

**CITY OF NEWPORT**  
**TASK ORDER NO. 5**  
**TO PROFESSIONAL SERVICES AGREEMENT**  
**(CONSULTANT OF RECORD)**  
**FOR CIVIL ENGINEERING SERVICES**

This TASK ORDER NO. 5 to the Professional Services Agreement dated July 24, 2017, hereinafter called Agreement, between the City of Newport, (CITY), and HHPR (ENGINEER).

**A. SCOPE OF SERVICES**

CITY agrees to utilize the services of ENGINEER and ENGINEER agrees to perform pump station and distribution piping engineering services as required by the CITY for the 54<sup>th</sup> Street Pump Station, PRV and Water Main project SET FORTH IN Attachment A.

**B. CITY'S RESPONSIBILITIES**

CITY to provide ENGINEER with the following information:

- CITY shall assign appropriate reviewers to the project and compile and provide a single consolidated, coordinated, legible, and internally consistent copy of written review comments to Consultant for all draft documents and work products, as appropriate.
- CITY shall provide timely review of submitted products (1-week turnaround), as appropriate.

**C. COMPENSATION**

1. CITY shall pay ENGINEER according to the fee schedule set forth in Exhibit A to the Agreement.
2. Services provided under this Task Order may be a single project whose fee does not exceed two hundred forty nine thousand one hundred fifty Dollars (\$249,150).

**E. MISCELLANEOUS**

All terms and conditions of the Agreement apply to this Task Order as though fully set forth therein. In the event of a conflict between this Task Order and the Agreement, the terms of this Task Order shall apply.

The parties do mutually agree to all mutual covenants and agreements contained within this Task Order No. 5.

**CITY OF NEWPORT:**

Signature: SR. Nober  
Name: City Manager  
Title: Spencer R. Nober  
Date: 08-06-19

**HHPR:**

Signature: ChA. Beatty  
Name: Chris A. Beatty  
Title: Associate Principal  
Date: 8-8-19

**City of Newport**

**Project Understanding and Scope  
NE 54th Street Pump Station, PRV & Water Main Improvements  
(Smith Tank Abandonment & Bypass)**

**PROJECT UNDERSTANDING**

1. Existing Smith Tank is old and in a deteriorated condition. The tank must be replaced either with another tank or alternate improvements that would serve customers in the Smith Tank Zone.
2. NE 54 St PS is old and in need of replacement. This PS supplies water to the NE 54th St PS Zone and to the Smith Tank Zone.
3. Areas in the Smith Tank Zone immediately north and east of Yaquina Head are served by undersized water mains.
4. The area near 54th St and Rocky Way has low operating pressures and is not adequately looped.
5. Homes along south side of NW 55th St, near Azalea St, are at an elevation that is too high to be adequately served by the Main Zone.

**PROJECT DESCRIPTION**

**A. Major Elements (see attached Figure 1).**

**1. Pump Station.**

- Project will replace NE 54th St. PS with a new facility to serve existing NE 54th St PS Zone and new Yaquina Head Zone.
- Existing NE 54th St PS and Smith Tank to be removed. Smith Tank Zone to be replaced by Yaquina Head Zone.

**2. Pressure Reducing Station.**

- Add new PRV for Yaquina Head Zone that will replace existing PRV for Smith Tank Zone.
- Existing WM and services along 55th St, between Hwy 101 and Meander St, will be part of Yaquina Head Zone. Existing NW 55th and Rhoddodendren PRV to remain. Future WM improvements along 55th St to occur when that street is improved. No survey along NW 55th St. required.
- Project will eliminate BLM PRV near Outstanding Natural Area entrance. A normally-closed valve will be provided along Lighthouse Dr. as an emergency connection between pressure zones.
- Existing inactive PRV near NW 54th St and Rocky Way will be removed.

**3. Water Main Improvements for Yaquina Head Zone.**

- **54th St:** 12-inch WM along 54th St from new PS site to Rocky Way (replace 6-inch).
- **54th St & Azalea Loop:** 8-inch/12-inch WM extending west from Rocky Way and then north to 55th St (replace 6-inch).

