Columbia County Department of Public Works

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REQUEST FOR PROPOSALS

February 2023
Bridge Design and ROW Incidental Professional Services

1) Superstructure replacement of Mill Hill Road Bridge – BIN 3222500 – Mill Hill Road over the Roeliff Jansen Kill – Town of Gallatin

Introduction:

Columbia County is accepting proposals from qualified transportation engineering firms for Design and ROW Incidental services for the following 100% Columbia County-funded Capital Bridge Reconstruction Project:

Superstructure Replacement and Abutment Reconstruction of Mill Hill Road Bridge – BIN 3222500 – Mill Hill Road over the Roeliff Jansen Kill – Town of Gallatin

All work shall comply with the latest issues of the NYSDOT LFRD Bridge Design Specifications and NYSDOT Bridge Design Manual, as amended and generally accepted standards of the industry. **Proposers must be licensed to practice professional engineering in the State of New York. Proposals must be received no later than 3:00 p.m. on Thursday March 9, 2023 at the following address:**

Raymond Jurkowski, Commissioner of Public Works
Columbia County Engineering Department
PO Box 324 – 178 Rte. 23B
Hudson, New York 12534
(518)-828-7011

Three (3) copies of the proposal shall be submitted, with the total submittal not exceeding **20 double-sided pages.** Proposals may be mailed, but Columbia County gives no guarantee that said proposals will be received in the office of the Director of Engineering by the designated time. Each proposal must remain valid for at least ninety (90) days from the due date of this RFP.

In order to be recorded as having received a copy of the RFP via an email from the Columbia County DPW – Engineering Division and eligible to receive future addendums, please send an email acknowledging receipt of the RFP to Barbara Otty at barbara.otty@columbiacountyny.com. Those not wishing to propose for this work do not need to register.

There will not be a pre-proposal meeting. Certain drawings, reports and information relevant to this RFP are available at the Columbia County DPW – Engineering Division offices. These materials may only be reviewed with a prior appointment.

Written questions will be accepted until Thursday February 23, 2023, by 3:00 PM. Questions should be submitted to Barbara Otty at Barbara.otty@columbiacountyny.com. An addendum will be issued to all registered proposers answering all questions submitted by Monday February 27, 2023.

Envelopes must be marked: **"Proposal for Professional Services for Design of BIN 3222500 Superstructure Replacement**

I. Project Overview and Purposes

The Columbia Co. Dept. of Public Works is seeking to replace the existing County-owned Mill Hill Bridge carrying Mill Hill Road over the Roeliff Jansen Kill in the Town Gallatin. The current bridge is a single span, multi-girder bridge with open steel grid decking built in 1948. The bridge has an out to out width of 20'-8' with an inside clear width of 20'-0". The total length is 70'-0". The substructures are solid gravity type units, comprised of a combination of concrete and stone masonry, with both the north and the south substructures founded on visible rock. There are no utilities carried by the structure itself. Information in the NYSDOT's database indicates that this bridge meets the AADT (average annual daily traffic) criteria for low volume structure design.

The bridge is located between the Town Gallatin on Mill Hill Road, a rural Town maintained road, which begins at the intersection with County Route 7 and runs generally southerly. Mill Hill Road is a dead end road, providing the sole means of access for several residences and large tracts of agricultural land, as well as for the busy "Coach Farm" goat cheese production facility. As Mill Hill Road is a dead end road, there are no known public maintained alternate routes for traffic during bridge work. Mill Hill Road is generally a 2 lane, paved highway. The adjoining lands generally consist of agricultural fields, with a few scattered residences.

The County wishes to investigate the feasibility of a superstructure replacement of this structurally deficient and functionally obsolete bridge to maintain the continuity and public use Mill Hill Road. While the existing superstructure needs to be replaced, it is believed that the substructure can feasibly be reused. The county would like to increase the clear width to 24', rehabilitate/reconstruct the existing substructure as needed and improve the scour/erosion resistance of the structure. Superstructure replacement with the repair or reconstruction of the abutments are the options that the County would like to be explored. The Consultant will be expected to analyze and evaluate all feasible bridge and superstructure replacement structure options and present them to the County in a detailed "letter-type" design report.

Project-specific issues and parameters to be analyzed and addressed for this bridge replacement project are as follows:

- Prior to progressing preliminary design tasks, both complete bridge replacement alternatives and superstructure replacement/substructure repair alternatives will be investigated for feasibility, constructability, cost, etc. for this bridge structure.

