



**AMENDMENT NO. 4 TO PROFESSIONAL SERVICES AGREEMENT
CONSTRUCTION MANAGEMENT SERVICES
ARROWHEAD WATER PRODUCTION FACILITY REHABILITATION & PECOS SURFACE WATER
TREATMENT PLANT SURGE SYSTEM**

Project No. WA1903.451 and WA1908.451

Council Date: September 21, 2023

Item No.

THIS AMENDMENT NO. 4 ("Amendment No. 04") to the professional services agreement dated May 06, 2021 (the "Agreement") is made by and between the City of Chandler, an Arizona municipal corporation, ("City") and **Wilson Engineers, LLC** ("Consultant"), on this ____ day of _____, 2023 ("Effective Date"). (City and Consultant may individually be referred to as "Party" and collectively referred to as "Parties").

RECITALS

A. The Parties entered into the Agreement for: **Construction Management Services** ("Services") for the **Arrowhead Water Production Facility Rehabilitation & Pecos Surface Water Treatment Plant Surge System** project.

B. The Parties have determined that it is necessary and desirable for the Consultant to perform additional services for the City under the terms and conditions set forth in this Amendment No. 04 and the Agreement.

AGREEMENT

NOW, THEREFORE, in consideration of the premises and mutual promises contained in the Agreement and this Amendment No. 04, the Parties agree to amend and modify the Agreement as follows.

SECTION I – CONSULTANT'S SERVICES

The Consultant's Services remain the same as described in the Agreement.

SECTION II – PERIOD OF SERVICE

The Period of Service remains the same as described in the Agreement.

SECTION III – PAYMENT OF COMPENSATION AND FEES

The Fees are increased by \$219,960.00 and will be payable in accordance with Exhibit "B" attached to and made part of this amendment by reference, for a revised total not to exceed \$937,668.00.

SECTION IV – CONFLICT AMONG DOCUMENTS

The Agreement, this amendment, and any previous amendments constitute the complete agreement between the Parties concerning the subject matter of the Agreement and replace any prior oral or written communications between the Parties. If a conflict or ambiguity arises between the Agreement and this amendment, the instrument in the following order prevails and controls: (1) this amendment; (2) any previous Amendments from most recent to oldest; and (3) the Agreement.

SIGNATURE PAGE TO FOLLOW

IN WITNESS WHEREOF, the Parties hereto have caused this Amendment No. 04 to be duly executed. Each Party warrants and represents that its respective signatories whose signatures appear below have been and are on the date of signature duly authorized to execute this Amendment No. 04.

"CITY" CITY OF CHANDLER

"CONSULTANT"

Wilson Engineers, LLC.

MAYOR

Signature
8/28/23
Date

RECOMMENDED BY:

Print Name

Kimberly Moon, P.E.
CIP City Engineer

Title

APPROVED AS TO FORM:

Signer Email Address

City Attorney

ATTEST:

City Clerk

Seal

Amendment No. 4 (cont.)
Project No. WA1903.451

These changes result in the following adjustments of Agreement amount and/or time:

Amendment authorized by Owner name: Danny Sargent		Date: 07/17/23
Consultant email: phil.noonan@wilson-engineers.com		
Original Agreement amount:	\$623,308	
Previous Amendment(s) total:	\$94,400	
Last Agreement amount approved by Council:	\$623,308	
This Amendment:	\$219,960	
This Amendment + previous Amendment(s) not approved by Council total:	\$314,360	
Revised Agreement total:	\$937,668	
Council Approval Required (yes indicates approval required)	Yes	No
Amendment(s) total over \$100,000:	☒	☐
Amendment(s) total causes Agreement to exceed \$100,000:	☒	☐
Agreement Time		
Agreement time prior to this Amendment (including previous amendments):	<u>854</u> Calendar Days	
Net change resulting from this Amendment:	<u>0</u> Calendar Days	
Revised Agreement time (including this Amendment):	<u>854</u> Calendar Days	
Council Approval (if applicable)		
Council Approval Date: _____ Item No. _____		

cc: Project Manager, Consultant, Owner, File

EXHIBIT A SCOPE OF WORK

**EXHIBIT A
SCOPE OF WORK
CONSTRUCTION MANAGEMENT SERVICES**

Project Description

The project includes the rehabilitation of the Chandler Arrowhead Water Production Facility, an associated 16-inch diameter waterline that runs east along Carla Vista Drive and then south along Arrowhead Drive, and a surge tank addition at the Pecos WTP.

