCRETE - 6 IN REINFORCED	SY	$ 150	182	$ 27,258
CONSTRUCT NEW PAVED ROAD	COMMON EXCAVATION	CY	$ 10	12713	$ 127,130
	12 INCH SUBGRADE	SY	$ 3	14126	$ 42,377
	6 INCH AGGREGATE	TON	$ 45	4414	$ 198,641
	8" CONCRETE PAVEMENT	SY	$ 85	14126	$ 1,200,675
	PEDESTRIAN WALKWAY	SF	$ 15	19994	$ 299,915
CONSTRUCT MEDIAN	6"x 3' BUFFER MEDIAN	CY	$ 165	72	$ 11,935
	PAVEMENT MARKING	LF	$ 10	7783	$ 77,828
	SAFETY RAILING	LF	$ 450	1920	$ 864,000
LIGHTING	INSTALL NEW STREET LIGHT	EA	$ 700	4	$ 2,800
SIGNALIZED	TRAFFIC CONTROL SIGNAL SYSTEM	PER SYSTEM	$ 550,000	1	$ 550,000
	FURNISH TRAFFIC CONTROL SIGNAL SYSTEM MATERIAL	LS	$ 170,000	3	$ 510,000
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 4,830,457.39***
RAILROAD	FLAGGING	DAY/PERSON	$ 7,200	60	$ 432,000
	REMOVE EXISTING CROSSING PANEL	SY	$ 60	120	$ 7,200
	REMOVE EXISTING SIGNALS/GATES	PER CROSSING	$ 75,000	1	$ 75,000
TOTAL RR WITH 20% CONTINGENCY					***$ 617,040***
ROW	ROW ACQUISITION	AC	$ 250,000	0.6	$ 150,000
ROW WITH 20% CONTINGENCY					***$ 180,000***
STRUCTURE (WITH 30% CONTINGENCY)	CONSTRUCT NEW BRIDGE - 26TH	SF	$ 350	35600	$ 12,460,000
				30% CONTINGENCY	$ 16,198,000
RETAINING WALL (WITH 30% CONTINGENCY)		SF	$ 160	49407	$ 7,905,129
				30% CONTINGENCY	$ 10,276,667
STRUCTURAL ITEMS WITH 30% CONTINGENCY					***$ 26,474,667***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	$ 4,815,325
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				
	MOBILIZATION	10% TOTAL		0.1	$ 3,210,216
TOTAL MISC					***$ 8,025,541***
SUM OF SUBTOTALS					***$ 40,127,706***
ROUNDED SUM OF SUBTOTALS					***$ 41,000,000***

Table B-2

C 15TH STREET NW

15th Street NW					
Option 1 – Overpass					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	2.9	$ 38,425
RETURN TO TURF/ REMOVE DRIVEWAY	REMOVE EXISTING PAVEMENT (CONCRETE)	CY	$ 50	77	$ 3,832
	COMMON EXCAVATION	CY	$ 10	77	$ 766
	TOP SOIL	CY	$ 16	77	$ 1,226
	SEEDING	AC	$ 175	0.10	$ 17
CONSTRUCT DRIVEWAY	DRIVEWAY CONCRETE - 6 IN REINFORCED	SY	$ 150	627	$ 94,056
CONSTRUCT NEW PAVED ROAD	12 INCH SUBGRADE	SY	$ 3	11298	$ 33,895
	6 INCH AGGREGATE	TON	$ 45	3531	$ 158,885
	8" CONCRETE PAVEMENT	SY	$ 85	11298	$ 960,371
	PAVEMENT MARKING	LF	$ 10	8991	$ 89,914
	1:3 EMBANKMENT	CY	$ 10	36435	$ 364,351
	SAFETY RAILING	LF	$ 450	1917	$ 862,650
LIGHTING	INSTALL NEW STREET LIGHT	EA	$ 700	6	$ 4,200
SIGNAGE	INSTALL NEW SIGN	EA	$ 700	1	$ 700
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 3,135,946.48***
RAILROAD	FLAGGING	DAY/PERSON	$ 7,200	14	$ 100,800
TOTAL RR WITH 20% CONTINGENCY					***$ 120,960***
ROW	ROW ACQUISITION	AC	$ 200,000	3.97	$ 794,000
ROW WITH 20% CONTINGENCY					***$ 952,800***
STRUCTURE (WITH 30% CONTINGENCY)	CONSTRUCT NEW BRIDGE - 15TH	SF	$ 350	19440	$ 6,804,000
				30% CONTINGENCY	$ 8,845,200
RETAINING WALL (WITH 30% CONTINGENCY)		SF	$ 160	43470	$ 6,955,200
				30% CONTINGENCY	$ 9,041,760
STRUCTURAL ITEMS WITH 30% CONTINGENCY					***$ 17,886,960***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	$ 3,314,500
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				
	MOBILIZATION	10% TOTAL		0.1	$ 2,209,667
TOTAL MISC					***$ 5,524,167***
SUM OF SUBTOTALS					***$ 27,620,833***
ROUNDED SUM OF SUBTOTALS					***$ 28,000,000***

Table C-1

D 9TH STREET NW

9th Street NW					
Option 1 – Replace Existing Rail Bridge and Regrade Underpass					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	0.09	$ 1,150
RETURN TO TURF/ REMOVE DRIVEWAY	REMOVE EXISTING PAVEMENT (CONCRETE)	CY	$ 50	9	$ 433
	COMMON EXCAVATION	CY	$ 10	9	$ 87
	TOP SOIL	CY	$ 16	9	$ 139
	SEEDING	AC	$ 175	0.01	$ 2
CONSTRUCT DRIVEWAY	DRIVEWAY CONCRETE - 6 IN REINFORCED	SY	$ 150	531	$ 79,673
CONSTRUCT NEW PAVED ROAD (BITUMINOUS)	12 INCH SUBGRADE	SY	$ 3	4189	$ 12,568
	6 INCH AGGREGATE	TON	$ 45	1309	$ 58,912
	BITUMINOUS WEARING COURSE MIXTURE 2.0"	SY	$ 10	4189	$ 41,893
	BITUMINOUS NON WEARING COURSE MIXTURE	SY	$ 10	4189	$ 41,893
	PAVEMENT MARKING	LF	$ 10	2336	$ 23,363
	1:3 EMBANKMENT	CY	$ 10	20681	$ 206,812
	CONCRETE MEDIAN	CY	$ 165	111	$ 18,240
	BITUMINOUS WALKWAY	SF	$ 3	20472	$ 61,416
LIGHTING	INSTALL NEW STREET LIGHT	EA	$ 700	4	$ 2,800
	INSTALL UNDERPASS LIGHTING LUMINAIRE	EA	$ 1,100	4	$ 4,400
LIFT STATION	LIFT STATION	EA	$ 1,000,000	1	$ 1,000,000
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 1,864,537.76***
RAILROAD	TRACK WORK ADJACENT TO THE BRIDGE	TF	$ 300	200	$ 60,000
	SHOO FLY	LSUM	$ 2,000,000	1	$ 2,000,000
	FLAGGING	DAY/PERSON	$ 7,200	135	$ 972,000
TOTAL RR WITH 20% CONTINGENCY					***$ 3,638,400***
ROW	ROW ACQUISITION	AC	$ 200,000	1.09	$ 218,000
ROW WITH 20% CONTINGENCY					***$ 261,600***
STRUCTURE (WITH 30% CONTINGENCY)	NEW RR STRUCTURE	TF	$ 20,000	288	$ 5,760,000
	REMOVE EXISTING BRIDGE	LSUM	$ 189,500	1	$ 189,500
RETAINING WALL (WITH 30% CONTINGENCY)		SF	$ 160	4409	$ 705,388
STRUCTURAL ITEMS WITH 30% CONTINGENCY					***$ 8,651,354***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	$ 2,162,384
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				
	MOBILIZATION	10% TOTAL		0.1	$ 1,441,589
TOTAL MISC					***$ 3,603,973***
SUM OF SUBTOTALS					***$ 18,019,865***
ROUNDED SUM OF SUBTOTALS					***$ 18,100,000***

