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# City of Carson City Agenda Report

Date Submitted: No	Time Requested: November 13, 2007  Time Requested: November 13, 2007  Time Requested: November 13, 2007
To:	Mayor and Supervisors
From:	Purchasing & Contracts
Packaged Arsenic W	Action to determine that Hungerford & Terry, Inc. is the lowest responsive er pursuant to N.R.S. Chapter 332 and award Contract No. 0708-046 fater Treatment Plant Equipment to Hungerford & Terry, Inc. for a bid cost a contingency amount of \$42,000.00 for a not to exceed cost of \$876,665.00
(1) packaged arsenic distributor/waste coll filter face piping, sys	work to be performed under this Contract shall consist of furnishing one water treatment plant which shall include treatment vessels, inlet lectors, underdrain distributors, support gravel, control and isolating valves, stem interconnecting piping, chemical feed equipment, rapid mixer, there pumpstation, flowmeters, motorized valves, accessories, control panels, neous appurtenances.
Type of Action Req () Resolu (_X) Form	
Does This Action R	equire A Business Impact Statement: () Yes (_X) No
responsive and respo 046 Packaged Arseni cost of \$834,665.00 a \$876,665.00 from the	
Explanation for Rec	commended Board Action: INVITATIONS TO BID were mailed on

The bids were opened at approximately 2:30 p.m. on October 17, 2007 in the Executive Conference Room, 201 North Carson Street, Carson City, Nevada 89701. Present during the bid opening were: Mark Brethauer, PE, Public Works Senior Project Manager; Michael J. Jaubert from Layne Christensen Company; Charles G. (Chuck) Ward from Ward Technical Products, Inc. and Cheryl Adams, Purchasing & Contracts Manager.

September 12, 2007 and the NOTICE TO BIDDERS was published in the Nevada Appeal on

September 16, 2007.

Proposals were received from three (3) bidders: .Hungerford & Terry, Inc., PO Box 650, Clayton, NJ 08312-0650 856-881-3200 FAX #856-881-6859; Layne Christensen Company, Water Treatment Division, 11001 Etiwanda Avenue, Fontana, CA 92337 909-390-2833 FAX #909-390-5540; and WesTech Engineering, Inc., 3625 South West Temple, Salt Lake City, UT 84115 801-285-1000 FAX #801-265-1080. Please refer to the *BID TABULATION* for specifics.

Proposals were reviewed for Carson City by Brown and Caldwell, 3264 Goni Road, Suite 153, Carson City, NV 89706 775-883-4118 and they have recommended awarding the contract to Hungerford & Terry, Inc. as their proposal was the most complete and addressed all the required items in the specifications and therefore is the sole responsive bidder.

Consequently, Staff recommends award to Hungerford & Terry, Inc. as the lowest responsive and responsible bidder pursuant to N.R.S. Chapter 332.

**Applicable Statue, Code, Policy, Rule or Regulation:** N.R.S. Chapter 332 Purchasing: Local Governments.

Fiscal Impact: \$834,665.00 plus up to \$42,000.00 for potential change orders

Explanation of Impact: \$834,665.00 plus up to \$42,000 for potential change orders

Funding Source: \$877,000.00 has been budgeted in FY 0708 in the Water Fund

**Alternatives:** Determine another bidder is the lowest and most responsive bidder pursuant to N.R.S. Chapter 332 or do not award contract.

**Supporting Material:** Bid Tabulation Report, Bid Review Comments and Overall Recommendation from Brown and Caldwell, Agreement, Notice of Award, and Bid Response from Hungerford & Terry, Inc.

Prepared By: Cheryl Adams, Purchasing & Contracts Manager

(Finance Director)

Reviewed By:

(Paris Works)

(City Manager)

(City Manager)

(District Attorney)

Will h Brownint Date: 11-6-07

Board Action Taken:		
Motion:	1)	Aye
	2)	

. .

# BID TABULATION REPORT FROM CARSON CITY PURCHASING & CONTRACTS 775-887-2027 extension 1100

REQUEST FOR BID No. 0708-046 Packaged Arsenic Water Treatment Plant Equipment TIME and DATE OF OPENING: 2:30 p.m. 10/17/07

Technical Products, Inc. Manager; Michael J. Jaubert from Layne Christensen Company, and Charles G. (Chuck) Ward from Ward ATTENDEES: Cheryl Adams, Purchasing & Contracts Manager; Mark Brethauer, PE, Public Works Senior Project

		END OF DOCUMENT	END OF D
Yes	Yes	Yes	Article 8 – Bid Submittal designating whether bidder is an individual, Yes a partnership, a corporation, or a joint venture.
			Certification of Bidder's Experience and Qualifications, and Section 00450 - List of Subcontractors.
			Scope of Supply documents, Section 00220 - References,  Evidence of Manufacturing Capability, Section 20220
Yes	Yes	Yes	B Bidder pre-qualification statement with supporting data as outlined in Article 4 of Instructions to Bidders which includes:
			provided
res	Tes	G	sh i
<b>4</b>	<b>4</b>	Voc	A. Bid Security - bid bond certified check cashiers check or Voc
	4 3		Article 6 – Attachments
\$644.880.00	\$739.195.00	\$834,665.00	Article 4 – Basis of Bid – lump sum price
Yes	Yes	Yes	Article 3 – Bidder's Representations – acknowledged addendums
Yes	Yes	Yes	Bidder submitted 3 copies of <b>Bid Form</b>
Yes	Yes	Yes	Bidder submitted 1 original <b>Bid Form</b>
	Company		
Engineering, Inc.	Christensen	Terry, Inc.	
WesTech	& Layne	Hungerford	Description