- The replacement structure will carry a 24' wide clearance, two lane bridge, which will provide a safer bridge clear roadway width, improved access for pedestrians and bicyclists and an improved snow storage area.

- The existing Mill Hill Road horizontal alignment will likely be maintained or slightly modified. The vertical alignment may be able to be raised a minimal amount to try to accommodate an improved waterway opening.

II. Professional Services Required

A. General

The project will be progressed in accordance with, except as modified by and with the approval of the Columbia County Department of Public Works (**County**), all applicable manuals and documents, including but not limited to:

- NYSDOT LRFD Bridge Design Specifications (Blue Book), with current addenda in effect
- NYS Department of Transportation Bridge Manual
- AASHTO Standard Specifications for Highway Bridges
- NYS Department of Transportation Standard Specifications, Construction and Materials – with current additions and modifications
- NYS Department of Transportation Bridge Detail (BD) sheets
- NYS Department of Transportation Standard Drawings
- NYSDOT Highway Design Manual

The projects shall be designed and detailed in US Customary units and standards.

B. Data Collection and Field Reconnaissance

1. Ground Survey – The topographic survey will locate all prominent natural and man-made features and utilities. Survey limits shall be 100 feet band width on each side of the roadway centerline for a distance of 400 feet from the bridge center in each direction along each approach. With respect to utilities mapping, the Consultant will locate and map all surface utilities (utility poles, guy wire, telephone, electrical and cable lines), and storm drainage structures, including invert elevations and pipe sizes. All trees that are 4" or more in DBH within the project limits will be surveyed, mapped and labeled with DBH #, size and species. Any other sub-surface utilities will be located based upon field demarcation provided by the utility owner. Contact "Dig Safely NY' for any underground utilities layout.

   Stream Survey – Stream cross-sections needed to perform the hydraulic analysis

   Survey of Wetland Boundaries – It is assumed that ACOE and/or NYSDEC wetlands may be present within the project limits. Consultant will delineate and locate via field survey

   Standards – Project control will conform to the following:

   a. Horizontal Control – will be State Plane Coordinate System based upon the North American Datum of 1983 (NAD 83). If practical and economical, the survey will be tied into the NAD 83-96 Base Network. Primary project control shall be established by the most economical techniques.

   b. Vertical Control – elevations will be based upon the North American Vertical Datum of 1988 (NAVD 88)

2. Design Mapping - Consultant will provide the following design mapping:

    - Provide 1"=40' scale mapping (full size) with 1 (one) foot contour intervals within the project limits
    - Locate all planimetric features within the survey limits
    - Spot elevations at critical areas will be shown
    - Above ground utilities will be located and coordinated with plans obtained from utility companies
    - Below ground utilities will be mapped based upon field demarcation and/or information provided by the utility owners or Dig Safely NY
    - Drainage structures, including size and type of structures and pipes and their invert elevations; and
    - Locate any ditches or swales

    The topographic survey will locate all prominent features and utilities within the limits of the field survey. A field review will be conducted after the initial base mapping has been completed. If necessary, mapping will be edited based upon the results of the field review.

3. Determination of Existing Conditions – Data Collection

    - The County will provide all available documentation and record information contained within its files for each bridge. Consultant will review this information for an understanding of prior work performed, issues anticipated to be encountered, etc.

    - Consultant will meet with the County as required to obtain insight and information that may be germane to the overall goals, issues or completed project product

C. <u>ROW-Related Services</u>

1. Right-of-way (ROW) Survey and Mapping – The County shall provide all known highway right of way information within the project area. Consultant will conduct highway right of way and property line survey and mapping within the project limits and add this information on the project base mapping. All information on file to determine location of the existing highway right of way and property lines will be obtained. This includes tax maps, deeds and any survey information from adjacent property owners.

    It is anticipated that some temporary easements, permanent easements or fee-type right of way acquisitions may be required. If during preliminary design, the need for ROW acquisitions becomes evident, the Consultant shall prepare and certify all ROW Acquisition Maps. The County will conduct all meetings and negotiations with affected property owners, and Consultant shall be prepared to attend such property owner meetings upon request of the County.

D. <u>Subsurface/Soils Investigations</u>

The Consultant will be responsible for coordinating and completing soil borings as needed to support the design and construction of the Bridge project. The consultant shall develop a boring plan for each project and shall review the plan with the County prior to advancing the borings. Consultant will determine the boring locations, diameters, and sampling intervals; designate soil boring numbers; take the soil borings; document the resulting subsurface information; and survey and map the actual boring locations. Consultant will have a structural engineer on site to witness

the soil borings and provide guidance as needed. Consultant will observe soil conditions and gather any additional information needed for design purposes.

