



August 09, 2021

Mr. Phillip Francis
Director of Operations
Livonia Public Schools
15125 Farmington Road
Livonia, MI 48154

RE: Contract Award Recommendation for Tennis Court Design Services
Franklin High School & Stevenson High School

Dear Mr. Francis:

This letter transmits an update from Plante Moran CRESA (PMC) as it relates to the assignment to assist and advise Livonia Public Schools (LPS) in its selection of an Architecture/Engineering (AE) Firm for the Projects listed above. This update represents the mutual efforts of PMC and LPS administration and staff (The Team) to present a framework in order to identify, evaluate and recommend a Firm for these Projects.

In both 2017 and 2018, LPS awarded contracts to Foresite Design, Inc. (FDI) to provide design services for the athletic improvements at Churchill, Stevenson and Franklin High Schools. Work under this previous engagement included upgrades to each of the schools' stadium fields, tracks and baseball and softball facilities.

The Team has been satisfied with the work completed by FDI to date and requested a formal proposal from them, as well as NTH Consultants to provide design, construction documents, bidding and construction administration services for the tennis courts at both Franklin and Stevenson High Schools. In response to this request, FDI and NTH Consultants provided the attached proposals dated May 28, 2021, and June 2, 2021 respectively. Upon review of both proposals and budgets, FDI's proposed fee remains competitive and consistent with the percentage used to award their previous contract.

The Team recommends the Board of Education retain FDI for the above referenced work in the amount of \$71,200.00. This equates to 5.0% of the initial hard construction budget for this work of \$1,400,000.00.

The cost for this work will be detailed in AIA Contract B105 – 2007 Standard Form of Agreement Between Owner and Architect, as modified, pending final review and approval of terms by District legal counsel.

The Team is available at the Board's convenience to answer any questions regarding this process and/or the recommendation. Please direct all questions through me via email at brian.weber@plantemoran.com.

Sincerely,

PLANTE MORAN CRESA



Brian Weber,
Vice President

Enclosures: Foresite Design Proposal dated May 28, 2021
NTH Consultants, LTD. Proposal dated June 2, 2021

May 28, 2021

Philip Francis
Director of Operations
Livonia Public Schools
15125 Farmington Road
Livonia, MI 48154

Re: Livonia Public Schools 2022 Tennis Court Project Proposal – Stevenson & Franklin H.S.

Dear Mr. Francis,

Thank you for giving Foresite Design the opportunity to submit a proposal for the 2022 Franklin and Stevenson tennis court reconstruction project. We have enjoyed working with the District in the past and look forward to continuing our relationship with Livonia Public Schools on this project.

SCOPE OF WORK

We have identified the scope of work required by our office to include the following:

A. Franklin High School

- Demolition of existing tennis courts, including fencing/footings, net posts/footings, asphalt and aggregate stone base. We understand the existing building within the courts is to remain and the new courts will be built around this building
- New aggregate stone base and subsurface drainage
- Seven (7) new tennis courts
 - Base Bid: asphalt
 - Alternate Bid: post-tension concrete
- New net tension systems with internal winding mechanisms
- Acrylic tennis court surface, including stain-block primer and striping
- 12' Galvanized chainlink fence enclosure and gates on all sides to match existing site

B. Stevenson High School

- Demolition of existing tennis courts, including fencing/footings, net posts/footings, asphalt and aggregate stone base.
- New aggregate stone base and subsurface drainage
- Ten (10) new tennis courts:
 - Base Bid: asphalt
 - Alternate Bid: post-tension concrete
- New net tension systems with internal winding mechanisms
- Re-work (6) electrical outlets and (2) electrical boxes
- Acrylic tennis court surface, including stain-block primer and striping
- Galvanized chainlink fence and gates to match existing site: 12' perimeter, 10' at corners and 4' at bleachers
- Work includes the removal and replacement of asphalt on east and west sides of courts, where the bleachers are currently fixed. Bleachers would be salvaged and re-installed.