# **CARSON CITY PUBLIC WORKS**

# PACKAGED ARSENIC WATER TREATMENT PLANT EQUIPMENT

# BID REVIEW COMMENTS AND OVERALL RECOMMENDATION OCTOBER 22, 2007

# **LAYNE**

Detailed Scope of Supply was very generic and did not address the following required items:

- 1. Packaged Reclaim Pump Station Text was irrelevant to the pump station
- 2. Mechanical mixer & control panel
- 3. BW Tank level controls
- 4. Filter piping cross connections
- 5. Chemical storage and injection
- 6. Seismic calculations
- 7. Skidding for pipe support and pre-assembled piping
- 8. Underdrain assembly listed as installed by Contractor

# **WESTECH**

- 1. On page 2, face piping has been specified to be installed by others. Specification calls for preassembled filter piping.
- 2. On page 2, the proposal states the design loading rate as 4.13 gpm/sf, which is achieved with all three vessels in operation. But the basis of design is to have as few as two vessels in operation, which will result in a loading rate of 7.1 gpm/sf per vessel and is also the maximum loading rate. It must be clarified with the Supplier that this will not have an impact on the other design aspects of the packaged filtration system being provided by the Supplier.
- 3. Skidding not provided for pipe support.
- 4. Backwash Flowmeter 4 not included in the proposal.
- 5. Page 4 states CP1 will be NEMA 12 enclosure, the specification calls for NEMA 4.
- 6. Plate settler high level float not provided.
- 7. Page 7 payment terms are 15% upon submittal drawings, 35% upon receipt of major material in shop, and 50% upon 30 days of delivery. Retention is not allowed.

Specification calls for 20% upon approved shop drawings, 90% upon delivery of equipment, 10% after completion of plant commissioning.

- 8. Supplier Bid was for a base amount, outlined by the Supplier, with an adder cost for the rest of the equipment required in the specification. The bid specification was for one lump sum price for all the required equipment. Actual adjusted bid price is \$824,320, not the \$644,880 listed.
- 9. Reclaim booster pump manufacturer not listed.
- 10. Subcontractor percentage not included.
- 11. Seismic calculations not included.
- 12. Steel pipe submitted as an alternative to ductile iron, with an adder for ductile iron.
- 13. On page 4, the Supplier states that cavitation protection trip is not provided since insufficient information was available in the specifications. The proposed flow control valves in accordance with the specifications will be acceptable. This can be further discussed with the Supplier, if selected.

# **HUNGERFORD & TERRY**

No comments.

# **ALL PROPOSALS**

Recommend that Owner request a deduct for priming of outside of tanks, piping, and booster pump station. Primer is only good for 30 days, and contractor will not want to mobilize the painter until the project is nearer to completion. Hence, re-priming could be required.

# **RECOMMENDATION:**

Refer to the attached summary of bids in Table 1. Hungerford & Terry's proposal was the most complete and addressed all the required items in the specifications. WesTech, addressed most of the items in general, but left many of the specific details out of their proposal. WesTech also did not meet the specification for skidded, pre-assembled piping, electrical junction boxes and valve wiring, payment terms, and control cabinet rating. Layne's proposal left out numerous equipment requirements, including the mixer that was noted in the pre-approval review comments. Their proposal also does not include skidding and pre-assembled piping on the filter vessels and no mention of electrical junction boxes and valve wiring.

Brown and Caldwell and NCS recommend Carson City select Hungerford & Terry as the sole responsive bidder for the Packaged Arsenic Water Treatment Plant Equipment.

# CARSON CITY PUBLIC WORKS

Table 1: Summary of Packaged Arsenic Water Treatment Plant Equipment

Bidder	Bid Price	Exceptions	Other Comments
Hungerford & Terry	\$834,665	None	None
Layne Christensen	\$739,195	Rapid mixer and panel, controls for BW reclaim PS, skidding not included, pipe assembly by contractor, filter pipe cross connections, electrical J-boxes and filter valve wiring, seismic calculations	None
WesTech	\$824,320	Skidding, face pipe assembly by contractor, steel pipe in lieu of ductile iron, NEMA 12 instead of NEMA 4 main control panel, electrical J-boxes and filter valve wiring, seismic calculations	Payment terms not per specification, subcontractor % not listed

# **AGREEMENT**

# **TABLE OF ARTICLES**

<u>Article</u>	Article No.
Goods and Special Services	1
The Project	2
Engineer	3
Point of Destination	4
Contract Times	5
Contract Price	6
Payment Procedures	7
Interest	8
Seller's Representations	9
Contract Documents	10
Miscellaneous	11

# **AGREEMENT No. 0708-046**

THIS AGREEMENT is between the City and County of Carson City, a political subdivision of the State of Nevada ("Buyer") and Hungerford & Terry, Inc. ("Seller").

Buyer and Seller, in consideration of the mutual covenants set forth herein, agree as follows:

# ARTICLE 1 - GOODS AND SPECIAL SERVICES

1.01 Seller shall furnish the Goods and Special Services as specified or indicated in the Contract Documents. The Goods and Special Services to be furnished are described in Section 01010, Summary of Goods and Special Services.

# **ARTICLE 2 - THE PROJECT**

2.01 The Project for which the Goods and Special Services to be provided under the Contract Documents may be the whole or only a part is generally described as follows:

Provide packaged water treatment plant equipment and Special Services as outlined in the technical specifications.