The Arrowhead Pump Water Production Facility rehabilitation includes removal and replacement of the existing vertical turbine pumps, the existing pump suction line, and associated pump cans, potential addition of a concrete vault deck or new vault grating, replacement of the pump discharge header, addition of a new electrical room, replacement of the existing MCC, addition of a new PLC and associated instrumentation conduits/cables, installation of new Variable Frequency Drives, installation of a new bathroom, removal and replacement of the existing generator, modifications to the existing roof structure with the addition of access hatches, replacement of the HVAC unit, new electrical conduits, and general building improvements.

The replacement of an existing 12-inch/16-inch diameter asbestos cement waterline is also part of this project. The Work includes the demolition and removal of approximately 2,100 linear feet of an existing asbestos cement pipe and the installation of new 16-inch diameter PVC pipe in the same alignment. A portion of the waterline will be in the Arrowhead Drive right-of-way alignment, and a portion will be in the Arrowhead Public Park.

The Pecos WTP work within this project includes the installation of a new surge tank along with associated components which include its concrete pad, control system and interface with SCADA. There are also check valves which require replacement.

For this project Wilson Engineers will be conducting the Construction Management Services for the Arrowhead Water Production Facility Modification, associated 16-inch diameter waterline, and overseeing the construction of the Pecos WTP Surge Tank.

Project Tasks

The Consultant will provide following Construction Management services which includes following tasks:

Task 1- PRE-CONSTRUCTION ASSISTANCE

A. Task 1.1 Preconstruction Assistance

- i. Consultant will attend a pre-construction conference. At the conference, the Consultant will identify the services to be provided by Consultant and discuss coordination procedures. Consultant will prepare an agenda for this meeting and will prepare and distribute the meeting minutes.
- ii. Consultant must attend one coordination meeting with the Public Outreach Consultant to review improvements and properties requiring specific outreach efforts.

2. CONSTRUCTION MANAGEMENT

A. Task 2.1 Weekly Construction Meetings

- i. Wilson will conduct weekly construction meetings. Each meeting includes agenda and minutes; Request for Information (RFI); Shop Drawing; Request for Information (RFI); Field Directive (FD); Material Certification; and Allowance Logs. Consultant assumes 20 weekly meetings will be held.

B. Task 2.2 CPM Schedule

- i. Consultant's opinions concerning various scheduling documents produced or used by the Contractor are for information and not controlling on the Contractor. It is Contractor's responsibility to continue to exercise its independent judgement concerning means, methods and sequences of construction it employs. The Contractor remains solely responsible for meeting contract time(s) identified in the construction documents.
- ii. Review Progress Schedule: Consultant will review and critique the Contractor's progress schedule in accordance with the construction documents. Consultant will examine work sequence, durations, interim milestones, and other appropriate scheduling features in accordance with the requirements of the construction documents. Consultant will prepare a summary of the baseline schedule review comments and will meet and discuss the schedule comments with the Contractor and the City. Consultant will provide recommendations for acceptance.
- iii. Review Progress schedule updates: Consultant will review the Contractor's progress schedule updates to the construction schedule in accordance with the construction documents. Consultant will perform a review of progress accomplished during the period and compare to planned schedule and discuss significant discrepancies with the Contractor. Consultant and Contractor will establish, based on the data, the percent of Project completion. Consultant will meet with Contractor on monthly basis to review and update the schedule data. Based upon the schedule update, Consultant will recommend processing progress payments. Consultant assumes six (6) reviews of updated CPM schedule.

