

July 21, 2020

Mr. Clece Aurelus, P.E.  
Engineering Support Service Manager  
City of Hollywood, Department of Public Utilities  
1621 N. 14<sup>th</sup> Avenue  
Hollywood, Florida 33022

**RE: FEMA GENERATORS  
SANITARY SEWER LIFT STATION E1 GENERATOR  
SANITARY SEWER LIFT STATION W14 GENERATOR  
SANITARY SEWER LIFT STATION W15 GENERATOR  
CTA PROPOSAL NO. 2020-S04.218**

Dear Mr. Aurelus:

We are pleased to submit this proposal for Professional Consulting Services in connection with the Lift Station E1 / Station W14 / Lift Station W15 Emergency Generator installation projects. The proposed work will include raising the new generator above the FEMA flood stage for the 500-year storm event. Specifically, our proposed scope of services and fees are as follows:

**SANITARY SEWER LIFT STATION E1 GENERATOR**

**I. SURVEYING SERVICES**

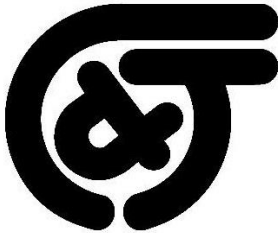
**1.1 Boundary and Topographic Survey (CTA Task No. 11020)**

Prepare a Boundary and topographic survey of Lot 20, Block A, of "HOLLYWOOD BEACH FIRST ADDITION", according to the plat thereof as recorded in Plat Book 1, Page 31, of the Public Records of Broward County, Florida. The Survey will meet current surveying requirements of the Board of Professional Surveyors and Mappers of the State of Florida, as outlined in Chapter 5J-17 of the Florida Administrative Code. The boundary survey will include recovery and/or setting of property boundary monumentation and above-ground visible improvements (i.e., buildings, pavement, slabs, fences, signs, trees and utility features), within the property boundary and up to the edge of pavement of A1A (Ocean Drive). Elevations will be taken at regular intervals within the site and include the Finish Floor of the building, slabs, pavement, sidewalk, and bulkhead cap. Elevation certificate will be provided for generator elevation. All elevations will be relative to North American Vertical Datum of 1988 (NAVD88) and based on Florida Department of Transportation (FDOT), or National Geodetic Survey (NGS) Benchmarks. Final delivery will be five (5) signed and sealed hard copies of the Survey, plus an AutoCAD Civil 3D 2019 drawing file in ".dwg" format.

*Lump Sum.....\$5,137.92*

***Approximate time of completion: three - four (3-4) weeks, after receipt of Notice to Proceed (weather permitting).***

**CRAIG THOMPSON**



**& ASSOCIATES INC.**

Engineers  
Planners  
Surveyors  
Landscape Architects

3563 NW 53<sup>rd</sup> Street  
Fort Lauderdale, FL 33309-6311  
Phone: (954) 739-6400  
Fax: (954) 739-6409

## II. ENGINEERING SERVICES - CIVIL - ELECTRICAL - STRUCTURAL DESIGN

### 2.1 Civil Site Engineering (CTA Task No. 31025)

Prepare miscellaneous site improvement plans for the proposed works including grading and pavement improvements. Task also includes meeting with City and coordination with FEMA regarding plan preparation and approval process. Task includes one (1) electronic set of plans, technical specifications, probable cost estimates for 50%, 90%, 100% reviews and bid assistance.

*Lump Sum..... \$7,545.60*

### 2.2 Electrical Engineering (Provided by Hillers Electrical Engineering)

Task includes design coordination meetings visits with City, FPL and CTA and design of new stand-by generator system with new automatic transfer switch for the existing pump station. Task also includes relocation all electrical & control systems required to meet FEMA standards. Hillers shall provide one (1) electronic set of plans, technical specifications, probable cost estimates for 50%, 90%, 100% reviews and bidding assistance.

*Lump Sum..... \$22,415.00*

### 2.3 Structural Engineering (Provided by TRC Worldwide Engineering)

Provide structural analysis and design of platform and foundation for a new generator located at the rear of the property. Task includes one (1) electronic set of plans, technical specifications, probable cost estimates for 50%, 90%, 100% reviews and bid assistance and coordination with City and Electrical Engineer.

