



PROJECT DESCRIPTION

Ravi Engineering & Land Surveying provided surveying services for this NYSOPRHP project. The project involved retaining walls, erosion stabilization, drainage outfalls, railings, overlook, stairs and a pathway. For the retaining walls, a previous recommendation was for the path to be shifted back 10 feet away from the gorge rim in order to achieve a stable slope with no retaining wall. However, NYSOPRHP preferred to maintain the existing path location, which would require reconstruction and extension of the existing stone retaining walls.

The project also addressed two washout areas, which were due to concentrated drainage flow and possibly contributed to by fisherman utilizing the area to access the river. These areas required stabilization to prevent further erosion. For the overlook: the boulder retaining wall and integral stone bench was maintained with rehabilitation of the masonry work. The existing stone slab pavement was lifted and reset, with provisions for sub-drainage and replacement pieces. The existing stone stairs required reconstruction of the foundation and resetting of the treads and side wall stone with the addition of replacement pieces. The existing path is of asphalt construction. Reconstruction of the path was necessary in order to construct retaining walls.

Based on review of a previous site survey, additional survey work was needed for final design. The original survey included limited extent outside of the railing. RE&LS prepared additional survey needed outside of the railing to determine the existing slopes, particularly in the area of existing washouts. Our survey work assisted in determining the type of treatment required for the washouts and construction of new retaining wall foundations. The additional survey work also included determining the extent of the drainage area flowing to the gorge edge within the project limits and tracking the origination of existing outfall pipes that presently discharge onto the existing slope. We also photographed the outside of the existing walls to better understand the existing failed condition of the walls.

Owner: New York State Office of Parks, Recreation and Historic Preservation

Client: WSP
50 Lakefront Blvd. Suite 111
Buffalo, NY 14202

Services Provided: Surveying Services
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