

Mr. Ryan Manalo, P.E.
Project Manager, Public Utilities/Engineering
City of Hollywood
Public Utilities
1621 N. 14th Avenue
Hollywood, FL 33022-9045

Arcadis U.S., Inc.
150 S Pine Island Road
Plantation, Ste 300
Florida 33324
Phone: 954 761 3460
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Date: August 15, 2024
Our Ref: 30134884
Subject: Hollywood Water Treatment Plant Spiractors and Administration
Building Structural Repairs – Design Services During Construction and limited
Construction Administration Services – Scope of Services

FL Engineering License #7917
FL Geology License #GB564
FL Surveying License #LB7062

Dear Mr. Manalo,

Arcadis U.S. Inc. (Consultant) is pleased to present the City of Hollywood (City) with our work order proposal to provide Construction Administration and Management Services for the Water Treatment Plant Spiractors and Administration Building Structural Repairs Project. This Work Order (WO) shall be executed per the terms and conditions of the Professional Services Agreement for General Engineering Consultant Services: Water Treatment Plant and Wastewater Treatment Plant Projects No. 1324A (Agreement) executed on October 31, 2023, by and between the City and Consultant.

BACKGROUND

The City of Hollywood (City) provides potable water service to customers within the municipal boundaries of the City as well as wholesale to several adjacent areas of unincorporated Broward County. The City's Water Treatment Plant (WTP) produces approximately 24.5 million gallons per day and serves approximately 200,000 customers by pumping and treating raw water from the Biscayne and Floridan aquifers using a combination of lime-softening (LS), membrane-softening (MS, also referred to as nano-filtration), and reverse osmosis (RO). Within the LS treatment process, 12 spiractors serve two filtration treatment processes prior to blending and disinfection. Each spiractor is a 70-ft tall, conical shaped steel vessel. These vessels were originally installed in the 1970's and during recent inspections and evaluations, substantial corrosion and structural deficiencies to their base plate supports were identified and recommended repairs were developed.

In addition, the WTP's Administration Building was inspected (by others) as part of the 40-year recertification process and found structural deficiencies and recommended repairs to be performed.

Previously, as part of a separate work orders, the City retained the Consultant to prepare plans and specifications to implement the repair recommendations to ensure continued and safe operations at the WTP (hereafter the "Project"). The repairs include:

- Repair of spiractors support column base plates, anchors, nuts, and washers
- Repair of the corroded pipe support columns for the 42-inch diameter spiractor effluent main
- Reinforcement of the 42-inch diameter blend tank effluent pipe against wind uplift

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- Structural Repairs inside the Administration Building Stairwells
- Structural Repairs of the Building slabs, walls, concrete pads/pedestals and roof
- Repairs inside the Hex Room, which includes a temporary chemical system

The Project was advertised for Bid on June 6, 2024 and the City received 1 bid on July 16, 2024, and will be issuing a recommendation for award to a Contractor to complete the Project. Concurrently, the City requested the subject proposal from the Consultant to provide design services during construction and limited construction administration services in support of the Project.

SCOPE OF WORK

The Consultant shall provide the following services:

- Pre-Construction and Project Management Services
- Construction Phase Services: Engineering Services and Limited Construction Administration
- Post-Construction Services and Project Close Out