Table D-1

Column1	Column2	Column3	Column4	Column5	Column6
9th Street NW					
Option 2 – Construct Overpass					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	3.38	$ 44,785
RETURN TO TURF/ REMOVE DRIVEWAY	COMMON EXCAVATION	CY	$ 10	9	$ 87
	TOP SOIL	CY	$ 16	9	$ 139
	SEEDING	AC	$ 175	0.01	$ 2
CONSTRUCT NEW GRAVEL ROAD	COMMON EXCAVATION	CY	$ 10	1008	$ 10,075
	12 INCH SUBGRADE	SY	$ 3	945	$ 2,834
	18" AGGREGATE	TON	$ 45	886	$ 39,849
	8" SURFACE GRAVEL	CY	$ 50	210	$ 10,495
CONSTRUCT DRIVEWAY	DRIVEWAY CONCRETE - 6 IN REINFORCED	SY	$ 150	329	$ 49,382
CONSTRUCT NEW PAVED ROAD (BITUMINOUS)	12 INCH SUBGRADE	SY	$ 3	4878	$ 14,633
	6 INCH AGGREGATE	TON	$ 45	1524	$ 68,592
	BITUMINOUS WEARING COURSE MIXTURE 2.0"	SY	$ 10	4878	$ 48,776
	BITUMINOUS NON WEARING COURSE MIXTURE	SY	$ 10	4878	$ 48,776
	PAVEMENT MARKING	LF	$ 10	3611	$ 36,106
	1:3 EMBANKMENT	CY	$ 10	22197	$ 221,970
	PEDESTRIAN WALKWAY	SF	$ 15	23098	$ 346,475
CONSTRUCT MEDIAN	6"x 3' BUFFER MEDIAN	CY	$ 165	126	$ 20,768
	SAFETY RAILING	LF	$ 450	1920	$ 864,000
LIGHTING	INSTALL NEW STREET LIGHT	EA	$ 700	4	$ 2,800
SIGNALIZED	TRAFFIC CONTROL SIGNAL SYSTEM	PER SYSTEM	$ 550,000	1	$ 550,000
	FURNISH TRAFFIC CONTROL SIGNAL SYSTEM MATERIAL	LS	$ 170,000	3	$ 510,000
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 3,468,652.75***
RAILROAD	FLAGGING	DAY/PERSON	$ 7,200	60	$ 432,000
TOTAL RR WITH 20% CONTINGENCY					***$ 518,400***
ROW	ROW ACQUISITION	AC	$ 200,000	1.28	$ 256,000
ROW WITH 20% CONTINGENCY					***$ 307,200***
STRUCTURE (WITH 30% CONTINGENCY)	CONSTRUCT NEW BRIDGE - 9TH	SF	$ 350	24890	$ 8,711,481
RETAINING WALL (WITH 30% CONTINGENCY)		SF	$ 160	18106	$ 2,896,933
STRUCTURAL ITEMS WITH 30% CONTINGENCY					***$ 15,090,939***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	$ 2,907,779
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				
	MOBILIZATION	10% TOTAL		0.1	$ 1,938,519
TOTAL MISC					***$ 4,846,298***
SUM OF SUBTOTALS					***$ 24,231,490***
ROUNDED SUM OF SUBTOTALS					***$ 25,000,000***

Table D-2

E CENTER STREET

Center Street					
Option 1 – Replace Rail Bridge and Regrade Underpass					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	0.9	$ 11,925
CONSTRUCT DRIVEWAY	DRIVEWAY CONCRETE - 6 IN REINFORCED	SY	$ 150	841	$ 126,183
CONSTRUCT NEW PAVED ROAD	12 INCH SUBGRADE	SY	$ 3	3614	$ 10,843
	6 INCH AGGREGATE	TON	$ 45	1129	$ 50,825
	8" CONCRETE PAVEMENT	SY	$ 85	3614	$ 307,209
	PAVEMENT MARKING	LF	$ 10	2483	$ 24,830
	1:3 EMBANKMENT	CY	$ 10	13622	$ 136,215
	PEDESTRAIN WALKWAY	SF	$ 15	8269	$ 124,035
LIGHTING	INSTALL NEW STREET LIGHT	EA	$ 700	4	$ 2,800
	INSTALL UNDERPASS LIGHTING LUMINAIRE	EA	$ 1,100	2	$ 2,200
LIFT STATION	LIFT STATION	EA	$ 1,000,000	1	$ 1,000,000
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 2,156,478.30***
RAILROAD	TRACK WORK ADJACENT TO THE BRIDGE	TF	$ 300	200	$ 60,000
	SHOO FLY	LSUM	$ 2,000,000	1	$ 2,000,000
	FLAGGING	DAY/PERSON	$ 7,200	135	$ 972,000
TOTAL RR WITH 20% CONTINGENCY					***$ 3,638,400***
ROW	ROW ACQUISITION	AC	$ 200,000	0.81	$ 162,000
ROW WITH 20% CONTINGENCY					***$ 194,400***
STRUCTURE (WITH 30% CONTINGENCY)	NEW RR STRUCTURE	TF	$ 20,000	300	$ 6,000,000
	REMOVE EXISTING BRIDGE	LSUM	$ 189,500	1	$ 189,500
RETAINING WALL (WITH 30% CONTINGENCY)		SF	$ 160	1063	$ 170,000
STRUCTURAL ITEMS WITH 30% CONTINGENCY					***$ 8,267,350***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	$ 2,138,494
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				
	MOBILIZATION	10% TOTAL		0.1	$ 1,425,663
TOTAL MISC					***$ 3,564,157***
SUM OF SUBTOTALS					***$ 17,820,785***
ROUNDED SUM OF SUBTOTALS					***$ 17,900,000***