C. Franklin & Stevenson High School (2021 construction):

- Caulk existing cracks within the playing court areas to prepare for fall 2021 and spring 2022 play
- Due to limited cost and scope of work, our office will solicit RFP pricing from vendors to conduct work in the summer of 2021.

Items excluded from the Tennis Scope of Work at this time, but can be included in as necessary

1. New bleachers
2. Tennis Court Lighting & New Electrical
3. Pre-manufactured practice boards and windscreens
4. Concrete walkways, drives, approaches

SCOPE OF SERVICES

We have established the necessary skills and experience to create the plans, specifications, and bidding documents and have a solid working relationship with the building trades. During the course of construction, our principle objective is to ensure the project is constructed to our requirements and expectations, and the client's satisfaction. While we will be visiting the site periodically to provide Construction Monitoring & Administration, Foresite does not provide daily Construction Management services. Should the District require daily oversight of construction phases and operations associated with the intended projects, we recommend a Construction Manager is hired for these services.

Schematic Design Drawings, Graphics Design, Procurement of Soil Borings – PHASE 1

1. Review the proposed site to evaluate Owner's needs and desires.
2. Prepare preliminary schematic layout and site usage plan(s).
3. Prepare preliminary project budget and identify alternate costs.
4. Procure soil borings and geotechnical report.

Design Development, Construction Documents, Bidding Session – PHASE 2

1. Refine drawings to cover full construction/bidding documents.
2. Review final usage plans with client/owner and other appropriate departments.
3. Reconfirm budget and alternate costs for project.
4. Establish a formal bidding date with the Owner's Representative
5. Develop bidding documents, including Boiler Plates and Technical Specifications
6. Develop bidding list and advertise project to specialty trades and qualified contractors.
7. Monitor bidding period to screen contractor's information and questions.
8. Attend post-bid interviews, evaluate Bids with District and recommend method of award.

Construction Administration – PHASE 3

1. AIA Owner/Contractor contracts to be developed Plante Moran CRESA.
2. Attend pre-construction, construction kick-off, and construction progress meetings as required.
3. Monitor each phase of construction for proper compliance to plans and specifications. This would include 2-3 weekly visits per site during construction or as required to ensure compliance with the bidding documents.
4. Respond to Contractor's Requests for Information.
5. Review and comment on all shop drawings submitted by Contractor.
6. Provide recommendations for any Change Order related items. Issuance of formal Change Order by Plante Moran CRESA
7. Review and Certify Contractor Payment Requests.
8. Develop final punch list and Issue Certificate of Substantial Completions for Contractors.
9. Secure all warranty guarantees and Close-Out Documentation
10. Perform final walkthrough with District to verify completion of punchlist items.



PROJECT OPINION OF COSTS & DESIGN FEE

Below is a summary of the construction, soft costs, and design fees related to the scope of work described herein. Should you wish to include any of the excluded items noted previously (either Bid Bid or Alternate), these will have an impact to the following costs:

\$1,400,000.00	Base Bid Construction for Tennis Courts
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\$1,400,000.00	Construction Subtotal
\$ 5,000.00	Soil Borings Allowance
\$ 140,000.00	Construction Contingency (±10%)
\$ 40,000.00	Design Contingency (±3%), <i>to cover revisions between SD & CD</i>
<u>\$ 20,000.00</u>	<u>Independent Construction Testing Allowance (±1.5%)</u>
\$1,605,000.00	Total Estimated Project Costs

Our design fee is based on a set fee, which allows us to perform all necessary tasks with the project and it allows the District a better review of alternate costs. We have found that within the development of athletic facilities, it is the scope of work that is critical to our fee structure and not the construction budget; therefore, the professional fee can be re-evaluated, if you decide to reduce or increase the scope of work.

Our fee to assist the Livonia Public Schools with the Base Bid design, construction documents, bidding session, and construction administration would be Seventy-One Thousand Two Hundred Dollars (\$71,200). This fee includes all Electrical Engineering required for the project, as noted in the scope of work above. This fee also includes review and design work for remedial, short-term repair work to the tennis courts to make them satisfactory for use until reconstruction work begins.