TASK 1: PRE-CONSTRUCTION AND PROJECT MANAGEMENT SERVICES

1. **Project Management** - The Consultant shall provide for the coordination and management of the various tasks to fulfill the work. Project management effort includes Consultant staffing, oversight, budget and project schedule management. Consultant shall provide written monthly project status updates with each invoice.
2. **Coordination with City and Contractor** - Prior to the start of construction, the Consultant shall coordinate between the Contractor and City staff as necessary to prepare for construction. The Consultant shall also support the City with scheduling of critical construction activities between the Contractor and City staff to minimize impacts to plant operations during construction of the Project.
3. **Pre-Construction Meeting** - The Consultant shall schedule and attend a pre-construction meeting which shall include, but not be limited to, the Consultant, the City, the Contractor (and their major Subcontractors). During the Pre-Construction Meeting shall review and discuss any applicable procedures for contract administration as well as any other items deemed appropriate by the Consultant or the City. The meeting agenda and meeting minutes shall be prepared and distributed by the Consultant. The Project Manager, EOR or representative, and the inspector will be attending these meetings from the Consultant's side.
4. **Examination of Construction Schedules** - The Consultant shall examine and review monthly construction schedules, and updates thereof, submitted by any Contractor or supplier in connection with the construction of the Project. The Consultant shall advise the City in writing with respect to the adequacy and accuracy of any such schedules or updates. The level of effort included herein is anticipated for a twelve (12) month project period.
5. **Examination of the Schedule of Values** - The Consultant shall carefully review and examine the Contractor's Schedule of Values, together with any supporting documentation or data which the City or the Consultant may require from the Contractor. The purpose of such review and examination is to protect the City from an unbalanced Schedule of Values which allocates greater value to certain elements of the Work than is indicated by such supporting documentation or data, or than is reasonable under the circumstances. Consultant shall verify the Schedule of Values is consistent with the Bid Summary Sheet and Contract.

TASK 2: CONSTRUCTION PHASE SERVICES: ENGINEERING SERVICES AND LIMITED CONSTRUCTION ADMINISTRATION

1. **Shop Drawings and Submittals** - The Consultant (EOR or representative) shall review, examine, and approve, and take any necessary action upon, the Contractor's Shop Drawings, product data, samples, and other submittals. Approval by the Consultant of the Contractor's submittal shall constitute the Consultant's representation to the City that such submittal is in conformance with the Contract for Construction. Such action shall be taken with reasonable promptness to prevent any delay to the Contractor or the Project. As necessary, the City shall also provide commentary during the Shop Drawing submittal review process. The level of effort included herein is anticipated for approximately 10 technical submittals (assumed 2 hours per submittal) and 10 administrative or supporting documents. Each review cycle will be considered as a new submittal.. Additional, Consultant assumes one (1) alternative repair approach submittal if designed, signed and sealed by the Contractor's PE, and satisfies all requirements of the Construction Documents and applicable regulations. If such proposed alternative is acceptable, the Consultant shall not be responsible for the design and/or means of methods of such proposed alternatives which remain the responsibility solely of the Contractor's and Contractor's PE.

2. **Responses to Requests for Information (RFIs)** - The Consultant (EOR or representative) shall respond to Requests for Information (RFIs) submitted by the Contractor to provide interpretations and clarifications on the Construction Contract, the project plans, the project specifications, or other matters necessary for the Contractor to be able to satisfactorily perform the work. This effort anticipates one (1) RFI is submitted for each spiractor for a total of (12) RFIs for the spiractors and eight (8) for the Administration Building. The Consultant assumes 2 hours for each RFI review. The Consultant may issue responses to RFIs that do not affect cost, schedule, quality or utility operations. The Consultant must obtain written approval from the City if the interpretation or clarification of the Construction Documents will impact quality, operations, schedule or cost.

If requested by the City, the Consultant shall negotiate and document effort to prepare work directives and proposed change orders. Additional budget shall be allocated via amendment to WO if required. The Consultant shall issue no work directives or change orders without prior written approval of the City.

3. **Approval of Request for Payment** - The Consultant shall review each Contractor pay request and shall, with each pay request, recommend amounts due to the Contractor under the Contract for Construction predicated upon: information provided by the City's Inspector(s) (daily reports, photos, quantity measurements, etc.) to review payment applications., partial and final Releases of Liens as reported by the Contractor, evaluation of the Contractor's rate of progress in light of the remaining Contract time and upon evaluation of the Contractor's Request for Payment, and shall issue recommended approvals for Payment to the City in such amounts. The issuance of a recommended Approval for Payment shall constitute a representation by the Consultant to the City that the Consultant has made an inspection of the Work, and that the work completed by Contractor has progressed to the level indicated, that the quality of the Work meets or exceeds the requirements of the Contract for Construction, and that, to the best of the knowledge, information and informed belief of the Consultant, the Contractor is entitled to payment of the amount recommended for approval. The City shall be the final interpreter of the amount of payment. Request for Payments shall be reviewed by Consultant monthly for the duration of the Project.