Table E-1

Center Street					
Option 2 – Construct Overpass					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	3.38	$ 44,785
RETURN TO TURF/ REMOVE DRIVEWAY	COMMON EXCAVATION	CY	$ 10	428	$ 4,282
	TOP SOIL	CY	$ 16	79	$ 1,269
	SEEDING	AC	$ 175	0.10	$ 17
CONSTRUCT DRIVEWAY	DRIVEWAY CONCRETE - 6 IN REINFORCED	SY	$ 150	1406	$ 210,972
CONSTRUCT NEW PAVED ROAD (BITUMINOUS)	12 INCH SUBGRADE	SY	$ 3	5738	$ 17,213
	6 INCH AGGREGATE	TON	$ 45	1793	$ 80,684
	BITUMINOUS WEARING COURSE MIXTURE 2.0"	SY	$ 10	5738	$ 57,375
	BITUMINOUS NON WEARING COURSE MIXTURE	SY	$ 10	5738	$ 57,375
	PAVEMENT MARKING	LF	$ 10	4203	$ 42,027
	1:3 EMBANKMENT	CY	$ 10	19605	$ 196,046
	PEDESTRIAN WALKWAY	SF	$ 15	12762	$ 191,425
CONSTRUCT MEDIAN	6"x 3' BUFFER MEDIAN	CY	$ 165	43	$ 7,154
	SAFETY RAILING	LF	$ 450	1920	$ 864,000
LIGHTING	INSTALL NEW STREET LIGHT	EA	$ 700	4	$ 2,800
SIGNALIZED	TRAFFIC CONTROL SIGNAL SYSTEM	PER SYSTEM	$ 550,000	1	$ 550,000
	FURNISH TRAFFIC CONTROL SIGNAL SYSTEM MATERIAL	LS	$ 170,000	3	$ 510,000
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 3,404,909.67***
RAILROAD	FLAGGING	DAY/PERSON	$ 7,200	60	$ 432,000
TOTAL RR WITH 20% CONTINGENCY					***$ 518,400***
ROW	ROW ACQUISITION	AC	$ 200,000	0.79	$ 158,000
ROW WITH 20% CONTINGENCY					***$ 189,600***
STRUCTURE (WITH 30% CONTINGENCY)	CONSTRUCT NEW BRIDGE - 9TH	SF	$ 350	24890	$ 8,711,481
RETAINING WALL (WITH 30% CONTINGENCY)		SF	$ 160	1100	$ 176,050
STRUCTURAL ITEMS WITH 30% CONTINGENCY					***$ 11,553,790***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	$ 2,350,005
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				
	MOBILIZATION	10% TOTAL		0.1	$ 1,566,670
TOTAL MISC					***$ 3,916,675***
SUM OF SUBTOTALS					***$ 19,583,375***
ROUNDED SUM OF SUBTOTALS					***$ 20,000,000***

Table E-2

F 18TH STREET PEDESTRIAN CROSSING

18th Street Pedestrian Crossing					
Option 1 – Pedestrian Bridge with ADA Spiral Ramp					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	0.57	$ 7,553
CONSTRUCT PATH TO RAMP	DRIVEWAY CONCRETE - 6 IN REINFORCED	SY	$ 150	50	$ 7,537
LIGHTING	INSTALL NEW STREET LIGHT	EA	$ 700	4	$ 2,800
	SAFETY GUARDRAIL	LF	$ 450	1750	$ 787,500
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 966,467.73***
ROW	ROW ACQUISITION	AC	$ 300,000	0.57	$ 171,000
ROW WITH 20% CONTINGENCY					***$ 205,200***
STRUCTURE	CONSTRUCT NEW PED BRIDGE	LSUM	$ 800,000	1	$ 800,000
	CONSTRUCT PED RAMP SOUTH	LSUM	$ 1,500,000	1	$ 1,500,000
	CONSTRUCT PED RAMP NORTH	LSUM	$ 960,000	1	$ 960,000
STRUCTURAL ITEMS WITH 30% CONTINGENCY					***$ 4,238,000***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	$ 811,450
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				
	MOBILIZATION	10% TOTAL		0.1	$ 540,967
TOTAL MISC					***$ 1,352,417***
SUM OF SUBTOTALS					***$ 6,762,085***
ROUNDED SUM OF SUBTOTALS					***$ 6,800,000***

Table F-1

18th Street Pedestrian Crossing					
Option 2 - Pedestrian Bridge with Ramp Access					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	1.01	$ 13,383
CONSTRUCT PATH TO RAMP	DRIVEWAY CONCRETE - 6 IN REINFORCED	SY	$ 150	1896	$ 284,337
	PEDESTRIAN WALKWAY	SF	$ 15	4195	$ 62,919
LIGHTING	INSTALL NEW STREET LIGHT	EA	$ 700	6	$ 4,200
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 437,806.78***
RAILROAD	FLAGGER	PER/DAY	$ 7,200	14	$ 100,800
TOTAL RR WITH 20% CONTINGENCY					***$ 120,960***
ROW	ROW ACQUISITION	AC	$ 300,000	1.01	$ 303,000
ROW WITH 20% CONTINGENCY					***$ 363,600***
STRUCTURE (WITH 30% CONTINGENCY)	CONSTRUCT NEW PED BRIDGE	LSUM	$ 1,100,000	1	$ 1,100,000
RETAINING WALL	CONSTRUCT RETAINING WALL (OPTION 2)	SF	$ 105	15188	$ 1,594,688
STRUCTURAL ITEMS WITH 30% CONTINGENCY					***$ 3,503,093.75***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	$ 663,819
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				
	MOBILIZATION	10% TOTAL		0.1	$ 442,546
TOTAL MISC					***$ 1,106,365***
SUM OF SUBTOTALS					***$ 5,531,826***
ROUNDED SUM OF SUBTOTALS					***$ 5,600,000***

Table F-2

18th Street Pedestrian Crossing					
Option 3 - Pedestrian Underpass					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	0.64	$ 8,480
CONSTRUCT PATH TO RAMP	1:3 EMBANKMENT	CY	$ 10	1646	$ 16,465
	PEDESTRIAN WALKWAY	SF	$ 15	10402	$ 156,028
LIFT STATION	LIFT STATION	EA	$ 250,000	1	$ 250,000
LIGHTING	INSTALL NEW STREET LIGHT	EA	$ 700	8	$ 5,600
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 523,888.01***
RAILROAD	FLAGGER	PER/DAY	$ 7,200	10	$ 72,000
	SHOO FLY	LSUM	$ 1,000,000	1	$ 1,000,000
TOTAL RR WITH 20% CONTINGENCY					***$ 1,286,400***
ROW	ROW ACQUISITION	AC	$ 300,000	0.64	$ 192,000
ROW WITH 20% CONTINGENCY					***$ 230,400***
STRUCTURE (WITH 30% CONTINGENCY)	CONSTRUCT NEW PED BOX CULVERT	LF	$ 5,000	120	$ 600,000
RETAINING WALL	CONSTRUCT RETAINING WALL	SF	$ 105	8605	$ 903,512
STRUCTURAL ITEMS WITH 30% CONTINGENCY					***$ 1,954,565.24***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	25% TOTAL		0.25	
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				$ 998,813
	MOBILIZATION	10% TOTAL		0.1	$ 399,525
TOTAL MISC					***$ 1,398,339***
SUM OF SUBTOTALS					***$ 5,393,592***
ROUNDED SUM OF SUBTOTALS					***$ 5,400,000***

