

**CITY OF OAKLAND PARK
WORK AUTHORIZATION FOR PROFESSIONAL SERVICES**

CONSULTANT: Hazen and Sawyer, P. C.		
PROJECT MANAGER: Albert Carbon, P. E., Public Works Director		
Address: 4000 Hollywood Blvd, 750 N, North Tower, Hollywood FL 33021		
Contract No. R-2019-125	Work Authorization No:	
Agreement Description: Continuing Professional Services Contract	Resolution #: _____ (Required for expenditure \$25,000 or above)	
Effective Date: September 18, 2019	Effective Date: _____	
P.O. # For Work Authorization:	Budget <u>\$ N/A</u>	
Brief Task Description: Professional services are required for the surveying, paving, grading, drainage, electrical and stormwater pump station design, permitting, and bidding of the North Andrews Gardens Stormwater Pump Station and Pipeline Improvements project, Alternative 1. Refer to exhibit "A" for project limits.		
In accordance with the above referenced agreement, you are authorized to perform the tasks detailed in attached Exhibit A (Scope of Services). All required services shall be completed on or before: <u>See Exhibit "C"</u>		
The total amount or the limiting amount of the compensation shall be: <u>\$206,733</u> unless additional services are authorized by the CITY in writing. Hourly not to exceed (NTE) items shall be paid against detailed invoices describing the work performed, by whom, work dates and number of hours worked on project. Lump Sum (LS) items shall be paid based upon the percent of work that is actually complete.		
Compensation elements are as follows:		
Task	Method of Compensation	Amount (\$)
Task 1: Finalization of Preliminary Design (1.1 through 1.5)	-	
Task 1.1: Geotechnical Investigation and Report	Lump Sum	\$ 11,497
Task 1.2: Topographic Design Survey	Lump Sum	\$ 9,015
Task 1.3: Underground Utility Locations and Designations	Lump Sum	\$ 4,690
Task 1.4: Sketch and Legal Descriptions	Lump Sum	\$ 1,300
Task 1.5: Drainage Analysis	Lump Sum	\$ 16,558
Task 2: Detailed Design Development	Lump Sum	\$129,362
Task 3: Permitting Services	Lump Sum	\$ 16,522
Task 4: Meetings	Lump Sum	\$ 6,123
Task 5: Bidding Assistance	Lump Sum	\$ 8,611
Reimbursables	-	\$ 3,927
Total		\$206,733
Other Notes: This Work Authorization is subject to the same terms and conditions of the <u>Continuing Professional Services Contract</u> approved by the City Commission on September 18, 2019. Please acknowledge receipt of, and agreement with, this Work Authorization by signing and dating and returning two (2) original signed copies to the City Manager <u>via the appropriate Department Director</u>. The CITY shall send you one fully executed copy.		
CITY of OAKLAND PARK Approval:		


David Hebert, City Manager:*	_____	_____
	(Signature)	(Date)
Albert Carbon, Director Public Works Department	_____	_____
	(Signature)	(Date)
CONSULTANT Acceptance:		
____Janeen M. Wietgreffe, PE, PMP____ (Vice Pres/Hazen and Sawyer)	 (Signature)	10/11/2021 (Date)

Exhibit A

Description of Project

The City of Oakland Park (CITY) has requested the services of Hazen and Sawyer (CONSULTANT) to perform design through construction management services for the North Andrews Gardens Stormwater Pump Station and Pipeline Improvements project, Alternative 1. **Refer to Attachment “1” for project limits.**

The CITY intends to construct the project through the traditional design, bid, and construct process.

Scope of Services

The proposed scope of services and fees follow.

SPECIFIC SCOPE OF SERVICES

Task 1 – Finalization of Preliminary Design

Task 1.1 – Geotechnical Investigation and Report

CONSULTANT will employ the services of a professional geotechnical engineer in the State of Florida (GEOTECHNICAL SUBCONSULTANT) to perform geotechnical analyses of the proposed project site. GEOTECHNICAL SUBCONSULTANT will perform a geotechnical investigation as follows:

- Site Visit: GEOTECHNICAL SUBCONSULTANT will visit the project site to field stake the proposed boring and test locations and observe the existing site conditions.
- Existing Utility Locations: GEOTECHNICAL SUBCONSULTANT will perform underground utility clearance through Sunshine State One Call of Florida.
- Maintenance of Traffic: GEOTECHNICAL SUBCONSULTANT will obtain a Maintenance of Traffic (MOT) and Right-of-Way construction permit from the Florida Department of Transportation (FDOT) and implement MOT procedures utilizing traffic barricades, cones, and flaggers to the extent necessary and required for traffic control and safety purposes.
- Borings: GEOTECHNICAL SUBCONSULTANT will mobilize truck mounted drilling rig and crew to the project site and perform four (4) Standard Penetration Test (SPT) soil borings (ASTM D-1586); three (3) to depths of 15 feet and one (1) to depths of 50 feet.
- Sampling: Visually classify the collected soil samples in the field, with subsequent laboratory confirmation/QC verification of classifications using the Unified Soil Classification System (USCS) in general accordance with the visual-manual method of ASTM D 2488.
- Laboratory Testing: Assign laboratory testing of selected soil samples for index property determinations limited to moisture content, full sieve analysis, fines content, and organic content tests to assist in classifying the soils for engineering purposes (ASTM 2487).
- Report: GEOTECHNICAL SUBCONSULTANT will prepare and provide a written geotechnical report containing as a minimum the following items:
 - Overall site map showing the locations of soil borings.
 - Overall site and surface conditions.
 - Results of field exploration and soil laboratory testing.
 - Soil borings profiles showing soil identifications, depth, groundwater, and standard penetration “N-values”, and soil description.
 - Soil classification per Unified Soil Classification System (USCS).
 - Ground water level elevations (including seasonal fluctuation).
 - Permissible excavation slopes.
 - Suitability of excavated material for use as fill or backfill.
 - Locations and descriptions of any existing fill or potentially deleterious materials encountered that may interfere with construction progress or structure performance.
 - If extensive fill is required, include foundation options for either a constructed subgrade or deep foundation.
 - Lateral earth pressures and other soil parameters required for the design of below grade walls.
 - General considerations for temporary excavations as related to Occupational Safety and Health Administration regulations.
 - Pipeline bedding, backfill and compaction recommendations.

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- Recommendations for groundwater control during pipeline trenching.
- Structure foundation recommendations.
- Engineering recommendations for the following parameters: USCS, unit weight, dry unit weight, shear modulus, cohesion and internal friction angle, soil bearing capacity, and unconfined compressive strength.

Task 1.2 – Topographic Design Survey

CONSULTANT will employ the services of a professional land surveyor registered in the State of Florida (SURVEY SUBCONSULTANT) to perform surveying services of the proposed project site. SURVEY SUBCONSULTANT will perform surveying services as follows:

- Prepare a topographic survey of a 50' corridor lying 25' on each side of the proposed pipe, to be installed within the I-95 corridor and residential neighborhood.
- Locate above-ground visible improvements (i.e. pavement, slabs, signs, pavement striping, fences and utility features) within the site boundary.
- Obtain as-built information for sanitary and storm sewer structures within, and adjacent to the site area. As-built information to include rim elevation invert elevation of pipes along with pipe sizes and material.
- Trees with a trunk diameter of three (3) inches and greater at for (4) feet above ground, will be located and shown on the survey drawings and will include tree type and size.
- Elevations will be shown sufficient for engineering design and will include cross-section elevations along the pipe route, at approximately 50' stations. Where the 50' corridor is adjacent to the right-of-way line, the locations and topographic elevations will be extended 10' (+/-) into the adjacent property, as permitted by the property owners, and can be done safely by the crew in the field. Elevations will be relative to the National Geodetic Vertical Datum of 1929 (NGVD29), and based on National Geodetic Survey (NGS), or Florida Department of Transportation (FDOT) benchmarks. A note will be shown on all pages, showing in graphic detail, the conversion from NGVD29 to the North American Vertical Datum of 1988 (NAVD88). Horizontal datum will be based on the North American Datum of 1983 (NAD83/99), Florida State Plane Coordinate system, Florida East Zone, scaled to ground.
- The survey drawing will include the right-of-way lines, platted lot lines adjacent to the site, as well as platted easements within the site boundaries. Our SUBCONSULTANT will also research the Broward County Property Appraiser website to identify and label on the drawing, the adjacent property owners.
- SURVEY SUBCONSULTANT will calculate and plot a construction baseline on the survey drawing and will monument in the field the beginning, middle and end of the baseline.
- SURVEY SUBCONSULTANT will also establish two (2) semi-permanent benchmarks on, or immediately adjacent to the site, for future use.

Task 1.3 – Underground Utility Locations and Designations

SURVEY SUBCONSULTANT will engage the services of an underground utility location contractor to perform research and coordination with utility companies, and to perform locations and designations of underground utilities

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within the project limits. SURVEY SUBCONSULTANT will coordinate with the CITY Park to integrate available information that the CITY may have in their GIS database, for utility designations.