4. **Review of Requests for Change Orders** – The Consultant shall provide support to the City in reviewing change order requests by the Contractor (assumed a maximum of 2 change orders for review). Consultant

shall provide recommendations to the City on how to proceed with the requests. However, the City shall be responsible for the final approval/denial of change order requests.

5. **Engineer-of-Record (EOR) Review of the Work** - The Consultant shall provide an Engineer-of-Record (EOR) who is a professional engineer licensed in the State of Florida to review shop drawings, submittals and RFIs indicated above. In addition, to supervise the inspection of the final repair/installation for each structure.

The designated representative working under the direct supervision of the EOR shall inspect the work of the Contractor prior to final acceptance for each structure. The purpose of such inspections shall be to determine whether the work is satisfactory and completed in accordance with Contract Documents.

Effort includes provisions for up to fifteen (15) site visits by the EOR representative during the work inclusive of the final acceptance. Following each such inspection the Consultant shall submit a written report of such inspection, together with any appropriate comments or recommendations, to the City. Furthermore, the Consultant shall require and review any and all tests required by laws, rules, regulations, ordinances, codes, orders or the Construction Documents and shall report in writing to the City the results thereof.

Limitations of Consultant and EOR's Authority. The Consultant shall not authorize any deviation from the Construction Documents or any substitution of materials or equipment unless first authorized in writing by both the Consultant and the City. The Consultant shall not undertake any of the responsibilities or duties of the Contractor, subcontractors, equipment suppliers, or others charged with construction of the Project. The Consultant shall not advise with respect to, or assume control over, any of the means, methods, techniques, sequences or procedures of construction unless such advice or control is specifically required by the Construction Documents.

6. **Special Inspections Testing by NOVA (subcontracted by Consultant)** – The City's Building Department requires Special Inspections as part of the Conditional Building Permit obtained by Consultant. Special Inspections structural welding non-destructive testing will be conducted by our subconsultant NOVA in accordance with their proposal included as part of **Exhibit B**, and as generally summarized below:

- a. 100% of the welding connections shall be (VT) Visually inspected.
- b. 10% of the visual inspected welding must be tested with (PT) Liquid Penetrant Testing or (MT) Magnetic Particle Testing

The Consultant's scope as part of the Special Inspection includes review of Reports prepared by NOVA, approval reports, and support City's Construction Manager with the Special Inspections required by the City's Building Department.

7. **Construction Progress Meetings** - The Consultant shall schedule and lead monthly progress meetings with the Contractor to review the progress of the Project or as otherwise necessary to protect the interest of the City. The City's designated project representative and/or inspectors responsible shall be in attendance as well as other assigned City staff. Staff from the Consultant shall participate virtually. One (1)-hour monthly progress meetings (virtual) (11 monthly progress meetings) have been assumed for the duration of the Project.

TASK 3: POST CONSTRUCTION SERVICES AND CLOSE-OUT

1. **Substantial and Final Completion** – The Consultant shall participate with the City, the City's inspector and Contractor in an inspection of the work (assumed 1 substantial completion inspection and 1 final completion inspection) and review of the punch-list of work required for Substantial and Final Completion. The Substantial and Final Completion walk-through shall be led by the City and the City's inspector/representative.

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The Consultant shall give an opinion regarding the status and adequacy of the work as it relates to conformance with the Contract Documents. Resolution of punch list items with the Contractor will be coordinated by the City and their inspector/representative with limited support from Consultant. Punch-list shall be prepared by the City's inspector/representative. The City will issue the substantial and final completion certificates with recommendations from the Consultant.