C. Task 2.3 Requests for Information (RFI's)

- i. Consultant will receive, distribute and return all Contractor Requests for Information (RFI's); and prepare and maintain a submittal log of all RFI's. Consultant will also coordinate with sub consultants for the Arrowhead Water Production facility and other consultants (Black & Veatch for all associated RFI's related to the Pecos WTP Surge Tank addition, under a separate contract with the City). Consultant assumes an additional twenty (20) RFI responses.

D. Task 2.4 Shop Drawing Submittals

- i. Consultant will receive, and distribute (or take other appropriate action in respect of) shop drawings, samples, test results, and other data which Contractor is required to submit. Consultant will maintain a submittal log showing dates of submittal, transmittal action to other sub-consultants, dates of return, and review action. Copies of the log shall be furnished to the City and the Contractor weekly.

- ii. Consultant will coordinate with sub consultants for the Arrowhead Water Production facility, and other consultants (Black & Veatch for all associated shop drawings related to the Pecos WTP Surge Tank addition, under a separate contract with the City). Consultant assumes a maximum of a twenty additional (20) submittals, with 50% requiring re-submittal and a second review, for a total of 30 submittals.

E. Task 2.5 Requests for Proposal (RFP)

- i. Consultant will prepare Requests for Proposal (RFP) documents detailing requested additional work tasks; review and evaluate Contractor RFP responses (cost deviations) with approval recommendations; and prepare and maintain a submittal log list of all RFP's. Consultant assumes preparation of three (3) RFPs.

F. Task 2.6 Field Directives (FD's)

- i. Consultant, without the City's prior approval, may authorize or direct minor changes in the Work which are consistent with the intent of the construction contract documents and which do not involve a change in Project cost, time for construction, Project scope, aesthetics, or approved design elements. Any such minor changes shall be implemented by written field order. Except as provided in this paragraph, Consultant shall not have authority to direct or authorize changes in the Work without the City's prior written approval; however, Consultant shall provide a copy of any written field order to the City.
- ii. Consultant will prepare and submit change order requests explaining the merits for the change and a recommendation for the City's approval and acceptance.
- iii. Consultant will negotiate an agreement with the Contractor as to scope of work and cost, time or both associated with the change in Work. The change order shall include a written justification for the cost of the Work. Consultant will administer and manage minor changes, change order requests, and change orders on behalf of the City. Change orders shall be prepared on a standard form provided by the City. Should a change order request be accepted by the City in the absence of an agreement with the Contractor as to cost, time, or both, Consultant will:
 - A) receive and maintain all documentation pertaining to the change order request required of the Contractor;
 - B) examine such documentation on the City's behalf;
 - C) take such other action as may be reasonably necessary or as the City may request; and
 - D) make a recommendation to the City concerning any appropriate adjustment in the construction cost and/or time, and prepare a change order for Contractor's acceptance and City approval.
- iv. Changes and substitutions shall be limited to the scope of the Project as defined by the construction documents or additional work as may be requested by the City. Consultant will promptly consult with and advise the City concerning, and shall administer and manage, all change order requests and change orders.
- v. Consultant will prepare, when requested by the City, required drawings, specifications and other supporting data regarding minor changes, change order

requests, and change orders. Consultant must prepare Field Directive (FD) documents detailing requested additional work tasks; review and evaluate Contractor FD responses with approval recommendations; and prepare and maintain a submittal log list of all FD's. Consultant assumes three (3) FD's.