*Lump Sum..... \$11,500.00*

### 2.4 Geotechnical Engineering (Provided by Tierra South Florida)

Perform one (1) soil boring eight (8') feet deep along the Intracoastal Waterway side of the Site, including analysis of findings.

*Lump Sum..... \$2,100.00*

### 2.5 Prepare and Process On-site Engineering Permit Applications (CTA Task No. 31080)

Prepare and process permit applications and supporting documents through appropriate state and local agencies including:

- Broward County Environmental Protection and Growth Management Department - Wastewater
- Florida Department of Environmental Protection - Wastewater
- City of Hollywood
- FDOT
- Assist Contractor with Building Department Permit

City of Hollywood will provide all necessary reports/documents/modeling data required to secure wastewater permits from BCP&GMD and FDEP.

*Lump Sum..... \$5,103.36*

**III. CONSTRUCTION OBSERVATION SERVICES**

**3.1 Limited Construction Observation (CTA Task No. 31120)**

Attend pre-construction meeting with the Contractor; review and approve shop drawings, provide responses to RFI's, attend progress meetings and perform general periodic site reviews as required to determine, in general, if the work is being performed in a manner that when completed it will be in accordance with the contract documents. Site visits are anticipated to be a total of three (3) per week for a total of (24) visits for the Project. Construction is estimated to last two (2) months, (8 weeks) for all disciplines. Review record drawings prepared by Contractor; attend final walkthrough with Contractor; review final punch list, and prepare Statement of Completion of construction documents. City of Hollywood will provide the majority of the inspections and reports necessary for certification.

Construction services include: shop drawing reviews & approvals, RFI - Responses, four (4) periodic site visits during construction, review of electrical pay requests, one (1) Start-up / Testing and one (1) Final Inspection.

*Hourly, Not-to-Exceed.....\$23,473.80*

**IV. REIMBURSABLE EXPENSES**

**4.1 Reimbursable Expenses (CTA Task No. XPEN)**

Reimbursable expenses shall include printing, mylars, copying, postage, photographic services, Federal Express and courier services.

*Budget, Estimate.....\$500.00*

**V. CONTINGENCY**

**5.1 Contingency**

Contingency allowance shall be as directed by the City for additional services not identified within the Project Scope. No work shall take place under this Task without authorization from the City.

*Allowance.....\$10,000.00*

**FEE SUMMARY - SANITARY SEWER LIFT STATION E1 GENERATOR**

**SURVEYING, ENGINEERING AND CONSTRUCTION OBSERVATION SERVICES .....\$77,275.68**  
**REIMBURSABLES & CONTINGENCY .....\$10,500.00**  
**SUB- TOTAL .....\$87,775.68**

**PROJECT SCHEDULE**

**Authorization to Proceed to Bid Advertisement ..... 6 Months**

## **SANITARY SEWER LIFT STATION W14 GENERATOR**

### **VI. SURVEYING SERVICES**

6.1 **Topographic Survey** (CTA Task No. 11050)

Prepare an updated topographic survey of the area occupied by Master Lift Station W-14 as defined by the City of Hollywood. The survey will meet all of the current surveying requirements of the Board of Professional Surveyors and Mappers of the State of Florida. The survey to include the recovery of W-14 Site property boundary monumentation to tie down the Lift Station and its associated amenities; location of aboveground visible improvements (i.e., pavement, slabs, trees, and utility features) on site only. Topographic elevations along the south side of the W-14 Structure to the Alley. We will also establish two semi-permanent benchmarks on or immediately adjacent to the site for future use, if necessary. All elevations collected will be relative to North American Vertical Datum of 1988 (NAVD88) and based on National Geodetic Survey (NGS) or Florida Department of Transportation (FDOT) Benchmarks.

*Lump Sum..... \$3,513.60*

**Note: Approximate time of completion: Two - Three (2-3) weeks after receipt of Notice to Proceed (weather permitting).**

### **VII. ENGINEERING SERVICES - CIVIL - ELECTRICAL - STRUCTURAL DESIGN**

7.1 **Civil Site Engineering** (CTA Task No. 31025)

Prepare miscellaneous site improvement plans for the proposed works including grading and pavement improvements. Task also includes meeting with City and coordination with FEMA regarding plan preparation and approval process. Task includes one (1) electronic set of plans, technical specifications, probable cost estimates for 50%, 90%, 100% reviews and bid assistance.