SURVEY SUBCONSULTANT will locate and plot on sketch those paint marks designating underground utilities as marked by underground utility location contractor above. This information will be shown on the survey drawing.

Included in this task, SURVEY SUBCONSULTANT will perform up to ten (10) test holes at areas..

Task 1.4 – Sketch and Legal Descriptions

SURVEY SUBCONSULTANT will prepare one (1) sketch and legal description of the area to be used as a temporary construction easement, as designated by the City and using the as-built information of the newly installed pipe and structures, will prepare one (1) sketch and legal description of said improvements to be used for recordation with the County.

Task 1.5 – Drainage Analysis

CONSULTANT will perform a stormwater drainage analysis for the project to help confirm no negative impacts to the existing FDOT stormwater system will occur as a result of the stormwater improvements proposed by this project. Included in this task COUNSULTANT will review existing modeling information on file with the FDOT and amend the model to include the proposed improvements. The model will run both the 10 year, one-day and 25 year, three-day storm events for the proposed improvements and its impacts on the existing system will be documented. A letter report detailing the findings of the analysis will be provided at the conclusion of this task.”

Task 1 Deliverables:

CONSULTANT will provide the following for the CITY:

1. Geotechnical Data Report: CONSULTANT will submit an electronic copy of the geotechnical data report integrated with the plans and specifications as the deliverable for (Task 1.1).
2. Topographic Design Survey: CONSULTANT will submit an electronic copy of the specific purpose topographical survey integrated with the plans and specifications as the deliverable for (Task 1.2)
3. Underground Utility Designation: CONSULTANT will submit an electronic copy of the specific purpose topographical survey integrated with the plans and specifications as the deliverable for (Task 1.3)
4. Sketch and Legal Descriptions: CONSULTANT will submit an electronic copy of the sketch and legal descriptions, one each, as the deliverable for (Task 1.4)
5. Drainage Analysis Report: CONSULTANT will submit an electronic copy of the drainage analysis report as the deliverable for (Task 1.5).

Task 2 – Detailed Design Development

CONSULTANT will prepare the drawings and specifications needed for construction. To the extent practicable, the CITY’s Standard Front End Documents and Standard Details will be utilized in compiling the Contract Documents.

CONSULTANT will address the following design elements in the construction documents:

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- Plans and details associated with the construction of a 6 cfs duplex stormwater pump station, pump station wetwell, hydrodynamic separator structure, and valve vault.
- Plans, profile views, and details associated with the stormwater piping.

The design will be based on Alternative 1 developed in the January 2017 North Andrews Gardens North Basin Outfall report for the proposed pump station.

A 50% complete set of construction drawings and list of specifications will be submitted to the CITY for review and comment. CONSULTANT will meet with CITY representatives to discuss recommendations and to receive CITY comments.

Upon receipt of comments from the CITY, CONSULTANT will proceed with the final contract documents. A 100% complete set of construction documents will be submitted to the CITY for review and comment. CONSULTANT will meet with CITY representatives to discuss recommendations and to receive CITY comments.

CONSULTANT will prepare an Engineers Opinion of Probable Construction Cost (OPCC) at the 50% design level and at the 100% design level. Both OPCC's will be submitted electronically for review after the design milestone deliverable is submitted.

Task 2 Deliverables:

CONSULTANT will provide the following to the CITY:

1. Preliminary (50%) Construction Documents: One (1) electronic version of the plans and List of Specifications will be provided
2. 50% Level OPCC: Two (2) hard copies and one (1) electronic version of the OPCC will be provided.
3. Final (100%) Construction Documents: One (1) electronic version of the plans and Technical Specifications will be provided, in both .pdf format.
4. 100% Level OPCC: One (1) electronic version of the will be provided.

Task 3 – Permitting Services

CONSULTANT will apply for and obtain applicable permits required for construction of the proposed improvements and will respond to requests for additional information submitted by the regulatory agencies.

- FDOT Utility permit
- South Florida Water Management District (SFWMD) Environmental Resource Permit (ERP) Modification
- CITY Engineering/Utilities Department permit (permit will not be obtained, but review process will be started)
- CITY Building Department permit (permit will not be obtained, but review process will be started)

Task 3 Deliverables:

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CONSULTANT will provide the following to the CITY:

1. Permit Applications: CONSULTANT will submit to the CITY the permit applications listed below for signature (as required).
 - CITY Engineering/Utilities Department permit
 - CITY Building Department permit
 - BCEPGMD ERP and SWM Modification
 - FDOT Utility permit
2. Responses to Requests for Additional Information (RAIs): CONSULTANT will respond to up to two RAIs from each agency listed above and copy the CITY on correspondence.