2. **Record Drawings (As-Builts)** - The Consultant shall review any Record Drawings furnished by the Contractor and update and/or shall incorporate as-built information on reproducible drawings and certify and submit to the City that said drawings are adequate, accurate and complete as provided by the Contractor. Record drawings will be provided to the City by the Consultant in electronic format (both CADD files and PDF formats) and one (1) signed and sealed hard copy for the Project.
3. **Final Reconciliation Change Order** - In the event of any discrepancies between the total contract fee and project schedule in the Construction Contract and the actual total fee paid to the Contractor or the actual project schedule, the Consultant shall prepare a final reconciliation change order. The final reconciliation change order shall address any discrepancies, ensuring that contractual obligations of the City to the Contractor are clearly shown to be satisfied in full.

ASSUMPTIONS AND BASIS OF CONSULTANT COMPENSATION

1. It is understood by all that the method of compensation for performance of the services described herein is time and materials with a not-to-exceed fee. The Consultant shall not provide services in excess of the not-to-exceed fee without prior authorization by the City. Should the City approve any changes to Contractor's construction schedule that extends the construction duration, the City agrees to also modify the Consultant's schedule and fees accordingly.
2. This proposal includes part-time inspection required as part of the design services during construction services (8-hour every other week for an inspector). Full-time inspection is not provided by the Consultant.
3. The level of effort included herein is anticipated for an 11-month construction period plus one (1) month for post-construction activities for a total Project duration of 12 months.
4. Services resulting from significant changes in the general scope, extent or character of the Project or its design, including but not limited to, major changes in the size, complexity, financing, or schedule of the Project are not included herein. However, such services may be undertaken with written approval by the City. Such services include the revision of any previously prepared studies, reports, design documents or Contract Documents when revisions are required as a result of changes in laws, rules, regulations, ordinances, codes or orders enacted subsequent to the preparation of such studies, reports or documents, or are due to any other causes beyond Consultant's reasonable control.
5. No additional survey work is required.
6. The City will pay for all associated permit and/or inspection fees required by the Building Department.
7. City staff shall attend progress meetings in person and be present on-site as may be required by the Building Department or to coordinate with the Contractor.
8. Contractor is responsible to obtain the City's Building Permit before starting the work.

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9. For the 40-year recertification of the Administration Building, the Inspection firm (Conemco) that prepared the original inspection, shall be contracted and coordinated with by the City separately to inspect the work performed.
10. Execution of this WO constitutes the City's written approval of Reimbursable Transportation expenses in accordance with Section 2.03 a) of the Agreement to provide for the Consultant's travel from Tampa to the Project site for our EOR to conduct the site visits and inspections identified in this WO.
11. The Consultant reserves the right to move budget between tasks, if necessary as long as it stays within the Not-to-Exceed Fee.

PERIOD OF PERFORMANCE/ PROJECT SCHEDULE

1. **Contract Time** - Upon receipt of a fully executed Authorization-to-Proceed (ATP) from the City, the Consultant shall commence services to the City and shall continuously perform services to the City, without interruption, in accordance with the time frames set forth in the project schedule in the Table 1 below. Should the City approve any changes to the Construction Schedule that extends the construction period, the City agrees to also modify the Consultant's schedule accordingly.
2. **Requests for Additional Time and/or Compensation** - In the event that the Contractor fails to substantially complete the Project on or before the substantial completion date specified in the Construction Contract or the Contractor is granted an extension of the time by the City to complete performance under the Construction Contract, and the Consultant's contract administration services are materially extended for a period beyond the project schedule as incorporated in Table 1, as a direct result thereof and through no fault of the Consultant, the Consultant shall be entitled to additional compensation and contract time. The amount of additional time and compensation due to the Consultant under this paragraph shall be pursuant to an approved amendment to this WO.