# **ARTICLE 3 - ENGINEER**

3.01 The Contract Documents for the Goods and Special Services have been prepared by;

Brown and Caldwell 3264 Goni Road, Suite 153 Carson City, NV 89706

who is hereinafter called Engineer and who is to assume all duties and responsibilities, and have the rights and authority assigned to Engineer in the Contract Documents in connection with the furnishing of Goods and Special Services.

# **ARTICLE 4 - POINT OF DESTINATION**

4.01 The place where the Goods are to be delivered is defined in the General Conditions as the Point of Destination and is designated as the project site at: 1539 E. Fifth Street, Carson City, Nevada 89701

# **ARTICLE 5 - CONTRACT TIMES**

5.01 Time of the Essence

A. All time limits for Milestones, if any, the delivery of Goods and the furnishing of Special Services as stated in the Contract Documents are of the essence of the Contract.

# 5.02 Days for Submittal of Shop Drawings

A. All Shop Drawings and Samples required by the Contract Documents will be submitted to Buyer for Engineer's review and approval within <u>60</u> days after the date when the Contract Times commence to run as provided in Paragraph 2.03 of the General Conditions.

# 5.03 Days to Achieve Delivery of Goods

A. The Goods are to be delivered to the Point of Destination and ready for Buyer's receipt of delivery on (or within a period of 15 days prior to) 186 days after the date when the Contract Times commence to run as provided in Paragraph 2.03 of the General Conditions.

# 5.04 Days for Furnishing Special Services

A. The furnishing of Special Services to Buyer will commence within <u>14</u> days after Buyer's written notice to Seller following Buyer's receipt of delivery of the Goods, and shall be completed within <u>60</u> days thereafter. Such notice will be given no later than <u>240</u> days after Buyer's receipt of delivery.

# 5.05 Liquidated Damages

A. Buyer and Seller recognize that time is of the essence of this Agreement and that Buyer will suffer financial loss if the Goods are not delivered at the Point of Destination and ready for receipt of delivery by Buyer within the times specified in Paragraph 5.03 above, plus any extensions thereof allowed in accordance with Article 7 of the General Conditions. The parties also recognize that the timely performance of services by others involved in the Project are materially dependent upon Seller's specific compliance with the requirements of Paragraph 5.03. Further, they recognize the delays, expense and difficulties involved in proving the actual loss suffered by Buyer if complete acceptable Goods are not delivered on time. Accordingly, instead of requiring such proof, Buyer and Seller agree that as liquidated damages for delay (but not as a penalty) Seller shall pay Buyer \$750 for each day that expires after the time specified in Paragraph 5.03 for delivery of acceptable Goods.

# **ARTICLE 6 - CONTRACT PRICE**

6.01 Buyer shall pay Seller for furnishing the Goods and Special Services in accordance with the Contract Documents in current funds as follows:

A. A Lump Sum of Eight Hundred Thirty-Four Thousand, Six Hundred Sixty-Five Dollars and no cents (\$834,665.00).

# **ARTICLE 7 - PAYMENT PROCEDURES**

- 7.01 Submittal and Processing of Payments.
- A. Seller shall submit Applications for Payment in accordance with Article 10 of the General Conditions. Applications for Payment will be processed by Engineer as provided in the General Conditions.
- 7.02 Progress Payments.
- A. Buyer shall make progress payments on account of the Contract Price on the basis of Seller's Applications for Payment as follows:
  - 1. Upon receipt of the first Application for Payment for approved shop drawing submittals, submitted in accordance with Paragraph 10.01.A.1 of the General Conditions and accompanied by Engineer's recommendation of payment in accordance with Paragraph 10.02.A of the General Conditions, an amount equal to <u>20</u> percent of the Contract Price, less such amounts as Engineer may determine in accordance with Paragraph 10.02.A.3 of the General Conditions.
  - 2. Upon receipt of the second such Application for Payment for acknowledged receipt of goods, accompanied by Engineer's recommendation of payment in accordance with Paragraph 10.01.A.2 of the General Conditions, an amount sufficient to increase total payments to Seller to <u>90</u> percent of the Contract Price, less such amounts as Engineer may determine in accordance with Paragraph 10.02.A.3 of the General Conditions.

# 7.03 Final Payment

A. Upon receipt of the final Application for Payment accompanied by Engineer's recommendation of payment in accordance with Paragraph 10.06 of the General Conditions, Buyer shall pay the remainder of the Contract Price as recommended by Engineer.

# **ARTICLE 8 - INTEREST**

8.01 All monies not paid when due as provided in Article 10 of the General Conditions shall bear interest at the rate of 1.5 percent per annum.

# **ARTICLE 9 - SELLER'S REPRESENTATIONS**

- 9.01 In order to induce Buyer to enter into this Agreement, Seller makes the following representations:
- A. Seller has examined and carefully studied the Contract Documents and the other related data identified in the Bidding Documents.

- B. If specified or if, in Seller's judgment, any local condition may affect cost, progress or the furnishing of the Goods and Special Services, Seller has visited the Point of Destination and become familiar with and is satisfied as to the local conditions that may affect cost, progress or the furnishing of the Goods and Special Services.
- C. Seller is familiar with and is satisfied as to all local federal, state and local Laws and Regulations that may affect cost, progress and the furnishing of the Goods and Special Services.
- D. Seller has carefully studied and correlated the information known to Seller, and information and observations obtained from Seller's visits, if any, to the Point of Destination, with the Contract Documents.
- E. Seller has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Seller has discovered in the Contract Documents, and the written resolution thereof by Engineer is acceptable to Seller.
- F. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for furnishing Goods and Special Services.