INSURANCE

For the protection of our clients as well as our firm, we carry insurance protection including errors and omissions, professional liability and Worker’s Compensation insurance. The extent and types of insurance can be provided upon request.

PROJECT SCHEDULE

Based on the previously reviewed schedule and upon a notice to proceed, our office would immediately begin the solicitation of pricing from surfacing contractors to perform the remedial work on the courts for Fall 2021 use. The exact dates of construction for this work will be arranged with the District around any scheduled athletic or community commitments.

For the reconstruction portion of the work, our office would begin preliminary design as early as late Summer 2021, upon receipt of all topographic survey and soil boring information. It would be the intent to begin design progress meetings in the Fall of 2021 and release the project for bidding in November/December 2021. It would be the expectation for construction to commence in the Spring of 2022, as desired by the District. The actual dates for construction will be coordinated with the Spring athletics schedule at each site. A firm project design, bidding, and construction schedule can be provided upon notice to proceed.



Thank you for giving Foresite Design the opportunity to work with the Livonia Public Schools on these renovations. Should you have any questions with regards to the above or require any additional information, please do not hesitate to contact this office.

Sincerely,



Bruce Lemons, RLA

BSL/co

CC: Mike Sims, FDI
FDI File

Encl: (1) FDI Terms and Conditions



Terms & Conditions

General Notes:

1. *With providing opinions of cost, the client understands that Foresite Design has no control over the cost or availability of labor, equipment or materials, or over market conditions, or the Contractor's method of pricing. The opinion's of cost shown are based on Foresite Design's professional judgement and experience and makes no warranty, express or implied, that the bids or the negotiated cost of the work will not vary from the opinion of costs shown.*
2. *The opinion of costs shown reflect current material and labor pricing assumed for bidding in 2021 and construction in 2022. Recent market volatility with certain building materials can be unpredictable and volatile. Should the work occur after 2022, we would expect a 1-3% escalation rate per year.*
3. *The opinion of costs shown may be affected by unknown ground conditions and/or subsurface utilities that are not visibly present. A current topographic survey and soil borings are recommended to obtain the most accurate opinion of costs.*
4. *Franklin and Stevenson High Schools falls under City of Livonia Jurisdiction in terms of soil erosion and stormwater management. The costs shown above are strictly construction costs and would include necessary soil erosion control, but do not account for any stormwater management that may be required by the City. For the scope of work shown above, we do not believe that additional Stormwater Management would be required. Once a firm scope of work has been identified, we would retain the services of a Civil Engineer to review the stormwater requirements to determine if any additional detention/retention is required.*
5. *Foresite Design will assist the District in applying for any regulatory permits. Costs for these permits are not included in FDI's fee. All building trade permits will be paid for by intending Contractor. FDI makes no guarantees that permits will be issued.*
6. *All documents produced by Foresite Design, Inc. under this agreement (and the copyright interests thereto) shall remain the property of FDI and may not be used by the Client for any other endeavor without the written consent of FDI.*
7. *FDI shall not be required to execute any document that would result in their certifying, guaranteeing or warranting the existence of conditions whose existence FDI cannot ascertain.*
8. *Construction Phase Services: The Client agrees, to the fullest extent permitted by law, to indemnify and hold harmless FDI, its officers, directors, employees, and subconsultants against all damages, liabilities or costs, including reasonable attorney's fees and defense costs, arising out of or in any way connected with the performance of such services by other persons or entities and from any and all claims arising from modifications, clarifications, interpretations, adjustments or changes made to the Contract Documents to reflect changed field or other conditions, except for claims arising from the sole negligence or willful misconduct of FDI or its subconsultants.*

Tennis Courts:

9. *In various regions, rust spots are a common sight on tennis court surfaces. They are actually visible on driveways, parking lots, and other asphalt surfaces, but they are more pronounced on a colored tennis court surface.*
10. *The rust spots are the result of metallic minerals, called pyrites, that contaminate the stone used to create asphalt. Asphalt pavement and acrylic tennis surfaces allow vapor to transmit, or breathe through them. When the mineral pyrites become wet, they rust and bring the stains upward into the acrylic surfaces. These rust stains are unsightly and mostly an aesthetic issue that don't affect the ball bounce or play of the game. However, sometimes the aggregate reacts, swells, and pops out. This leaves a rust stain and sometime a small mound with a tiny hole in the surface. The existing courts at Franklin and Stevenson High Schools have various stages of rust spots and rust pops.*
11. *Recently, there has been a lot of discussions local to Metro Detroit about the rust marks on tennis courts. Our specifications include the cleanest form of asphalt generally acceptable, and to which the asphalt plants can produce for a reasonable cost. This is referred to as virgin asphalt, which also utilizes pure limestone aggregate materials.*



12. *Rust spots are mostly an aesthetics issue and the most effective measure to help mask the rust stains is to select colors that closely match and do not contrast the rust color. The scope of work herein includes the use of a stain blocker application which applies a barrier between the asphalt paving and acrylic playing surface. We have found great success with the use of this product to avoid aesthetic rust spot issues.*
13. *We generally do not see rust spots occurring on post-tension concrete surfaces and a stain-blocker material is not required.*
14. *Keeping the courts free of foreign matter will help preserve the condition of the acrylic surface. This includes mold, mildew, sand, and dirt. Removal of this matter can usually be resolved with a soft nylon brush.*
15. *Clean and fill cracks as required. Color resurfacing of courts shall occur every 5-8 years depending on use.*





NTH Consultants, Ltd.

Infrastructure Engineering
and Environmental Services

41780 Six Mile Road
Northville, MI 48168
248.553.6300
248.324.5179 Fax

Mr. Harry Lau
Livonia Public Schools
15125 Farmington Rd
Livonia, MI 48154

June 2, 2021
NTH Project No. 62-210258

**RE: Proposal for Site Civil Engineering, Design and Construction Administration Services
Tennis Court Reconstruction
Franklin and Stevenson High Schools
Livonia, Michigan**

Dear Mr. Lau:

In accordance with your request, we are pleased to submit this proposal to provide engineering and design services for the proposed site-civil improvements in support of tennis court reconstruction at Franklin and Stevenson High Schools. As you may recall, NTH designed the successful reconstruction of Churchill High School's Tennis Courts in 2017/2018. The courts at Churchill required significant upgrades due to improper drainage and slopes to meet Tennis Court Standards. The following paragraphs detail our understanding of the project, proposed scope of services, and associated professional fees.

BACKGROUND

We understand Franklin High School (7 courts) and Stevenson High School (10 courts) tennis facilities need to be restored. Livonia Public Schools (LPS) intends to complete a full court reconstruction at both facilities ahead of the 2022 playing season and complete select spot repairs on the tennis courts to facilitate continued play during the 2021 playing season.

To accomplish your objectives, we have developed a proposed scope of services to prepare design documents for bidding and construction of the site-civil improvements related to completing both a temporary spot repair program for the 2021 season and full reconstruction of the courts in 2022. We understand the current court extents and location will not be altered from existing conditions and that the reconstruction effort will be for the same court limits as existing. We also understand that no site lighting is planned for the courts. We will design the court reconstruction/stripping to applicable guidelines for use during Michigan High School Athletic Association (MHSAA) regulation play.



SCOPE OF SERVICES

Phase 1: Design, Permitting, and Bid Assistance

Task 1: Kickoff Meeting and Preliminary Site Investigations

1. **Kickoff Meeting:** We will attend a project kickoff meeting with LPS at your offices or virtually to discuss our plans and address LPS's concerns regarding the overall deliverables for the project, schedule, and other pertinent logistical information.
2. **Review of Available Documents:** NTH will review available documents, drawings, and design criteria relative to the site and project. Documents may include records of topographic and site surveys, utility records, original construction documents and site plans, and site maintenance and repair records. We will also review the applicable City of Livonia (City) and State of Michigan engineering standards/ordinances to determine the requirements for the proposed improvements, if any.
3. **Topographic Survey:** NTH will retain Kem-Tec to conduct a topographic survey to locate site features and underground utilities around each court facility to meet permitting and design requirements for construction activities that may be required. NTH will use the CAD format of these documents, along with information provided by LPS on other documentation, if needed, to create design documents for the project. The topographic survey is limited to the areas that are associated with scope of improvements discussed in this proposal. NTH will rely on the validity of such provided information without complete independent field verification.
4. **Field Exploration:** NTH will conduct a field exploration of the tennis courts to support geotechnical and pavement recommendations for reconstruction. After notifying the Miss-Dig system to identify existing subsurface utilities prior to commencing field work, we will perform a total of 4 hand auger borings and 4 Dynamic Cone Penetrometers (DCPs) to 3 to 5 feet below ground surface for the two project sites. Upon completion of drilling, each of the borings will be backfilled with soil cuttings and any leftover spoils will be left onsite.

