



LiRo Engineers, Inc.

A LiRo Group Company

Three Arden Way, Syosset, NY 11791 Telephone 516-938-5476 Facsimile 516-937-5421

Via E-Mail (jcarr@yonkerspublicschools.org)

December 11, 2019

Mr. John Carr, P.E.
School Facilities Management Department
Yonkers Public Schools
One Larkin Center, 3rd Floor
Yonkers, NY 10701

**Re: Architectural/Engineering/Environmental Design Services
Yonkers Middle/High School HVAC Upgrades
YPS Request for Proposal Number 420-19-25**

Dear Mr. Carr:

LiRo is pleased to submit this proposal to provide Yonkers Public Schools (YPS) with Architectural/Engineering/Environmental Design Services in connection with the preparation of sketch-plan level design, preliminary schedule and cost estimate relating to corrective measures that may be necessary for the optimal functioning of the HVAC systems at Yonkers Middle/High School.

We recognize that the scope of work elements of this project will include:

1. Verifying the location of HVAC ducts and Performing a visual assessment of these ducts to determine the overall impact associated with isolating, cleaning these ducts as part of a systemic upgrade to the HVAC supply requirements to the school.
2. Preparing recommendations for viable systemic upgrades including cost estimates for temporary HVAC and/or replacement HVAC.
3. Preparing schematic design plans for the viable recommendation presented to YPS - Design includes,
 - a. Remediation plans and specs
 - b. HVAC plans that reflect existing conditions and proposed measures

LiRo will use existing system as-built drawings and AUTOCAD HVAC plans. LiRo will perform the 3D scan of the school interior and prepare a BIM model. Coupled with additional visual assessments as necessary to ascertain the conditions of the HVAC system components (using a Pearpoint P350 Flextrak with lanyard to view and video the subterranean ducts) LiRo will have sufficient information to evaluate and recommend remedial actions.

We will complete the work of this project scope within ten (10) weeks from our notice to proceed for the lump sum fee of \$180,400. This includes a Design Intent Report submission around the midpoint of the project period, consisting of the surveillance results (including video) and shortlist of viable recommendations. Our team is available throughout the project duration, at the convenience of YPS, to attend four project meetings. We appreciate the opportunity to submit this proposal. Should you require any additional information, please contact me at 516-938-5476.

Sincerely,

LiRo Engineers, Inc.

Christopher Zanoni
Vice President

Statement of Approach

Schematic Design

Upon completion of the design intent report, LiRo and the SFMD will discuss and select the appropriate remediation options for the identified issues, which will establish a path forward for LiRo design efforts. LiRo will then develop the Schematic Design Documents. Schematic Design will include preliminary equipment selections, floor plans, diagrams, and details outlining HVAC design for the chosen remediation options. Schematic Design Documents are intended to be used to produce more accurate cost estimates that would encompass all construction disciplines.

Compensation

We propose to provide the consulting services described above for the cost of \$165,400.00 (not including reimbursable expenses) and an expected schedule for completion of ten (10) weeks from the receipt of written Notice to Proceed (NTP).

LiRo Expected Payment Terms:

- Initial payment of 50% due upon completion of field survey work to assess existing conditions associated with the subterranean ducts in the Yonkers Middle HS.
- Final payment of 50% due upon acceptance of the final report and schematic design documents.

All payments due net 90 days upon receipt of the invoice.

REIMBURSABLE EXPENSES

LiRo will provide digital copies of all reports and drawings. All printing (reproducible and blueprints) of reports and drawings will be done on a reimbursable basis and only if written approval is received from SFMD. Labor for asbestos surveys and sampling and laboratory testing of environmentally hazardous materials, air samples testing, flex-trak camera for visual surveillance of accessible ducts, etc. necessary to complete the project work will be done on a reimbursable basis as well.

LiRo shall provide separate individual invoices submitted to YPS for all qualifying reimbursable expenses.

The maximum reimbursable for this project will not exceed \$15,000.00

Total Proposed Lump Sum (Consulting Fee + Reimbursable Expenses): \$180,400.00.

<u>Cad Plotting:</u> Bond - \$2.00 / plot or print	<u>Delivery:</u> Federal Express - At Cost
<u>Reproduction:</u> Xerox 8.5 x 11 = \$0.10/sheet 8.5 x 14 = \$0.11/sheet 11 x 17 = \$0.35/sheet	Color 8.5 x 11 = \$1.65/sheet

2019 hourly rate table by the title is as follows:



Title	Hourly Rate
Principal	\$280.00
Senior Project Manager	\$196.00
Project Manager	\$196.00
Senior Engineer	\$154.00
Engineer	\$126.00
Junior Engineer	\$112.00
Designer	\$161.00
AutoCAD Draftsperson	\$ 98.00
Administrative/Clerical	\$ 67.00

Exclusions

- The proposal and the respective fee are valid for 90 days from the issuance date. After 90 days, LiRo reserves the right to void or modify this proposal and the respective fee.
- Plumbing and Fire Sprinkler design services
- Detailed design and construction level drawings