# **ARTICLE 10 - CONTRACT DOCUMENTS**

# 10.01 Contents

- A. The Contract Documents consist of the following:
  - 1. This Agreement 00520 (10 pages);
  - 2. Standard General Conditions for Procurement Contracts 00700 (18 pages);
  - 3. Supplementary Conditions 00800 (6 pages);
  - 4. Specifications as listed in table of contents of the Project Manual dated 9/10/07;
  - 5. Drawings, consisting of a cover sheet and sheets numbered Figure 1 through Figure 3, inclusive, with each sheet bearing the following general title: Carson City Public Works, Arsenic Treatment Plant (3 pages):
  - 6. Addenda (Numbers 1 to 3, 15 pages inclusive);
  - 7. Exhibits to this Agreement (enumerated as follows):
    - a. Exhibit A-1 to Agreement between Buyer and Seller dated \_\_\_\_, Assignment of Contract; Consent to Assignment; and Acceptance of Assignment.

- b. Exhibit A-2 to Agreement between Buyer and Seller dated \_\_\_\_, Agreement to Assignment by Seller's Surety.
- c. Seller's Bid (60 pages);
- 10. The following which may be delivered or issued on or after the Effective Date of the Agreement and are not attached hereto:
  - a. Performance Bond for Procurement Contracts 00610;
  - b. Payment Bond for Procurement Contracts 00615;
  - c. Notice to Proceed 00550;
  - d. Written Amendment(s);
  - e. Change Order(s);
  - f. Field Order(s);
  - g. Engineer's Written Interpretation(s).
- B. The documents listed in paragraph 10.01.A are attached to this Agreement (except as expressly noted otherwise above).
  - C. There are no Contract Documents other than those listed above in this Article 10.
- D. The Contract Documents may only be amended, or supplemented as provided in Paragraph 3.04 of the General Conditions.

# **ARTICLE 11 - MISCELLANEOUS**

# 11.01 Defined Terms

A. Terms used in this Agreement will have the meanings indicated in the General Conditions and the Supplementary Conditions.

# 11.02 Assignment

- A. Buyer has the right to assign the Contract for furnishing Goods and Special Services hereunder and Seller shall accept such assignment. Forms documenting the assignment of the Contract, and consent of Seller's surety to the assignment are attached as exhibits to this Agreement.
  - 1. The Contract will be executed in the name of Buyer initially, and will be assigned to a construction contractor designated by Buyer. The assignment will occur on the effective date of the agreement between Buyer and the construction contractor, which is expected to

occur on or about May 2008, or after Buyer approval of the Seller's Shop Drawings, if this has not yet occurred. As of the date of acceptance of assignment by the construction contractor, all references in the Contract Documents to Buyer shall mean the designated contractor whose responsibilities will include the installation of the Goods.

2. The assignment of the Contract shall relieve Buyer from all further obligations and liabilities under the Contract. After assignment, Seller shall become a subcontractor or supplier to the assignee and, except as noted herein, all rights, duties, and obligations of Buyer under the Contract shall become the rights, duties and obligations of the assignee.

# 3. After assignment:

- a. All performances, warranties, and guarantees required by the Contract Documents will continue to run for the benefit of Buyer and, in addition, for the benefit of the assignee.
- b. Except as provided in this Paragraph 11.02.A.3.b, all rights, duties and obligations of Engineer to assignee and Seller under this Contract will cease.
  - 1) Engineer will review Seller's Applications for Payment and make recommendations to assignee for payments as provided in Paragraphs 10.02 and 10.06 of the General Conditions.
  - 2) Upon the written request of either the assignee or Seller, Engineer will issue with reasonable promptness such clarifications or interpretations of the Contract Documents, which shall be consistent with or reasonably inferable from the overall intent of the Contract Documents. Such written clarifications and interpretations will be final and binding on assignee and Seller unless:
    - a) an appeal from Engineer's clarification or interpretation is made within the time limits and in accordance with the dispute resolution procedures set forth in Article 13 of the General Conditions; or
  - b) if no such dispute resolution procedures have been set forth, a written notice of intention to appeal is delivered by assignee or Seller to the other within 30 days after the date of such decision, and a formal proceeding is instituted by the appealing party in a forum of competent jurisdiction within 60 days after the date of such decision (unless otherwise agreed to in writing by assignee and Seller), to exercise such rights or remedies as the appealing party may have with respect to such clarification or interpretation in accordance with applicable Laws and Regulations.
  - 3) When rendering a clarification or interpretation under Paragraph 11.02.A.3.b.2, Engineer will not show partiality to assignee or Seller and will not be liable in connection with any clarification or interpretation rendered in good faith.
- B. No other assignment by a party hereto of any rights under or interests in the Contract Documents will be binding on another party hereto without the written consent of the party

sought to be bound. Specifically but without limitation, moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law). Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

# 11.03 Successors and Assigns

A. Buyer and Seller each binds itself, its partners, successors, assigns and legal representatives to the other party hereto, its partners, successors, assigns and legal representatives in respect to all covenants, agreements and obligations contained in the Contract Documents.

# 11.04 Severability

A. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon Buyer and Seller. The Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

IN WITNESS WHEREOF, Buyer and Seller have signed this Agreement in duplicate. One counterpart each has been delivered to Buyer and Seller. All portions of the Contract Documents have been signed or identified by Buyer and Seller or on their behalf.

This Agreement will be effective on November 15, 2007.

**CARSON CITY** 

**Finance Director** 

Attn: Cheryl A. Adams, Purchasing &

Contracts Manager

201 North Carson Street Suite 11

Carson City, Nevada 89701

Telephone: 775-887-2027 extension 1100

Fax: 775-887-2107

CAdams@ci.carson-city.nv\_us

A. ADAMS

Purchasing & Contracts Manager

CITY'S LEGAL COUNSEL

Neil A. Rombardo, District Attorney

I have reviewed this Contract and approve

as to its legal form.