We will perform engineering evaluations and prepare a memorandum that summarizes our findings and presents our evaluations, conclusions, and recommendations about the following items:

- General subsoil conditions and ground water conditions.
- Results of the DCP testing.
- Asphalt thickness recommendations for the tennis courts.
- Document any drainage or ponding issues on the tennis courts.

Task 2 (Alternate): 2021 Repair Recommendations and Implementation

NTH will develop temporary repair recommendations and details based on the review of available documents and field conditions to facilitate continued play on the courts during the 2021 season until reconstruction of the courts occurs in Summer of 2022. We will prepare engineering plans and repair specifications of sufficient detail to allow a contractor(s) to execute the temporary



repairs. We will virtually meet with LPS to review the design/repair recommendations and discuss any modifications required to proceed forward.

We do not anticipate the need to prepare a formal bidding and solicitation package for this work and have not included preparation of such in our scope. We have included minimal construction administration to facilitate contractor repairs of the tennis courts in accordance with our design documents and repair recommendations.

Task 3: Engineering Analysis and Design

1. **Develop Schematic Design:** NTH will develop preliminary recommendations based on the review of available documents and topographic survey. We will complete a preliminary review for grading, court and fencing layout. We do not anticipate the need to complete any utility upgrades for the court reconstruction (storm or electrical) at this time and do not anticipate the need to re-route any existing utilities that may exist beneath the courts currently. We will virtually meet with LPS to review the schematic design and discuss any modifications required to proceed forward.
2. **Engineering Documentation:** NTH will develop design documents consisting of construction drawings and specifications advanced from the 60% design documents. Construction drawings and specifications will clearly define major site systems and material selections to allow for comprehensive technical review. Additionally, specifications will describe scope of work, standards of execution, workmanship, and other characteristics pertaining to the project.

We have included virtual design reviews at 60%, 90% and 100% completion of the documents to incorporate owner revisions as the engineering and documentation progress.

NTH anticipates submitting the 90% Design Development documents to local and State authorities having jurisdiction for preliminary review and permitting, as applicable. As is typical with this type of project, the Owner is responsible for paying for engineering review of the submitted documents, permits and other local authority fees/bonds. As such, we have not included any permitting, review, or bonding fees required by local agencies in our proposal.

3. **Issue for Bid Contract Documents:** NTH will incorporate review comments into the design documents to develop Issue for Bid (IFB) contract documents. The contract documents will incorporate revisions from preliminary reviews by LPS and authorities having jurisdiction, as required.

Final IFB Civil Documents may include the following plans, as needed, based on the selected scope recommendations:

- a. Title/Cover
- b. Existing Conditions
- c. Soil Erosion and Sedimentation Control Plan
- d. Demolition Plan
- e. Proposed Site Plan



- f. Proposed Striping Plan
- g. Proposed Grading Plan
- h. Details, Notes, and Specifications

Task 4: Bidding Assistance

This task includes the preparation of bid documents, attendance at a pre-bid meeting, the review of contractor bids with LPS, and the preparation of a written award recommendation as described below:

1. **Pre-Bidding Activities:** NTH will develop bidding documents for contractors, to be included in the IFB documents. Bidding documents will include a bid advertisement, invitation to bid, bid form, and bid instructions. We understand LPS will provide the up-front contract documents that we will include in our document packages, and we will provide LPS our design documents for bid advertisement. NTH will notify qualified bidders of the upcoming work and advertisement and will assist in conducting a pre-bid meeting with prospective contractors to review the project requirements, field conditions, and answer questions. The pre-bid meeting will include a site visit to each school. Following the pre-bid meeting, NTH will prepare minutes of the meeting for submission to LPS.
2. **Bidding Activities:** NTH will respond to written requests for information and issue addenda as required to clarify the construction requirements. This proposal includes the issuance of up to two addenda. Additionally, NTH will assist LPS in reviewing contractor bids and will prepare a written contract award recommendation to LPS for consideration.

