



February 6, 2019

California American Water
511 Forest Lodge Rd, Suite 100
Pacific Grove, CA 93950
ATTN: Donald Monette
Jay V. Drewry
Email: donald.monette@amwater.com
Jay.Drewry@amwater.com

Re: **ASR 5 & 6, Above Ground Facility; HHCI Clarification**
Response due: February 6, 2019 at 4:00 PM

Dear Mr. Monette and Mr. Drewry,

Thank you for your consideration of Hal Hays Construction, Inc. (HHCI) for this key project. We consider it an honor to support California American Water.

Per your request, attached are the clarifications for Fitch Park ASR Wells 5 & 6, Above Ground Facility.

Offeror Information

Address	4181 Latham Street, Riverside, CA 92501	License #	667560
Tax ID #	54-2084366	Phone	(951) 788-0703
		Estimating Fax	(951) 289-7112

Persons Authorized to Negotiate

Names & Titles	Kirby Hays, President/CEO Reza Afshar, Civil Estimator	Emails	khays@halhays.com rafshar@halhays.com
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If you have any questions regarding this proposal, please feel free to contact us.

Best regards,

Kirby S. Hays
CEO
Hal Hays Construction, Inc.
khays@halhays.com



CAW MONTEREY PENINSULA WATER SUPPLY PROJECT
DESIGN BUILD OF FITCH PARK ASR WELLS 5 & 6 ABOVE GROUND FACILITIES
SEASIDE, CA
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1. BID FORM: Bid Item 2, is to be applied *only to the remainder of the design services that are not included in bid items, 1,3-42.* Provide a cost estimate for bid item 2 as described below in 3.

HHCI confirms that Bid Item 2 applied only the remainder of the design services that are not included in bid items 1, 3-42. Below is a summary of those activities as required by Scope of Design Services (SDS) as follows:

Design costs carried in item #2:

- SDS A.6: Total interaction with all utility companies.
- SDS A.7: Determine all necessary permits and prepare applications – *except Building Code Review is in Bid Item 4.*
- SDS A.8: Preparation of preliminary budget construction cost estimate.
- SDS A.9 and Appendix H: Preparation of Design Memorandum with a 15% Design, provided as Draft and Final, with updates to the Design Memorandum throughout the design.
- SDS A.10: Preparation of a narrative description of operations as an extension to the Design Memorandum (functional descriptions)
- SDS C.2: Shop drawing and approvals including review and approval of resubmittals, and maintenance of shop drop log indicated dates received returned and status. *Assumed 24-electrical and 30-other submittals and resubmittals.*
- SDS C.3: Preparation of supplementary detailed working drawings, specifications, and written instructions throughout construction. *Assumed 12-Electrical RFIs, and 15-civil/ mechanical/ structural/ architectural RFIs.*
- SDS C.5: Provide the services of the Design Project Manager/Engineer during startup, at least five (5) days. Allow ten (10) site visits for Engineers from all other engineering disciplines to resolve start-up issues. *Assumed 5 Days for Civil Engineer, 10 Visits for Electrical Engineer, 3 Visits for Architect, 1 Visit for Structural.*
- SDS C.8: Provide services of Design Project Manager for one (1) days on a twelve months anniversary inspection with written report summarizing warranty repairs and any operational modifications recommended to optimize performance.
- Agreement Section 14.08-B: SRF Funding Reimbursement Technical Assistance. *Assumed 2 hours per month throughout design and construction.*
- Project Management and QA/QC: *Assumed 1 hour per week and 1 hour per each major deliverable.*

2. BID FORM: Bid Item 66, is intended for the contractor to price the two electrical buildings for site ASR 5 and ASR 6. The contractor has changed the quantity from 2 to 1 in your proposal. It should remain as a quantity of 2. Indicate unit price for each electrical building, and for the total of two buildings.

It is confirmed that the price in bid item # 66 covers both buildings. Please see attachment 1 for an updated price sheet.

3. DESIGN PROFESSIONAL SERVICES COST ESTIMATE: Provide a professional services cost estimate of the design services including itemizes Task, Task Description, Hourly Rate, Professional Classification, estimated hours for completion of the tasks, and cost for each line item. The dollar amounts for design services are to match the proposal for PF-3, items “a, b, c, d”.