*Lump Sum..... \$9,570.24*

7.2 **Electrical Engineering (Provided by Hillers Electrical Engineering)**

Task includes design coordination meetings visits with City, FPL and CTA and design of new stand-by generator system with new automatic transfer switch for the existing pump station. Task also includes relocation all electrical & control systems required to meet FEMA standards. Hillers shall provide one (1) electronic set of plans, technical specifications, probable cost estimates for 50%, 90%, 100% reviews and bidding assistance.

*Lump Sum..... \$12,000.00*

7.3 **Structural Engineering (Provided by TRC Worldwide Engineering)**

Provide structural analysis and design of platform and foundation for a new generator located at the rear of the property. Task includes one (1) electronic set of plans, technical specifications, probable cost estimates for 50%, 90%, 100% reviews and bid assistance and coordination with City and Electrical Engineer.

*Lump Sum..... \$3,500.00*

7.4 Geotechnical Engineering (Provided by Tierra South Florida)

Perform one (1) soil boring eight (8') feet deep along the Intracoastal Waterway side of the Site, including analysis of findings.

*Lump Sum..... \$2,000.00*

7.5 Prepare and Process On-site Engineering Permit Applications (CTA Task No. 31080)

Prepare and process permit applications and supporting documents through appropriate state and local agencies including:

- Broward County Environmental Protection and Growth Management Department - Wastewater
- Florida Department of Environmental Protection - Wastewater
- City of Hollywood
- Assist Contractor with Building Department Permit

City of Hollywood will provide all necessary reports/documents/modeling data required to secure wastewater permits from BCEP&GMD and FDEP.

*Lump Sum..... \$5,358.72*

**VIII. CONSTRUCTION OBSERVATION SERVICES**

8.1 Limited Construction Observation (CTA Task No. 31120)

Attend pre-construction meeting with the Contractor; review and approve shop drawings, provide responses to RFI's, attend progress meetings and perform general periodic site reviews as required to determine, in general, if the work is being performed in a manner that when completed it will be in accordance with the contract documents. Site visits are anticipated to be a total of three (3) per week for a total of (24) visits for the Project. Construction is estimated to last two (2) months, (8 weeks) for all disciplines. Review record drawings prepared by Contractor; attend final walkthrough with Contractor; review final punch list, and prepare Statement of Completion of construction documents. City of Hollywood will provide the majority of the inspections and reports necessary for certification.

Construction services include: shop drawing reviews & approvals, RFI - Responses, four (4) periodic site visits during construction, review of electrical pay requests, one (1) Start-up / Testing and one (1) Final Inspection.

*Hourly, Not-to-Exceed..... \$16,386.56*

**IX. REIMBURSABLE EXPENSES**

9.1 Reimbursable Expenses (CTA Task No. XPEN)

Reimbursable expenses shall include printing, mylars, copying, postage, photographic services, Federal Express and courier services.

*Budget, Estimate..... \$500.00*

**X. CONTINGENCY**

10.1 Contingency

Contingency allowance shall be as directed by the City for additional services not identified within the Project Scope. No work shall take place under this Task without authorization from the City.

*Allowance..... \$10,000.00*

**FEE SUMMARY - SANITARY SEWER LIFT STATION W14 GENERATOR**

SURVEYING, ENGINEERING AND CONSTRUCTION OBSERVATION SERVICES .....	\$52,329.12
REIMBURSABLES & CONTINGENCY .....	\$10,500.00
TOTAL .....	\$62,829.12