Consultant will be responsible for all costs associated with the planning, advancement and analysis of the soil borings. Consultant may hire the services of a subcontractor to perform the soil borings and provide information needed for design purposes. A Geotechnical Engineering Report will be prepared by a Geotechnical Engineer licensed in the state of New York who is knowledgeable in the LRFD Bridge Design and applicable culvert design specifications. At a minimum the Geotechnical Report shall include the following:

- Project Description;
- Site Surface Conditions;
- Subsurface Investigation & Sampling Methodology;
- Site Subsurface Conditions;
- Laboratory Analysis;
- Geotechnical Engineering Discussions;
- Geotechnical Recommendations;
- Site Preparation;
- Suitable Bridge foundation types;
- Geotechnical Engineering parameters necessary for LRFD design of each suitable bridge foundation type;
- Backfill and compaction requirements; and,
- Excavation Protection/Sheeting/Soldier Pile design parameters.

E. <u>Environmental Review and Permitting</u>

1. Environmental Screenings and Preliminary Investigations

   The Consultant will screen and perform preliminary investigations to determine potential impacts resulting from the design alternative(s) for:

   - General Ecology and Endangered Species;
   - Ground Water;
   - Surface Water;
   - State Wetlands;
   - Federal Jurisdictional Wetlands;
   - Floodplains;
   - Coastal Zone Management;
   - Navigable Waterways;
   - Historic Resources;
   - Parks;
   - Hazardous Waste;
   - Asbestos;
   - Noise;
   - Air Quality;
   - Energy;
   - Farmlands;
   - Visual Impacts; and,
   - Critical Environmental Areas.

2. Detailed Studies and Analyses

   Based on the work performed in Section II (E) (1), the Consultant will determine whether detailed analysis or study is required. Prior to commencing such detailed study or analysis, the County must concur with the Consultant's determination. Detailed study or analysis of any environmental category listed above and determined to be necessary for the progression and completion of the project will be added to the Consultant contract via a negotiated supplemental agreement.

3. SEQRA Classification

   The Consultant will assist the County in complying with SEQRA (6 NYCRR Part 617). The County is the Lead Agency. Consultant tasks may include, but are not limited to:

   - drafting letters to involved agencies to determine the lead agency;
   - drafting Environmental Assessment Form(s);
   - drafting a negative or positive declaration; and,
   - drafting notices.

   The results of these screenings and preliminary investigations will be summarized and submitted to the County for further review and discussion.

4. Permits and Approvals

   The Consultant will obtain all applicable environmental permit(s) and certification(s), including but not necessarily limited to:

   - NYSDEC Article 15 Stream Disturbance Permit;
   - NYSDEC Article 24 Freshwater Wetlands Permit;
   - US Army Corps of Engineers Section 404 Permit (Individual or Nationwide);
   - NYSDEC Section 401 Water quality Certification; and,
   - NYSDEC State Pollution Discharge Elimination System (SPDES) Permit.

F. Structural Alternative Studies

1. Selection of Design Alternative(s)

   a. Bridge Replacement Alternatives

   Feasible alternatives for the Mill Hill Bridge appear to be a Superstructure Replacement with partial repair/reconstruction of the abutments.

   The Consultant will identify and make rudimentary evaluations of potential design alternative concepts that would meet the County's defined project objectives. These evaluations are not to be carried beyond the point of establishing the feasibility of each concept as a design alternative, only those significant environmental and geometric design constraints that bear on the feasibility should be identified.

   The Consultant shall incorporate all relevant bridge and site data prepared to date and provide to the County a letter-type design report that includes all potential feasible bridge replacement alternatives that will meet the County's defined project objectives. Only those feasible alternatives meeting project objectives shall be included in the report and for each

alternative deemed feasible, the Consultant will prepare as report attachments rudimentary sketches that show the following:

- On Plan – bridge width (clear/overall); travel lanes; shoulders; roadway centerline; pavement edges; and existing ROW limits
- On Profile – theoretical grade lines; critical clearances; bridge end elevations; bottom chord; freeboard data; grades; and touchdown points
- On Typical Section – lane/shoulder widths, overall width, superstructure details/dimensions; railing
- Other – significant environmental, ROW and geometric design constraints labeled as such

These sketches will include only the minimum information needed to select the design alternative(s) to be studied in further detail.

b. Selection of Design Alternatives

The Consultant will meet with the County to discuss the concepts, using the sketches as discussion aids to describe the relative order-of-magnitude costs, advantages, disadvantages and problem areas of each. From these concepts, the county will select one, or in some cases more, design alternative(s) for further development.