G. Task 2.7 Contractor Payment Applications

- i. Consultant will review, prepare comments, and reach agreement with the Contractor on the progress represented in the Contractor's schedule of values. The monthly schedule update, schedule of values, in combination with Consultant's field inspections, and the progress schedule shall be used by Consultant to determine the appropriateness of the Contractor's request for payment.
- ii. Consultant, as an experienced and qualified professional, and on review of applications for payment and the accompanying data and schedules, determine the amounts owed to Contractor and recommend in writing, payments to Contractor in such amounts; such recommendations of payment will constitute a representation to City, based on such inspections and review, that;
 - A) the work has progressed to the point indicated;
 - B) to the best of Consultant's knowledge, information and belief, the quality of such work is in accordance with the construction documents (subject to an evaluation of such work as a functioning Project upon Substantial Completion, to the results of any subsequent tests called for in the construction documents, and to any qualifications stated in the recommendation); and
 - C) payment of the amount recommended is due and owed to the Contractor.
- iii. For unit price work, Consultant's recommendations for payment will be a determination of completed quantities of such work.
- iv. Consultant assumes a maximum of six additional (6) payment applications, with 2 reviews each.

H. Task 2.8 Public Outreach

- i. Consultant shall retain a public outreach firm (MakPro Services) to assist the City during the construction work. Tasks will include: create and maintain project website; maintain a 24-hour bilingual project hotline to respond to inquiries, complaints and maintain a call log; public weekly email updates; public interactions with property owners as a liaison between property owners and the City; coordination meetings; project meetings; public meeting coordination; federal funds required partnering process (project team partnering meeting, maintaining status).

3. CONSTRUCTION INSPECTION

A. Task 3.1 Inspection Services

- i. The Resident Project Representative (RPR) will maintain a presence at the Project site with sufficient frequency to be knowledgeable about the progress and quality of the work to:

- A) Conduct on-site inspections of the work in progress to assist Consultant in determining if the work is proceeding in accordance with the construction documents and that completed work conforms to the construction documents.
 - B) Report to Consultant whenever it is believed that any work is unsatisfactory, faulty, or defective, or does not conform to the construction documents, or does not meet the requirements of inspections, tests or approval required to be made, or has been damaged prior to final payment; and advise Consultant when it is believed work should be corrected or rejected or should be uncovered for inspection, or requires special testing, inspection or approval.
 - C) Verify that tests, equipment, and systems start-up and operating and maintenance instructions are conducted as required by the construction documents and in presence of the required personnel, and that Contractor maintains adequate records thereof; inspect, record and report to Consultant appropriate details relative to the test procedures and start-ups. Accompany visiting inspectors representing public or other agencies having jurisdiction over the Project, record the outcome of these inspections, and report to Consultant.
- ii. The RPR will prepare daily inspection reports documenting Contractor construction activities and progress during field inspection visits; and perform intermittent erosion control inspections. Consultant assumes one inspector full time 40 hours per week for 5 additional months.

B. Task 3.2 Project Closeout

- i. Following notice from the Contractor, The Consultant will conduct an inspection to determine if the Project or the work associated with interim milestones is substantially complete in accordance with the construction documents. If the Consultant considers the work substantially complete, the Consultant will deliver to the City and the Contractor the Certificate of Substantial Completion and the punch list, the date for completion of the punch list, and recommend the division of responsibilities between the City and the Contractor. If the work is not substantially complete, the process shall be repeated until the work is substantially complete.
- ii. The Consultant will, upon completion of the punch list items as notified by the Contractor, make final inspection to determine if the finished work has been completed to the standard required by the construction documents, determine whether required inspections and approvals for permit compliance have been satisfactorily completed, and Contractor has fulfilled the obligations so that Consultant may recommend, in writing, final payment to Contractor and may give written notice to City and the Contractor that the work is acceptable, subject to any conditions therein expressed and in consultation with the City whether the work is finally complete. At or prior to the final inspection, the Consultant will request the Contractor prepare and furnish;
 - 1) certification that all obligations for payment for labor, materials or equipment related to the work have been paid or otherwise satisfied;

- 2) certification that all insurance and bonds required of the Contractor beyond final payment is in effect and will not be canceled or allowed to expire without notice to the City;
- 3) the written consent of surety for final payment;
- 4) record document information is complete and submitted;
- 5) all keys, manuals, required spare parts, guaranties and warranties, and other documents necessary for close-out of the work; and
- 6) verification of permit close-out including the Certification of Occupancy.