Table F-3

G 7TH AVENUE NORTH

7th Avenue North					
Option 1 - Underpass					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	0.09	$ 1,150
RETURN TO TURF/ REMOVE DRIVEWAY	REMOVE EXISTING PAVEMENT (CONCRETE)	CY	$ 50	70	$ 3,502
	COMMON EXCAVATION	CY	$ 10	70	$ 700
	TOP SOIL	CY	$ 16	70	$ 1,121
	SEEDING	AC	$ 175	0.09	$ 15
CONSTRUCT DRIVEWAY	DRIVEWAY CONCRETE - 6 IN REINFORCED	SY	$ 150	189	$ 28,317
CONSTRUCT NEW PAVED ROAD	12 INCH SUBGRADE	SY	$ 3	4003	$ 12,009
	6 INCH AGGREGATE	TON	$ 45	1251	$ 56,290
	8" CONCRETE PAVEMENT	SY	$ 85	4003	$ 340,241
	PAVEMENT MARKING	LF	$ 10	2348	$ 23,480
	PEDESTRIAN WALKWAY	SF	$ 15	5259	$ 78,879
LIGHTING	INSTALL NEW STREET LIGHT	EA	$ 700	4	$ 2,800
	INSTALL UNDERPASS LIGHTING LUMINAIRE	EA	$ 1,100	2	$ 2,200
SIGNAGE	REMOVE EXISTING SIGNAGE	EA	$ 585	2	$ 1,170
	INSTALL NEW SIGN	EA	$ 700	2	$ 1,400
LIFT STATION	LIFT STATION	EA	$ 500,000	1	$ 500,000
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 1,263,928.79***
RAILROAD	TRACK WORK ADJACENT TO THE BRIDGE	TF	$ 300	100	$ 30,000
	SHOO FLY	LSUM	$ 500,000	1	$ 500,000
	FLAGGING	DAY/PERSON	$ 7,200	135	$ 972,000
	INSTALL RAILROAD PED GATES	EA	$ 5,000	2	$ 10,000
TOTAL RR WITH 20% CONTINGENCY					***$ 1,814,400***
STRUCTURE (WITH 30% CONTINGENCY)	CONSTRUCT NEW BRIDGE - 7TH	TF	$ 25,000	200	$ 5,000,000
RETAINING WALL (WITH 30% CONTINGENCY)		SF	$ 160	41018	$ 6,562,800
STRUCTURAL ITEMS WITH 30% CONTINGENCY					***$ 15,031,640.00***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	$ 2,716,495
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				
	MOBILIZATION	10% TOTAL		0.1	$ 1,810,997
TOTAL MISC					***$ 4,527,492***
SUM OF SUBTOTALS					***$ 22,637,461***
ROUNDED SUM OF SUBTOTALS					***$ 23,000,000***

Table G-1

7th Avenue North					
Option 2 – Quiet Zone					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	0.12	$ 1,590
RETURN TO TURF/ REMOVE DRIVEWAY	REMOVE EXISTING PAVEMENT (CONCRETE)	CY	$ 50	33	$ 1,629
	COMMON EXCAVATION	CY	$ 10	33	$ 326
	TOP SOIL	CY	$ 16	33	$ 521
	SEEDING	AC	$ 175	0.04	$ 7
CONSTRUCT DRIVEWAY	DRIVEWAY CONCRETE - 6 IN REINFORCED	SY	$ 150	216	$ 32,368
MEDIAN	REMOVE CONCRETE MEDIAN	LF	$ 20	90	$ 1,800
	CONCRETE MEDIAN	CY	$ 165	80	$ 13,255
SIGNAGE	REMOVE EXISTING SIGNAGE	EA	$ 585	1	$ 585
	INSTALL NEW SIGN	EA	$ 700	2	$ 1,400
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 64,177.92***
RAILROAD SIDE	FLAGGING	DAY/PERSON	$ 7,200	14	$ 100,800
	RELOCATE EXISTING GATES	LS	$ 4,000	2	$ 8,000
	INSTALL RAILROAD GATES	PER CROSSING	$ 300,000	1	$ 300,000
TOTAL RR WITH 20% CONTINGENCY					***$ 490,560***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				$ 83,211
	MOBILIZATION	10% TOTAL		0.1	$ 55,474
TOTAL MISC					***$ 138,684***
SUM OF SUBTOTALS					***$ 693,422***
ROUNDED SUM OF SUBTOTALS					***$ 700,000***

Table G-2

H UNIVERSITY NEAR 7TH UNDERPASS

University Near 7th Underpass					
Option 1 – Replace Rail Bridge and Regrade Underpass					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	0.09	$ 1,150
CONSTRUCT DRIVEWAY	DRIVEWAY CONCRETE - 6 IN REINFORCED	SY	$ 150	43	$ 6,521
CONSTRUCT NEW PAVED ROAD	12 INCH SUBGRADE	SY	$ 3	5521	$ 16,562
	6 INCH AGGREGATE	TON	$ 45	1725	$ 77,633
	BITUMINOUS WEARING COURSE MIXTURE 2.0"	SY	$ 10	5521	$ 55,206
	BITUMINOUS NON WEARING COURSE MIXTURE	SY	$ 10	5521	$ 55,206
	PEDESTRIAN WALKWAY	SF	$ 15	13274	$ 199,107
	PAVEMENT MARKING	LF	$ 10	3185	$ 31,853
	SAFETY GUARDRAIL	LF	$ 450	1000	$ 450,000
LIGHTING	INSTALL UNDERPASS LIGHTING LUMINAIRE	EA	$ 1,100	2	$ 2,200
SIGNAGE	INSTALL NEW SIGN	EA	$ 700	2	$ 1,400
LIFT STATION	LIFT STATION	EA	$ 1,000,000	1	$ 1,000,000
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 2,276,205.19***
RAILROAD	TRACK WORK ADJACENT TO THE BRIDGE	TF	$ 300	100	$ 30,000
	SHOO FLY	LSUM	$ 1,000,000	1	$ 1,000,000
	FLAGGING	DAY/PERSON	$ 7,200	135	$ 972,000
TOTAL RR WITH 20% CONTINGENCY					***$ 2,402,400***
STRUCTURE (WITH 30% CONTINGENCY)	REPLACEMENT OF EXISTING BRIDGE-UNIVERSITY NEAR 7TH	TF	$ 30,000	150	$ 4,500,000
	REMOVE EXISTING BRIDGE	LSUM	$ 189,000	1	$ 189,000
RETAINING WALL (WITH 30% CONTINGENCY)		SF	$ 180	12269	$ 2,208,430
STRUCTURAL ITEMS WITH 30% CONTINGENCY					***$ 8,966,659.48***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	$ 2,046,790
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				
	MOBILIZATION	10% TOTAL		0.1	$ 1,364,526
TOTAL MISC					***$ 3,411,316***
SUM OF SUBTOTALS					***$ 17,056,581***
ROUNDED SUM OF SUBTOTALS					***$ 17,100,000***