2. Detailed Evaluation of Alternative(s)

The Consultant will further evaluate each design alternative and the null alternative with specific engineering analyses and considerations. Analyses will be conceptual and limited to determining the relative suitability of each design alternative, and will include:

- design geometry, including the identification and comparison of alignment constraints
- environmental constraints and potential environmental impact mitigation measures (identified under Section 4 tasks)
- traffic flow and safety considerations, including signs, signals, and level of service analysis for intersections
- pavement
- Structures, including bridges, retaining walls, major culverts, and building alternations (limited to establishing basic concepts, accommodating clearances and stream flow, and estimating costs). Bridge investigative work (inspection, deck coring, etc.) is covered under Section B
- drainage
- maintenance responsibility
- maintenance and protection of traffic during construction
- soil and foundation considerations
- utilities
- right-of-way acquisition requirements
- accessibility for pedestrians, bicyclists and the disabled
- lighting
- construction cost factors

The Consultant will prepare the following drawings for each design alternative analyzed:

- 1" = 40' Scale plans showing (as a minimum) stationed centerlines; roadway geometrics; major drainage features; construction limits; cut and fill limits; and proposed right-of-way acquisition lines
- profiles, showing (as a minimum) the vertical datum reference; significant elevations; existing ground line; theoretical grade line; grades; vertical curve data including sight distances; critical clearances at structures; centerline stations and equalities; construction limits; and superelevation data
- typical sections showing (as a minimum) lane, and shoulder widths; ditches; gutters; curbs; and side slopes

3. Cost Estimate

- The Consultant will develop, provide and maintain detailed cost estimate for each design alternative;

- Costs estimates shall be developed at the following milestones:
  - Submission of Letter Type Design Report
  - Submission of Advanced Detail Plans; and,
  - Submission of Final PS&E

- The cost estimates shall be presented in CSI format and shall be prepared by experienced personnel. If experienced personnel are not available, the Consultant shall hire an outside firm experienced in the field of cost estimating; and,

- The Consultant will utilize NYSDOT Standard Specifications and the current Weighted Average Bid Prices in developing and updating the cost estimates.

G. Contract Plans, Specifications and Estimates

1. Detailed Design

After receipt of comments and authorization to proceed with the detailed design of the County's selected alternative, Consultant will develop detailed design and the final bid document package.

a. Based on the accepted Preliminary Design and the Engineer's Cost Estimate, Consultant will prepare the Contract Documents (Plans and Specifications). Final Drawings showing the general scope, extent and character of the work to be furnished and performed by the contractors on the project, and will be of sufficient detail to allow agency approvals for permitting, contractor bidding and construction of the work.

b. Provide technical criteria, written descriptions and design data, and assist the County to obtain required permits and other necessary approvals from governmental authorities having jurisdiction over the design and construction of the project. It is assumed that, other than the County, agencies will include the NYS Department of Environmental Conservation, the US Army Corp of Engineers and NYSDOT for any off-site local detours.

c. Coordinate initial contact with each affected utility and throughout the design process, assist the County, as necessary, in consultations at project site and otherwise, with appropriate and involved utilities that will be affected by the construction of the projects.

It is assumed that those utilities will be required to provide relocations or protection of their facilities and that their utility infrastructure resides in the County right-of-way and the cost of such relocations will be borne by the utility company themselves.

d. Assist the County with the acquisition of the necessary ROW from the adjoining property owners that are affected by the bridge projects and develop certified Acquisition Maps denoting the location and limits of such acquisitions. The County DPW and Co. Attorney's Office will be responsible for negotiating and completing the acquisitions with the property owners.

e. Develop final Contract Documents, suitable for the solicitation of bids under the guise of a Public Works Project from Contractors qualified to perform the work. The Contract Documents will include Consultant-prepared contract "boiler plate" (as modified by the County), Contract Agreement Forms, General Conditions and supplementary Conditions, Bid Forms, Invitations to Bid and Instructions to Bidders, prevailing wage rates, and other related necessary documentation.

f. Submit one (1) complete Contract Document package to the County for review and approval by the County and its agents.

g. Consultant will meet with the County to review the PS&E submission and will make necessary changes based on questions or comments offered by the County and governmental authorities during their review of the plans, specifications and Engineer's Estimate of final costs.

h. Furnish approvals and permits from all governmental authorities having jurisdiction over the project and such approvals and consents from others as may be necessary for the completion of the Contract Design Documents.

i. Submit one (1) CD and two (2) hard copies of the final PS & E Package to the County.