Task 4 includes one pre-bid meeting, to be held at LPS and one LPS scorecard bid review meeting. This proposal assumes all contract documents, bid documents, and meeting minutes will be distributed by LPS to interested parties, including the contractor.

Phase 2 (Alternate): Construction Contract Administration

This task includes construction contract administration activities as described below:

Task 1: Contract Documents

After the project is awarded, we will prepare Issue for Construction drawings and specifications which will incorporate the comments, changes, and clarifications from the bidding process.

Task 2: Construction Support and Field Observations

1. **Pre-Construction Meeting:** NTH will attend a post-bid/pre-construction meeting with the selected contractor(s) to review the construction scope of work, schedule, pricing, and LPS policies and procedures. This proposal includes one post-bid/pre-construction meeting. This proposal assumes the selected contractor will generate minutes for construction meetings.
2. **Contract Administration:** NTH will respond to written request for information (RFIs). NTH will issue bulletins and/or construction change directives (CCD) as required to clarify the



construction requirements. This proposal includes a minimum one (1) week review period from the date an RFI is received by NTH to the issuance of a response.

NTH will also review contractor shop drawings, samples, and other required submittals for conformance with the contract documents. This proposal assumes a minimum one (1) week review period from the date a submittal is received by NTH to the issuance of a response.

A site-civil engineer from NTH will attend up to two (2) progress meetings in person to assist the NTH team in construction progress review.

NTH will provide coordination between LPS and the contractor(s) regarding hidden and unforeseen conditions, unanticipated work scope, scheduling, and logistics as required for project completion.

To accomplish the items above, this proposal assumes project management services of 4 hours per week on average for 6 weeks, including the two (2) site visits noted above.

- 3. Construction Observation:** NTH will provide partial field observation to observe construction activities pertinent to site-civil aspects of the project. The purpose of construction observation is to review the Contractor's work regarding the contract documents and to verify compliance with the project documents.

This proposal includes field observation completed by one field engineer on a part-time basis for up to five (5) 1/2-day site visits to support the site-civil aspects of the project.

NTH shall not have control nor charge of, and shall not be responsible for, construction means, methods, sequences, procedures, or job safety. NTH shall not be responsible for Contractor's failure to perform work in accordance with Contract Document requirements. NTH shall, nonetheless, exercise reasonable care and diligence in discovering and reporting apparent defects or deficiencies in the Contractor's work to LPS.

- 4. Construction Close-Out:** NTH will develop a detailed punch-list and will monitor punch-list completion and contractor close-out activities. NTH will review final contractor close-out document submissions, including warranties, as-built drawings, and final pay-applications to ensure compliance with the construction documents.

We will prepare record drawings from "as-built" prints marked up by the contractor. Record drawings will include addenda, bulletins, and CCDs issued by NTH and construction memorandums and field orders issued by the Contractor to provide to LPS and the City after construction completion.

We will incorporate our documents into a single final project close-out manual including record drawings, DFRs, photographs, close-out submittals, and punch-lists for LPS review and record purposes. The close-out manual will include one set of original drawings and one set of electronic files in both PDF format and the latest version of AutoCAD or other approved software.