Task 4 – Meetings

CONSULTANT will hold multiple meetings with the CITY during the design of the described improvements. The anticipated meetings are listed below;

- Kickoff meeting to discuss the project details
- Meeting to review 50% design submittal materials
- Meeting to review 100% design submittal materials

Task 4 Deliverables:

CONSULTANT will provide the following for the CITY:

1. Meeting Minutes: CONSULTANT will submit an electronic copy of the meeting minutes for each meeting held above.

Task 5 – Bidding Assistance

The purpose of this task is to provide bidding and award services as described below.

- **Preparation of Final Bid Documents:** CONSULTANT will make final revisions to the documents based on review comments received by the CITY's Purchasing Department. CONSULTANT will provide one (1) electronic PDF copy of the drawings and specifications to the CITY. It is anticipated that the CITY will prepare all documentation required to support the Front-End for the bid package.
- **Pre-Bid Conference and Job Walk Through:** CONSULTANT will attend one pre-bid conference and job walk through prior to the advertised date.
- **Respond to Bidder Questions and Issue Addenda:** CONSULTANT will provide responses to bidder questions to the CITY's Purchasing Department for uploading to BidSync. Where required, CONSULTANT will provide written addenda to the Contract Documents for distribution through BidSync.
- **Conformed Documents:** CONSULTANT will prepare conformed documents for the bid package. The conformed documents will incorporate addenda issued as well as the executed contract into a final set of construction documents.

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Task 5 Deliverables:

CONSULTANT will provide the following to the CITY:

1. One (1) electronic (pdf) copy of the Bid Documents
2. One (1) electronic (pdf) copy of addenda
3. Conformed Drawings and Specifications: Five (5) 22" x 34" hard copy plans, five (5) 11" x 17" hard copy plans will be provided. One (1) electronic version of the plans and Technical Specifications will also be provided.

Assumptions:

1. CITY is responsible for all Front End (Division 0) documentation, including preparation of specific forms required for web based bid service.
2. The CITY will provide all available record drawings in PDF format of existing CITY owned utilities within the vicinity of the proposed force main alignment.
3. The CITY shall modify existing easement(s) or acquisition of a new easement for any portion of the land parcel, located outside the current utility easement owned by the CITY.
4. Public information and/or attendance at stakeholder meetings are not included as part of this scope of work.
5. All permit fees shall be paid by CITY.
6. This scope of services does not include time for CONSULTANT to assist in the event of a bid protest.

PURSUANT TO SECTION 558.0035, FLORIDA STATUTES, A DESIGN PROFESSIONAL WHO IS AN INDIVIDUAL EMPLOYEE OR AGENT OF CONSULTANT MAY NOT BE HELD INDIVIDUALLY LIABLE FOR NEGLIGENCE OCCURRING WITHIN THE COURSE AND SCOPE OF THIS CONTRACT.

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Exhibit B
Work Authorization Terms

All terms and conditions shall be in conformance with the Agreement between the City of Oakland Park and Hazen Sawyer, dated September 18, 2019.

1. AUTHORIZATION TO PROCEED

Signing this Agreement shall be construed as authorization by the City of Oakland Park (City) for Hazen Sawyer (CONSULTANT) to proceed with the Services, unless otherwise provided for in this Agreement. The terms and conditions of the contract between the City, and CONSULTANT govern this Work Authorization.

2. LUMP SUM

Lump sum compensation is calculated by reference to hourly schedule included in the executed contract and estimated hours provided to the City during negotiation. Actual hourly charges by classification against the lump sum may vary from the original estimated hours based on workload demands and other factors; however, the lump sum amount of the contract shall not change unless the project scope changes.

3. DIRECT EXPENSES

Direct Expenses (Reimbursable) shall be those costs incurred on or directly for the City's Project, including but not limited to necessary transportation costs including mileage at current rate when its automobiles are used, meals and lodging, laboratory tests and analyses, computer services, word processing services, telephone, printing and binding charges. Reimbursement for these EXPENSES shall be on the basis of actual charges when furnished by commercial sources and on the basis of usual commercial charges when furnished by CONSULTANT.