- **Rocky Way Loop:** 8-inch/12-inch WM along Rocky Way (replace 4-inch WM) – extend from 12-inch WM in 54th St to existing 8-inch WM in Lighthouse Dr.
- **Smith-Tank Bypass:** New 8-inch/12-inch WM along Smith Tank access road from WM in Azalea to existing 10-inch transmission main that connects to Smith Tank. Remove existing Smith Tank.

#### 4. Other Water Main Improvements.

- **54th St:** Extend new 12-inch transmission main from new PS site, east along 54th St, to existing 12-inch WM in NE 54th St PS Zone (near intersection of 54th & Lucky Gap).
- **Smith Tank Service Line.** Cut and abandon existing 6-inch WM from Smith Tank down hill to last water service along Rhoddodendren.

#### B. Pump Station:

1. New PS will be located along 54th St., probably in ODOT right of way (east side of Hwy 101). Specific site to be determined by City and easements will be obtained by City.
2. New PS design will be patterned after recent skid-mounted PS facilities City has had installed (NE 7th St & NE 71st St). Design will specify single-source responsibility of pumping system, including instrumentation, controls, field testing, startup, and technical support.
3. PS will be complete with jockey and fire pumps, hydropneumatic tanks, valves, pipe manifolds, instrumentation and controls, electrical equipment, heating & ventilation, building, and other required components.
4. PS controls will be tied to existing SCADA system by fiber optic connection to existing PS site.
5. Piping design will include hose bibbs and sample station(s) according to City preferences. Design will include air release valves to remove both small accumulations of air and larger volumes introduced during repairs.
6. Site improvements will include buried piping to mains in right of way, site grading, drainage improvements, access drive, site lighting, and any necessary security measures. Building access will incorporate current City key-card system.

#### C. Pressure Reducing Station:

1. PRV station will include dual PRVs, one for routine service and one for fire flows, plus a bypass.
2. New PRVs to be Cla-Val and will be patterned after recent installations (e.g., 3<sup>rd</sup> & Harney and/or Harbor Way).
3. Yaquina Head PRV to be located at site of new 54th St PS or in adjacent R/W.

#### D. Water Mains:

1. Piping and appurtenances will conform to City standards.
2. New Hwy 101 crossing by will be required for waterline along 54th St. Method of crossing most likely will be by directional drilling, but will be confirmed after geotechnical investigation.

3. New buried WMs will be PVC piping w/DI fittings, except Hwy 101 crossing will probably be HDPE.
4. Project scope will include service renewals along 54th St with new meter boxes and appurtenances.

**NOTES:**

- Project scope and fee are based on City providing available information on Yaquina Head Interpretive Complex for modeling domestic and fire demands under separate scope.
- Scope and fee are based on City providing available information on other services and future development plans to support estimates of design demands for modeling under separate scope.
- Pump station capacity and pipe sizes for new mains will be established/confirmed by HHPR modeling performed under separate scope.

**PROJECT SCOPE OF WORK*****Task 1 – Project Management and Administration***

Harper Houf Peterson Righellis Inc. (HHPR) will provide professional consulting services to manage and administer the project. HHPR shall assign a project manager to manage, coordinate, and direct the project team for the duration of the work. Key project management tasks shall be as follows:

- 1.1 Coordinate with City Project Manager and the project team to keep the project on schedule.
- 1.2 Track progress on work completed and coordinate with City Project Manager to revise the project schedule when necessary to reflect changes in the project.
- 1.3 Maintain records of coordination activities and decisions made. Provide copies of records to City Project Manager as requested during the project.
- 1.4 Manage subconsultants for geotechnical investigation, electrical, and building mechanical.
- 1.5 Prepare monthly invoices and summaries of budget status to show the costs to date and percent complete of major tasks.

***Task 2 – Document Review and Field Work***

HHPR shall provide labor, equipment and materials to perform the following tasks.

- 2.1 Review available drawings and other records supplied by City.
- 2.2 Perform a site reconnaissance to observe and evaluate site conditions.
- 2.3 Our subconsultant shall perform a geotechnical investigation of the project sites and prepare a report. The report shall provide site-specific seismic design criteria for the PS building foundation and anchorage.