Table 1- PROJECT SCHEDULE

Task	Description	Task Completion In Calendar Days Following Authorization
1	Pre-Construction & WO Administration Services	360
2	Construction Phase Services	330
3	Post-Construction and Close Out Services	360

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BUDGET

Consultant shall perform the services for a total fee (Time and Materials Not-to-Exceed) of **\$349,648** based on the approved hourly rate schedule. The terms of compensation shall be in conformance with the Agreement dated October 31, 2023, between the City and Consultant. **Exhibit A** includes anticipated budget allocations for the tasks discussed herein.

TASK	FEE
Task 1 – Pre- Construction and WO Administration Services	\$71,510
Task 2 - Construction Phase Services	\$225,410
Task 3 - Post Construction and Closeout Services	\$42,670
Reimbursables Transportation – (Per Section 2.03 of the Agreement) from Tampa to Hollywood for SME/EOR inspections	\$7,558
Reimbursables – (Printing and Mail)	\$2,500
TOTAL NOT-TO-EXCEED FEE	<u>\$349,648</u>

Arcadis is excited about this opportunity to provide the design services during construction and limited construction administration services for this Project. Should you have any questions regarding this work order proposal, please do not hesitate to contact me.

Sincerely,

Arcadis U.S., Inc.



Jose Custodio, P.E.
Project Manager

Copies:

Plantation Files (Arcadis)

Leah Richter (Arcadis)

Enclosures:

Exhibit A - Detailed Fee Breakdown

Exhibit B – Fee Proposal from NOVA

This proposal and its contents shall not be duplicated, used or disclosed — in whole or in part — for any purpose other than to evaluate the proposal. This proposal is not intended to be binding or form the terms of a contract. The scope and price of this proposal will be superseded by the contract. If this proposal is accepted and a contract is awarded to Arcadis as a result of — or in connection with — the submission of this proposal, Arcadis and/or the client shall have the right to make appropriate revisions of its terms, including scope and price, for purposes of the contract. Further, client shall have the right to duplicate, use or disclose the data contained in this proposal only to the extent provided in the resulting contract.

EXHIBIT A

Work Break Down Fee Schedule

Project: Hollywood Water Treatment Plant Spiractors and Administration Building Repairs - Design Services During Construction and Limited Constuction Administration Services

TASK		CATEGORIES (ARCADIS)												
	Description	Senior Officer	Project Manager	Technical Expert	Principal Engineer	Project Engineer 5	Project Engineer 3	Lead Technician/Project Assistant	Administrative 2	Total Hours	Labor Fee	Other Direct Costs	Subconsultant (NOVA)	Total Labor + Other Service Fees
Task 1	Pre-Construction and Project Management Services	4	172	1	5	44	97		20	343	\$71,510			\$71,510.00
Task 2	Construction Phase Services: Engineering Services and Limited Construction Administration		80	144	22	244	575	52		1,117	\$205,410		\$20,000	\$225,410.00
Task 3	Post-Construction Services and Close-out		24	20	6	36	140	8		234	\$42,670			\$42,670.00
Totals		4	276	165	33	324	812	60	20	1,694	\$319,590	\$0	\$20,000	\$339,590.00
Approved Billing Rates - 2023 (\$/hr)		\$295	\$255	\$255	\$255	\$180	\$160	\$130	\$75					
SUBTOTAL 1													\$339,590.00	
Reimbursables Transportation (Per Section 2.03 of the Agreement for SME/EOR Inspections)													\$7,558.00	
Reimbursables (Printing and Mailing)													\$2,500.00	
TOTAL AUTHORIZED NOT-TO-EXCEED FEE													\$349,648.00	



August 2, 2024
Formerly November 4, 2022

Arcadis U.S., Inc.
150 S. Pine Island Rd, Suite 315
Plantation, FL 33324

Attention: Jose Custodio P.E.
Principal Water Engineer – Resilience Water

Subject: Proposal to Provide Special Inspection and Construction Materials Testing Services
Hollywood Water Treatment Plant - Spiractors Structural Repairs
3441 Hollywood Blvd.
Hollywood, FL 33021
NOVA Proposal Number 10101-1024188.rev

Mr. Custodio:

NOVA Engineering and Environmental, LLC (NOVA) appreciates the opportunity to submit this proposal to provide Special Inspection and Construction Materials Testing Services for the above referenced project. This proposal includes our understanding of the project based on the provided information, our proposed scope of services, fees and schedule, and method by which to authorize our services.