DATED this 6 day of Nov , 2007.

CITY'S ORIGINATING DEPARTMENT

BY: Andrew Burnham, Director

**Public Works Department** 

3505 Butti Way

Carson City, NV 89701

Telephone: 775-887-2355

Fax: 775-887-2112

ABurnham@ci.carson-city.nv.us

DATED this 6 day of NOVEMBER, 2007.

Buyer:	Seller: Tomates any M
By:	By: Kenneth M. Sayell, VP of Sales [Corporate Seal]
Attest:	Attest:
Address for giving notice:	Address for giving notice:
Carson City Purchasing & Contracts	Hungerford & Terry, Inc.
201 North Carson Street Suite 11	P. O. Box 650
Carson City, NV 89701	Clayton, NJ 08312
775-887-2390 / FAX #775-887-2107	856-881-3200 / FAX #856-881-6859
CAdams@ci.carson-city.nv.us	KSayell@hungerfordterry.com
	(If Seller is a corporation or a partnership, attach evidence of authority to sign.)
Designated Representative:	Designated Representative:
Name: Cheryl Adams	Name: Frank Caligiuri
Title: Purchasing & Contracts Manager	Title: Sales Department Manager
Address: 201 North Carson Street Suite 11	Address: P. O. Box 650
Phone: 775-887-2390	Phone: <u>856-881-3200</u>
Facsimile: 775-887-2107	Facsimile: 856-881-6958
CAdams@ci.carson-city.nv.us	FCaligiuri@hungerfordterry.com

<b>EXHIBIT A-1</b> to Agreement Between	
Buyer and Seller Dated	

# ASSIGNMENT OF CONTRACT; CONSENT TO ASSIGNMENT; AND ACCEPTANCE OF ASSIGNMENT

This assignment will be effective on [insert	date].		
The Contract between	······ -		("Buyer") and ("Seller"
for furnishing Goods and Special Services	under th	e Contract Documents er	ntitled
is hereby assigned, transferred, and set over ("Construction Contractor"). Construction Construction Construction of Seller and for the duties, right by Buyer, under the terms of the Contract by	ontracto hts and	or shall be totally responsi l obligations of Buyer, not	ble for the
ASSIGNMENT DIRECTED BY:		Buy	/er
(If Buyer is a corporation, attach evidence of authority to sign. If Buyer is a public body, attach evidence of authority to sign and resolution or other documents authorizing execution of Buyer-Seller Agreement.)	By: <sub>.</sub>	(Signature)	
ASSIGNMENT ACKNOWLEDGED AND ACCEPTED BY:		Sel	ler
(If Seller is a corporation, attach evidence of authority to sign.)	By: .	(Signature)	(Title)
ASSIGNMENT ACCEPTED BY:  (If Construction Contractor is a	_	Construction	on Contractor
corporation, attach evidence of authority to sign.)	Ву:		

<b>EXHIBIT A-2</b> to Agreement Between	
Buyer and Seller Dated	

# AGREEMENT TO ASSIGNMENT BY SELLER'S SURETY

	that the Contract for furnishing Goods and Special entitled by
	("Buyer") and
("Seller") may be assi	gned, transferred, and set over to
("Construction Contractor"), in accordance and Seller.	e with Paragraph 11.02 of Agreement between Buyer
Surety further agrees that, upon assignments have all the rights of the Buyer under the	ent of the Contract, the Construction Contractor shall Performance Bond.
(Corporate Seal)	Surety
	Company:
	Ву:
	Signature and Title (Attach Power of Attorney)

The Annual meeting of the Directors of Hungerford & Terry, Inc. was held on September 10, 2007

With all Directors present, the President, Alan A. Davis, called the meeting to order.

Welcome to our two 12% Directors, John Dukes Hungerford and Morrison Coates Huston, voted in again.

Upon motion of Alan A. Davis, seconded by John Dukes Hungerford, the following Directors were nominated and elected to serve as Officers of the Corporation;

Alan A. Davis -

President

Patricia A. DiFilippo -

Vice President/Secretary & Treasurer

Kenneth Sayell -

Vice President of Sales

Harold Aronovitch -

Vice President/Technical Director

Thomas Carrocino -

Vice President of Operations

Upon motion of Patricia A. DiFilippo, seconded by Kenneth Sayell, the following were nominated and elected to serve on the Profit Sharing Committee:

> Patricia A. DiFilippo Thomas Carrocino Harold Aronovitch Frank Caligiuri

Upon motion of Alan A. Davis, seconded by Morrison Coates Huston, it was decided to establish the following signatures:

## For writing checks or borrowing money, any one (1):

Alan A Davis, Kenneth Sayell, Patricia A. DiFilippo

Upon motion of Alan A. Davis, seconded by Morrison Coates Huston, it was decided to establish the following signatures.

### Oral Instructions:

Alan A. Davis, Kenneth Sayell, Patricia A. DiFilippo

Upon motion of Alan A. Davis, seconded by Morrison Coates Huston, it was decided to establish the following signatures.

# Facsimile:

Patricia A. DiFilippo

Upon motion of Alan A. Davis, seconded by Harold Aronovitch, the following Directors were nominated & elected to serve on the Executive Committee:

> Alan A. Davis Patricia A. DiFilippo Kenneth Sayell

Upon motion of Morrison Coates Huston, seconded by Kenneth Sayell, it was decided to approve the salaries of all Officers & Directors this year and all prior years.