**PROJECT SCHEDULE**

Authorization to Proceed to Bid Advertisement ..... 6 Months

## **SANITARY SEWER LIFT STATION W15 GENERATOR**

### **XI. SURVEYING SERVICES**

#### **11.1 Topographic Survey (CTA Task No. 11050)**

Prepare a topographic survey of the area occupied by Master Lift Station W-15 as defined by the City of Hollywood as delineated in the attached Exhibit 'A'. The survey will meet all of the current surveying requirements of the Board of Professional Surveyors and Mappers of the State of Florida. The survey to include the recovery of sufficient property boundary monumentation along the right-of-way of South Rainbow Drive to tie down the Lift Station and its associated amenities; location of aboveground visible improvements (i.e., pavement, slabs, trees, and utility features) along the median strip including 50 feet north and south of the Lift Station up to the edge of pavement. Topographic elevations along the edge of pavement and the outside of the Lift Station structure. We will also establish two semi-permanent benchmarks on or immediately adjacent to the site for future use. All elevations collected will be relative to North American Vertical Datum of 1988 (NAVD88) and based on National Geodetic Survey (NGS) or Florida Department of Transportation (FDOT) Benchmarks.

*Lump Sum..... \$5,880.96*

**Note: Approximate time of completion: Two - Three (2-3) weeks after receipt of Notice to Proceed (weather permitting).**

### **XII. ENGINEERING SERVICES - CIVIL - ELECTRICAL - STRUCTURAL DESIGN**

#### **12.1 Civil Site Engineering (CTA Task No. 31025)**

Prepare miscellaneous site improvement plans for the proposed works including grading and pavement improvements. Task also includes meeting with City and coordination with FEMA regarding plan preparation and approval process. Task includes one (1) electronic set of plans, technical specifications, probable cost estimates for 50%, 90%, 100% reviews and bid assistance.

*Lump Sum..... \$7,545.60*

#### **12.2 Electrical Engineering (Provided by Hillers Electrical Engineering)**

Task includes design coordination meetings visits with City, FPL and CTA and design of new stand-by generator system with new automatic transfer switch for the existing pump station. Task also includes relocation all electrical & control systems required to meet FEMA standards. Hillers shall provide one (1) electronic set of plans, technical specifications, probable cost estimates for 50%, 90%, 100% reviews and bidding assistance.

*Lump Sum..... \$19,925.00*

12.3 **Structural Engineering (Provided by TRC Worldwide Engineering)**

Provide structural analysis and design of platform and foundation for a new generator located at the rear of the property. Task includes one (1) electronic set of plans, technical specifications, probable cost estimates for 50%, 90%, 100% reviews and bid assistance and coordination with City and Electrical Engineer.

*Lump Sum.....\$12,500.00*

12.4 **Geotechnical Engineering (Provided by Tierra South Florida)**

Perform one (1) soil boring eight (8') feet deep along the Intracoastal Waterway side of the Site, including analysis of findings.

*Lump Sum.....\$2,000.00*

12.5 **Prepare and Process On-site Engineering Permit Applications (CTA Task No. 31080)**

Prepare and process permit applications and supporting documents through appropriate state and local agencies including:

- Broward County Environmental Protection and Growth Management Department - Wastewater
- Florida Department of Environmental Protection - Wastewater
- City of Hollywood
- Assist Contractor with Building Department Permit

City of Hollywood will provide all necessary reports/documents/modeling data required to secure wastewater permits from BCEP&GMD and FDEP.

*Lump Sum.....\$5,103.36*

**XIII. CONSTRUCTION OBSERVATION SERVICES**

13.1 **Limited Construction Observation (CTA Task No. 31120)**

Attend pre-construction meeting with the Contractor; review and approve shop drawings, provide responses to RFI's, attend progress meetings and perform general periodic site reviews as required to determine, in general, if the work is being performed in a manner that when completed it will be in accordance with the contract documents. Site visits are anticipated to be a total of three (3) per week for a total of (24) visits for the Project. Construction is estimated to last two (2) months, (8 weeks) for all disciplines. Review record drawings prepared by Contractor; attend final walkthrough with Contractor; review final punch list, and prepare Statement of Completion of construction documents. City of Hollywood will provide the majority of the inspections and reports necessary for certification.

Construction services include: shop drawing reviews & approvals, RFI - Responses, four (4) periodic site visits during construction, review of electrical pay requests, one (1) Start-up / Testing and one (1) Final Inspection.