If the work is not finally complete, the process shall be repeated until the work is finally complete. Promptly after the work is determined to be finally complete and the Consultant determines that the Contractor has properly submitted the items required for final inspection, the Consultant will determine whether the Contractor is entitled to final payment and, if so, will so certify to the City.

- iii. The Consultant certification that the Contractor is entitled to final payment constitutes the Consultant representation to the City that;
 - 1) the work complies with (a) the construction contract documents, (b) applicable building codes, rules or regulations of all governmental authorities having jurisdiction over the Project, and (c) applicable installation and workmanship standards;
 - 2) the Contractor has submitted proper Final Completion close-out documents; and
 - 3) the Contractor is entitled to final payment.

The Consultant will provide to the City, at the time it submits a signed final payment request from the Contractor, all Final Completion close-out documents.

- iv. Consultant will not be responsible for the acts or omissions of any Contractor, or subcontractor, or any of the Contractor(s)' or subcontractor(s)' agents or employees or any other persons (except Consultant's own employees and agents) at the site(s) or otherwise performing any of the Contractor(s)' work;

4. UTILITY COORDINATION

A. Task 4.1 Utility Coordination

- i. Consultant must complete Acceptance of Construction (AOC) application and all other necessary documents to obtain MCESD AOC approval.

5. MATERIALS TESTING

A. Task 5.1 Quality Control (QC) Test Program

- i. Consultant must review and verify Contractor's Quality Control material test type and frequencies are consistent with City and MAG; review and evaluate Contractor's QC test schedule and provide recommendations on acceptance;

and review and evaluate all Contractor sampling, test, and inspection results for conformance with construction documents.

- ii. The Consultant will provide material testing service for tests as required to be performed by the City in the construction contract documents. The Consultant will provide the services of a professional construction materials inspection and testing laboratory that meets ASTM E 329 requirements. Inspection and testing shall be coordinated with the construction schedule. Testing and inspection services shall include placement inspection and testing of compacted select fill and backfill, ordinary backfill, paving base, pavement subgrade, and subgrade courses; asphaltic concrete pavement inspection and field density tests and concrete testing and inspection. Samples for testing shall be collected from the construction site and delivered to the laboratory. The laboratory shall provide a construction materials technician (technicians) to perform the field construction materials inspection and field testing services herein outlined.
- iii. Consultant will review laboratory reports and reports of inspection and testing activities describing the tests and inspections made and maintain files of this documentation to be turned over to the City. The laboratory shall itemize any changes in specifications or acceptance criteria authorized by the Consultant and report the actual condition of all items tested and inspected. The laboratory shall report directly to the Consultant's Resident Project Representative and shall receive direction with respect to work activities, duties, duration, reporting procedures, etc., from the Consultant's Resident Project Representative.
- iv. The Consultant's laboratory (and its technician(s)) will inspect and test for the following:
 - 1) Soils Testing: Select backfill, backfill and subgrade materials under and around structures, paved areas, pipe trenches, and duct bank/conduit, etc., for compaction to the appropriate percentage of the moisture-density specified for each material. Selection of areas to be tested shall be made by the Consultant. Placement of select backfill shall be periodically monitored by the technician for compliance with project materials quality specifications. Field moisture-density tests shall be conducted by the technician at the frequency directed by the Consultant. In-place density tests and sampling shall be conducted by the Technician on the compacted asphalt pavement at the frequency designated by the Consultant. Moisture-density relationships shall be determined in accordance with the moisture-density specifications specified for this Project, utilizing the appropriate method for each material type. Optimum moisture and maximum density remolded swell and plasticity index testing as required for each sample submitted. Soil sieve analyses shall be conducted prior to placement of select backfill, and embedment and all granular fill materials.
 - 2) Concrete Placements: The laboratory's technician shall monitor the concrete materials, as delivered to the Project site, for compliance with the requirements of the Construction Contract Documents. These requirements include temperature, slump, air content, time of delivery and composition as delivered. The technician shall report any deviations from the Construction Document requirements to the Consultant's Resident Project Representative. Consultant's Representative will determine the acceptability of the products.