Table H-1

I 10TH STREET N NEAR 7TH AVENUE

10th Street N Near 7th Avenue N					
Option 1 – Regrade Underpass and Improve Vertical Clearance					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	1.27	$ 16,828
CONSTRUCT DRIVEWAY	DRIVEWAY CONCRETE - 6 IN REINFORCED	SY	$ 150	200	$ 30,042
CONSTRUCT NEW PAVED ROAD	12 INCH SUBGRADE	SY	$ 3	4051	$ 12,154
	6 INCH AGGREGATE	TON	$ 45	1266	$ 56,974
	BITUMINOUS WEARING COURSE MIXTURE 2.0"	SY	$ 10	4051	$ 40,515
	BITUMINOUS NON WEARING COURSE MIXTURE	SY	$ 10	4051	$ 40,515
	PEDESTRIAN WALKWAY	SF	$ 15	16127	$ 241,906
	PAVEMENT MARKING	LF	$ 10	2058	$ 20,584
	SAFETY GUARDRAIL	LF	$ 450	1360	$ 612,000
LIGHTING	INSTALL UNDERPASS LIGHTING LUMINAIRE	EA	$ 1,100	4	$ 4,400
SIGNAGE	INSTALL NEW SIGN	EA	$ 700	2	$ 1,400
LIFT STATION	LIFT STATION	EA	$ 1,000,000	1	$ 1,000,000
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 2,492,779.98***
RAILROAD	TRACK WORK ADJACENT TO THE BRIDGE	TF	$ 300	300	$ 90,000
	SHOO FLY	LSUM	$ 1,000,000	1	$ 1,000,000
	FLAGGING	DAY/PERSON	$ 7,200	135	$ 972,000
TOTAL RR WITH 20% CONTINGENCY					***$ 2,474,400***
STRUCTURE (WITH 30% CONTINGENCY)	REPLACEMENT OF EXISTING BRIDGE-10TH NEAR 7TH	TF	$ 30,000	180	$ 5,400,000
	REMOVE EXISTING BRIDGE	LSUM	$ 189,000	1	$ 189,000
RETAINING WALL (WITH 30% CONTINGENCY)		SF	$ 180	15646	$ 2,816,264
STRUCTURAL ITEMS WITH 30% CONTINGENCY					***$ 10,926,843.44***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	$ 2,384,104
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				
	MOBILIZATION	10% TOTAL		0.1	$ 1,589,402
TOTAL MISC					***$ 3,973,506***
SUM OF SUBTOTALS					***$ 19,867,529***
ROUNDED SUM OF SUBTOTALS					***$ 20,000,000***

Table I-1

J 19TH STREET N

19th Avenue N					
Option 1A – Shared-Use path on North Side					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	0.98	$ 12,985
BITUMINOUS NEW PAVED ROAD	COMMON EXCAVATION	CY	$ 10	4255	$ 42,553
	12 INCH SUBGRADE	SY	$ 3	4728	$ 14,184
	6 INCH AGGREGATE	TON	$ 45	1478	$ 66,489
	PEDESTRIAN WALKWAY	SF	$ 15	42553	$ 638,295
	SAFETY RAILING	LF	$ 450	472	$ 212,400
LIGHTING	INSTALL NEW STREET LIGHT	EA	$ 700	4	$ 2,800
SIGNAGE	INSTALL NEW SIGN	EA	$ 700	4	$ 2,800
	CROSSWALK MARKING	SF	$ 10	216	$ 2,160
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 1,193,599.68***
RAILROAD	FLAGGING	DAY/PERSON	$ 7,200	10	$ 72,000
TOTAL RR WITH 20% CONTINGENCY					***$ 86,400***
ROW	ROW ACQUISITION	AC	$ 300,000	0.98	$ 294,000
ROW WITH 20% CONTINGENCY					***$ 352,800***
RETAINING WALL (WITH 30% CONTINGENCY)	MODIFY EXISTING RETAINING WALL FOR PATH	SF	$ 105	4720	$ 495,600
STRUCTURAL ITEMS WITH 30% CONTINGENCY					***$ 644,280.00***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				$ 341,562
	MOBILIZATION	10% TOTAL		0.1	$ 227,708
TOTAL MISC					***$ 569,270***
SUM OF SUBTOTALS					***$ 2,846,350***
ROUNDED SUM OF SUBTOTALS					***$ 2,900,000***

Table J-1A

19th Avenue N					
Option 1B – Shared-Use path on South Side					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	0.9	$ 11,925
BITUMINOUS NEW PAVED ROAD	COMMON EXCAVATION	CY	$ 10	3921	$ 39,207
	12 INCH SUBGRADE	SY	$ 3	4356	$ 13,069
	6 INCH AGGREGATE	TON	$ 45	1361	$ 61,261
	PEDESTRIAN WALKWAY	SF	$ 15	39207	$ 588,110
	SAFETY RAILING	LF	$ 450	478	$ 215,100
LIGHTING	INSTALL NEW STREET LIGHT	EA	$ 700	4	$ 2,800
SIGNAGE	INSTALL NEW SIGN	EA	$ 700	4	$ 2,800
	CROSSWALK MARKING	SF	$ 10	523	$ 5,232
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 1,127,406.29***
RAILROAD	FLAGGING	DAY/PERSON	$ 7,200	10	$ 72,000
TOTAL RR WITH 20% CONTINGENCY					***$ 86,400***
ROW	ROW ACQUISITION	AC	$ 200,000	0.89	$ 178,000
ROW WITH 20% CONTINGENCY					***$ 213,600***
RETAINING WALL (WITH 30% CONTINGENCY)	MODIFY EXISTING RETAINING WALL FOR PATH	SF	$ 105	4720	$ 495,600
STRUCTURAL ITEMS WITH 30% CONTINGENCY					***$ 644,280.00***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST				
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT	15% TOTAL		0.15	
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				$ 310,753
	MOBILIZATION	10% TOTAL		0.1	$ 207,169
TOTAL MISC					***$ 517,922***
SUM OF SUBTOTALS					***$ 2,589,608***
ROUNDED SUM OF SUBTOTALS					***$ 2,600,000***

Table J-1B

K 34TH STREET

34th Street					
Option 1 – Construct Access Road beneath 34th Street South					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	2.16	$ 28,620
CONSTRUCT DRIVEWAY	DRIVEWAY CONCRETE - 6 IN REINFORCED	SY	$ 150	552	$ 82,733
CONSTRUCT NEW PAVED ROAD	12 INCH SUBGRADE	SY	$ 3	8324	$ 24,973
	6 INCH AGGREGATE	TON	$ 45	2601	$ 117,062
	8" CONCRETE PAVEMENT	SY	$ 85	8324	$ 707,572
	PAVEMENT MARKING	LF	$ 10	11159	$ 111,591
LIGHTING	INSTALL NEW STREET LIGHT	EA	$ 700	12	$ 8,400
	INSTALL UNDERPASS LIGHTING LUMINAIRE	EA	$ 1,100	2	$ 2,200
SIGNAGE	INSTALL NEW SIGN	EA	$ 700	17	$ 11,900
DRAINAGE	BOX CULVERT	LF	$ 2,500	65	$ 162,500
	EXCAVATION-POND	CY	$ 12	5078	$ 60,939
	CONSTRUCT NEW POND	CF	$ 1	5078	$ 5,078
	REGRADING EXISTING POND	CF	$ 2	5078	$ 10,156
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 1,600,469.02***
ROW	ROW ACQUISITION	AC	$ 200,000	2.3	$ 450,000
ROW WITH 20% CONTINGENCY					***$ 540,000***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST				
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT	15% TOTAL		0.15	
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				$ 321,070
	MOBILIZATION	10% TOTAL		0.1	$ 214,047
TOTAL MISC					***$ 535,117***
SUM OF SUBTOTALS					***$ 2,675,586***
ROUNDED SUM OF SUBTOTALS					***$ 2,700,000***