Please see attachments 2a, 2b & 2c for Task Breakdown, Hourly rate, professional classification, estimated hours for completion of the tasks, and costs for each line item. There is a supplemental task description document that elaborates on what is included with each design task.

4. PROPOSAL FORM PF-3 “e”: All items “a, b, c, and d” on this for are for design services/pre-construction services during design, and are compromised of bid items 1-42. Total construction cost “e” is to be entered on form PF-3, as the total of bid items 43-73.

Please see attachment 3, updated PF-3. The reason that in the original proposal, the difference between items a + b+ c + d and items 1-42 was \$346,977 is because the “30% contingency” cost requirement was spread through items a-d, and was added as a line item at that bottom of the overall price sheet. Updated PF-3 now shows the actual design price (which matches 1-42), and adds the 30% contingency on the side.

5. CONTRACTOR’S EQUIPMENT MANUFACTURER’S LIST: Bid addendum 3 required the list of the major equipment that contractor intended in the bid price. This had not been provided. Review the attached list of Cal Am equipment; circle the choice of equipment, and that equipment only on the list. Return the list you have selected.

Please see attachment 4, circled list of major equipment included in the bid price.

6. LIST OF DRAWINGS (DRAWING INDEX): Prepare the required list of drawings anticipated for the project in a drawing index. Approximately 80-90 drawings are required for this project. Justify your index necessary so that the reviewer understands your intent for scope design services.

Please see attachment 5, Drawing Index from HHCI’s DOR, LSCE. This list of 80 design drawings encompasses the project scope of work. Additionally, it is anticipated that key subconsultant, Telstar Instruments, will provide 8-10 detailed shop drawings to supplement the design drawings pertaining to their scope of work.

7. LIST OF CSI SPECIFICATIONS: Prepare a list of CSI specifications that are anticipated for this project. See attached CSI list of specifications, review and delete by cross-out, any inappropriate specifications, and if necessary why a specification is not applicable.

Please see attachment 6, Modified/Red-lined List of Project Specifications from HHCI's DOR, LSCE.

8. SDS-10: See attached copy of the scope of work requirements that were included in the RFP. Initial each page at the bottom as confirmation that you are providing the required scope of work. If you have exceptions, provide clear explanations.

Please see attached initialed sheets (Attachment 7).

9. Bid ADDENDUM 3: Provide the list of SCADA/instrumentation equipment you have selected for the project. This list was required as part of the proposal. Circle the equipment for this project from the list, and return the list. Do not remove any pages.

Please see attachment 8, circled list of SCADA/Instrumentation equipment included in the bid price.

10. BID ADDENDUM 3: Select one of the two system integrators: either Telstar or Controls System West. This selection was required as part of the proposal.

HHCI selects Telstar as the System Integrator for this project.

11. BID ADDENDUM 5: Provide confirmation that you bid offer includes the Allen Bradley 18 PWM VFD per addendum 5. Provide the option as described for the active front-end drive as an option items 1-17 are provided in the bid price.

Confirmed. HHCI's price includes the Allen Bradley 18PWM VFD per addendum 5. The option for the active front-end drive needs to be explored further, and will be as part of the design efforts, however, we can confirm that the price for this option will not exceed the price as currently specified.

Please see attachment 9. For a general comparison between the Allen Bradley 18 PWM VFD and Active Front-End (AFE) Drives as well as responses to option items 1-17.

Additionally, it was confirmed during this RFI process that Allen Bradley inadvertently failed to include pricing for the specified enclosure as well as the required spare parts list for the project. Their pricing has been updated to reflect this (Bid Item #69).

12. SCHEDULE: The schedule is not acceptable. However, your schedule will be revised if your proposal is accepted.

Understood.

13. GENERATOR: Provide the required information per Bid Addendum 5.

Generator - We will keep the generator within the following parameters with all loads considered for this project:

Engine HP under 82% utilization

Alternator harmonics below 7%

Voltage dip <10% during ramping

Voltage regulation at <1% during steady state operation.

FYI: This yields a 900kw unit with 1000kw alternator. Not sure what was assumed for the proposal.