PROJECT INFORMATION

The project consists of the structural upgrade of the spiractors connection to foundation on the Hollywood Water treatment Plant. In total the water treatment plant has twelve spiractors with 6 connections on each one. The structural repair is comprised of adding a new 1 ¼" heavy hex coupling nut to the existing thread bolt, new thread rod is installed at top of the existing, supported with two (2) 5" dia. 1 ½" thick filler plates, a 3/8" plate washer and a heavy hex nut.

Welding connection shall be placed around the bottom filler plate to the existing base plate.

PROPOSED SCOPE OF WORK

NOVA proposes to provide testing and inspection services as required by the project specifications and/or requested by you. We have reviewed the plans provided on the file download site. All information was based on the structural drawings dated November, 2022. A detailed breakdown of the proposed scope of services to be provided, including fees is included herein.

STRUCTURAL WELDING NDT TESTING:

- 100% of the welding connections shall be (VT) Visually inspected.
- 10 % of the visual inspected welding must be tested with (PT) Liquid Penetrant Testing or (MT) Magnetic Particle Testing

Experienced Engineering Technician, Inspector or Engineering personnel will be assigned tasks as scheduled by our client and/or the contractor’s representative. Please note, we request that 24-hour notice be provided when scheduling our services so that we may efficiently coordinate our staff.

COMPENSATION

The estimated fees provided in this proposal are based on the anticipated effort, number of tests and inspections anticipated for the site. Proposed scope of services presented below as lump sum fees will be invoiced monthly based on estimated percent of completion. Inspection services will be invoiced based on the actual number of inspections performed in the field in accordance with the rates included below and in the attached Schedule of Fees.

STRUCTURAL WELDING NDT TESTING:

1) Engineering Tech. perform MT or PT test, est. 24 hrs. at \$95/hr.	\$ 2,280
2) Trip Charge, est. 12 trips at \$25/trip	\$ 300
3) Professional Engineer/Project Manager for 8 hours at \$150/hour	<u>\$ 1,200</u>
ESTIMATED SUBTOTAL	\$ 3,780

SPECIAL INSPECTIONS SERVICES:

1) Special Inspector, est. 18 Inspections at \$380/each	\$ 6,840
2) Trip Charge, est. 18 trips at \$25/trip	\$ 450
3) Professional Engineer/Project Manager for 6 hours at \$150/hour	<u>\$ 900</u>
ESTIMATED SUBTOTAL	\$ 8,190

SUMMARY OF ESTIMATED FEES:

Structural Welding NDT Testing	\$ 3,780
Special Inspections	<u>\$ 8,190</u>
ESTIMATED SUBTOTAL	\$ 8,940

Because the final fees for our services will be dependent on the contractor’s work schedule (which is yet to be determined) and deficiencies discovered in the work, it is not possible to develop a fee estimate that is 100% accurate. Additionally, there are events that can result in additional fees above the recommended budget and scope of services provided. Such events can include:

1. Retesting and/or re-observations of weak/components previously found deficient

2. Re-inspections associated with previously found deficient items and/or required partial inspections in accordance with the Florida Building Code as a result of the contractor's work sequencing,
3. Evaluating unsuitable soil conditions and/or groundwater concerns
4. Re-evaluating unstable soil conditions resulting from exposure to inclement weather and/or excessive construction traffic
5. Site and/or other meetings requested by design or construction team (beyond the estimates contained herein) to resolve issues related to construction deficiencies, changes in scope or other unforeseen items
6. Services provided prior to 7:00 am or after 5:00 pm Monday through Friday, and on Saturdays, Sundays, or holidays or beyond the durations assumed in our fee estimate
7. Overtime rates will be applicable for services performed outside normal working hours, over 8 hours per day, and on Saturdays, Sundays and holidays 1.5 times the standard hourly rate for engineers, inspectors and technicians
8. Excluded from our Estimated Fees, presented above, are Standby and Overtime. Standby time in excess of one (1) hour will be charged at a rate of \$65 per hour. Scheduled testing cancelled on site will be charged at \$55 per occurrence. These charges can be waived if scheduled testing is cancelled with at least four (4) hour notice in advance. Services required outside the normal work week will be charged in accordance with our Hourly Rates with a two-hour minimum charge per occurrence
9. Services provided above and beyond those detailed in this proposal.

Therefore, to keep Arcadis U.S., Inc. updated on the charges incurred and to provide a comparison of charges incurred versus budgeted funds, we will invoice monthly. Any deviations in tests or inspections performed, times or locations required to complete such tests/inspections, etc. will be clearly communicated.

We suggest that a contingency be added to the estimated budget to cover unforeseen costs, including partial inspections, re-test for deficiencies discovered during construction, overtime, etc.

Field reports will be provided daily to on-site personnel designated by you. Two sets of signed and sealed inspection will be submitted weekly to Arcadis U.S., Inc. and one set will be submitted to your respective building department. Electronic (PDF) copies of these reports will be e-mailed to all parties indicated by Arcadis U.S., Inc.

AUTHORIZATION OF SERVICES

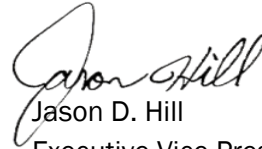
Please acknowledge your acceptance of this proposal and attached Terms & Conditions, which are considered an integral part of this contract, by signing below and returning a copy of this letter to either undersigned. If the standard general terms and conditions attached are determined to be in conflict with any provision of this proposal's text, then the text of the proposal itself shall govern in said instance, but the remaining provisions and sub-provisions included in the attached general terms and conditions shall not be affected thereby.

We would like to thank you for considering NOVA for your professional service needs, and we look forward to being of service.

Respectfully submitted,
NOVA Engineering & Environmental, LLC



Sandro Maldonado, P.E.
Structural Project Manager
Florida Registration No. 73057



Jason D. Hill
Executive Vice President

Attachment: Professional Acceptance Agreement
Form Schedule of Fees
NOVA General Terms and Conditions

**NOVA ENGINEERING AND ENVIRONMENTAL, LLC
 PROFESSIONAL ACCEPTANCE AGREEMENT FORM**

DATE: August 2, 2024	PROPOSAL NO.: 10101-1024188.rev
<i>PROJECT NAME AND ADDRESS</i> Hollywood Water Treatment Plant - Spiractors Structural Repairs 3441 Hollywood Blvd. Hollywood, FL 33021	<i>CLIENT NAME AND ADDRESS</i> Jose Custodio P.E. Arcadis U.S., Inc. 150 S. Pine Island Rd, Suite 315 Plantation, FL 33324 Phone: 787-246-7264 Email: jose.custodiohernandez@arcadis.com
Fee*:	
Structural Welding NDT Testing.....	\$ 3,780 <input type="checkbox"/>
Special Inspections.....	\$ 8,190 <input type="checkbox"/>
<i>*for complete pricing information, see text of proposal.</i>	

The attached General Terms and Conditions will govern during execution of this project. NOVA will invoice monthly and our payment terms are net 30 days. This proposal is valid for 90 days. If this proposal is acceptable, please sign and return this Professional Acceptance Agreement Form via facsimile to (954) 424-2580.