Upon motion of Alan A. Davis, seconded by Patricia A. DiFilippo, it was decided to approve the following to sign contracts on behalf of the Corporation:

> Alan A. Davis Kenneth M. Sayell

Patricia A. DiFilippo

Thomas Carrocino

The Treasurer, Patricia A. DiFilippo, gave her report. A motion to accept this report was made by Thomas Carrocino, seconded by Harold Aronovitch, and unanimously carried.

Patricia A. DiFilippo, presented a Profit Sharing report, stated the total value of our 401K Profit Sharing account is approximately \$ 6,477,705.00 for the year ending 5/31/07. Report attached

There being no other business to come before the meeting, upon motion of Kenneth Sayell, seconded by Morrison Coates Huston, and duly carried, the meeting was adjourned.

> Patricia A. DiFilippo Vice President/Secretary & Treasurer

# **Notice of Award**

Dated 10/23/07

•	Packaged Arsenic Water t Plant Equipment	Owner: Carson City Public Works	Owner's Contract No.:0708- 046
Contract:	0708-046 Packaged Arsen	ic Water Treatment Plant Equipment	Engineer's Project No. N/A
Bidder: H	ungerford & Terry, Inc.		
Bidder's A	Address: (send Certified Ma	I, Return Receipt Requested)	
P. O. Box	650		
Clayton, N	JJ 08312		
Successful	Bidder and are awarded a Co	10/17/07 for the above Contract has been ntract for Packaged Arsenic Water Treatn is Eight Hundred Thirty-Four Thousand, S	nent Plant Equipment.
(\$834,665.		a Light Handrod Hilly Foot Hieddaha, C	in trainared emily three behalfe
You m Award.	ust comply with the following o	conditions precedent within [15] days of the	e date you receive this Notice of
1.	Provide certificates of insure Engineer and other identifie	ance for general liability and workers' com d additional insured's).	pensation, (with copies to
2.	Provide Performance and P	ayment Bonds as required in Article 4 of 0	General Conditions.
3.	Obtain a Carson City Busine	ess License.	
Failure annul this N	to comply with these condition	ns within the time specified will entitle Own our Bid security forfeited.	ner to consider you in default,
Within counterpart	ten days after you comply with of the Contract Documents.	n the above conditions, Owner will return to	o you one fully executed
	-	Owner	
	E	By:Authorized Signature	
	-	Title	
Copy to:	Carson City Purchasing & Carson City Public Works Brown & Caldwell		

# HUNGERFORD & TERRY, INC.

Manufacturers of Water Treating Equipment

P.O. Box 650 CLAYTON, NEW JERSEY 08312-0650 856-881-3200 Fax 856-881-6859



E-Mail: fcaligiuri@hungerfordterry.com

October 16, 2007

Carson City Purchasing and Contracts 201 North Carson Street, Suite 11 Carson City, Nevada 89701

Attention:

Ms. Cheryl Adams

Reference:

Packaged Pressure Filtration System

Invitation to Bid #0708-046 / H&T Proposals 32304

# Dear Ms. Adams:

In keeping with the requirements set fourth in Section 00100 and 00200 of the specifications, Hungerford & Terry, Inc. is pleased to submit for your consideration the enclosed proposal (bid) and supporting documentation.

We very much appreciate the opportunity to submit this proposal (bid) and we hope that it meets with your favorable consideration. Should you have any questions or need for additional information, please feel free to contact our local representative at the address and telephone number listed below, or the undersigned at our home office in Clayton, New Jersey.

Very truly yours,

HUNGERFORD & TERRY, INC.

Frank J. Caligiuri

Sales Department Manager

Enclosure

REPRESENTATIVE:

Ward Technical Products, Inc.

P.O. Box 5444

Vacaville, CA 95696-5444

Telephone No.: (707) 447-0185

Fax No.: (707) 447-0126

32304

# SECTION 00220

# REFERENCES

List at least three (3) contracts over the last five (5) years for arsenic, iron, or manganese pressure filtration systems greater than 1 MGD, with steel vessels, maximum hydraulic loading rates of around 8.0 gpm/ft2, electric actuated butterfly valves, PLC controls with operator interface and touch screen panels, and stainless steel underdrain systems. Suppliers with reference installations that use fiberglass vessels, pneumatic actuators, and PVC underdrains will not be considered and will be disqualified. Carson City reserves the right to contact and verify, with any and all references listed, the quality of and the degree of satisfaction for such performance.