2. <u>Procurement of Bids</u>

a. Assist the County in advertising for and obtaining bids for the prime contract for construction, materials, equipment and services. Plans will be available for review at the offices of the County and the Consultant however, the plans will only be available from the Consultant. The Consultant may host an FTP site where contractors may download sets of bid documents or issue Contract Documents to prospective bidders via CD. The Consultant shall be responsible for maintaining a list of bidders, issuing any addendums that may be necessary and responding to contractor inquiries during the bidding process.

b. The Consultant will attend the bid opening.

c. Assist the County in evaluating the bids received, making a recommendation for award and assembling the contract copies for supply to the Contractor.

H. <u>Bridge Inventory and Load Rating Forms</u>

Consultant will complete and provide the County and NYSDOT with:

- Inventory Update forms, per the current NYSDOT Bridge Inventory Manual for Bridge Inventory and Inspection System, reflecting all physical changes resulting from construction

- Level 1 Load Rating Data Input forms, per NYSDOT User Manual for Structural Rating Program for Bridges and current NYSDOT guidance on the ”Procedures for Inventorying, Inspecting, and Level 1 Load Rating, New Replacement and Reconstructed or Rehabilitated Bridges”.

I. Construction Support Services

Construction Support Services (Administration and on-site inspection) may be added as a supplemental agreement to this scope of services and would be discussed and negotiated at a later date based on the selected alternative design developed.

J. Technical Assumptions

- This bridge currently serves a dead end road, and will require either staged construction or the installation of a temporary crossing to accommodate continued vehicular traffic until completion of the new structure.

- ROW needs for this bridge replacement are undetermined at this time. There appear to be privately-owned lands at each quadrant of the bridge site with only 1 quadrant having nearby structures (a residence and horse barns) on it. The other 3 quadrants feature open fields and/or agricultural lands on them.

- The Consultant will attend any ROW needs/negotiation meetings with adjoining landowners as requested by the County.

- The Consultant will provide ROW survey and mapping, prepare individual parcel acquisition maps, establish the existing highway boundary lines throughout the project limits and perform necessary title research, review and certifications. The County will perform the ROW Acquisition tasks such as negotiating with individual landowners, preparing all necessary acquisition and closure documents and filing of all closing/recording paperwork. Assume a total of two (2) ROW acquisition maps will be needed at this site.

- NYSDEC and ACOE environmental permitting reviews are anticipated along with cultural resource review of the project location and plans by the NYS OPRHP SHPO office.

- The consultant shall perform a Hazardous Materials Survey of the existing bridge. If hazardous materials are found, the consultant shall prepare the requisite documents and

- obtain the requisite permits from the NYSDOL for the County to bid the removal of the hazardous materials;

- It is assumed that the project will disturb less than one acre and therefore will not require the development of a SWPPP or submittal of a Notice of Intent under the NYSDEC SPDES program. However, should one be required, the consultant will be responsible for the development and approval of the SWPPP.

- There may be wetlands present in the vicinity of the project site. The consultant will be responsible for any wetland screenings, delineations and permitting that may be needed in support of the bridge replacement project;

- It is assumed that the bridge replacement project will be considered either a Type II or an Unlisted Action under SEQRA. The Consultant shall be responsible to develop the

appropriate SEQRA Environmental Assessment Form in that regard, together with supporting supplemental information as needed. If an EIS is found to be necessary, the County will negotiate an extra work authorization with the consultant for those services at that time;

- A public information meeting(s) will not be required; however coordination with various local government and emergency services providers will be maintained.

- The Consultant will coordinate and attend with the County all necessary meetings with involved and affected local utility owners. There are overhead utility lines existing near the bridge, but it appears there will be no construction operation conflict or relocation required.

- No special aesthetic or architectural treatments of the new bridge are required or desired by the County.

- It is assumed that the project will be bid as a Lump Sum Bid, with individual work items shown on the plans to denote specifications in effect. A Final Engineers Estimate will be developed by the Consultant and provided with the Contract Documents such that a lump sum contract can be established and used as a baseline in the bidding processes.

- This project is to be funded with 100% Columbia County funding. No Federal or New York State transportation program funding of any kind is involved.