AUTHORIZED BY:	INVOICE TO:
Signature	Firm
Name	Name
Title	Address
Date	Fed Tax ID: Email Address:



SCHEDULE OF FEES

STRUCTURAL

CONCRETE & MASONRY SAMPLING & TESTING	PRICE	UNIT
Concrete/Masonry Technician (Field Sampling and Testing)	\$50.00	HR ⁽³⁾
Laboratory Curing, Preparation and Compressive Strength Testing:		
Concrete Compressive Testing (set of 4)	\$45.00	SET
Concrete Beams (Flexural Strength)	\$95.00	EA
Concrete Cores	\$55.00	EA ⁽¹⁾
Grout Cubes	\$10.00	EA
Block Compression Strength Test	\$95.00	EA
Block Absorption Test	\$95.00	EA
Block Prisms	\$95.00	EA
Grout Prisms (set of 4)	\$45.00	SET
Mortar Cubes (set of 6)	\$85.00	SET
Schmidt Hammer Test	\$65.00	HR ⁽³⁾
Windsor Probe Test (add \$15.00 Per Shot)	\$65.00	HR ⁽³⁾
Floor Flatness/Levelness	\$750.00	TRIP

STRUCTURAL STEEL AND ROOF TESTING AND INSPECTIONS

	PRICE	UNIT
Structural Steel Technician (CWI)	\$95.00	HR ⁽²⁾
Bolt Torque Testing	\$95.00	HR ⁽²⁾
Magnetic Particle Weld NDT	\$95.00	HR ⁽²⁾
Liquid Penetration Weld NDT	\$95.00	HR ⁽²⁾
Roof Pull Test TAS 105 and 106	\$115.00	HR ⁽²⁾

GEOTECHNICAL

SOILS AND ASPHALT SAMPLING & TESTING	PRICE	UNIT
Field Services:		
Technician	\$50.00	HR ⁽³⁾
Field Densities (Includes Field Technician time)	\$25.00	EA ⁽¹⁾
Dynamic Soil Penetrometer (Includes Field Technician)	\$75.00	EA ⁽¹⁾
SPT borings	\$19.50	Per LF
Hand auger borings	\$15.00	Per LF
UOHCH Percolation Test (15 ft deep)	\$650.00	EA
Laboratory Services:		
Moisture-Density Relationship (Standard Proctor)	\$125.00	EA
Moisture-Density Relationship (Modified Proctor)	\$125.00	EA
Limerock Bearing Ratio Test	\$350.00	EA
Sieve Analysis	\$65.00	EA
Organic Content Test	\$50.00	EA
Asphalt Cores (thickness & density)	\$75.00	EA ⁽¹⁾
Asphalt Extraction and Gradation	\$155.00	EA
Asphalt Marshall Stability & Flow	\$175.00	EA

INSPECTIONS, PROJECT MANAGEMENT & EXPENSES	PRICE	UNIT
Project Engineer/Professional	\$150.00	HR
Senior Engineer/ Technical Professional	\$175.00	HR
Staff Engineer/Professional	\$125.00	HR
Special Inspector Field Representative	\$85.00	HR ⁽²⁾
Private Provider Inspector Field Representative	\$95.00	HR ⁽²⁾
Plans Examiner	\$95.00	HR
Administrative Staff	\$55.00	HR
Direct Expenses (i.e. coring, surveying equipment, etc.)	Cost plus 15%	
Mileage	\$35.00	Per Trip

- (1) Minimum Charge of 4 tests per site visit
- (2) Minimum Charge of 4 hours per site visit
- (3) Minimum Charge of 2 hours per site visit

Note: In addition, a cancellation charge of 1 hour of the personnel time will apply to each scheduled site visit that is cancelled without a four (4) hour advance notice. Premium rate charges will be applicable for services performed outside normal working hours (7:00 a.m. to 5:00 p.m), over 8 hours per day, and on Saturdays, Sundays and holidays at 1.5 times the standard hourly rate for engineers, inspectors and technicians. Time will be billed in hourly increments.