*Hourly, Not-to-Exceed.....\$20,213.80*



**XIV. REIMBURSABLE EXPENSES**

14.1 Reimbursable Expenses (CTA Task No. XPEN)

Reimbursable expenses shall include printing, mylars, copying, postage, photographic services, Federal Express and courier services.

*Budget, Estimate..... \$500.00*

**XV. CONTINGENCY**

15.1 Contingency

Contingency allowance shall be as directed by the City for additional services not identified within the Project Scope. No work shall take place under this Task without authorization from the City.

*Allowance..... \$10,000.00*

**FEE SUMMARY - SANITARY SEWER LIFT STATION W15 GENERATOR**

**SURVEYING, ENGINEERING AND CONSTRUCTION OBSERVATION SERVICES ..... \$73,168.72**  
**REIMBURSABLES & CONTINGENCY ..... \$10,500.00**  
**SUB-TOTAL ..... \$83,668.72**

**PROJECT SCHEDULE**

**Authorization to Proceed to Bid Advertisement ..... 6 Months**

**GRAND TOTAL - SANITARY SEWER LIFT STATION E-1, W14, AND W15 GENERATOR**

**SURVEYING, ENGINEERING AND CONSTRUCTION OBSERVATION SERVICES ... \$202,773.52**  
**REIMBURSABLES & CONTINGENCY ..... \$31,500.00**  
**GRAND TOTAL ..... \$234,273.52**

### **SERVICES NOT INCLUDED**

Additional services will be performed as authorized in writing by the Client.

Additional services include but are not limited to the following:

1. Environmental Permitting or Consulting Services.
2. Water and Storm Drainage Improvements/Calculations.
3. Exterior Improvements to LS W15.
4. Site Planning.
5. Landscape Architectural and Tree Removal permitting Services.
6. Geotechnical Testing (shall be provided by client if required).
7. Utility locates and test holes (shall be provided by client if required).
8. Permit Fees
9. Material testing.
10. Services required by additional governmental regulations which might be put into effect after the date of this agreement.
11. Any additional services requested by Client.

### **Acceptance**

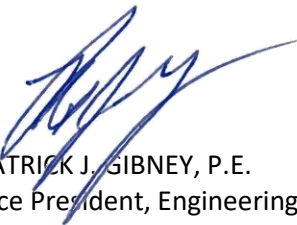
This proposal and fee schedules are based on acceptance within 30 days of the date of preparation. If not accepted by you within that time period, we reserve the right to re-evaluate the terms and conditions contained herein.

The above will be subject to the terms and conditions as specified in the Contract Documents. If the proposed work and fees contained herein are agreeable with you, please provide a Purchase Order and a Notice to Proceed.

Should you have any questions regarding the above, please do not hesitate to call.