- 2.4 Perform a topographic survey of the project area. This survey will be used to prepare the base drawing for the project. Key survey tasks shall include the following:
- Obtain and review available County records of existing property boundaries, public rights of way, and easements.
  - Prepare and submit One-Call utility locate request to identify subsurface utilities in project corridor (response time can be up to 10 business days as allowed by law).
  - Obtain ODOT access permits for work within the Highway 101 right-of-way.
  - Locate rights-of-way throughout project corridor, identify existing property boundaries for the Smith Tank and proposed pump station sites, and plot applicable easements as provided by the City.
  - Scope and fee assume no property partition will be required for PS site and no new easements will be required for PS, PRVs, and WMs..
- 2.5 Survey Monument Preservation. Survey monumentation that may be destroyed by construction activities must be preserved/recorded according to ORS 209.
- Since a pre-construction Record of Survey filed with the County Surveyor's Office can be cost prohibitive, our proposed scope does not include survey monumentation and a Record of Survey filing.
  - Instead, we propose to initially field identify survey monuments sufficient for right-of-way retracement and base mapping. We would also note on the base survey drawing any other survey monuments of record that may exist based on available data, but were not recovered for base mapping.
  - During design we would coordinate with the city to identify areas of possible monument destruction by the Contractor. Then, during Construction, the contractor or City would need to notify the surveyor so any affected monument(s) can be referenced and replaced according to ORS 209.150.

*Deliverables/Meetings:*

- *Geotechnical Report.*
- *Survey Base Drawing.*

*City Responsibilities:*

- *Identify/procure PS site.*
- *Provide any record drawings and any other available record information.*
- *Provide access to PS property and Smith Tank site for geotechnical and survey work.*
- *Locate City-owned utilities in project area.*

**Task 3 – Preliminary Design**

HHPR will perform the following tasks.

- 3.1 Establish project design parameters based on results of advance modeling performed under separate scope (proposed design demands, HGLs of pressure zones, WM and PRV sizes, PS design pressures, and related design criteria).
- 3.2 Establish PS design criteria and select pump models and motor sizes.
- 3.3 Identify preliminary WM alignments and PRV locations.
- 3.4 Size standby generator, power service, and related electrical equipment for PS.
- 3.5 Establish PS layout and building dimensions.
- 3.6 Establish structural design criteria, identify materials of construction, and prepare structural calculations.
- 3.7 Identify requirements for PS site improvements. Coordinate site layout, grading and drainage improvement with City and ODOT.
- 3.8 Develop 30% drawings of PS, yard piping plan, PRV stations, and WM alignments.
- 3.9 Develop a budget-level estimate of probable construction cost for the upgrade.
- 3.10 Prepare a preliminary design memorandum to summarize our recommendations for PS design criteria, component sizing, identify project design criteria, list key materials of construction, present an initial project phasing plan, and describe other key design features.
- 3.11 Submit the memo, 30% plans, and budget-level estimate for review.
- 3.12 Update the memo and revise the plans in response to City's review comments.

**Deliverables/Meetings:**

- *Technical memorandum and 30% plans.*
- *Budget level estimates of probable construction costs*

**City Responsibilities:**

- *Provide input regarding 20-year projections of housing units and commercial customers to be served by NE 54th St PS.*
- *Review memo and 30% drawings and provide comments/approval.*

**Task 4 – Prepare Detailed Plans, Specifications, and Estimate of Probable Cost (PS&E)**

HHPR shall provide labor, equipment and materials to develop project design and prepare PS&E for a 90% progress review and construction contract bidding. Design scope shall include the following:

- 4.1 Structural design of PS building, foundation and anchorage for major equipment, including material specifications and stamped structural calculations. Scope and fee assume bldg. will be similar in materials and layout to the NE 7th St PS.
- 4.2 Develop PS performance requirements (incl. electrical service requirements) and confirm pump selections.
- 4.3 Detailed design of pumping system equipment, including pumps, drives, motors, hydropneumatic tanks, I&C, SCADA terminal, and related components.
- 4.4 Detailed design of PS piping, valves and accessories.
- 4.5 Detailed design of PRVs, vault, water mains, isolation valves, tapping sleeves, customer service reconnections/renewals, and accessories.
- 4.6 Civil site design for PS, including site grading, access drives, parking area, surface water handling, security measures, and other site requirements.
- 4.7 Detailed design of generator set, automatic transfer switch, transformer, service disconnect, site lighting, and other electrical equipment.
- 4.8 Develop an initial construction schedule and establish limitations for sequencing, component shutdowns, and connections to existing mains at contract limits.

Plan sheets will be developed using HHPR CADD standards. Specifications shall include bidding and contract documents and project-specific special provisions. HHPR shall provide an overall independent QA/QC of the PS&E developed by the project team prior to the 90% and 100% submittals. HHPR shall develop the cost estimate for the entire project included in the plan set.

**Deliverables/Meetings:**

- *HHPR shall prepare and submit 90% PS&E to the City and OHA Drinking Water Services for review. Deliverables shall include an electronic copy in PDF format and two (2) paper sets. Plan sheet sizes, either full-size (22"x34") or half-size (11"x17"), to be determined by the City.*
- *HHPR shall attend a design progress meeting to review 90% PS&E and prepare meeting notes.*
- *HHPR shall address the City's 90% review comments then prepare and submit 100% stamped and signed PS&E for bidding. Deliverable shall include an electronic copy of the plans and specifications in PDF format and two (2) paper sets. Paper copy of plans shall include both half-size (11"x17") and a full-size (22"x34") sets.*

**City Responsibilities:**

- *Provide review comments on 90% PS&E.*



**Task 5 – Bidding Support Services**

HHPR proposes to assist City staff in responding to all bidder inquiries during the bid period, provide necessary bid addenda to address bidder questions, prepare contractor bid tabulation, and assist City staff with evaluating bids for accuracy and responsiveness.

*Deliverables: PDF of all addenda, bidder inquiry log, and bid tabulation.*

**Task 6 – Construction Contract Administration and Startup Services**

6.1 HHPR shall provide the following construction administration services:

- Prepare for, attend and conduct a pre-construction conference to define contractor responsibilities, standards, special items of interest to the project, access, communications and scheduling.
- Submittal/Shop Drawing Review – Review technical submittals provided by the contractor. Maintain a log to track submittal status and facilitate timely reviews.
- Review of Manufacturer’s O&M Information – Review O&M information provided by the contractor for pumping system, standby genset, control valves, and other equipment. Maintain a log to track submittal status and facilitate timely response.
- Review & respond to Contractor RFIs (fee based on 20 RFIs). Consult with and advise City regarding the acceptability of contractor-proposed substitute and “or equal” items.
- Attend up to six (6) construction progress meetings with City staff and contractor. Provide agenda and record meeting highlights.
- Attend and observe manufacturer’s startup and testing of pumping system and SCADA.
- Consult with and advise City staff on any conflicts with utilities and/or deviations from anticipated field conditions during construction of the project.
- Conduct project walk-thru, prepare a deficiencies list (Punchlist), and consult with City on completion of remaining work.

*Deliverables: Preconstruction meeting notes, submittal log, progress meeting notes, RFI responses, and final punchlist.*

6.2 On-site Construction Representation. This scope is prepared with the assumption that the City will take primary responsibility for daily, on-site construction observation thus is not included in HHPR’s scope of work. HHPR will make construction observation periodically when it coincides with progress meeting dates.

*Deliverables: Construction observation reports for any site visits by HHPR.*

6.3 Record Drawings. HHPR shall track and compile data related to changes in work during the construction phase and prepare a post-construction, record drawing set.

*Deliverables: Record drawing plan set in electronic PDF format and 22”x34” paper set.*

**NOTE:** *Scope assumes City to provide DWS certification since City to provide site inspections.*

**COMPENSATION**

Summarized below is our estimate of the fees required to provide the scope of professional services we describe herein. A breakdown of the estimated staff hours and fees is attached.