Table K-1

L MAIN STREET & 14TH STREET GRADE SEPARATION

Main Street & 14th Street Grade Separation					
Option 1 – Main Street closure and 14th Street Overpass					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	1.71	$ 22,693
RETURN TO TURF/ REMOVE DRIVEWAY	REMOVE EXISTING PAVEMENT (BITUMINOUS)	CY	$ 35	163	$ 5,701
	COMMON EXCAVATION	CY	$ 10	122	$ 1,222
	TOP SOIL	CY	$ 16	122	$ 1,955
	SEEDING	AC	$ 175	0.15	$ 27
CONSTRUCT NEW PAVED ROAD	12 INCH SUBGRADE	SY	$ 3	51918	$ 155,755
	6 INCH AGGREGATE	TON	$ 45	16224	$ 730,100
	8" CONCRETE PAVEMENT	SY	$ 85	51918	$ 4,413,048
	PAVEMENT MARKING	LF	$ 10	41917	$ 419,168
	1:3 EMBANKMENT	CY	$ 10	44784	$ 447,843
	PEDESTRIAN WALKWAY	SF	$ 15	92446	$ 1,386,697
	SAFETY RAILING	LF	$ 450	1917	$ 862,650
MEDIAN	REMOVE CONCRETE MEDIAN	LF	$ 20	164	$ 3,280
	CONSTRUCT MEDIAN	CY	$ 165	339	$ 55,859
DRAINAGE	BOX CULVERT - OVERPASS	LF	$ 7,500	16	$ 120,000
	BOX CULVERT - REGULAR	LF	$ 2,500	182	$ 455,000
LIGHTING	INSTALL NEW STREET LIGHT	EA	$ 700	8	$ 5,600
SIGNAGE	INSTALL NEW SIGN	EA	$ 700	11	$ 7,700
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 10,913,155.98***
RAILROAD SIDE	FLAGGING	DAY/PERSON	$ 7,200	60	$ 432,000
	REMOVE EXISTING CROSSING PANEL	SY	$ 60	125	$ 7,520
	REMOVE EXISTING SIGNALS/GATES	PER CROSSING	$ 75,000	1	$ 75,000
	REMOVE SIGNAL SYSTEMS	EA	$ 13,500	1	$ 13,500
	INSTALL MEDIAN BARRIER CONCRETE	LF	$ 315	60	$ 18,900
	REMOVE CONCRETE MEDIAN	LF	$ 12	200	$ 2,300
	INSTALL TYPE III BARRICADES	EA	$ 500	8	$ 4,000
TOTAL RR WITH 20% CONTINGENCY					***$ 663,864***
ROW	ROW ACQUISITION	AC	$ 250,000	5.99	$ 1,497,500
ROW WITH 20% CONTINGENCY					***$ 1,797,000***
STRUCTURE (WITH 30% CONTINGENCY)	CONSTRUCT NEW BRIDGE -14TH	SF	$ 350	20790	$ 7,276,500
RETAINING WALL (WITH 30% CONTINGENCY)		SF	$ 160	18377	$ 2,940,342
STRUCTURAL ITEMS WITH 30% CONTINGENCY					***$ 13,281,894.37***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				$ 3,998,387
	MOBILIZATION	10% TOTAL		0.1	$ 2,665,591
TOTAL MISC					***$ 6,663,979***
SUM OF SUBTOTALS					***$ 33,319,893***
ROUNDED SUM OF SUBTOTALS					***$ 34,000,000***

Table L-1

M 40TH AVENUE S

40th Avenue S					
Option 1A – Improve Existing Crossing Conditions					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	0.28	$ 3,723
CONSTRUCT NEW GRAVEL DRIVEWAY	COMMON EXCAVATION	CY	$ 10	154	$ 1,538
	12 INCH SUBGRADE	SY	$ 3	144	$ 433
	18" AGGREGATE	TON	$ 45	135	$ 6,084
	8" SURFACE GRAVEL	CY	$ 50	32	$ 1,602
BITUMINOUS NEW PAVED ROAD	12 INCH SUBGRADE	SY	$ 3	1421	$ 4,262
	6 INCH AGGREGATE	TON	$ 45	444	$ 19,980
	BITUMINOUS WEARING COURSE MIXTURE 2.0"	SY	$ 10	1421	$ 14,208
	BITUMINOUS NON WEARING COURSE MIXTURE	SY	$ 10	1421	$ 14,208
	PAVEMENT MARKING	LF	$ 10	928	$ 9,280
LIGHTING	INSTALL NEW STREET LIGHT	EA	$ 700	1	$ 700
SIGNAGE	INSTALL NEW SIGN	EA	$ 700	6	$ 4,200
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 96,262.18***
RAILROAD SIDE	FLAGGING	DAY/PERSON	$ 7,200	7	$ 50,400
	REMOVE EXISTING CROSSING PANEL	SY	$ 60	212	$ 12,720
	INSTALL NEW CONCRETE CROSSING PANEL	TF	$ 1,000	50	$ 50,000
TOTAL RR WITH 20% CONTINGENCY					***$ 135,744***
ROW	ROW ACQUISITION	AC	$ 250,000	0.17	$ 42,500
ROW WITH 20% CONTINGENCY					***$ 51,000***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	$ 42,451
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				
	MOBILIZATION	10% TOTAL		0.1	$ 28,301
TOTAL MISC					***$ 70,752***
SUM OF SUBTOTALS					***$ 353,758***
ROUNDED SUM OF SUBTOTALS					***$ 360,000***

Table M-1A

40th Avenue S					
Option 1B – Upgrade to a Quiet Zone Ready Configuration					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	0.43	$ 5,631
CONSTRUCT NEW GRAVEL DRIVEWAY	COMMON EXCAVATION	CY	$ 10	107	$ 1,070
	12 INCH SUBGRADE	SY	$ 3	100	$ 301
	18" AGGREGATE	TON	$ 45	94	$ 4,233
	8" SURFACE GRAVEL	CY	$ 50	22	$ 1,115
BITUMINOUS NEW PAVED ROAD	12 INCH SUBGRADE	SY	$ 3	1950	$ 5,851
	6 INCH AGGREGATE	TON	$ 45	609	$ 27,425
	BITUMINOUS WEARING COURSE MIXTURE 2.0"	SY	$ 10	1950	$ 19,502
	BITUMINOUS NON WEARING COURSE MIXTURE	SY	$ 10	1950	$ 19,502
	PAVEMENT MARKING	LF	$ 10	2136	$ 21,362
MEDIAN	CONCRETE MEDIAN	CY	$ 165	18	$ 2,901
LIGHTING	INSTALL NEW STREET LIGHT	EA	$ 700	2	$ 1,400
SIGNAGE	REMOVE EXISTING SIGNAGE	EA	$ 585	2	$ 1,170
	INSTALL NEW SIGN	EA	$ 700	7	$ 4,900
DRAINAGE	BOX CULVERT EXTENSION	LF	$ 25	18	$ 450
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 140,175.75***
RAILROAD SIDE	FLAGGING	DAY/PERSON	$ 7,200	21	$ 151,200
	REMOVE EXISTING CROSSING PANEL	SY	$ 60	212	$ 12,720
	INSTALL NEW CONCRETE CROSSING PANEL	TF	$ 1,000	66	$ 66,000
	INSTALL RAILROAD GATES	PER CROSSING	$ 300,000	1	$ 300,000
TOTAL RR WITH 20% CONTINGENCY					***$ 635,904***
ROW	ROW ACQUISITION	AC	$ 250,000	0.47	$ 117,500
ROW WITH 20% CONTINGENCY					***$ 141,000***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	$ 137,562
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				
	MOBILIZATION	10% TOTAL		0.1	$ 91,708
TOTAL MISC					***$ 229,270***
SUM OF SUBTOTALS					***$ 1,146,350***
ROUNDED SUM OF SUBTOTALS					***$ 1,200,000***

