

Minot International Airport Access Road

TIGER IV Application

BCA Summary

Year	Economic Competitiveness Travel Time Savings			Sustainability			Liveability			Discount Rates		
	Discounted Rate 7%	Discounted Rate 3%		Discounted Rate 7%	Discounted Rate 3%		Discounted Rate 7%	Discounted Rate 3%		7%	3%	
2012	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2014	1.00000	1.00000
2013	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2015	1.07000	1.03000
1 2014	\$ 707,244	\$ 707,244	\$ 707,244	\$ 3,056	\$ 3,056	\$ 3,056	\$ 805	\$ 805	\$ 805	2016	1.14490	1.06090
2 2015	\$ 770,903	\$ 824,866	\$ 794,030	\$ 3,317	\$ 3,550	\$ 3,417	\$ 805	\$ 862	\$ 830	2017	1.22504	1.09273
3 2016	\$ 834,562	\$ 955,491	\$ 885,387	\$ 3,579	\$ 4,098	\$ 3,797	\$ 805	\$ 922	\$ 854	2018	1.31080	1.12551
4 2017	\$ 898,222	\$ 1,100,360	\$ 981,511	\$ 3,841	\$ 4,705	\$ 4,197	\$ 805	\$ 987	\$ 880	2019	1.40255	1.15927
5 2018	\$ 965,754	\$ 1,265,906	\$ 1,086,964	\$ 4,118	\$ 5,398	\$ 4,635	\$ 805	\$ 1,056	\$ 906	2020	1.50073	1.19405
6 2019	\$ 1,033,286	\$ 1,449,237	\$ 1,197,861	\$ 4,396	\$ 6,165	\$ 5,096	\$ 805	\$ 1,130	\$ 934	2021	1.60578	1.22987
7 2020	\$ 1,100,818	\$ 1,652,031	\$ 1,314,434	\$ 4,673	\$ 7,013	\$ 5,580	\$ 805	\$ 1,209	\$ 962	2022	1.71819	1.26677
8 2021	\$ 1,168,350	\$ 1,876,115	\$ 1,436,923	\$ 4,950	\$ 7,949	\$ 6,088	\$ 805	\$ 1,293	\$ 991	2023	1.83846	1.30477
9 2022	\$ 1,235,882	\$ 2,123,475	\$ 1,565,578	\$ 5,228	\$ 8,983	\$ 6,623	\$ 805	\$ 1,384	\$ 1,020	2024	1.96715	1.34392
10 2023	\$ 1,282,320	\$ 2,357,494	\$ 1,673,137	\$ 5,419	\$ 9,962	\$ 7,070	\$ 805	\$ 1,481	\$ 1,051	2025	2.10485	1.38423
11 2024	\$ 1,328,759	\$ 2,613,870	\$ 1,785,741	\$ 5,610	\$ 11,035	\$ 7,539	\$ 805	\$ 1,584	\$ 1,082	2026	2.25219	1.42576
12 2025	\$ 1,375,197	\$ 2,894,587	\$ 1,903,595	\$ 5,800	\$ 12,209	\$ 8,029	\$ 805	\$ 1,695	\$ 1,115	2027	2.40985	1.46853
13 2026	\$ 1,421,636	\$ 3,201,796	\$ 2,026,913	\$ 5,991	\$ 13,493	\$ 8,542	\$ 805	\$ 1,814	\$ 1,148	2028	2.57853	1.51259
14 2027	\$ 1,468,074	\$ 3,537,831	\$ 2,155,916	\$ 6,182	\$ 14,898	\$ 9,078	\$ 805	\$ 1,941	\$ 1,183	2029	2.75903	1.55797
15 2028	\$ 1,514,512	\$ 3,905,222	\$ 2,290,836	\$ 6,373	\$ 16,432	\$ 9,639	\$ 805	\$ 2,077	\$ 1,218	2030	2.95216	1.60471
16 2029	\$ 1,560,951	\$ 4,306,713	\$ 2,431,911	\$ 6,564	\$ 18,109	\$ 10,226	\$ 805	\$ 2,222	\$ 1,255	2031	3.15882	1.65285
17 2030	\$ 1,607,389	\$ 4,745,276	\$ 2,579,388	\$ 6,754	\$ 19,940	\$ 10,839	\$ 805	\$ 2,378	\$ 1,292	2032	3.37993	1.70243
18 2031	\$ 1,653,828	\$ 5,224,136	\$ 2,733,525	\$ 6,945	\$ 21,939	\$ 11,479	\$ 805	\$ 2,544	\$ 1,331	2033	3.61653	1.75351
19 2032	\$ 1,700,266	\$ 5,746,784	\$ 2,894,589	\$ 7,136	\$ 24,119	\$ 12,149	\$ 805	\$ 2,722	\$ 1,371			
20 2033	\$ 1,823,854	\$ 6,596,019	\$ 3,198,140	\$ 7,644	\$ 27,644	\$ 13,403	\$ 805	\$ 2,913	\$ 1,412			
NPV	\$ 25,451,808	\$ 57,084,453	\$ 35,643,624	\$ 107,575	\$ 240,696	\$ 150,482	\$ 16,107	\$ 33,017	\$ 21,641			