<b>Project Task</b>		<b>Estimated Fee</b>
Task 1	Project Management	\$ 4,210
Task 2	Document Review & Initial Field Work	\$ 69,625
Task 3	Preliminary Design Phase	\$ 31,530
Task 4	Detailed Design and PSE	\$ 71,255
Task 5	Bidding Services	\$ 6,455
Task 6	Construction & Post-Construction Services	\$ 66,075
<b>Total</b>		<b>\$ 249,150</b>

HHPR will complete the above tasks on a time and material basis to an agreed maximum fee limit based on the stated scope. We will not exceed the fee limit without the City's prior approval.

**ANTICIPATED SCHEDULE FOR DESIGN-PHASE MILESTONES (FROM NOTICE TO PROCEED)**

Field Work & Predesign Deliverable	-	10 weeks
Review Comments from City	-	4 weeks
90% Design Deliverable	-	4 weeks
Design Review Comments from City/DWS	-	3 weeks
100% Design Level	-	3 weeks
Estimated Time from N-T-P to Completion	-	24 weeks

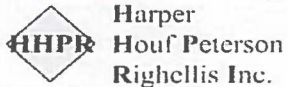


Harper  
Houf Peterson  
Righellis Inc.

ENGINEERS • PLANNERS  
LANDSCAPE ARCHITECTS • SURVEYORS  
205 SE Spokane Street, Suite 200, Portland, OR 97202  
PHONE: 503.221.1131 www.hhp.com FAX: 503.221.1171

**CITY OF NEWPORT - NE 54TH ST PS, PRV & WATER MAIN IMPROVEMENTS**  
**FEE ESTIMATE FOR CONSULTING SERVICES (Revised June 24, 2019)**

Task Description	Breakdown of Estimated Staff Hours							Subtotals	
	Project Mgr/ Engineer	Civil Engineer	Civil Designer	Structural Engineer	Structural Designer	CAD Tech	Clerical	Hours	Charge
<b>1. - Project Management</b>									
Project setup, budget tracking & invoicing	6	0	0	0	0	0	3	9	\$1,365
Interdiscipline coordination	1	6	0	1	0	0	0	8	\$1,260
Coordination w/City	4	4	0	1	0	0	1	10	\$1,585
<b>Subtotal - Task 1 Hours</b>	<b>11</b>	<b>10</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>27</b>	
<b>Subtotal - Task 1 Amounts</b>	<b>\$1,980</b>	<b>\$1,550</b>	<b>\$0</b>	<b>\$300</b>	<b>\$0</b>	<b>\$0</b>	<b>\$380</b>		<b>\$4,210</b>
<b>2a. - Document Reviews &amp; Field Work</b>									
Geotechnical Investigation									\$17,500
Topo survey & base mapping									\$50,100
<b>Subtotal - Task 2 Hours</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$67,600</b>
<b>Subtotal - Task 2 Amounts</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		
<b>2b. - Document Reviews &amp; Field Work</b>									
Review & comments on geotech report	0	0	0	2	0	0	0	2	\$300
Site reconnaissance & Notes (1 visit)	0	10	0	0	0	0	0	10	\$1,550
<b>Subtotal - Task 2 Hours</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12</b>	
<b>Task 2b Expenses (1 site visit/mtg)</b>									<b>\$175</b>
<b>Subtotal - Task 2 Amounts</b>	<b>\$0</b>	<b>\$1,550</b>	<b>\$0</b>	<b>\$300</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		<b>\$69,625</b>
<b>3. - Preliminary Design</b>									
Establish design basis **	0	2	0	0	0	0	0	2	\$310
PS design criteria & equipment selection	1	6	0	0	0	0	0	7	\$1,110
PS layout & bldg. dimensions/materials	1	2	6	2	0	0	0	11	\$1,570
Prepare structural calculations	0	0	0	8	28	0	0	36	\$4,840
Site layout, drainage & req'd improvements	1	4	12	0	0	0	0	17	\$2,360
Electrical/Mechanical (subconsultant)									\$2,800
Predesign memo, 30% plans & cost estimate	2	24	24	8	24	40	2	124	\$16,110
QA/QC design memo	6	1	0	1	0	0	0	8	\$1,385
Revise/resubmit memo to address comments	0	1	2	1	2	2	0	8	\$1,045
<b>Subtotal - Task 3 Hours</b>	<b>11</b>	<b>40</b>	<b>44</b>	<b>20</b>	<b>54</b>	<b>42</b>	<b>2</b>	<b>213</b>	
<b>Subtotal - Task 3 Amounts</b>	<b>\$1,980</b>	<b>\$6,200</b>	<b>\$5,720</b>	<b>\$3,000</b>	<b>\$7,020</b>	<b>\$4,620</b>	<b>\$190</b>		<b>\$31,530</b>



