

Argenta Trail Improvement Project



NORTH AREA ALTERNATIVES RATINGS MATRIX

Project Goals	Considerations	No Interchange	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Operations/ Safety	Remove/reduce skew at CSAH 26	Meets project goal Skew angle = 79°	Meets project goal	Meets project goal	Meets project goal	Meets project goal	Meets project goal Skew angle = 85°
	Provide 90 degree intersection at collector streets	Meets project goal	Meets project goal	Meets project goal	Meets project goal	Meets project goal	Meets project goal Skew angle = 85°
	Roadway alignments meet 55 MPH design speed	45 mph design speed north of Amana Trail	Meets project goal	Meets project goal	Meets project goal	Meets project goal	Meets project goal with reverse curves
Stormwater Treatment	Stormwater treatment capacity meets northwest area (NWA) requirements	Impacts 6 NWA regional basins (8.0 Acre Feet)	Impacts 4 NWA regional basins (6.6 Acre Feet) \$0.1 million	Impacts 3 NWA regional basins (17.2 Acre Feet) \$0.3 million	Impacts 2 NWA regional basins (17.2 Acre Feet) \$0.3 million	Impacts 4 NWA regional basins (5.4 Acre Feet) \$0.1 million	Impacts 3 NWA regional basins (5.4 Acre Feet) \$0.1 million
Project Cost	Right-of-way Total acquisitions for current project (2016)	2 total acquisitions for CP 63-25	3 total acquisitions for CP 63-25	2 total acquisitions for CP 63-25	2 total acquisitions for CP 63-25	2 total acquisition for CP 63-25	2 total acquisition for CP 63-25
	Right-of-way Total acquisitions for future project	2 total acquisitions for Argenta Trail future buildout	10 total acquisitions for future interchange	6 total acquisitions for future interchange	4 total acquisitions for future interchange	1 total acquisition for future interchange	1 total acquisition for future interchange
	Right-of-way* Total acreage	17.75 acres	22.25 acres	32.00 acres	33.50 acres	30.25 acres	30.25 acres
	Right-of-way Impacted parcels	27 impacted parcels	20 impacted parcels	19 impacted parcels	16 impacted parcels	10 impacted parcels	11 impacted parcels
	Right-of-way Impact to planned Blackstone Ridge development	No additional reduction in developable area	No additional reduction in developable area	6 acre reduction in developable area	10 acre reduction in developable area	26 acre reduction in developable area (14 acres severed)	19 acre reduction in developable area (10 acres severed)
	Right-of-way Total cost		\$5.9 - \$7.2 million	\$5.3 - \$7.1 million	\$5.1 - \$7.5 million	\$4.2 - \$7.3 million	\$4.6 - \$7.6 million
	Utility impacts/relocation cost	Xcel Transmission 900 feet of conflict	Xcel Transmission 400 feet of conflict \$0.5 million	Xcel Transmission 4,500 feet of conflict \$1.5 million	Xcel Transmission 4,500 feet of conflict \$1.5 million	Xcel Transmission 700 feet of conflict \$0.8 million	Xcel Transmission 600 feet of conflict \$0.8 million
Earthwork cost	Total earthwork = 84,000 CY	Total earthwork = 104,000 CY \$0.9 million	Total earthwork = 110,000 CY \$1.0 million	Total earthwork = 179,000 CY \$1.50 million	Total earthwork = 130,000 CY \$1.1 million	Total earthwork = 197,000 CY \$1.7 million	
	Total cost differential		\$7.4 - \$8.7 million	\$7.8 - \$9.6 million	\$8.4 - \$10.8 million	\$6.2 - \$9.3 million	\$7.2 - \$10.2 million

Indicates increased level of risk for future project cost considerations.

*The city and county may require dedication of a portion of right-of-way for future Argenta Trail through platting process