CIVIL ASSUMPTIONS AND EXCLUSIONS

- As is typical with this type of project, the Owner is responsible for paying for engineering review of the submitted documents, permits and other local authority fees/bonds. As such, we have not included any permitting, review, or bonding fees required by local agencies in our proposal.
- This proposal assumes one bid package will be developed and awarded for the construction phase for both schools. Additional fees may apply if multiple bid packages are requested.
- Existing utility service lines within rights-of-way are assumed to be adequate for intended future use and no improvements to the service lines will be required. Any electrical/communications design work for the courts, site lighting, fire protection, sanitary plumbing, landscape irrigation, or other utility design is not included in our scope and will be performed by others or may require a revised professional fee.
- For existing areas where there will be minimal change to land cover or extents of impervious surface, we will not evaluate or upgrade existing drainage conditions unless LPS specifically notes there is an existing drainage issue in the area.
- We have excluded design work or permits in the City of Livonia right-of-way for the proposed improvements. Should additional permits not specifically noted in the proposal be required, we can provide these services for an additional fee.
- This proposal package does not include any landscape design in our proposed fee.
- Construction materials testing, or observation services are Optional Services in this proposal.
- Our fee estimate does not include the preparation, filing, recording, fees, or legal review of easements with agencies having jurisdiction, but can do so, if necessary, with the assistance of our land surveyor, for an additional fee.
- The proposal package assumes three (3) submissions of the civil detailed design/engineering documents for design review. Additional preliminary reviews can be included and prepared for an additional fee.

SCHEDULE

We understand the intent is for tennis court reconstruction to commence in Summer of 2022 with a Fall/Winter 2021 bid letting. We can initiate the survey and complete the preliminary design task within eight (8) weeks after written notification to proceed or issuance of a Purchase Order, depending on survey completion and subcontractor availability. Completion of the permit design documents can occur four (4) weeks after receipt of comments from LPS.

PROFESSIONAL FEES

Fees for our engineering, design and consulting services will be invoiced in accordance with our established contract, fee, and rate schedule with LPS.



Based on the available information provided and our proposed scope of services outlined above, we anticipate the fees for the general tasks presented above:

Phase 1: Design, Permitting, and Bid Assistance

Task 1: Kickoff Meeting and Preliminary Site Investigations	\$15,800
<u>Task 2 (Alternate): 2021 Repair Recommendations and Implementation</u>	<u>\$13,200</u>
Task 3: Engineering Analysis and Design.....	\$27,900
<u>Task 4: Bid Assistance</u>	<u>\$4,700</u>
PHASE 1 TOTAL (With Alternate)	\$61,600
PHASE 1 TOTAL (Without Alternate).....	\$48,400

Phase 2 (Alternate): Construction Contract Administration

Task 1: Contract Documents	\$4,100
Task 2: Construction Administration	\$7,900
Construction Observations and Materials Testing (<i>OPTIONAL</i>)	\$9,100
<u>Task 3: Closeout Documents.....</u>	<u>\$4,500</u>
PHASE 2 TOTAL (With Optional Service).....	\$25,600
PHASE 2 TOTAL (Without Optional Service)	\$16,500

If additional services are required due to unanticipated conditions, changes in the scope of services, or other factors that may affect the fees noted above, NTH will contact your office regarding any necessary contract modifications. No additional services beyond that which is outlined herein will be performed unless authorized by your office.

NTH expends considerable effort in research and development of an appropriate scope of services that is tailored to the specific needs of the client and project. Consequently, the technical and pricing information contained in this proposal submitted by NTH is confidential and proprietary. LPS shall not release such information or otherwise make it available to any third-party without the express written consent of NTH.



Mr. Harry Lau
June 2, 2021

We appreciate this opportunity to submit our proposal for your consideration and look forward to continuing our excellent professional working relationship with LPS. Following your review of this proposal, please call us if you have any questions, comments or need further information. We would be happy to discuss the details of this proposal at your convenience.

Sincerely,

NTH Consultants, Ltd.

A handwritten signature in blue ink, appearing to read 'D. Lutz', with a long, sweeping horizontal line extending to the right.

David R. Lutz, P.E.
Project Manager, Vice President

A handwritten signature in blue ink, appearing to read 'John B. Stadnicar', with a long, sweeping horizontal line extending to the right.

John B. Stadnicar, P.E.
Senior Vice President

DRL/JBS/mlk

cc: Cliff J. Andrews - NTH