The technician shall prepare and deliver (to the laboratory for testing) the concrete test cylinders in accordance with the Construction Contract Documents and appropriate American Concrete Institute (ACI) Standards.

Deliver to the laboratory, from the construction site, the concrete test cylinders prepared by the Technician. Provide test cylinder control system in accordance with the Laboratory's standard control procedure.

- 3) Testing of Hot Mix Asphaltic Concrete: Bitumen extraction, aggregate gradation, bitumen content, laboratory density and stability test shall be performed for paving operations.
- 4) Additional Testing: Additional testing services that may be required throughout the life of the construction period will be provided at the Consultant's request. Fees for these services will be invoiced through the Consultant to the City at the laboratory's standard unit rates in effect at the time these services are provided.

B. Task 5.2 Quality Assurance (QA) Test Program

- i. Consultant must prepare and maintain a materials Quality Assurance plan per City and MAG.
- ii. Consultant must coordinate with Contractor's testing representative to obtain required QA tests and sample; complete sampling and compaction testing of subgrade (including lime-stabilized subgrade base), aggregate base and asphalt concrete materials in new asphalt concrete pavement areas; complete sampling and compaction testing of subgrade, aggregate base (where required) and concrete for new curbs, gutters, sidewalks and concrete pavement and structures; and complete sampling and compaction testing of backfill for new irrigation, sewer, water, storm drain pipe, and dry utilities.
- iii. Written reports of all testing results which identify the required data and identify conformance or non-conformance with the Construction Contract Document will be maintained by the Consultant and provided to the City at the completion of the Project. The Consultant will take appropriate action on all such testing and inspection reports, including acceptance, rejection, requiring additional testing or corrective work, or such other action the Consultant deems appropriate. The Consultant will promptly reject Work which does not conform to and comply with testing requirements.

6. RECORD DRAWINGS

- A. **Task 6.1 Record Drawings** (Not Included with this Scope, Included with Post Design Services)

7. ALLOWANCES

- A. **Task 7.1 Start-up Assistance and MOPOs**

- i. The start-up process will include a planned, systematic approach to verify that facility systems operate as intended and there is an orderly transition from construction phase to routine operation. The start-up assistance will include four phases with estimated durations as follows:
- ii. Start-up Plan: Consultant will review a start-up plan and procedures prepared by the Contractor with the City staff. The start-up plan will include identification of key milestone activities necessary for orderly start-up of the facilities. The milestone activities will include completion of any construction activities required for substantial completion, coordination of required Contractor maintenance activities, etc.
- iii. The Consultant will assist the Contractor with the start-up and testing of new facilities. Following a sequentially coordinated initial start-up of the facility, the facility would be operated continuously. The Consultant will verify that, all mechanical equipment, associated hydraulic control devices, and conveyance components operate properly under actual operating conditions. This includes the verification that all hardwired electrical control interlocks and safeguards are functioning properly.
- iv. The Consultant will maintain documentation of the areas of operational concern encountered during the manual start-up phase with a determination of whether the item of concern is a Contractor warranty issue or requires a design modification. The Consultant will monitor the documented concerns and promptly notify the Contractor of all warranty issues.
- v. Design modifications will be promptly evaluated by the Consultant and recommendations shall be presented to the City for a determination of the necessity for implementation. The Consultant will complete the necessary check out of the instrumentation system components and initial loading of the control software simultaneously computer operation mode can be verified for each process
- vi. There will be shutdowns associated with the new work that needs to be conducted within the vicinity of existing equipment etc. Coordination is required with the Contractor to keep shutdowns to a minimum. The Consultant shall review the Contractors proposals for any temporary conveyance facilities. For work within the areas of shutdowns, the Consultant shall review list of labor materials, estimation of time, and equipment necessary and written description of the work.