**CITY OF NEWPORT - NE 54TH ST PS, PRV & WATER MAIN IMPROVEMENTS  
FEE ESTIMATE FOR CONSULTING SERVICES (Revised June 24, 2019)**

ENGINEERS • PLANNERS  
LANDSCAPE ARCHITECTS • SURVEYORS  
205 SE Spokane Street, Suite 200, Portland, OR 97202  
Phone: 503-221-1131 www.hhp.com Fax: 503-221-1171

Task Description	Breakdown of Estimated Staff Hours							Subtotals	
	Project Mgr/ Engineer	Civil Engineer	Civil Designer	Structural Engineer	Structural Designer	CAD Tech	Clerical	Hours	Charge
<b>4. - Detailed Plans, Specs &amp; Estimate</b>									
Structural design & specifications	1	0	0	8	16	0	0	25	\$3,460
Pumping system design & equipment specifications & SCADA integration	1	16	18	0	0	0	0	35	\$5,000
Designs & specifications for PS piping, valves & accessories	1	12	16	0	0	0	0	29	\$4,120
Designs & specifications for WM, PRVs, other valves, vaults & accessories	1	8	24	0	0	0	0	33	\$4,540
Civil site design & specs - grading, drainage, yard piping, access, security, & related work	1	12	30	0	0	0	0	43	\$5,940
Electrical/Mechanical (subconsultant)									\$15,500
Prepare 90% detailed plans (1 visit)	1	12	24	2	24	96	0	159	\$19,140
Prepare/edit contract docs (Front End)	1	6	0	0	0	0	2	9	\$1,300
Develop prelim construction schedule, sequencing & probable cost estimate	0	4	12	4	16	0	0	36	\$4,860
QA/QC 90% PS&E	16	1	0	0	0	0	0	17	\$3,035
Submit 90% PS&E to City & DWS	0	1	0	0	0	4	4	9	\$975
Address comments & submit 100% PS&E	1	4	4	2	4	8	2	25	\$3,210
<b>Subtotal - Task 4 Hours</b>	<b>24</b>	<b>76</b>	<b>128</b>	<b>16</b>	<b>60</b>	<b>108</b>	<b>8</b>	<b>420</b>	
<b>Task 4 Expenses (1 site visit/mtg)</b>									<b>\$175</b>
<b>Subtotal - Task 4 Amounts</b>	<b>\$4,320</b>	<b>\$11,780</b>	<b>\$16,640</b>	<b>\$2,400</b>	<b>\$7,800</b>	<b>\$11,880</b>	<b>\$760</b>		<b>\$71,255</b>
<b>Estimated Hours</b>	<b>46</b>	<b>136</b>	<b>172</b>	<b>40</b>	<b>114</b>	<b>150</b>	<b>14</b>	<b>672</b>	
<b>Total Design-Phase Services</b>									<b>\$176,620</b>
<b>Hourly Rates</b>	<b>\$180</b>	<b>\$155</b>	<b>\$130</b>	<b>\$150</b>	<b>\$130</b>	<b>\$110</b>	<b>\$95</b>		
	<b>\$8,280</b>	<b>\$21,080</b>	<b>\$22,360</b>	<b>\$6,000</b>	<b>\$14,820</b>	<b>\$6,600</b>	<b>\$1,330</b>		

\*\* Advance modeling performed by HHPR under separate scope.



