



Via email: Lisa.Ramundo@albanycountyny.gov

March 10, 2022

Ms. Lisa Ramundo
Commissioner
Albany County Department of Public Works
449 New Salem Road
Voorheesville, NY 12186

Re: Design and Construction Inspection for the Albany County Rail Trail over
New Scotland Road (NY Route 85) Bridge Replacement Project
Albany County Project No. 18-C541
Supplemental Agreement No. 6
Emergency Bridge Inspections and Project Re-bid

Dear Ms. Ramundo:

M.J. Engineering and Land Surveying, P.C (MJ) is pleased to submit this proposal for the subject project based upon the conversations progressed between MJ and the Albany County Department of Public Works (County).

BACKGROUND

MJ was requested by the County on November 16, 2021, to inspect a vehicular impact that occurred to the existing bridge. The County requested that MJ perform an immediate field review of the damage and its impact upon the existing structure and retrofits previously installed from MJ's design.

The County recently let the construction project for the replacement of this structure, which was affected by delays due to ongoing legal proceedings with T-Mobile. The legal proceedings have caused delays in achieving a utility agreement with T-Mobile, ultimately affecting the relocation schedule of T-Mobile's service on the existing bridge. The delays have impacted the original project schedule. The delayed letting of this project required additional effort above and beyond the original project scope of work agreement.

The coordination with NYSDOT to assist the County with the Reverse Betterment for the drainage work on New Scotland Road (NY Route 85) required additional work that was outside of the original scope, as well as includes additional Construction Inspection efforts for the drainage work.

Based on the contractor's anticipated delay for the delivery of steel for the plate girders and the requirement to maintain the existing trail continuity during winter 2022/23, MJ is aware that demolition/construction will be held until 2023 the existing bridge will remain in place until Spring 2023. On March 4, 2022, the County requested MJ to conduct bi-annual monitoring of the existing bridge to identify any adverse changes in the current condition of the bridge that may require repair or removal prior to the official start of construction.

MJ presents the following additional work scope of services:



SCOPE OF WORK

Task 1: Emergency Bridge Inspection – On Call

On November 16, 2021, MJ was contacted by the County as a result of a concrete truck impacting the bridge and being wedged under the existing structure, lifting two of the four wheels off of the roadway surface. The County requested that MJ to inspect the damage and the previously installed temporary repairs that were constructed to assess any possible damage prior to the County removing the truck from under the bridge. MJ provided a visual inspection and comparison to data and photos from previous inspections, including the one completed by MJ in November 2018.

On March 4, 2022, the County requested MJ to account for the possibility of being called another five (5) additional times for emergency inspections.

Task 2: Bridge Monitoring

MJ will provide bridge monitoring until the existing structure is demolished. MJ will monitor the steel pier columns, caps and installed retrofits on a bi-annual basis. The recurrence of which is established from a request by the County on March 4, 2022. The monitoring program will provide photo documentation and measurements on the piers that include:

- Plumbness of the columns
- Deflection of pier cap
- Bearing area of Girders upon Pier
- Condition of existing retrofits
- Changes in existing distortions to the columns from previous impacts
- Section loss to the pier columns
- Deterioration to concrete retaining walls/parapets below the existing bridge

Accessing the measurements from the existing sidewalk, the gouges and distortions to the girders and floor beams will be viewed, measured and compared to the initial MJ inspection of November 2018 if further damage or movement has occurred.

If there is a change in the condition or measurement of the existing elements, the County will be notified immediately by e-mail (or phone call if critical) to document the element condition and discuss recommendations for a path forward.

If a change in condition is documented, MJ will provide the County (after the initial notification) with a memorandum including photographs and measurements of the condition to document the change. Should the change require immediate action, the County will be notified immediately with a recommendation of remediation.



Task 2 Assumptions:

1. Bridge monitoring will be progressed from the existing sidewalks adjacent to and under the existing bridge structure. No lane closures will be implemented for the monitoring.
2. Access to the structure will be completed using ladders, no other access equipment or provisions will be required.
3. A load rating is not included.
4. Repair design, plan development or creation of bid documents are not included. If these services are requested by the County, this work will be performed under a separate agreement. Since the project was let and awarded, it is assumed the County will utilize the awarded contractor should a repair be required.
5. Fees for this task are based on a per monitoring basis, for one (1) on-site inspection team to complete the measurements and the necessary documentation.
6. A total of three (3) bridge monitoring operations are assumed for this effort.

Task 3: Updates to the PS&E Engineer's Estimate

MJ completed the Engineer's Estimate at the PS&E phase of the design and submitted to the County on April 1, 2020. The County has requested that the Engineer's Estimate be updated, due to the project delay, a total of three (3) times. Updates included:

- a. Coordinated review and update to unit prices to comply with recent NYSDOT unit bid pricing
- b. Review and update to NYSDOT item numbers for item updates and approval status
- c. Consultation with various fabricators to update costs for fabrication items.