Name <u>City of Rio Rancho</u>	Well	No.	9
Contact Person Mr. Joseph Báca			
Address 3200 Civic Center Circle, NE			
City, State, Zip Code Rio Rancho, N 1 87144			
Telephone Number, including area code (505) 891- 9	5010		
Amount of Contract \$ 345,150.00			
Contract Date 2006			
Name <u>City of Rancho</u>	Well	No.	10
Contact Person Mr. Donald Martinez			
Address 3200 Civic Center Circle, NE			
City, State, Zip Code Rio Rancho, NM 87144			
Telephone Number, including area code (505) 891- 5			
Amount of Contract \$ 1,187,375.00			
Contract Date 2007			
Name Town of Bernalillo	Well	No.	3
Name Town of Bernalillo Contact Person Mr. Stephen Jerge			
NameTown_of Bernalillo			
Contact Person Mr. Stephen Jerge Address 829 Camino Del Pueblo			
Contact Person Mr. Stephen Jerge			
Contact Person Mr. Stephen Jerge Address 829 Camino Del Pueblo City, State, Zip Code Bernalillo, NM 97004	311		
Contact Person Mr. Stephen Jerge Address 829 Camino Del Pueblo City, State, Zip Code Bernalillo, NM 97004 Telephone Number, including area code (505) 867-33	311		
Contact Person Mr. Stephen Jerge Address 829 Camino Del Pueblo City, State, Zip Code Bernalillo, NM 97004 Telephone Number, including area code (505) 867-33 Amount of Contract \$ 607,760.00	311		
Contact Person Mr. Stephen Jerge Address 829 Camino Del Pueblo City, State, Zip Code Bernalillo, NM 97004 Telephone Number, including area code (505) 867-33 Amount of Contract \$ 607,760.00 Contract Date 2007	311		
Contact Person Mr. Stephen Jerge Address 829 Camino Del Pueblo City, State, Zip Code Bernalillo, NM 97004 Telephone Number, including area code (505) 867-33 Amount of Contract \$ 607,760.00 Contract Date 2007  Name (See other reference list enclosed	311		
Contact Person Mr. Stephen Jerge Address 829 Camino Del Pueblo City, State, Zip Code Bernalillo, NM 97004 Telephone Number, including area code (505) 867-33 Amount of Contract \$ 607,760.00 Contract Date 2007  Name (See other reference list enclosed Contact Person	311		
Contact Person Mr. Stephen Jerge Address 829 Camino Del Pueblo City, State, Zip Code Bernalillo, NM 97004 Telephone Number, including area code (505) 867-33 Amount of Contract \$ 607,760.00 Contract Date 2007  Name (See other reference list enclosed Contact Person Address	311		
Contact Person Mr. Stephen Jerge Address 829 Camino Del Pueblo City, State, Zip Code Bernalillo, NM 97004 Telephone Number, including area code (505) 867-33 Amount of Contract \$ 607,760.00 Contract Date 2007  Name (See other reference list enclosed Contact Person Address City, State, Zip Code	311		
Contact Person Mr. Stephen Jerge Address 829 Camino Del Pueblo City, State, Zip Code Bernalillo, NM 97004 Telephone Number, including area code (505) 867-33 Amount of Contract \$ 607,760.00 Contract Date 2007  Name (See other reference list enclosed Contact Person Address	311		

# **BID FORM**

# Carson City Purchasing & Contracts Invitation to Bid #0708-046 Packaged Arsenic Water Treatment Plant Equipment September 2007

# **TABLE OF ARTICLES**

Article	Article No.
Article  Bid Recipient	1
Bidder's Acknowledgments	2
Bidder's Representations	3
Basis of Bid	4
Time of Completion	5
Attachments to this Bid	6
Defined Terms	7
Bid Submittal	8

# ARTICLE 1 - BID RECIPIENT

1.01 This Bid is submitted to:

Attn: Cheryl Adams Carson City Purchasing & Contracts 201 North Carson Street, Suite 11 Carson City, NV 89701

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Buyer in the form included in the Bidding Documents to furnish the Goods and Special Services as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

# ARTICLE 2 - BIDDER'S ACKNOWLEDGMENTS

- 2.01 Bidder accepts all of the terms and conditions of the Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. The Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Buyer.
- 2.02 Bidder accepts the provisions of the Agreement as to liquidated damages in the event of its failure to furnish the Goods and Special Services in accordance with the schedule set forth in the Agreement.
- 2.03 Bidder accepts the provisions of the Agreement as to the assignment of the Contract for furnishing Goods and Special Services.

# **ARTICLE 3 - BIDDER'S REPRESENTATIONS**

- 3.01 In submitting this Bid, Bidder represents, as set forth in the Agreement, that:
- A. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of all of which is hereby acknowledged.

Addendum No.	<u>Addendum Date</u>	
1	<u>Sept. 18, 2007</u>	
2	Sept. 26, 2007	
3	Oct. 5, 2007	

B. If specified, or if in Bidder's judgment, any local condition may affect cost, progress or the furnishing of Goods and Special Services, Bidder has visited the Point of Destination and become familiar with and is satisfied as to the local conditions that may affect cost, progress, or the furnishing of Goods and Special Services.

- C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress and the furnishing of Goods and Special Services.
- D. Bidder has carefully studied and correlated the information known to Bidder, and information and observations obtained from Bidder's visits, if any, to the Point of Destination with the Bidding Documents.
- E. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer is acceptable to Bidder.
- F. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for furnishing the Goods and Special Services for which this Bid is submitted.
- G. Bidder further represents that this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any individual or entity to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over Buyer.

# ARTICLE 4 - BASIS OF BID

4.01 Bidder will furnish the Goods and Special Services in accordance with the Contract Documents for the following price(s):

LUMP SUM BID PRICE _	Eight Hundred Thirty-Four Thousand, Six Hundred Sixty Five Dollars	§ 834,665.00
	(use words)	(figures)

# ARTICLE 5 - TIME OF COMPLETION

5.01 Bidder agrees that the furnishing of Goods and Special Services will conform to the schedule set forth in Article 5 of the Agreement.

# ARTICLE 6 - ATTACHMENTS TO THIS BID

- 6.01 The following documents are attached to and made a condition of this Bid:
  - A. Required Bid security in the form of Bid Bond Section 00430;
  - B. Required bidder pre-qualification statement with supporting data as outlined in Article 4 of Instructions to Bidders which includes; Scope of Supply documents, Section 00220 References, Evidence of Manufacturing Capability, Section 00420 Certification of Bidder's Experience and Qualifications, and Section 00450 List of Subcontractors.

# **ARTICLE 7 - DEFINED TERMS**

Phone: \_\_\_

N/A

7.01 The terms used in this Bid have the meanings indicated in the General Conditions, and the Supplementary Conditions. The significance of terms with initial capital letters is described in the General Conditions.