Year	Cost of Improvements			Benefits			NPV Benefits	NPV Benefits 7%	NPV Benefits 3%
	Cost of Improvements	Discounted 7%	Discounted 3%	Total Benefits	Total 7%	Total 3%			
2012	\$ (3,650,500)	\$ (3,650,500)	\$ (3,650,500)	\$ -	\$ -	\$ -	\$ 21,924,991	\$ 53,707,666	\$ 32,165,247
2013				\$ -	\$ -	\$ -			
1 2014				\$ 711,105	\$ 711,105	\$ 711,105			
2 2015				\$ 775,026	\$ 829,278	\$ 798,277			
3 2016				\$ 838,947	\$ 960,510	\$ 890,039			
4 2017				\$ 902,868	\$ 1,106,052	\$ 986,588			
5 2018				\$ 970,677	\$ 1,272,360	\$ 1,092,506			
6 2019				\$ 1,038,487	\$ 1,456,531	\$ 1,203,891			
7 2020				\$ 1,106,296	\$ 1,660,252	\$ 1,320,976			
8 2021				\$ 1,174,106	\$ 1,885,357	\$ 1,444,002			
9 2022				\$ 1,241,915	\$ 2,133,842	\$ 1,573,221			
10 2023				\$ 1,288,545	\$ 2,368,937	\$ 1,681,258			
11 2024				\$ 1,335,174	\$ 2,626,489	\$ 1,794,362			
12 2025				\$ 1,381,803	\$ 2,908,491	\$ 1,912,739			
13 2026				\$ 1,428,432	\$ 3,217,103	\$ 2,036,603			
14 2027				\$ 1,475,061	\$ 3,554,669	\$ 2,166,177			
15 2028				\$ 1,521,691	\$ 3,923,731	\$ 2,301,694			
16 2029				\$ 1,568,320	\$ 4,327,044	\$ 2,443,391			
17 2030				\$ 1,614,949	\$ 4,767,594	\$ 2,591,519			
18 2031				\$ 1,661,578	\$ 5,248,619	\$ 2,746,336			
19 2032				\$ 1,708,207	\$ 5,773,626	\$ 2,908,109			
20 2033				\$ 1,832,303	\$ 6,626,576	\$ 3,212,955			
NPV	\$ (3,650,500)	\$ (3,650,500)	\$ (3,650,500)	\$ 25,575,491	\$ 57,358,166	\$ 35,815,747			

Benefit Cost Ratio	Benefit Cost Ratio 7%	Benefit Cost Ratio 3%
7	16	10
1:7	1:16	1:10