

#49 (R340) US 4/I-90 Intersection Safety Improvements



US 4/I-90, Town of East Greenbush, Rensselaer County

Total Score = A+B (100 Points Max)	11.8
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A. Benefit/Cost Ratio Total (50 point cap)	0.4
Benefit/Cost Ratio Subtotal	0.4
Total Benefits (\$1,000/Year)	123.4
Facility Life	0.0
Mobility	77.0
Safety	46.4
User Cost	0.0
Annualized Cost (\$1,000/Year)	322.1

B. Merit Category Score (Scaled to 50 Points)	11.4
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CDTC Project Category: Safety

Sponsor: NYSDOT

Sponsor Priority: 2 in safety category

Total Cost: \$4.434 M (includes match and inflation)

Existing Pavement Rating: N/A

Repair Type: Installation of a Roundabout

Traffic Volume: N/A

Detailed Description: Intersection safety improvements, roundabout anticipated.

Roadway Functional Classification: US 4 and the I-90 ramp are National Highway System facilities and are classified as Urban Principal Arterial Other/Urban Principal Arterial Interstate

Federal Fund Source Eligibility: National Highway Performance Program, Surface Transportation Program, Highway Safety Improvement Program (partial)

Transportation Considerations:

Walking: Not in Ped District and no commitment to ped facilities.

Biking: On network; no significant improvements for bicyclists.

Transit: Does not add, upgrade, or remove transit components.

Motor Vehicles/Freight: Project is located on a NYSDOT designated Qualifying and/or Access Highway and the CDTC Freight Priority Network. Project addresses a recommendation from the CDTC Freight Plan (2016); maintain a state-of-good-repair to preserve travel time and/or reliability on the CDTC Freight Priority Network (I-90, US 4).

Other Considerations: Partial HSIP Candidate. Highway Safety Investigation Report 1-4-0282). 2013-2018: 0 Fatalities, 0 Serious Injuries.

Advisory Committee Comments: Freight - Consider the movements of freight vehicles during the design phase. This includes providing adequate turning radii, and limiting the amount of amenities in the center apron, such as decorative plantings, that could be damaged by freight vehicles. Also, consider a low or no mountable curb at the center of the circle, instead perhaps utilizing pavers or a stamped concrete, to allow trucks to move easier through a roundabout without causing damage.

MERIT CATEGORIES	NUMERIC VALUES	SCORE
COMMUNITY QUALITY OF LIFE & EQUITY (10 POINTS POSSIBLE)		
Land Use Compatability	SCORE -1 to +3	2
Smart Growth	SCORE -1 to +3	2
Environmental Justice	SCORE -1 to +2	0
Accessibility / ADA / Universal Design/Human Services Transport	SCORE -1 to +2	0
	SUBTOTAL -4 to +10	4
APPROPRIATE INFRASTRUCTURE (10 POINTS POSSIBLE)		
Preservation/Renewal of Existing	SCORE -2 to +5	0
Complete Streets	SCORE -2 to +5	0
	SUBTOTAL -4 to +10	0
MULTI-MODALISM (10 POINTS POSSIBLE)		
Transit	SCORE -2 to +5	0
Pedestrian	SCORE -1 to +3	0
Bicycle	SCORE -1 to +2	0
	SUBTOTAL -4 to +10	0
ENVIRONMENT & HEALTH (8 POINTS POSSIBLE)		
Sensitive Area Protection/Mitigation	SCORE -1 to +2	0
Greenhouse Gas Emissions Reduction	SCORE -1 to +2	0
Alternative Fuels Support	SCORE -1 to +2	0
Other Environmental/Health Benefit	SCORE -1 to +2	0
	SUBTOTAL -4 to +8	0
REGIONAL BENEFIT (5 POINTS POSSIBLE)		
Benefit beyond project to transportation system or quality region	SCORE -2 to +5	1
	SUBTOTAL -2 to +5	1
ECONOMIC DEVELOPMENT (5 POINTS POSSIBLE)		
Economic Impact	SCORE -2 to +5	2
	SUBTOTAL -2 to +5	2
SAFETY & SECURITY (5 POINTS POSSIBLE)		
Additional Safety Benefit Beyond Crash History	SCORE -1 to +3	3
Security and Resiliency to Natural Hazards and Human Caused Events	SCORE -1 to +2	0
	SUBTOTAL -2 to +5	3
OPERATIONS & TECHNOLOGY (5 POINTS POSSIBLE)		
Traffic Operations & Reliability Improvements	SCORE -1 to +3	3
Use of Beneficial Advanced Technologies	SCORE -1 to +2	0
	SUBTOTAL -2 to +5	3
FREIGHT (5 POINTS POSSIBLE)		
Freight and Goods Movement	SCORE -2 to +5	1
	SUBTOTAL -2 to +5	1
PERFORMANCE (3 POINTS POSSIBLE)		
Anticipated Effect on all Performance Targets	SCORE -1 to +3	1
	SUBTOTAL -1 to +3	1
INNOVATION (2 POINTS POSSIBLE)		
Innovative Solutions	SCORE 0 to +2	0
	SUBTOTAL 0 to +2	0
PROJECT DELIVERY (2 POINTS POSSIBLE)		
On Schedule/On Budget	SCORE -2 to +2	1
	SUBTOTAL -2 to +2	1
PROJECT MERIT CATEGORY SUB TOTAL		
Total from Line Items Above	SUBTOTAL -29 to +70	16
Scaled to 50 points		11.4