Table M-1B

40th Avenue S					
Option 2A – Close Existing Crossing and Re-Route Traffic to 34th Avenue S Crossing					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
RETURN TO TURF/ REMOVE DRIVEWAY	REMOVE EXISTING PAVEMENT (BITUMINOUS)	CY	$ 35	112	$ 3,922
	COMMON EXCAVATION	CY	$ 10	1051	$ 10,513
	TOP SOIL	CY	$ 16	1023	$ 16,372
	SEEDING	AC	$ 175	0.10	$ 18
SIGNAGE	INSTALL NEW SIGN	EA	$ 700	4	$ 2,800
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 40,350.45***
RAILROAD SIDE	FLAGGING	DAY/PERSON	$ 7,200	5	$ 36,000
	REMOVE EXISTING CROSSING PANEL	SY	$ 60	792	$ 47,520
TOTAL RR WITH 20% CONTINGENCY					***$ 100,224***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				$ 21,086
	MOBILIZATION	10% TOTAL		0.1	$ 14,057
TOTAL MISC					***$ 35,144***
SUM OF SUBTOTALS					***$ 175,718***
ROUNDED SUM OF SUBTOTALS					***$ 180,000***

Table M-2A

N 50TH AVENUE S

50th Avenue S					
Option 1 – Upgrade to Quiet Zone Ready Configuration with Assumptions of Future Development					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	0.63	$ 8,393
BITUMINOUS NEW PAVED ROAD	12 INCH SUBGRADE	SY	$ 3	2308	$ 6,923
	6 INCH AGGREGATE	TON	$ 45	721	$ 32,453
	BITUMINOUS WEARING COURSE MIXTURE 2.0"	SY	$ 10	2308	$ 23,077
	BITUMINOUS NON WEARING COURSE MIXTURE	SY	$ 10	2308	$ 23,077
	PAVEMENT MARKING	LF	$ 10	3129	$ 31,292
	PEDESTRIAN WALKWAY	SF	$ 15	6118	$ 91,771
MEDIAN	CONCRETE MEDIAN	CY	$ 165	91	$ 14,947
SIGNAGE	REMOVE EXISTING SIGNAGE	EA	$ 585	2	$ 1,170
	INSTALL NEW SIGN	EA	$ 700	3	$ 2,100
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 282,244.05***
RAILROAD SIDE	FLAGGING	DAY/PERSON	$ 7,200	14	$ 100,800
	REMOVE EXISTING CROSSING PANEL	SY	$ 60	289	$ 17,340
	INSTALL NEW CONCRETE CROSSING PANEL	TF	$ 1,000	60	$ 60,000
	INSTALL RAILROAD GATES	PER CROSSING	$ 300,000	1	$ 300,000
TOTAL RR WITH 20% CONTINGENCY					***$ 573,768***
ROW	ROW ACQUISITION	AC	$ 250,000	0.52	$ 130,000
ROW WITH 20% CONTINGENCY					***$ 156,000***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	$ 151,802
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				
	MOBILIZATION	10% TOTAL		0.1	$ 101,201
TOTAL MISC					***$ 253,003***
SUM OF SUBTOTALS					***$ 1,265,015***
ROUNDED SUM OF SUBTOTALS					***$ 1,300,000***

Table N-1

50th Avenue S					
Option 2 – Construct Overpass					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	2.30	$ 30,475
RETURN TO TURF/ REMOVE DRIVEWAY	COMMON EXCAVATION	CY	$ 10	397	$ 3,966
	TOP SOIL	CY	$ 16	73	$ 1,175
	SEEDING	AC	$ 175	0.09	$ 16
CONSTRUCT NEW GRAVEL DRIVEWAY	COMMON EXCAVATION	CY	$ 10	2093	$ 20,933
	12 INCH SUBGRADE	SY	$ 3	1962	$ 5,887
	18" AGGREGATE	TON	$ 45	1840	$ 82,791
	8" SURFACE GRAVEL	CY	$ 50	436	$ 21,805
BITUMINOUS NEW PAVED ROAD	12 INCH SUBGRADE	SY	$ 3	8694	$ 26,082
	6 INCH AGGREGATE	TON	$ 45	2717	$ 122,257
	BITUMINOUS WEARING COURSE MIXTURE 2.0"	SY	$ 10	8694	$ 86,938
	BITUMINOUS NON WEARING COURSE MIXTURE	SY	$ 10	8694	$ 86,938
	PAVEMENT MARKING	LF	$ 10	8189	$ 81,892
	1:3 EMBANKMENT - BORROW	CY	$ 12	67933	$ 815,200
	PEDESTRIAN WALKWAY	SF	$ 15	32102	$ 481,535
	INSTALL NEW SIGN	EA	$ 700	1	$ 700
LIGHTING	INSTALL NEW STREET LIGHT	EA	$ 700	4	$ 2,800
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 2,245,670.23***
RAILROAD	FLAGGING	DAY/PERSON	$ 7,200	28	$ 201,600
	REMOVE EXISTING CROSSING PANEL	SY	$ 60	473	$ 28,380
	TRACK WORK ADJACENT TO THE BRIDGE	TF	$ 300	100	$ 30,000
TOTAL RR WITH 20% CONTINGENCY					***$ 311,976***
ROW	ROW ACQUISITION	AC	$ 200,000	6.70	$ 1,339,220
ROW WITH 20% CONTINGENCY					***$ 1,607,064***
STRUCUTRE (WITH 30% CONTINGENCY)	CONSTRUCT NEW BRIDGE - 50TH	SF	$ 350	14960	$ 5,236,000
RETAINING WALL (WITH30% CONTINGENCY)		SF	$ 160	13572	$ 2,171,509
STRUCTURAL ITEMS WITH 30% CONTINGENCY					***$ 9,629,761.64***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST				
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE	15% TOTAL		0.15	
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				$ 2,069,171
	MOBILIZATION	10% TOTAL		0.1	$ 1,379,447
TOTAL MISC					***$ 3,448,618***
SUM OF SUBTOTALS					***$ 17,243,090***
ROUNDED SUM OF SUBTOTALS					***$ 18,000,000***

