

NY 146/NY 146A Intersection Safety Improvements

PROJECT LOCATION(S): Town of Clifton Park at the NYS Route 146 and 146A intersection between reference markers 146 1504 1044 and 1048.

SPONSOR(S): NYSDOT

FACILITY OWNER(S): NYSDOT with Vischer Ferry Road (CR 90) to the South owned by Saratoga County

DETAILED DESCRIPTION: Install a modern two lane roundabout with new continuous sidewalks, high visibility crosswalks and ADA compliant ramps

PROPOSED TIP DESCRIPTION: NY 146/NY 146A intersection two-lane roundabout including high visibility crosswalks, sidewalk connections

HSIP REQUESTED (INCLUDES MATCH AND INFLATION): \$3.825 M

TOTAL PROJECT COST (INCLUDES OVER MATCH AND INFLATION):
\$3.899 M – additional match from the Town of Clifton Park

DESIGN LIFE OF PROPOSED PROJECT (YEARS): 30

PAVEMENT CONDITION: NY146 & NY146A: 9, Vischer Ferry Rd: 7 (2015)

NHS AND FUNCTIONAL CLASS: NY 146: NHS - Yes, FC – 14 Principal Urban Arterial Other. NY146A&Vischer Ferry Rd: NHS - No, FC - 17 Urban Major Collector

TRAFFIC OR OTHER VOLUME DATA: NYSDOT RIS NY146A: 10,056 AADT (2014), Vischer Ferry Rd: 8,354 AADT (2014), NY146 W of NY146A: 16,820 AADT (2015), NY146 E of NY146A: 23,385 AADT (2014)

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|---|-------------|
| PROJECT TOTAL SCORE (UP TO 100 POINTS) | 21.2 |
| MERIT CATEGORY SCORE SCALED * | 19.5 |
| SAFETY B/C RATIO FROM SPONSOR (MAX. 50)** | 1.7 |

*See page 2 for individual merit category scores.

**B/C ratio cost does not include inflation.

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|---|------------|
| BENEFIT/COST RATIO (CALCULATED WITH USER BENEFITS) | 3.3 |
| Total Benefits (\$1,000's/Year) | 911 |
| Safety User Cost | 341 570 |
| Annualized Cost (\$1,000's/Year) | 278 |

HSIP ELIGIBILITY: The project will be eligible for HSIP if the roundabout is selected as the preferred alternative. If another alternative is selected the safety benefits and eligibility will need further review by NYSDOT. Reduce the number of rear end and turning movement crashes at the intersection as well as at the surrounding driveways. The intersection has been a NYSDOT high accident location since 1997. There is a Priority Investigation Location (PIL) from Reference Marker (RM) 1044 to 1047 on NY 146 and a Safety Deficient Location (SDL) from RM 1046 to 1048 centered on a Priority Investigation Intersection (PII) at RM 2016 (the NY 146/NY146A intersection). Crash rate is 7.64 crashes/million vehicle miles (MVM) which is above the statewide average of 4.77 crashes/MVM for two lane, divided Urban Principal Arterials with free access.

OTHER CONSIDERATIONS: Town of Clifton Park provided a letter of support and committed an additional \$73,500 toward the project. This local share is not reflected in the total project cost for this evaluation. A roundabout would reduce delay at the intersection and would offer traffic calming benefits to reduce speeds through the intersection. There is the possibility of some soil remediation being needed from a now closed gas station.

PROPOSED PROJECT SCHEDULE: Complete Preliminary Engineering January 2018, Complete Detailed Design August 2018, Complete Right-of-Way Acquisition March 2018, Complete Construction December 2019. Right of way acquisition is needed and will require a minimum of 9 months to complete.

| MERIT CATEGORIES | | NUMERIC VALUES | | | SCORE |
|--|----------|----------------|----|-----|-------|
| REGIONAL BENEFIT (5 POINTS POSSIBLE) | | | | | |
| Benefit beyond project to transportation system or quality region | SCORE | -2 | to | +5 | 2 |
| | SUBTOTAL | -2 | to | +5 | 2 |
| COMMUNITY QUALITY OF LIFE & EQUITY (10 POINTS POSSIBLE) | | | | | |
| Land Use Compatibility | SCORE | -1 | to | +3 | 1 |
| 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 | 1 |
| | SUBTOTAL | -4 | to | +10 | 4 |
| APPROPRIATE INFRASTRUCTURE (10 POINTS POSSIBLE) | | | | | |
| Preservation/Renewal of Existing | SCORE | -2 | to | +5 | 2 |
| Complete Streets | SCORE | -2 | to | +5 | 2 |
| | SUBTOTAL | -4 | to | +10 | 4 |
| MULTI-MODALISM (10 POINTS POSSIBLE) | | | | | |
| Transit | SCORE | -2 | to | +5 | 1 |
| Pedestrian | SCORE | -1 | to | +3 | 3 |
| Bicycle | SCORE | -1 | to | +2 | 2 |
| | SUBTOTAL | -4 | to | +10 | 6 |
| ENVIRONMENT & HEALTH (8 POINTS POSSIBLE) | | | | | |
| Sensitive Area Preservation/Mitigation | SCORE | -1 | to | +2 | 0 |
| Greenhouse Gas Emissions Reduction | SCORE | -1 | to | +2 | 0 |
| Alternative Fuels Support | SCORE | -1 | to | +2 | 0 |
| Other Health Benefit | SCORE | -1 | to | +2 | 1 |
| | SUBTOTAL | -4 | to | +8 | 1 |
| ECONOMIC DEVELOPMENT (5 POINTS POSSIBLE) | | | | | |
| Economic Impact | SCORE | -2 | to | +5 | 1 |
| | SUBTOTAL | -2 | to | +5 | 1 |
| SAFETY & SECURITY (5 POINTS POSSIBLE) | | | | | |
| Additional Safety Benefit Beyond Crash History | SCORE | -1 | to | +3 | 2 |
| Security and Resiliency to Natural Hazards and Human Caused Events | SCORE | -1 | to | +2 | 0 |
| | SUBTOTAL | -2 | to | +5 | 2 |
| OPERATIONS & TECHNOLOGY (5 POINTS POSSIBLE) | | | | | |
| Traffic Operations & Reliability Improvements | SCORE | -1 | to | +3 | 3 |
| Use of Beneficent Advanced Technologies | SCORE | -1 | to | +2 | 0 |
| | SUBTOTAL | -2 | to | +5 | 3 |
| FREIGHT (5 POINTS POSSIBLE) | | | | | |
| Freight and Goods Movement | SCORE | -2 | to | +5 | 2 |
| | SUBTOTAL | -2 | to | +5 | 2 |
| 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 | SUBTOTAL | -28 | to | +67 | 26 |