4. SCOPE CHANGES

In the event that CONSULTANT believes that work outside of the scope of this contract has been requested or must be undertaken, CONSULTANT shall notify the City Project Manager in writing prior to performing the additional work. The City and CONSULTANT shall meet to address the Additional Services Request within one week of notification. If it is agreed that additional services are warranted, the City and CONSULTANT shall attempt to have the request placed on the next available City Commission agenda. CONSULTANT shall begin work after Commission approval; however, if time constraints dictate quicker action, CONSULTANT shall undertake the additional work after coming to agreement with the City during the initial meeting with regards to the specific additional services.

5. COST ESTIMATES

Any cost estimates provided by CONSULTANT shall be on a basis of experience and judgment. Since CONSULTANT has no control over market conditions or bidding procedures, CONSULTANT does not warrant that bids or ultimate construction costs shall not vary from these cost estimates.

6. PROFESSIONAL STANDARDS

CONSULTANT shall be responsible, to the level of competency presently maintained by other practicing professionals in the same type of work in South Florida, for the professional and technical soundness, accuracy, and adequacy of all design, drawings, specifications, and other work and materials furnished under this Agreement. CONSULTANT makes no warranty, expressed or implied.

7. COMPENSATION SCHEDULE

CONSULTANT shall invoice the City on a monthly basis for services rendered the previous month. After receipt the City shall notify CONSULTANT within ten (10) days of any discrepancies or disputed items. If the invoice is acceptable, the City agrees to pay CONSULTANT within thirty (30) days of date of invoice.

8. LIMITATION OF LIABILITY

CONSULTANT's liability to the City shall be based on the terms of the Contract

9. TERMINATION

Either City or CONSULTANT may terminate this Agreement by giving 30 days' written notice to the other party. In such an event the City shall forthwith pay CONSULTANT in full for all work previously authorized and performed prior to effective date of termination. If no notice of termination is given, relationships and obligations created by this Agreement shall be terminated upon completion of all applicable requirements of the Contract Agreement. All requirements of Section 19 of the contract shall apply to this contract.

10. ASSIGNMENT TO RELATED ENTITY

Requirements of Section 16, of the agreement apply to this section.

11. SEVERABILITY

In case any one or more of the provisions contained in this Agreement shall be held illegal, the enforceability of the remaining provisions contained herein shall not be impaired thereby

12. INFORMATION PROVIDED BY CLIENT

Permit application fees.

13. SCOPE OF SERVICES

The scope of services is limited by the specific terms of this proposal. Except as stated specifically herein, no other service shall be provided except as "extra work", subject to the fees hereinafter set forth. The terms hereof shall be construed in favor of the firm and all inferences and implications shall be deemed to be for the benefit of the firm.

In reviewing this proposal for professional services, it should be understood that the proposal items and their corresponding fees do not necessarily represent the full scope of services required for the project. Rather, it represents our best effort to set forth those services which we believe to be those requested by you, the Client, and/or those we can determine to be needed to accomplish a particular objective. However, we recognize and we ask that the Client recognize that as a project progresses the scope of service as originally defined may change in content to include work not initially identified. Several factors shall cause this to happen:

1. Better understanding of the project and the Client's goals as progress on the project is made.
2. Additional requirements identified by the Client.

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3. New laws or governmental agency requirements.

As these influences occur and are identified, we shall advise you of same and seek your direction as to how you wish to proceed. Work required as a result of the above shall be "extra work" outside of the original scope of services. Upon your direction, we shall perform the work under the "Hourly Fee Schedule" section of this proposal or we can provide you with a separate proposal should the scope so indicate.

14. FEES

The Fees set forth above are applicable for a period of six (6) months from the date of this proposal. If the work on any item to which a lump sum fee shall apply is not commenced within said period, the firm reserves the right to terminate this Agreement as it relates to said item. If the work is initiated but not concluded within said period, regardless of the reason therefore, the balance of the fee due shall be increased at the rate of one percent (1%) per month for each month the work continues until the work is complete. No prior notice of such adjustment shall be required.

15. PERMITS AND APPROVALS

The permits and agency approvals mentioned above are those known to us to be required for projects of this kind, and we shall apply for them as indicated. However, our experience has shown us that agencies and regulatory authorities do not always communicate new regulations and legislation properly and that the enforcement of policies can vary. The Client is therefore cautioned that additional permits or approvals other than those presently identified may be required. Should this arise, we shall notify you and respond promptly to the requirement.