L. <u>Information that will be provided by the County to the selected Consultant</u>

- Existing Bridge or/or adjacent highway plans, if available
- NYSDOT Biennial/Interim Bridge Inspection Reports, if requested
- Existing Bridge file data, reports, studies, etc.
- Existing ROW mapping, property deeds, tax mapping, etc.

III <u>Project Schedule</u>

- Submission of Proposals.....March 7, 2023

- Co. BOS Approval of Design/ROW I Contract (anticipated).....April 2023

- Completion of all preliminary design studies and work tasks, identification of all individual ROW acquisitions needed, and submittal of letter-type design report to County (Section II (A-G)) ..... September 2023

- Final PS&E Contract Document Submittal to County.....January 2024

- Construction Contract Letting.....March 2024

IV Form of Proposal

Prospective Consultants shall submit the cost for their proposals in the following format:

- Cost for all Design and ROW Incidental Services **(lump sum)**

    1. Mill Hill Bridge Superstructure Replacement with Abutment Reconstruction
    $_____

TOTAL $_____

Proposals shall also include the consultant's qualifications, similar work experience (firm and staff), references, a proposed work plan, staff resumes, project schedule and a listing and qualifications for all subconsultants that will be used. All key personnel shall be listed as well as a breakdown of all proposed staff hours, titles, hourly rate and tasks to be completed.

A "Proposed Work Plan" is to be submitted as a part of this RFP which lists all tasks determined to be necessary to accomplish all of the work of this project. The work plan shall define resources needed for each task (title and man-hours) and the staff person completing the project element tasks. In addition, the work plan shall include a timeline schedule depicting the sequence and duration of tasks showing how the work will be organized and executed.

The work plan shall be sufficiently detailed and clear to identify the progress milestones (i.e. – when project elements, measures and deliverables are to be completed). Additional project elements suggested by the Proposer are to be included in the work plan and identified as Proposer-suggested elements.

Proposals will not be evaluated solely upon their cost but will also take into consideration the experience and service that the Consultant will bring to the project. The County reserves the right to reject any and all proposals that are received. All proposals submitted remain the property of Columbia County. The successful Consultant will be expected to execute a Standard Professional Services Contract with Columbia County and provide Columbia County with a certificate of insurance naming Columbia County as an additional insured in accordance with the attached limits.

The selection process may or may not included formal interviews and will be based primarily upon the following criteria that are presented in no formal order:

- Cost
- Experience with work on similar bridge replacement/rehab projects
- Familiarity with Columbia County
- Staff and team experience
- Ability to service Columbia County
- Demonstrated ability to maintain Design and Construction cost within established budgets.

COLUMBIA COUNTY CONTRACTOR/CONSULTANT INSURANCE REQUIREMENTS

Consultant agrees to hold harmless and indemnify the County of Columbia, and the officers, agents, and employees of said County from and against all loss, damage, claims, demands, causes of action, judgments, losses, damages, liabilities, penalties and other obligations and expenses (including, without limitation, to reasonable attorneys' fees) arising out of bodily injury or property damage of whatever kind or nature, to the extent caused by consultant and/or its employees, and arising out of consultant's negligent performance of this Agreement.

Consultant agrees to procure and maintain, at its own expense, insurance with insurance companies authorized to do business in the State of New York, covering all operations under this Agreement, whether performed by consultant, its employees, or its subconsultant (if an), as follows:

The coverage parts and amount of insurance required are as follows:

1. ☐ Commercial General Liability insurance with minimum limits of $1,000,000.00 per occurrence, subject to a $2,000,000.00 annual aggregate. Coverage shall include bodily injury, property damage, personal injury, and blanket contractual liability.
2. ☐ Automobile Liability insurance with minimum limits of $1,000,000.00 each accident. Coverage shall provide for any vicarious liability of the County of Columbia and be applicable to all owned, non-owned, hired, borrowed or temporality used vehicles by consultant.
3. ☐ Professional Liability insurance with minimum limits of $500,000.00 per occurrence and a $1,000,000.00 annual aggregate.
4. ☐ Statutory Workers' Compensation, Employer's liability and New York State Disability in accordance with the Workers' Compensation and disability benefits laws of the State of New York

Before commencing work on behalf of the County of Columbia, consultant shall furnish Certificates of Insurance reflecting the insurance requirements set forth above. The County of Columbia shall be designated as an additional insured on any and all insurance policies required under this Agreement and such designation shall be reflected on the Certificates of Insurance.