California American Water Monterey Peninsula Water Supply Project Design Build of Fitch Park ASR Wells 5 & 6 Above Ground Facilities

Attachment 1: **Bid Form**

MONTEREY PENINSULA WATER SUPPLY PROJECT
ASR 5 AND 6 - DESIGN BUILD
ABOVE GROUND FACILITIES PROJECT

10/20/2018
Rev. 0

BID ITEM	APPROX. QTY.	UNIT	DESCRIPTION WITH UNIT PRICE (PRICE IS INCLUSIVE OF ALL APPLICABLE TAXES, PROFIT, INSURANCE, BONDS AND OTHER OVERHEAD)	UNIT PRICE	TOTAL ITEM PRICE
<u>PREDESIGN/DESIGN SERVICES</u>					
1	1	ALLOW	Community Outreach	\$7,000.00	\$7,000.00
2	1	LS	Design Services (Part III. Scope of Design Services, SDS 1-10)	\$202,325.00	\$202,325.00
3	1	LS	Dust and Noise Control Plan & Implementation	\$14,120.00	\$14,120.00
4	1	LS	Building Code Review, Procedures & Plan	\$5,325.00	\$5,325.00
5	1	LS	Mobilization, Security Fencing, Access Plan	\$65,060.00	\$65,060.00
6	1	LS	Temporary Power Plan	\$3,200.00	\$3,200.00
7	1	LS	DUPLICATE- Mobilization, Security Fencing, Access Plan, etc.		\$0.00
8	1	LS	SWPPP/Erosion & Sediment Control Plan	\$22,215.00	\$22,215.00
9	1	LS	Environmental Requirements {Permits 2.7.3}	\$3,100.00	\$3,100.00
10	1	LS	AVETTA Certification (2.7.3)		\$0.00
11	1	LS	Utility Potholing & AutoCAD Mapping	\$5,000.00	\$5,000.00
12	1	LS	Staking/Surveying Plan, Mapping, & Implementation	\$35,000.00	\$35,000.00
13	1	LS	Geotechnical Investigations & Borings, Soils Report (2 Sites)	\$22,300.00	\$22,300.00
14	1	LS	Demolition of Existing Structure Plan	\$1,500.00	\$1,500.00
15	1	LS	Traffic Control Plans & Implementation	\$6,700.00	\$6,700.00
16	1	LS	Acceptance Testing Plan & Implementation(2.7.4)	\$2,000.00	\$2,000.00
17	1	LS	Quality Management Plan (Design & Construction, (2.7.5)	\$3,500.00	\$3,500.00
18	1	LS	Materials Testing Plan (e.g. Concrete & Soils)	\$67,110.00	\$67,110.00
19	1	LS	Pump Test Plan & Performance Testing	\$1,025.00	\$1,025.00
20	1	LS	DELETED PER ADDENDUM 4		\$0.00
21	1	LS	Inspection & Test Procedures & Plan	\$16,125.00	\$16,125.00
22	1	LS	Factory Acceptance Testing/Designer Inspections, (SDS-9)	\$12,805.00	\$12,805.00
23	1	LS	Operations & Maintenance Training (2.7.6)	\$4,000.00	\$4,000.00
24	1	LS	Installation Operation, & Maintenance Manual (IOM), Scanned pdf & CD,	\$1,100.00	\$1,100.00
25	1	LS	Start-Up & Commissioning Procedures Plan	\$11,625.00	\$11,625.00
26	1	LS	Facility/Utility Shut-Down Plan	\$2,010.00	\$2,010.00
27	1	LS	Warranty & Acceptance Test Plan	\$9,860.00	\$9,860.00
28	1	LS	CSI format Technical Specifications (16 Divisions)	\$58,650.00	\$58,650.00
29	1	LS	Assess Validity, Evaluate, Analyze Accuracy of Preliminary Design	\$16,320.00	\$16,320.00
30	1	LS	Architectural Drawings/Renderings for Agency Approvals	\$63,890.00	\$63,890.00
31	1	LS	Civil Drawings, Auto Cad, Full and Half-Sizes	\$52,100.00	\$52,100.00
32	1	LS	Mechanical Drawings, Auto Cad, Full and Half-Sizes	\$56,385.00	\$56,385.00
33	1	LS	Electrical & Drawings, Auto Cad, Full and Half-Sizes	\$99,280.00	\$99,280.00
34	1	LS	Plumbing Drawings, Auto Cad Full and Half-Sizes	\$9,450.00	\$9,450.00
35	1	LS	Instrument Drawings, Auto Cad Full and Half Sizes	\$39,350.00	\$39,350.00
36	1	LS	HVAC Drawings, Auto Cad, Full and Half Sizes	\$12,315.00	\$12,315.00