16. CONSTRUCTION REQUIREMENTS

At the time that the firm is authorized by you to perform professional engineering services involving design plans and permit requiring approval by governmental agencies, the firm shall be required to provide certificates of compliance to those agencies with regard to the performance of certain aspects of the work, which performance shall be rendered by others. It shall be necessary, therefore, for the firm to perform full-time observation regarding some items and to make periodic site visits for other items to determine whether or not the improvements are in "substantial compliance" with the relevant contract documents.

It shall be the City's responsibility to notify CONSULTANT of the commencement of any work so that the firm may perform the necessary inspections and observations. The amount of time required for such inspections and observations and for the completion of the applicable certifications shall be dictated by the performance of the contractor. Moreover, and in addition to the required site visits, the firm must also prepare and review the as-built drawings during and at the end of the construction period. All of the services described in this paragraph constitute "extra work", unless otherwise specifically set forth in the "Scope of Services". The cost of providing these services is not included in the Lump Sum fee, unless specifically indicated.

The firm shall not be responsible for the quality or quantity of the work, the execution thereof, the techniques or sequences of construction, the safety and security of the project or the maintenance thereof. The firm is not a guarantor or insurer of the work of others and assumes no duty in connection therewith. In performing the services required of it, the firm shall use that degree of care and skill ordinarily exercised, under similar circumstances, by reputable members of its profession practicing in the same or similar locality. No other warranty, express or implied, is made or intended by the firm by virtue of the undertakings or of its performance of the service hereunder. Absent bad faith in the performance of the work hereunder, the firm shall not be liable for any damages resulting from misfeasance in the performance of any work with regard to the project. No person other than you shall have the right to rely on the expertise of the firm or the performance of the matters set forth herein. The firm reserves the right to record a memorandum hereof in the public records of the County.

The above stated services are the minimum level of services that the firm is obligated to perform. The firm currently provides a complete range of construction-related services which it shall be happy to discuss with you at the time that your project is ready for construction.

17. PERMIT FEES; APPLICATION FEES; OUTSIDE CONSULTANT FEES

The service fees set forth herein do not include the payment of governmental agency submittal fees, review fees or permit fees, or any other charges assessed by said agencies. Further, the service fees do not include the cost of services provided by others. These fees shall be paid for by the Client. Should our firm find it absolutely necessary to advance fees for the Client, said fees shall be reimbursed along with a service and handling fee upon receipt of the invoice for same.

18. CLIENT'S RESPONSIBILITIES

1. The Client shall provide full information regarding requirements for the project including a program, which shall set forth the design objectives, constraints and expendability, special equipment and systems and site requirements.
2. The Client shall furnish the services of soil engineers or other consultants when such services are deemed necessary. Such services shall include test borings, test pits, soil bearing values, percolation tests, air and water pollution tests, ground corrosion and resistivity tests, including necessary operations for determining subsoil, air and water conditions, with reports and appropriate professional recommendations.
3. The Client shall furnish structural, mechanical, chemical and other laboratory tests, inspections and reports as required by law or the Contract Documents.
4. The Client shall furnish a Legal Description of the property and the appropriate Title Information.
5. The Client shall execute all permit applications. As "Permittee", or "applicant" or "holder", Owner shall be responsible for complying with the conditions of all permits issued. In particular, Client shall be responsible for the safety of the General Public during construction.

Exhibit C
Preliminary Project Schedule

DELIVERY SCHEDULE

The Project as delineated in this scope of services is estimated to be completed within 420 days after Notice to Proceed. Please refer to the attached project schedule.

Task	Estimated Completion Time in Days	
	Schedule	From NTP
Task 1: Finalization of Preliminary Design	90	90
Task 2: Detailed Design Development	150	240
Task 3: Permitting Services	90	330
Task 4: Meetings	330	330
Task 5: Bidding Assistance	90	420

Exhibit D
Staff Time Estimate

Please refer to the attached fee estimate.

Task No.	Task Title	Estimated Consultant Fees
1	Finalization of Preliminary Design	(1.1 through 1.5 below)
1.1	Geotechnical Investigation and Report	\$ 11,497
1.2	Topographic Design Survey	\$ 9,015
1.3	Underground Utility Locations and Designations	\$ 4,690
1.4	Sketch and Legal Descriptions	\$ 1,300
1.5	Drainage Analysis	\$ 16,558
2	Detailed Design Development	\$129,362
3	Permitting Services	\$ 16,522
4	Meetings	\$ 6,123
5	Bidding Assistance	\$ 8,611
REIMBURSABLES		\$3,055
TOTAL (Lump Sum)		\$206,733