B. Task 7.2 Operations Manual

- i. The Consultant will update the existing content that is in the current facility Operations Manual. The Consultant will update the current Operations Manual content to reflect modifications to existing facilities.
- ii. Additions and modifications to the facility Operations Manual will cover new, or any modified and upgraded pump station and auxiliary systems included in the Project. New areas of the facility will be created as new sections of the Manual

and will be completed in conjunction with the specific completion milestones of construction.

- iii. Prior to submitting the final version of the Operations Manual and transferring to the City, the Consultant will conduct a detailed final validation and field verification process. Through this important quality control activity, the Consultant will verify that:

- 1) Content has been field-verified and checked at the installation.
- 2) Photographs are current and are reflective of well-maintained and clean conditions.
- 3) Relevant documentation, such as scanned documents, figures and drawings are appropriately categorized for insertion into the database.
- 4) Standard Operating Procedures are accurate and reflect actual "as-operated" conditions.

C. Task 7.3 PLC Programming and Startup Services

- i. The Consultant will provide PLC Programming and Startup Services for the Arrowhead Water Production Facility (Jensen Systems). The scope of services will include installation of a PLC test program and witness at Factory Acceptance Testing (FAT), conduct SCADA interface testing, participate in I/O field point-to-point testing, configuration and set-up of Radio communication to the City SCADA system, and witness calibration checks and sign calibration reports.
- ii. The scope of services includes demonstration of the operation of the PLC program, providing PLC program documentation and training City staff.

ASSUMPTIONS, CLARIFICATIONS, AND EXCLUSIONS

The extent and limitations of the duties, responsibilities, and authority of Consultant as assigned herein shall not be modified, except as Consultant may otherwise agree in writing. City's instructions to Contractor(s) shall be issued through Consultant, who shall have authority to act on behalf of the City to the extent provided in this Scope of Services, except as otherwise provided in writing.

Consultant shall not be responsible for the means, methods, techniques, sequences, or procedures of construction selected by Contractor, unless otherwise specified in the construction documents or the safety precautions and programs incident to the work of Contractor. Consultant efforts shall be directed toward providing a greater degree of confidence for the City that the completed work of Contractor shall conform to the Contract Documents, but Consultant shall not be responsible for the failure of Contractor to perform the work in accordance with the construction documents.

The Consultant review shall only be for conformance with the design concept of the Project and compliance with the information given in the construction documents. Such review or other action shall not extend to means, methods, sequences, techniques, or procedures of construction selected by Contractor or to safety precautions and programs incident thereto. The Consultant shall receive and review (for general contents as required by the construction documents) maintenance and operating

