

Minot International Airport Access Road

TIGER IV Application

BCA Detail

					1	2	3	4	5	6		
					2012	2013	2014	2015	2016	2017	2018	2019
Assumptions												
Average ND hourly wage					\$ 17.31	\$ 17.31	\$ 17.31	\$ 17.31	\$ 17.31	\$ 17.31	\$ 17.31	\$ 17.31
Number of Passengers Annually					402,028	446,159	490,290	534,422	578,553	622,684	669,500	716,316
Conversion of CO2 conserved to financial savings	See CO2 Savings worksheet for detail				-	-	150	150	150	150	150	150
Travel Time Savings												
Average access time to facility grounds and security wait time/passenger/ trip	Time saved per passenger per trip with increased access to facility is estimated to be 5 minutes.	0.083333			\$ -	\$ -	\$ 707,244	\$ 770,903	\$ 834,562	\$ 898,222	\$ 965,754	\$ 1,033,286
Total					\$ -	\$ -	\$ 707,244	\$ 770,903	\$ 834,562	\$ 898,222	\$ 965,754	\$ 1,033,286
Sustainability												
Decrease in CO2 Emissions from idling vehicles (10 r	See CO2 Savings worksheet for detail				\$ -	\$ -	\$ 2,906	\$ 3,167	\$ 3,429	\$ 3,691	\$ 3,968	\$ 4,246
New walking and bike path allows airport clients staying in motels approximately 1 mile away will have the option to walk/bike to the airport rather than utilizing a vehicle	See CO2 Savings worksheet for detail				\$ -	\$ -	\$ 150	\$ 150	\$ 150	\$ 150	\$ 150	\$ 150
Total					\$ -	\$ -	\$ 3,056	\$ 3,317	\$ 3,579	\$ 3,841	\$ 4,118	\$ 4,396
Liveability												
With the new walking and bike path the airport clients staying in motels approximately 1 mile away will have the option to walk/bike to the airport rather than utilizing a vehicle	See Walking-bike path impacts; based on hotels within approximately a one-mile radius of airport; benefits shown as dollars saved from fuel conserved				\$ -	\$ -	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37
Total					\$ -	\$ -	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37
Total Financial Benefits					\$ -	\$ -	\$ 711,105.15	\$ 775,025.97	\$ 838,946.79	\$ 902,867.61	\$ 970,677.16	\$ 1,038,486.72

7	8	9	10	11	12	13	14	15	16	17	18	19	20	
2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033 Average	
\$ 17.31	\$ 17.31	\$ 17.31	\$ 17.31	\$ 17.31	\$ 17.31	\$ 17.31	\$ 17.31	\$ 17.31	\$ 17.31	\$ 17.31	\$ 17.31	\$ 17.31	\$ 17	
763,132	809,948	856,764	888,957	921,150	953,343	985,536	1,017,729	1,049,922	1,082,115	1,114,308	1,146,501	1,178,694	1,264,370	882,212
150	150	150	150	150	150	150	150	150	150	150	150	150	150	\$ 136

2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033 Total	
\$ 1,100,818	\$ 1,168,350	\$ 1,235,882	\$ 1,282,320	\$ 1,328,759	\$ 1,375,197	\$ 1,421,636	\$ 1,468,074	\$ 1,514,512	\$ 1,560,951	\$ 1,607,389	\$ 1,653,828	\$ 1,700,266	\$ 1,823,854	\$ 25,451,808
\$ 1,100,818	\$ 1,168,350	\$ 1,235,882	\$ 1,282,320	\$ 1,328,759	\$ 1,375,197	\$ 1,421,636	\$ 1,468,074	\$ 1,514,512	\$ 1,560,951	\$ 1,607,389	\$ 1,653,828	\$ 1,700,266	\$ 1,823,854	\$ 25,451,808

2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033 Total	
\$ 4,523	\$ 4,801	\$ 5,078	\$ 5,269	\$ 5,460	\$ 5,650	\$ 5,841	\$ 6,032	\$ 6,223	\$ 6,414	\$ 6,604	\$ 6,795	\$ 6,986	\$ 7,494	\$ 104,576
\$ 150	\$ 150	\$ 150	\$ 150	\$ 150	\$ 150	\$ 150	\$ 150	\$ 150	\$ 150	\$ 150	\$ 150	\$ 150	\$ 150	\$ 2,999
\$ 4,673	\$ 4,950	\$ 5,228	\$ 5,419	\$ 5,610	\$ 5,800	\$ 5,991	\$ 6,182	\$ 6,373	\$ 6,564	\$ 6,754	\$ 6,945	\$ 7,136	\$ 7,644	\$ 107,575

2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033 Total
\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 16,107.48
\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 805.37	\$ 16,107.48

\$ 1,106,296.27 \$ 1,174,105.83 \$ 1,241,915.38 \$ 1,288,544.59 \$ 1,335,173.80 \$ 1,381,803.01 \$ 1,428,432.22 \$ 1,475,061.43 \$ 1,521,690.63 \$ 1,568,319.84 \$ 1,614,949.05 \$ 1,661,578.26 \$ 1,708,207.47 \$ 1,832,303.47 \$ 25,575,490.64