Table N-2

O 60TH AVENUE S

60th Avenue S					
Option 1 – Upgrade to Quiet Zone Ready Configuration with Assumptions of Future Development					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	0.96	$ 12,697
BITUMINOUS NEW PAVED ROAD	12 INCH SUBGRADE	SY	$ 3	3537	$ 10,611
	6 INCH AGGREGATE	TON	$ 45	1105	$ 49,738
	BITUMINOUS WEARING COURSE MIXTURE 2.0"	SY	$ 10	3537	$ 35,369
	BITUMINOUS NON WEARING COURSE MIXTURE	SY	$ 10	3537	$ 35,369
	PAVEMENT MARKING	LF	$ 10	4684	$ 46,842
	PEDESTRIAN WALKWAY	SF	$ 15	6754	$ 101,310
MEDIAN	CONCRETE MEDIAN	CY	$ 165	88	$ 14,472
SIGNAGE	INSTALL NEW SIGN	EA	$ 700	5	$ 3,500
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 371,890.93***
RAILROAD SIDE	FLAGGING	DAY/PERSON	$ 7,200	14	$ 100,800
	REMOVE EXISTING CROSSING PANEL	SY	$ 60	473	$ 28,380
	INSTALL NEW CONCRETE CROSSING PANEL	TF	$ 1,000	60	$ 60,000
TOTAL RR WITH 20% CONTINGENCY					***$ 227,016***
ROW	ROW ACQUISITION	AC	$ 250,000	0.33	$ 82,500
ROW WITH 20% CONTINGENCY					***$ 99,000***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	$ 104,686
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				
	MOBILIZATION	10% TOTAL		0.1	$ 69,791
TOTAL MISC					***$ 174,477***
SUM OF SUBTOTALS					***$ 872,384***
ROUNDED SUM OF SUBTOTALS					***$ 900,000***

Table O-1

60th Avenue S					
Option 2A – Construct Overpass					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	2.3	$ 30,735
BITUMINOUS NEW PAVED ROAD	12 INCH SUBGRADE	SY	$ 3	8704	$ 26,113
	6 INCH AGGREGATE	TON	$ 45	2720	$ 122,404
	BITUMINOUS WEARING COURSE MIXTURE 2.0"	SY	$ 10	8704	$ 87,043
	BITUMINOUS NON WEARING COURSE MIXTURE	SY	$ 10	8704	$ 87,043
	PAVEMENT MARKING	LF	$ 10	8189	$ 81,891
	1:3 EMBANKMENT - BORROW	CY	$ 12	38400	$ 460,800
	PEDESTRIAN WALKWAY	SF	$ 15	15908	$ 238,616
	INSTALL NEW SIGN	EA	$ 700	1	$ 700
LIGHTING	INSTALL NEW STREET LIGHT	EA	$ 700	4	$ 2,800
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 1,365,773.21***
RAILROAD	FLAGGING	DAY/PERSON	$ 7,200	28	$ 201,600
	REMOVE EXISTING CROSSING PANEL	SY	$ 60	473	$ 28,380
	REMOVE EXISTING SIGNALS/GATES	PER CROSSING	$ 75,000	1	$ 75,000
	TRACK WORK ADJACENT TO THE BRIDGE	TF	$ 300	100	$ 30,000
TOTAL RR WITH 20% CONTINGENCY					***$ 401,976***
ROW	ROW ACQUISITION	AC	$ 200,000	3.967	$ 793,400
ROW WITH 20% CONTINGENCY					***$ 952,080***
STRUCTURE (WITH 30% CONTINGENCY)	CONSTRUCT NEW BRIDGE - 60TH	SF	$ 350	14960	$ 5,236,000
RETAINING WALL (WITH 30% CONTINGENCY)		SF	$ 160	28350	$ 4,536,000
STRUCTURAL ITEMS WITH 30% CONTINGENCY					***$ 12,703,600.00***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				$ 2,313,514
	MOBILIZATION	10% TOTAL		0.1	$ 1,542,343
TOTAL MISC					***$ 3,855,857***
SUM OF SUBTOTALS					***$ 19,279,287***
ROUNDED SUM OF SUBTOTALS					***$ 20,000,000***

Table O-2A

60th Avenue S					
Option 2B – Construct Underpass					
	DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST (2024 USD)
	CLEARING AND GRUBBING	AC	$ 13,250	11.55	$ 153,075
BITUMINOUS NEW PAVED ROAD	12 INCH SUBGRADE	SY	$ 3	6184	$ 18,553
	6 INCH AGGREGATE	TON	$ 45	1933	$ 86,967
	BITUMINOUS WEARING COURSE MIXTURE 2.0"	SY	$ 10	6184	$ 61,843
	BITUMINOUS NON WEARING COURSE MIXTURE	SY	$ 10	6184	$ 61,843
	PAVEMENT MARKING	LF	$ 10	5130	$ 51,300
	PEDESTRIAN WALKWAY	SF	$ 15	22782	$ 341,733
LIGHTING	INSTALL NEW STREET LIGHT	EA	$ 700	2	$ 1,400
	INSTALL UNDERPASS LIGHTING LUMINAIRE	EA	$ 1,100	2	$ 2,200
LIFT STATION	LIFT STATION	EA	$ 500,000	1	$ 500,000
ROADWAY SUBTOTAL WITH 20% CONTINGENCY					***$ 1,534,696.93***
RAILROAD	FLAGGING	DAY/PERSON	$ 7,200	135	$ 972,000
	REMOVE EXISTING CROSSING PANEL	SY	$ 60	473	$ 28,380
	SHOO FLY	LSUM	$ 500,000	1	$ 500,000
	REMOVE EXISTING SIGNALS/GATES	PER CROSSING	$ 75,000	1	$ 75,000
	TRACK WORK ADJACENT TO THE BRIDGE	TF	$ 300	100	$ 30,000
TOTAL RR WITH 20% CONTINGENCY					***$ 1,926,456***
STRUCTURE (WITH 30% CONTINGENCY)	CONSTRUCT NEW BRIDGE - 60TH	TF	$ 30,000	70	$ 2,100,000
RETAINING WALL (WITH 30% CONTINGENCY)	CONSTRUCT RETAINING WALL (OPTION 1)	SF	$ 160	22500	$ 3,600,000
STRUCTURAL ITEMS WITH 30% CONTINGENCY					***$ 7,410,000.00***
MISC (PERCENTAGE OF TOTAL COST)	DIRECT COST	15% TOTAL		0.15	$ 1,630,673
	PROJECT MANAGEMENT FOR DESIGN AND CONSTRUCTION				
	CONSTRUCTION ADMINISTRATION AND MANAGEMENT				
	PROFESSIONAL LIABILITY AND OTHER NON-CONSTRUCTION INSURANCE				
	LEGAL, PERMIT, REVIEW FEES				
	SURVEYS, TESTING, INVESTIGATION, INSPECTION				
	MOBILIZATION	10% TOTAL		0.1	$ 1,087,115
TOTAL MISC					***$ 2,717,788***
SUM OF SUBTOTALS					***$ 13,588,941***
ROUNDED SUM OF SUBTOTALS					***$ 13,600,000***

Table O-2B