EXHIBIT B
FEE SCHEDULE



EXHIBIT "B"
CONSTRUCTION MANAGEMENT
SCOPE OF SERVICES
ARROWHEAD WPF AND PECOS WTP
FEE SCHEDULE

Task	Description	Cost
1	PRE-CONSTRUCTION ASSISTANCE	
1.1	Pre-Construction Assistance	\$ -
	SUBTOTAL TASK 1:	\$ -
2	CONSTRUCTION MANAGEMENT	
2.1	Weekly Construction Meetings	\$ 6,600.00
2.2	CPM Schedule	\$ 7,800.00
2.3	Requests for Information (RFI)	\$ -
2.4	Shop Drawing Submittals	\$ -
2.5	Requests for Proposal (RFP)	\$ -
2.6	Field Directive (FD)	\$ 18,840.00
2.7	Contractor Payment Applications	\$ 22,080.00
2.8	Public Outreach	\$ -
	SUBTOTAL TASK 2:	\$ 55,320.00
3	CONSTRUCTION INSPECTION	
3.1	Inspection Services	\$ 118,200.00
3.2	Landscape/Irrigation Inspection Services (IF APPLICABLE)	\$ -
3.3	Project Closeout	\$ 16,470.00
	SUBTOTAL TASK 3:	\$ 134,670.00
4	UTILITY COORDINATION	
4.1	Utility Coordination	\$ 2,710.00
	SUBTOTAL TASK 4:	\$ 2,710.00
5	MATERIALS TESTING	
5.1	QC Test Program	\$ -
5.2	QA Test Program	\$ -
	SUBTOTAL TASK 5:	\$ -
6	RECORD DRAWINGS	
6.1	Record Drawings	\$ -
	SUBTOTAL TASK 6:	\$ -
7	ALLOWANCES	
7.1	Start-up and MOPO Services	\$ 10,020.00
7.2	Operations Manual	\$ 14,740.00
	SUBTOTAL TASK 7:	\$ 24,760.00
SUBCONSULTANTS		
	K&I Architects	\$ -
	Heerup Engineering	\$ -
	Jensen Systems	\$ -
	RFI Consultants	\$ -
	Materials Testing	\$ -
	Mak Pro Consulting	\$ 2,500.00
	SUBTOTAL SUBCONSULTANTS:	\$ 2,500.00
ALLOWANCES		
	Direct Expense Allowance	\$ -
	Owner's Allowance	\$ -
	SUBTOTAL ALLOWANCES:	\$ -
PROJECT TOTAL:		\$ 219,960.00

WILSON ENGINEERS

EXHIBIT "B-2"
Hours and Rates

TASK DESCRIPTION	Principal \$ 205.00	Sr. PM/Sr CM \$ 195.00	Project Engineer \$ 145.00	Electrical Engineer \$ 145.00	Lead Inspector \$ 135.00	Elec Inspector \$ 135.00	Sr CADD Tech \$ 100.00	Sr Admin \$ 85.00	< PROJECT ROLE > HOURLY RATES
1. Preconstruction Assistance	0	0	0	0	0	0	0	0	0
Preconstruction Assistance	0	0	0	0	0	0	0	0	0
2. Construction Management	0	140	80	20	68	0	40	4	352
Weekly Construction Meetings and Minutes	0	20	0	0	20	0	0	0	40
Review CPM Schedule and Updates	0	40	0	0	0	0	0	0	40
Prepare and Maintain RFI Log	0	0	0	0	0	0	0	0	0
Prepare and Maintain Submittal Log	0	0	0	0	0	0	0	0	0
Maintain RFP Submittal Log	0	0	0	0	0	0	0	0	0
Prepare and Maintain Field Directives	0	0	80	20	0	0	40	4	144
Review Monthly Pay Apps and Recommend	0	80	0	0	48	0	0	0	128
Coord on Public Outreach and Attend Mtg	0	0	0	0	0	0	0	0	0
3. Construction Inspection	0	98	0	0	720	136	0	0	954
Inspection Services	0	80	0	0	640	120	0	0	840
Landscape Irrigation Services (if applicable)	0	0	0	0	0	0	0	0	0
Project Closeout	0	18	0	0	80	16	0	0	114
4. Utility Coordination	0	2	16	0	0	0	0	0	18
Preconstruction Assistance	0	2	16	0	0	0	0	0	18
5. Materials Testing	0	0	0	0	0	0	0	0	0
QC Test Program	0	0	0	0	0	0	0	0	0
Prepare and Maintain Materials QA Plan	0	0	0	0	0	0	0	0	0
6. Record Drawings	0	0	0	0	0	0	0	0	0
Record Drawings	0	0	0	0	0	0	0	0	0
7. Allowances	0	14	100	24	14	16	0	0	168
Start up Assistance and MOPO	0	6	40	8	6	8	0	0	68
Operations Manual	0	8	60	16	8	8	0	0	100
8. Other Direct Costs									
9. Owner's Allowance									
TOTAL HOURS:	0	254	196	44	802	152	40	4	1492