Sincerely,

**CRAVEN THOMPSON & ASSOCIATES, INC.**



PATRICK J. GIBNEY, P.E.  
Vice President, Engineering

PJG/tg

EXHIBIT D  
STAFF TIME ESTIMATE

Personnel	Hourly Rate	Hours per Task									Totals	
		Task 1.1	Task 2.1	Task 2.2	Task 2.3	Task 2.4	Task 2.5	Task 4.1	Task 5.1		Hours	Cost
		0001	0002	0003	0004	0005	0006	0007	0008			
<b>Administration</b>												
Administrative Assistant	\$77.76										0	\$0.00
Sub Total											0	\$0.00
<b>Engineering</b>												
Principal Engineer	\$201.60		4								4	\$806.40
Sr. Supervising Engineer	\$181.44		20				4	4			28	\$5,080.32
Senior Engineer	\$129.60		24				16	4			44	\$5,702.40
Project Engineer	\$115.20						20				20	\$2,304.00
Senior CADD Technician	\$95.04										0	\$0.00
Sub Total											96	\$13,893.12
<b>Construction</b>												
Construction Manager	\$152.64							24			24	\$3,663.36
Senior Field Representative	\$95.04							32			32	\$3,041.28
Field Representative	\$77.76										0	\$0.00
Sub Total											56	\$6,704.64
<b>Surveying</b>												
Principal Surveyor	\$158.40	4									4	\$633.60
Professional Land Surveyor	\$135.36	8									8	\$1,082.88
Land Surveyor	\$112.32	12									12	\$1,347.84
Senior CADD Technician	\$95.04										0	\$0.00
Survey Laserscan Crew	\$250.56										0	\$0.00
Survey Crew (2 man)	\$129.60	16									16	\$2,073.60
Sub Total											40	\$5,137.92
<b>Cost per Task</b>		\$5,137.92	\$7,545.60	\$0.00	\$0.00	\$0.00	\$5,103.36	\$7,948.80	\$0.00	\$0.00		\$25,735.68
<b>Budget per Task</b>		\$5,137.92	\$7,545.60	\$0.00	\$0.00	\$0.00	\$5,103.36	\$7,948.80	\$0.00	\$0.00		\$25,735.68
<b>Subconsultants</b>												
Geotechnical Engineerinf - Tierra						\$2,100.00						\$2,100.00
Structural Engineering - TRC					\$11,500.00			\$5,000.00				\$16,500.00
Electrical Engineering - Hillers				\$22,415.00				\$10,525.00				\$32,940.00
Subconsultants Sub Total		\$0.00	\$0.00	\$22,415.00	\$11,500.00	\$2,100.00	\$0.00	\$15,525.00	\$0.00	\$0.00		\$51,540.00
<b>Total</b>		\$5,137.92	\$7,545.60	\$22,415.00	\$11,500.00	\$2,100.00	\$5,103.36	\$23,473.80	\$0.00	\$0.00		
<b>Direct Expenses</b>									\$500.00			\$500.00
<b>Contingency</b>									\$10,000.00			\$10,000.00
<b>Grand Total</b>		\$5,137.92	\$7,545.60	\$22,415.00	\$11,500.00	\$2,100.00	\$5,103.36	\$23,473.80	\$10,500.00	\$0.00		\$87,775.68

EXHIBIT D  
STAFF TIME ESTIMATE

Personnel	Hourly Rate	Hours per Task									Totals	
		Task 1.1 0001	Task 2.1 0002	Task 2.2	Task 2.3	Task 2.4	Task 2.5	Task 3.1	Task 4.1	Task 5.1	Hours	Cost
<b>Administration</b>												
Principal	\$220.00										0	\$0.00
Administrative Assistant	\$77.76										0	\$0.00
Sub Total											0	\$0.00
<b>Engineering</b>												
Principal Engineer	\$201.60		4								4	\$806.40
Sr. Supervising Engineer	\$181.44		16				8				24	\$4,354.56
Senior Engineer	\$129.00		24				16				40	\$5,160.00
Project Engineer	\$115.20		24				16				40	\$4,608.00
Senior CADD Technician	\$95.04										0	\$0.00
Sub Total											108	\$14,928.96
<b>Construction</b>												
Construction Manager	\$152.64							40			40	\$6,105.60
Senior Field Representative	\$95.04							24			24	\$2,280.96
Sub Total											64	\$8,386.56
<b>Surveying</b>												
Principal Surveyor	\$158.40	4									4	\$633.60
Professional Land Surveyor	\$135.36	8									8	\$1,082.88
Land Surveyor	\$112.32										0	\$0.00
Senior CADD Technician	\$95.04	8									8	\$760.32
Survey Laserscan Crew	\$250.56										0	\$0.00
Survey Crew (2 Person)	\$129.60	8									8	\$1,036.80
Sub Total											28	\$3,513.60
<b>Landscape Arch./ Planning</b>												
Principal LA Planner	\$158.40										0	\$0.00
Sr. Project LA Planner	\$132.48										0	\$0.00
Project LA Planner	\$115.20										0	\$0.00
Senior CADD Technician	\$95.04										0	\$0.00
Sub Total											0	\$0
<b>Cost per Task</b>		\$3,513.60	\$9,570.24	\$0.00	\$0.00	\$0.00	\$5,358.72	\$8,386.56	\$0.00	\$0.00		\$26,829.12
<b>Budget per Task</b>		\$3,513.60	\$9,570.24	\$0.00	\$0.00	\$0.00	\$5,358.72	\$8,386.56	\$0.00	\$0.00		\$26,829.12
<b>Subconsultants</b>												
Geotechnical - Tierra						\$2,000.00						\$2,000.00
Structural Engineering - TRC					\$3,500.00			\$4,000.00				\$3,500.00
Electrical Engineering - Hillers				\$12,000.00				\$4,000.00				\$0.00
Subconsultants Sub Total		\$0.00	\$0.00	\$12,000.00	\$3,500.00	\$2,000.00	\$0.00	\$8,000.00	\$0.00	\$0.00		\$25,500.00
<b>Total</b>		\$3,513.60	\$9,570.24	\$12,000.00	\$3,500.00	\$2,000.00	\$5,358.72	\$16,386.56	\$0.00	\$0.00		
<b>Direct Expenses</b>									\$500.00			\$500.00
<b>Contingency</b>										\$10,000.00		\$10,000.00
<b>Grand Total</b>		\$3,513.60	\$9,570.24	\$12,000.00	\$3,500.00	\$2,000.00	\$5,358.72	\$16,386.56	\$500.00	\$10,000.00		\$62,829.12