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503.221.1111 www.hpr.com Fax 503.221.1151

**CITY OF NEWPORT - NE 54TH ST PS, PRV & WATER MAIN IMPROVEMENTS**  
**FEE ESTIMATE FOR CONSULTING SERVICES (Revised June 24, 2019)**

Task Description	Breakdown of Estimated Staff Hours							Subtotals	
	Project Mgr/ Engineer	Civil Engineer	Civil Designer	Structural Engineer	Structural Designer	CAD Tech	Clerical	Hours	Charge
<b>5. - Bid Support</b>									
Log & respond to bidder questions	1	4	4	1	2	0	1	13	\$1,825
Text/specs/plans for 1 addendum	1	4	8	1	4	4	1	23	\$3,045
Bid tabulation review	1	2	0	0	0	0	1	4	\$585
Electrical/Mechanical Services									\$1,000
<b>Subtotal - Task 5a Hours</b>	<b>3</b>	<b>10</b>	<b>12</b>	<b>2</b>	<b>6</b>	<b>4</b>	<b>3</b>	<b>40</b>	
<b>Subtotal - Task 5a Amounts</b>	\$540	\$1,550	\$1,560	\$300	\$780	\$440	\$285		<b>\$6,455</b>
<b>6a. - Construction Engineering Support</b>									
Preconstruction conference & notes	1	12	12	0	0	0	1	26	\$3,695
Review tech submittals & shop dwgs	6	12	40	8	16	0	0	82	\$11,420
Rvw mfr's O&M information	2	4	16	0	0	0	0	22	\$3,060
Review 20 RFIs & issue responses	8	20	42	4	8	4	4	90	\$12,460
Site visits & progress mtgs (6)	6	72	24	12	4	0	3	121	\$17,965
Observe PS startup & testing	1	16	0	0	0	0	1	18	\$2,755
Walkthroughs (2) & deficiencies list	2	24	0	0	0	0	1	27	\$4,175
Electrical/Mechanical Services**									\$5,000
<b>Subtotal - Task 6a Hours</b>	<b>26</b>	<b>160</b>	<b>134</b>	<b>24</b>	<b>28</b>	<b>4</b>	<b>10</b>	<b>386</b>	
<b>Task 6a Expenses (10 visits)</b>									<b>\$1,600</b>
<b>Subtotal - Task 6a Amounts</b>	\$4,680	\$24,800	\$17,420	\$3,600	\$3,640	\$440	\$950		<b>\$62,130</b>
<b>6b. - Construction Observation/Monitoring</b>									
Onsite Representation	(HHPR onsite representative not included in scope - provided by City or others)							0	\$0
<b>Subtotal - Task 6b Hours &amp; Fee</b>								<b>0</b>	<b>\$0</b>
<b>Subtotal - Task 6b Amounts</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
<b>6c. - Post-construction Services</b>									
Prepare record drawings	1	4	8	1	2	0	0	16	\$2,250
Warranty period review	2	8	0	0	0	0	1	11	\$1,695
<b>Subtotal - Task 6c Hours</b>	<b>3</b>	<b>12</b>	<b>8</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>27</b>	
<b>Subtotal - Task 6c Amounts</b>	\$540	\$1,860	\$1,040	\$150	\$260	\$0	\$95		<b>\$3,945</b>
<b>Estimated Hrs. &amp; Labor/Sub Fees</b>	<b>32</b>	<b>182</b>	<b>154</b>	<b>27</b>	<b>36</b>	<b>8</b>	<b>14</b>	<b>453</b>	
<b>Bidding &amp; Construction-Phase Services</b>									<b>\$72,530</b>
<b>Total Fee Estimate - All Phases</b>									<b>\$249,150</b>
<b>Hourly Rates</b>	<b>\$180</b>	<b>\$155</b>	<b>\$130</b>	<b>\$150</b>	<b>\$130</b>	<b>\$110</b>	<b>\$95</b>		
	\$5,760	\$28,210	\$20,020	\$4,050	\$4,680	\$880	\$1,330		

\*\* Includes record electrical drawings.