MJ has reinvestigated, coordinated and updated the Engineer's Estimate on:

1. October 1, 2020
2. April 12, 2021
3. December 1, 2021

Task 4: Updates to the PS&E Plans and Bid Documents

MJ's original scope of work included the preparation of one (1) PS&E plan set and associated bid documents. These documents were submitted initially on February 13, 2020. MJ received comments from the County on March 26, 2020 and had completed the final documents prior to a scheduled December 6, 2021 submission upon receipt of the March 26, 2020 comments. MJ received updated contract documents from the County on November 24, 2021, requiring another revision of the completed contract documents for the December 6, 2021 submission. MJ addressed another round of comments from the County, received on January 25, 2022, requiring another revision. MJ completed a total of three (3) final bid document updates.

The project required that the County enter into a contract with the NYSDOT for a requested reverse betterment for drainage upgrades along NY Route 85 (NYSDOT owned and maintained) within the project limits. MJ provided coordination between the NYSDOT and the County for this effort. When NYSDOT moved to redesign the drainage below the structure as a part of this project and including their share into



the overall project cost. When the County was moving forward with the reverse betterment, MJ assist in providing an updated cost for the NYSDOT Share on September 27, 2021 and assisted the County with the Schedule B portion of the contract that established responsibility of the work on September 30, 2021. None of this work, in MJ's opinion, was part of the original contract or proposed upon.

MJ also provide a coordinated review and updates to the PS&E plans based on the project delay. The updated PS&E package was submitted to the County on December 6, 2021. Updates included:

1. Updating item numbers in the plans in coordination with the engineer's estimate updates.
2. Revising temporary pathway configuration due to field changes.
3. Coordinating the Work Zone and Traffic Control with NYSDOT a second time.

Task 5: T-Mobile Utility Coordination

MJ has provided utility coordination for the project, coordinated and processed utility agreements for the relocation of all affected utilities (with the exception of the T-Mobile utility relocation). On January 10, 2020, the County notified MJ that all coordination with T-Mobile would be completed by the County due to ongoing litigations between the two parties. MJ complied and ceased all communication with T-Mobile at the request of the County.

During the December 9, 2021 conference call, the County requested that MJ handle the utility relocation of T-Mobile to facilitate the construction of the new bridge after a settlement is reached between the County and T-Mobile.

MJ estimated one (1) utility field coordination meeting, this effort required an additional field coordination meeting solely with T-Mobile to mark out temporary poles for the utility relocation.

Task 6: Construction Inspection (2023 Season Estimate)

After letting, the construction schedule was discussed with the contractor. The County stated on March 4, 2022, that the contractor estimates the project will require a 6-month duration (24 weeks). The original contract, signed in October 2018, and supplement agreement No. 5, agreed upon in February 2020 accounted for a total of twenty (20) weeks of construction. Based on the current schedule, an additional four (4) weeks of inspection effort will be required.

The initial construction was anticipated for the summer of 2019 per the original contract. Due to delays out of MJ's control, construction operations will not begin field work until 2023. In those four (4) years, to keep up with industry standards, the anticipated rate for the inspector needs to be adjusted. MJ proposes to maintain the original overhead and profit rates originally proposed.

Task 7: Construction Inspection - Reverse Betterment

Per communication with NYSDOT, on September 30, 2021, NYSDOT requested that the Construction Inspection (CI) activities associated with the NYSDOT reverse betterment drainage installation along NY Route 85 will be completed by MJ as a part of the overall project Construction Inspection effort. MJ previously provided the County with an estimated CI effort of \$20,000 to be included with the County's reverse betterment request from NYSDOT on September 30, 2021.



To facilitate an efficient process for invoicing this work, MJ requests the estimated \$20,000 should be included in the contract between the County and MJ. It is assumed that the County will invoice the NYSDOT and be reimbursed directly by the NYSDOT.

FEE

MJ's proposes to accomplish the scope of work based on the following fee structure:

Task	Description	Category	Cost
1	Emergency Bridge Inspection (5 on-call @ \$2,500 ea)	Per	\$12,500
2	Bridge Monitoring (3 @ \$2,500 ea)	Per	\$7,500
Total Estimated (Per Inspection Cost):			\$20,000
1	Emergency Bridge Inspection (November 2021)	LS	\$2,500
3	Updates to the PS&E Engineer's Estimate	LS	\$4,000
4	Updates to the PS&E Plans and Bid Documents	LS	\$9,000
5	T-Mobile Utility Coordination	LS	\$2,000
Total Estimated (LS completed work Cost):			\$17,500
6	Construction Inspection – 2023 Season	Hourly	\$14,200
7	Construction Inspection – NYSDOT Reverse Betterment	Hourly	\$20,000
Total Estimated (Hourly Cost):			\$34,200

SCHEDULE

- **Task 1** would be conducted on an emergency on-basis with the County.
- **Task 2** will be initiated upon acceptance of this supplement by the County.
- **Tasks 1 (Nov 2021), Task 3, Task 4 and Task 5** work efforts have been completed by MJ.
- **Task 6 and 7** will be initiated upon contractor award and start of work.

SUMMARY

We appreciate the ongoing working relationship with the County and look forward to the next steps. Please contact us with any questions.

Sincerely,

Michael D. Panichelli, PE
President