



APPENDIX F: Cost Estimates for Improvement Projects Associated with Contra-flow and Modified Alternative C (Offset) Configurations

APPENDIX F: Planning Level Cost Estimates for Corridor Improvements Associated with the Configurations of Interest

CONTRA-FLOW CONFIGURATION

Total Estimated Construction Costs for Corridor Improvements

Contra-Flow Configuration Improvements	Current Cost (in millions)
1. 2nd Street Improvements and Signal Upgrades	\$2.02
2. Add Capacity to the Baker Avenue Bridge	\$1.45
3. Baker Avenue Reconstruction/Upgrades	\$2.07
4. 7th Street Bridge and 7th Street Connection	\$11.22
5. Spokane Avenue Reconstruction/Upgrades*	\$4.05
TOTAL	\$20.81M

* Does not include a bridge on Spokane Avenues at Whitefish River Crossing

1. 2nd Street Improvements and Signal Upgrades

Cost Item	Estimated Cost (2010)
Road Surface (Assumes Pavement Reconstruction)	\$120,200
Curb and Gutter	\$25,000
Sidewalk and Landscaping	\$99,500
Drainage/Utilities	\$109,700
Traffic Signals and Electrical	\$922,500
Signing and Striping	\$16,700
Right-of-Way (SW/SE corners at 2nd Street and Baker Avenue and SE corner of 2nd Street and Spokane Avenue)	\$43,500
Traffic Control	\$12,300
SUBTOTAL	\$1,349,400
Mobilization and Contingencies (50%)	674,700
TOTAL ESTIMATED COST	\$2,024,100

2. Add Capacity to the Baker Avenue Bridge

Cost Item	Estimated Cost (2010)
Whitefish River Bridge (56 feet wide x 115 feet long)	\$966,000
SUBTOTAL	966,000
Mobilization and Contingencies (50%)	483,000
TOTAL ESTIMATED COST	\$1,449,000

3. Baker Avenue Reconstruction/Upgrades

Baker Avenue (2nd Street to 7th Street)

Cost Item	Estimated Cost (2009)
Road Surface	\$342,500
Curb and Gutter	\$65,500
Sidewalk and Landscaping	\$135,100
Drainage/Utilities	\$287,500
Traffic Signals at 7th Street and Electrical	\$358,900
Signing and Striping	\$43,700
Right-of-Way	\$114,000
Traffic Control	\$32,300
SUBTOTAL	\$1,379,500
Mobilization and Contingencies (50%)	689,750
TOTAL ESTIMATED COST	\$2,069,250

4. 7th Street Bridge and 7th Street Connection

Cost Item	Estimated Cost (2010)
Road Surface Costs	142,000
Curb and Gutter	33,500
Drainage/Utilities	183,700
Signing and Striping	22,400
Sidewalks and Landscaping	112,100
Bridge	6,882,700
Electrical	30,100
Traffic Signals (attributed to Spokane and Baker Avenue costs)	0
Right-of-Way	58,300
Traffic Control	16,500
SUBTOTAL	7,481,300
Mobilization and Contingencies (50%)	3,740,700
TOTAL COST	11,222,000

5. Estimated Costs for Spokane Avenue Improvements*

Cost Item	Estimated Cost (2010)
Road Surface Costs	\$700,100
Curb and Gutter	125,300
Drainage/Utilities	609,900
Signing and Striping	83,600
Sidewalks and Landscaping	154,100
Medians/ dedicated left turn lanes for northbound traffic between 8th and 13th Streets	35,800
Electrical	112,700
Traffic Signal Modifications at 13th Street and New Signal at 7th Street	600,000
Right-of-Way	218,100
Traffic Control	61,800
SUBTOTAL	\$2,701,400
Mobilization and Contingencies (50%)	1,350,700
TOTAL COST	\$4,052,100

* Does not include a bridge on Spokane Avenues at Whitefish River Crossing

MODIFIED ALTERNATIVE C (OFFSET) CONFIGURATION

Total Estimated Construction Costs for Corridor Improvements

Modified Alternative C (Offset) Improvements	Current Cost (in millions)
1. 2nd Street Improvements and Signal Upgrades	\$2.02
2. Add Capacity to the Baker Avenue Bridge	\$1.45
3. Baker Avenue and 13th Reconstruction and Upgrades	
3A. Baker Avenue Improvements	\$3.42
3B. 13th Street Improvements	\$0.37
4. Spokane Avenue Reconstruction/Upgrades*	\$3.60
TOTAL	\$10.86 M

* Does not include a bridge on Spokane Avenues at Whitefish River Crossing

1. Estimated Costs for 2nd Street Improvements

Cost Item	Estimated Cost (2010)
Road Surface (Assumes Pavement Reconstruction)	\$120,200
Curb and Gutter	\$25,000
Sidewalk and Landscaping	\$99,500
Drainage/Utilities	\$109,700
Traffic Signals and Electrical Work	\$922,500
Signing and Striping	\$16,700
Right-of-Way (SW/SE corners at 2nd Street and Baker Avenue and SE corner of 2nd Street and Spokane Avenue)	\$43,500
Traffic Control	\$12,300
SUBTOTAL	\$1,349,400
Mobilization and Contingencies (50%)	674,700
TOTAL ESTIMATED COST	\$2,024,100

2. Add Capacity to the Baker Avenue Bridge

Cost Item	Estimated Cost (2010)
Whitefish River Bridge (56 feet wide x 115 feet long)	\$966,000
SUBTOTAL	966,000
Mobilization and Contingencies (50%)	674,700
TOTAL ESTIMATED COST	\$1,449,000

3. Baker Avenue and 13th Reconstruction and Upgrades

3A. Estimated Costs for Baker Avenue (2nd to 13th Streets)

Cost Item	Estimated Cost (2010)
Road Surface Costs	\$626,600
Curb and Gutter	126,700
Drainage/Utilities	566,600
Signing and Striping	84,500
Sidewalks and Landscaping	261,400
Electrical	113,900
Traffic Signal at Baker and 13th	300,000
Right-of-Way	138,600
Traffic Control	62,500
SUBTOTAL	\$2,280,800
Mobilization and Contingencies (50%)	1,140,400
TOTAL COST	\$3,421,200

3B. Estimated Costs for 13th Street Improvements (Spokane Avenue to Baker Avenue)

Cost Item	Estimated Cost (2010)
Reconstruct Road Surface with Minor Widening	\$74,600
Curb and Gutter	15,500
Drainage/Utilities	68,300
Signing and Striping	10,300
Sidewalks	29,800
Electrical	13,900
Right-of-Way	27,000
Traffic Control	7,600
SUBTOTAL	\$247,000
Mobilization and Contingencies (50%)	123,500
TOTAL COST	\$370,500

4. Estimated Costs for Spokane Avenue Improvements*

Cost Item	Estimated Cost (2010)
Road Surface Costs	\$700,100
Curb and Gutter	125,300
Drainage/Utilities	609,900
Signing and Striping	83,600
Sidewalks and Landscaping	154,100
Medians/ dedicated left turn lanes for northbound traffic between 8th and 13th Streets	35,800
Electrical	112,700
Traffic Signal Modifications	300,000
Right-of-Way	218,100
Traffic Control	61,800
SUBTOTAL	\$2,401,400
Mobilization and Contingencies (50%)	1,200,700
TOTAL COST	\$3,602,100

* Does not include a bridge on Spokane Avenues at Whitefish River Crossing