37	1	LS	Process (P& ID) Drawing Updates, Add Disinfection, Auto Cad, Full/Half Sizes	\$60,300.00	\$60,300.00
38	1	LS	As-Built Drawing & Conformed Drawings in Auto-CAD	\$42,950.00	\$42,950.00
<u>PROJECT MANAGEMENT/CONSTRUCTION MEETINGS/REVIEWS</u>					
39	1	LS	Design Meetings (10)	\$32,700.00	\$32,700.00
40	1	LS	Construction Meetings (24)	\$65,300.00	\$65,300.00
41	1	LS	Constructability Review (3)	\$9,415.00	\$9,415.00
42	1	LS	Value Engineering (3)	\$14,180.00	\$14,180.00
<u>PROCUREMENT/CONSTRUCTION</u>					
43	1	LS	Mobilization/demobilization, Phase 1	\$131,000.00	\$131,000.00
44	1	LS	Mobilization/demobilization, Phase 2	\$255,000.00	\$255,000.00
<u>CIVIL/MECHANICAL/PROCESS</u>					
45	1	LS	Site Preparation for Phase 1 Well Drilling (2 Sites)	\$79,100.00	\$79,100.00
46	1	LS	Site Preparation, All other work, Phase 2	\$125,340.00	\$125,340.00
47	1	LS	On-Site Drainage Percolation System, Infiltration Tests	\$62,825.00	\$62,825.00
48	1	LS	AC Pavement and Subgrade (Tech, Req, Appendix 1)	\$193,740.00	\$193,740.00
49	1	LS	Site Access & Perimeter Chain Link Fencing, & 7 ft. height, Double Gates (both sites)	\$76,505.00	\$76,505.00
50	1	LS	ASR Underground Pipeline connections to General Jim Moore Blvd at ASR 5 and 6 (Sheet I-1, Appendix 1)	\$319,190.00	\$319,190.00
51	1	LS	ASR Above Ground Piping/Valves (Sheet I1 G1, M1 Appendix 1)	\$235,650.00	\$235,650.00
52	1	LS	Cla-Val Valves, remote controlled, fusion bonded epoxy coating in/out, 110V solenoid manual override, stainless steel trim, indicating limit switches, pilot strainer, open/close speeds, isolation cocks (Tech Req, G1, M1 Appendix 1)	\$119,830.00	\$119,830.00
53	1	LS	Flow meters, Sparling 656 Tigermag magnetic, local display plus remote transmission 4-20 mA output, polyurethane liner, bidirectional rate and bidirectional totalizing functions (Tech Req, Appendix 1)	\$61,080.00	\$61,080.00
54	2	EA	Pump water flush lube system, real time flow measurement and lube line differential pressure instrumentation, with interlock shutdown of well pump upon loos of low or pressure in lube line (Tech Req, Appendix 1)	\$20,680.00	\$41,360.00
55	1	LS	DUPLICATE - ASR Underground Pipeline connections to General Jim Moore Blvd at ASR 5 and 6 (Sheet I-1, Appendix 1)		\$0.00
56	1	LS	DUPLICATE - ASR Above Ground Piping/Valves (Sheet I1 G1, M1 Appendix 1)		\$0.00
57	1	LS	Isolation Valves, (with manual operators larger than 8" diameter)	\$11,215.00	\$11,215.00
58	2	EA	DELETED PER ADDENDUM 4		\$0.00
59	2	EA	DELETED PER ADDENDUM 4		\$0.00
60	2	EA	DELETED PER ADDENDUM 4		\$0.00
61	1	LS	Complete Chemical Offloading Facility for bulk sodium hypochlorite deliver off-loading, with wash-down pad sized for WB-50/5,000 gallon storage tanker truck, local control panel, audible alarm, and warning lights, sump, and sump pump and underground chemical resistant storage tank 1000 gal., Compressed air supply to pressurize truck and offload chemical, Operator Interface Panel with level indicator for chemical level in bulk tank, safety showers (2), eyewash stations (2), chemical injecting quills, and injecting ports with static mixers for hypochlorite injection (at ASR 5 SITE ONLY.)	\$29,560.00	\$29,560.00

