

Safety Benefit - Cost Analysis

General Information

Project Name	WAR US 22 19.24 (Clarksville Rd)	Contact Email	Thomas.Mazza@dot.ohio.gov
Project Description	Proposed Single Lane Roundabout	Contact Phone	513-933-6591
Reference Number	TBD	Date Performed	3/4/2025
Analyst	Tom Mazza	Analysis Year	2029
Agency/Company	ODOT D08		

Comments:

Select Site Types to be used in Benefit-Cost Analysis:

All Sites

Countermeasure Service Lives, Costs, and Safety Benefits

Countermeasures	Service Life (Years)	Initial Cost of Countermeasure	Annual Maintenance & Energy Costs	Salvage Value	Net Present Cost of Countermeasure	Total Cost of Countermeasures	Summary of Annual Crash Modifications	Net Present Value of Safety Benefits
Single Lane Modern Roundabout	20	\$2,714,862.00			\$2,714,862.00	\$2,714,862.00	-0.658	\$961,175
		\$0.00			\$0.00	\$0.00		
		\$0.00			\$0.00	\$0.00		
		\$0.00			\$0.00	\$0.00		
		\$0.00			\$0.00	\$0.00		
		\$0.00			\$0.00	\$0.00		
		\$0.00			\$0.00	\$0.00		
		\$0.00			\$0.00	\$0.00		
		\$0.00			\$0.00	\$0.00		
		\$0.00			\$0.00	\$0.00		
Totals		\$2,714,862.00	\$0.00	\$0.00	\$2,714,862.00	\$2,714,862.00	-0.658	\$961,175



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Benefit - Cost Calculator

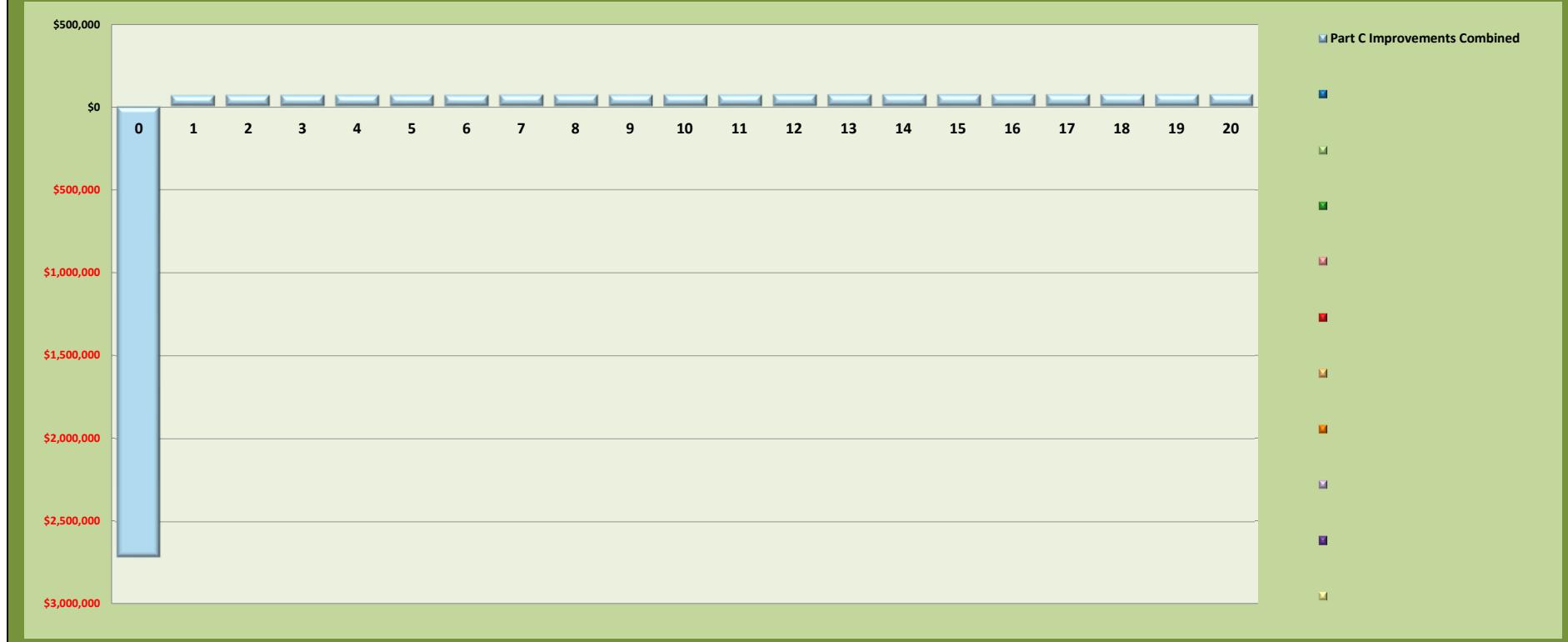
Net Present Value of Project **\$2,714,862.00**
Net Present Value of Safety Benefits **\$961,175.25**
Net Benefit **(\$1,753,686.75)**
Benefit / Cost Ratio **0.35**

Expected Annual Crash Adjustment

Number of Fatal & Incapacitating Injury Crashes **-0.092**
Number of Injury Crashes **-0.432**
Number of Total Crashes **-0.658**

Comments:

Safety Benefits and Project Costs Combined Cash Flows By Countermeasure Per Year



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Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)