EXHIBIT D  
STAFF TIME ESTIMATE

Personnel	Hourly Rate	Hours per Task									Totals	
		Task 1.1 0001	Task 2.1 0002	Task 2.2 0003	Task 2.3 0004	Task 2.4 0005	Task 2.5 0006	Task 3.1 0007	Task 5.1 0008	Task 9 0009	Hours	Cost
<b>Administration</b>												
Principal	\$220.00										0	\$0.00
Administrative Assistant	\$65.00										0	\$0.00
Sub Total											0	\$0.00
<b>Engineering</b>												
Principal Engineer	\$201.60		4								4	\$806.40
Sr. Supervising Engineer	\$181.44		20				4	4			28	\$5,080.32
Senior Engineer	\$129.60		24				16	4			44	\$5,702.40
Project Engineer	\$115.20						20				20	\$2,304.00
Senior CADD Technician	\$95.04										0	\$0.00
											0	\$0.00
Sub Total											96	\$13,893.12
<b>Construction</b>												
Construction Manager	\$152.64							24			24	\$3,663.36
Senior Field Representative	\$95.04							32			32	\$3,041.28
Field Representative	\$77.76										0	\$0.00
Sub Total											56	\$6,704.64
<b>Surveying</b>												
Principal Surveyor	\$158.40	2									2	\$316.80
Professional Land Surveyor	\$135.36	12									12	\$1,624.32
Land Surveyor	\$112.32	12									12	\$1,347.84
Senior CADD Technician	\$95.04										0	\$0.00
Survey Laserscan Crew	\$250.56										0	\$0.00
Survey Crew (2 man)	\$129.60	20									20	\$2,592.00
Sub Total											46	\$5,880.96
<b>Cost per Task</b>		\$5,880.96	\$7,545.60	\$0.00	\$0.00	\$0.00	\$5,103.36	\$7,948.80	\$0.00	\$0.00		\$26,478.72
<b>Budget per Task</b>		\$5,880.96	\$7,545.60	\$0.00	\$0.00	\$0.00	\$5,103.36	\$7,948.80	\$0.00	\$0.00		\$26,478.72
<b>Subconsultants</b>												
Geotechnical - Tierra						\$2,000.00						\$2,000.00
Structural Engineering - TRC					\$12,500.00			\$2,000.00				\$14,500.00
Electrical Engineering - Hillers				\$19,925.00				\$10,265.00				\$30,190.00
Subconsultants Sub Total		\$0.00	\$0.00	\$19,925.00	\$12,500.00	\$2,000.00	\$0.00	\$12,265.00	\$0.00	\$0.00		\$46,690.00
<b>Total</b>		\$5,880.96	\$7,545.60	\$19,925.00	\$12,500.00	\$2,000.00	\$5,103.36	\$20,213.80	\$0.00	\$0.00		
<b>Direct Expenses</b>									\$500.00			\$500.00
<b>Contingency</b>										\$10,000.00		\$10,000.00
<b>Grand Total</b>		\$5,880.96	\$7,545.60	\$19,925.00	\$12,500.00	\$2,000.00	\$5,103.36	\$20,213.80	\$500.00	\$10,000.00		<b>\$83,668.72</b>