62	1	LS	Complete Disinfection Process Facility for Sodium Hypochlorite system (12.5% solution strength), assume dosing up to 3 mg/l, storage of 30 days supply of bulk storage, FRP bulk storage tank, (2) day tank, (2) bulk transfer pumps, (2) chemical metering pumps, piping and valves, and ancillary equipment. Note a P & ID has not been completed. Contractor shall attach proposed P & ID with the bid for approval. Assume double containment for all chemical storage and dispensing equipment (at ASR 5 SITE ONLY).	\$134,525.00	\$134,525.00
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Structural/HVAC

63	1	LS	Complete ASR 6 Electric/Controls Bldg. 380 sq. ft. interior minimum, Removable Sound Attenuation Enclosure around pump, non-combustible CMU with Concrete Plank Roof, UBC Type U Building Classification, Mediterranean style, similar to ASR 3 & 4 (Appendix 1)	\$370,000.00	\$370,000.00
64	1	LS	Complete ASR 5 Electric/Controls Bldg. (min interior 350 sq. ft.) and Disinfection Bldg. (min. interior 650 sq. ft.). interior minimum, Sound Attenuation Enclosure around pump, non-combustible CMU with Concrete Plank Roof, UBC Type U Building Classification, Mediterranean style, similar to ASR 3 & 4 (Appendix 1)	\$676,980.00	\$676,980.00
65	2	EA	Complete HVAC, Air Conditioning with Economizer mode systems each for Electrical/control Building (Tech Req, Appendix 1)	\$46,160.00	\$92,320.00

Electrical

66	2	LS	Complete Electrical Systems, for NEC calculated full-load amperage (FLA) of 1282 amperes, which includes pump, & misc. auxiliary loads, as shown in "Table MSB & Feeder Load Schedule" on Drawing E-1. Panels sizes for 1600-ampere meter/main	\$428,062.50	\$856,125.00
67	2	EA	Short Circuit and Arch Flash Studies, developed per Cal Am standards, and PGE system data (Appendix 1, 3, 4).Layout per Dwg E-2, Appendix 1.	\$10,200.00	\$20,400.00

Instrumentation/Controls

68	2	EA	Complete control system, functionality including start, stop, speed control of the pumps, based on either flow or pressure set point, or manual adjustment. actuation of the Cla Val process valves, Alarm, warning and shutdown interlock functions, record and store process operational data, communicate with main Cal-Am SCADA system, PLC with 10% spare digital I/O, local control panel (LCP), (Tech Req, Drawing I-1, Appendix 1)	\$28,130.00	\$56,260.00
69	2	EA	Variable Frequency Drive (VFD), indoor NEMA 1G, 18 pulse PWM, No bypass, Heavy Duty Service (50 C rated), dv/dt output filter, Allen Bradley Power Flex 755	\$329,695.00	\$659,390.00
70	2	EA	Programmable Logic Controllers, Allen Bradley only. PLC program and OIP screens programmed to control the pumps and show booster and well pump operation, status, and alarms, indicated in Tech requirements and on P & ID, Appendix 1	\$31,085.00	\$62,170.00
71	2	EA	Data System to Transmit Data via SCADA to Cal Am's central Office in Pacific Grove via cellular modem.	\$18,880.00	\$37,760.00
72	2	EA	Local Operator Interface Panel (OIP), on front of each control panel. PLC program and OIP screens programmed to control the pumps and show booster and well pump operation, status, and alarms, indicated in Tech requirements and on P & ID, Appendix 1	\$14,270.00	\$28,540.00
73	1	LS	Differential Pressure Transmitters, and pressure transmitters, heat traced and mounted in O'Brien instrument enclosures All transmitter tubing shall be heat traced	\$32,340.00	\$32,340.00

Subtotal		\$ 5,924,795
Contingency	30%	\$ 1,777,439
		\$ 7,702,234

OPTIONS

OPTION ITEM	APPROX. QTY.	UNIT	DESCRIPTION WITH UNIT PRICE (PRICE IS INCLUSIVE OF ALL APPLICABLE TAXES, PROFIT, INSURANCE, BONDS AND OTHER OVERHEAD)	UNIT PRICE	TOTAL ITEM PRICE
1	1	ALLOW	Restore concrete curb and gutter at bike path	\$8,000.00	\$8,000.00
2	1	LS	Construct 10x10 Restroom Building at ASR-5 Site	\$110,122.00	\$110,122.00
Subtotal					\$ 118,122

VALUE ENGINEERING

VE ITEM	APPROX. QTY.	UNIT	DESCRIPTION WITH UNIT PRICE (PRICE IS INCLUSIVE OF ALL APPLICABLE TAXES, PROFIT, INSURANCE, BONDS AND OTHER OVERHEAD)	UNIT PRICE	TOTAL ITEM PRICE
1	1	LS	Deduct if able to remove 30% Design Deliverable (plans / specs) and meeting	-\$33,000.00	-\$33,000.00
2	1	LS	Deduct if able to reduce the number of Design Meetings from 10 to 5 meetings	-\$13,500.00	-\$13,500.00
3	1	LS	Deduct if able to reduce the number of Construction Meetings the Designer is required to attend from 24 to 12 meetings	-\$20,000.00	-\$20,000.00
4	1	LS	Deduct if able to reduce Electrical Engineer site visits during Start-up from 10 to 5 site visits	-\$9,500.00	-\$9,500.00
Subtotal					\$ (76,000)

California American Water Monterey Peninsula Water Supply Project Design Build of Fitch Park ASR Wells 5 & 6 Above Ground Facilities

Attachment 2a: **DOR's Breakdown Summary**

Hal Hays Construction, Inc
 Owner: California American Water
 Project: Design-Build FP ASR Wells 5

Cost of Service Proposal

HHCI's OH+P

Date: December 7, 2018

Task	Billing Level	LSCE					SUB CONSULTANTS					DIRECT EXPENSES		TOTALS (Engineers)	TOTALS (HHCI's PH+P)	TOTALS	
		Principal Professional	Supervising Engineer	Project Engineer	Staff Engineer	AutoCAD Drafter	Electrical Engineer	Instrumentaion Engineer	Structural Engineer	Building Architect	Acoustical Engineer	Travel	Copies / Reproduction				
	Billing Rate (\$/Hr)	\$225	\$210	\$170	\$145	\$140	Lump*		Lump*	Lump*	Lump*	Incurred	Incurred				
A. Preliminary Design up to and Including Issuing of the Design Memorandum	LSCE (hours) LSCE (cost) Subconsultant Direct Expenses	30 \$6,750	140 \$29,400	90 \$15,300	110 \$15,950	210 \$29,400	\$50,084	\$20,500	\$9,289	\$20,973					580 \$96,800 \$100,846 \$3,500		
	Subtotals											\$1,500	\$2,000	\$201,146	\$30,172	\$231,318	
B. Preliminary Design Completion through Final Design Phases	LSCE (hours) LSCE (cost) Subconsultant Direct Expenses	40 \$9,000	280 \$58,800	113 \$19,210	230 \$33,350	300 \$42,000	\$84,351	\$28,939	\$13,498	\$46,800					963 \$162,360 \$173,588 \$6,000		
	Subtotals											\$1,000	\$5,000	\$341,948	\$51,292	\$393,240	
C. Construction/Operation Phase	LSCE (hours) LSCE (cost) Subconsultant Direct Expenses	8 \$1,800	390 \$81,900	60 \$10,200	160 \$23,200	100 \$14,000	\$94,051	\$39,434	\$3,450	\$18,078					718 \$131,100 \$155,013 \$5,650		
	Subtotals											\$4,150	\$1,500	\$291,763	\$43,649	\$335,412	
Total LSCE Hours		78	810	263	500	610								2261			
Total LSCE Cost		\$17,550	\$170,100	\$44,710	\$72,500	\$85,400								\$390,260			
Total Sub-Consultant Cost							\$228,486	\$88,873	\$26,237	\$85,851	\$0			\$429,447			
Total Direct Expenses Cost											\$6,650	\$8,500	\$15,150				
COST OF SERVICE PROPOSAL - TOTAL													\$834,857	\$125,113	\$959,970		