	. 00				
RTIC	CLE 8 - BID SUBMITTAL			•	
.01 T	his Bid submitted by:				
f Biddo	er is:			•	
n Indi	vidual				
N	Iame (typed or printed):	N/A			
В	y:	N/A (Individua	l's signature)		(SEAL)
D	oing business as:	N/A			
В	usiness address:	N/A			
		N/A	***************************************		
Pl	hone: N/A		Facsimile:	N/A	
\ Partn	ership			,	
Pa	artnership Name:	N/A			(SEAL)
В	y: (Signature of general partner a	N/A	of authority to sign	.1	
	(Signature of general pariner a	насп емиенсе	oj authority to sign	1)	
N	ame (typed or printed):	N/A			
В	usiness address:	N/A			
		N/A			

Facsimile:

N/A\_

# A Corporation

poration Name: _	Hungerford & T	erry, Inc.	(SEAL)
State of Inco	orporation: Del	aware	·
	11		Liability): <u>General Business</u>
	attach evidence of d		
	•	,	
Name (typed of	printed):Ken	neth M. Sayett	
Title:	Vice President		
Attest Pat	(CORPORA)	Lepps V.P.	SECY, TREAS.
(Signatu	re of Corporate Secr	<i>etary)</i> Patricia	A. DiFilippo
Business addres	s:226 Atlantic A	ve	
	Clayton, NJ 08	312	
Phone:	(856) 881-3200		Facsimile: (856) 881-6859
Date of Qualific	ation to do business	is May 7. 19	909

The Annual meeting of the Directors of Hungerford & Terry, Inc. was held on September 10, 2007 at 1:30 p.m.

With all Directors present, the President, Alan A. Davis, called the meeting to order.

Welcome to our two 12% Directors, John Dukes Hungerford and Morrison Coates Huston, voted in again.

Upon motion of Alan A. Davis, seconded by John Dukes Hungerford, the following Directors were nominated and elected to serve as Officers of the Corporation:

Alan A. Davis -

President

Patricia A. DiFilippo -

Vice President/Secretary & Treasurer

Kenneth Sayell -

Vice President of Sales

Harold Aronovitch -

Vice President/Technical Director

Thomas Carrocino -

Vice President of Operations

Upon motion of Patricia A. DiFilippo, seconded by Kenneth Sayell, the following were nominated and elected to serve on the Profit Sharing Committee:

Patricia A. DiFilippo Thomas Carrocino Harold Aronovitch Frank Caligiuri

Upon motion of Alan A. Davis, seconded by Morrison Coates Huston, it was decided to establish the following signatures:

### For writing checks or borrowing money, any one (1):

Alan A Davis, Kenneth Sayell, Patricia A. DiFilippo

Upon motion of Alan A. Davis, seconded by Morrison Coates Huston, it was decided to establish the following signatures.

## Oral Instructions:

Alan A. Davis, Kenneth Sayell, Patricia A. DiFilippo

Upon motion of Alan A. Davis, seconded by Morrison Coates Huston, it was decided to establish the following signatures.

# Facsimile:

Patricia A. DiFilippo

Upon motion of Alan A. Davis, seconded by Harold Aronovitch, the following Directors were nominated & elected to serve on the Executive Committee:

Alan A. Davis Patricia A. DiFilippo Kenneth Sayell

Upon motion of Morrison Coates Huston, seconded by Kenneth Sayell, it was decided to approve the salaries of all Officers & Directors this year and all prior years.

Upon motion of Alan A. Davis, seconded by Patricia A. DiFilippo, it was decided to approve the following to sign contracts on behalf of the Corporation:

Alan A. Davis

Patricia A. DiFilippo

Kenneth M. Sayell

Thomas Carrocino

The Treasurer, Patricia A. DiFilippo, gave her report. A motion to accept this report was made by Thomas Carrocino, seconded by Harold Aronovitch, and unanimously carried.

Patricia A. DiFilippo, presented a Profit Sharing report, stated the total value of our 401K Profit Sharing account is approximately \$ 6,477,705.00 for the year ending 5/31/07. Report attached.

There being no other business to come before the meeting, upon motion of Kenneth Sayell, seconded by Morrison Coates Huston, and duly carried, the meeting was adjourned.

Patricia A. DiFilippo
Vice President/Secretary &

Vice President/Secretary & Treasurer

# Joint Venture

Joint Venturer Name: _		N/A			(SEAL)
Ву:		N/A			
(Signature of joint v	entur <mark>e</mark> partner	attach evide	nce of authority to	sign)	
Name (typed or printed)	):	N/A			
Title:		N/A			
Business address:	· · · · · · · · · · · · · · · · · · ·	N/A			
		N/A		<u>:</u> :	·
Phone:	N/A		Facsimile:	N/A	
			•		
Joint Venturer Name: _		N/A		and the first state of the stat	(SEAL)
By:		N/A			
(Signature attach	evidence of <mark>a</mark> u	thority to sign)			
Name (typed or printed)	:	N/A			<del></del>
Title:	<u> </u>	N/A		· · · · · · · · · · · · · · · · · · ·	
Business address:		N/A			
		N/A			<del></del>
Phone:	N/A		Facsimile:	N/A	<del></del>
Phone and Facsimile Nu	ımber, and Ad	dress for receip	t of official comm	unications:	
Hungerford & Te	rry, Inc.,	226 Atlant	ic Ave., Clayt	on, NJ 083	12
Phone: (856) 88	1-3200	Fax: (8	56) 881-6859		

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.)

# SECTION 00420

# CERTIFICATION OF BIDDER'S EXPERIENCE AND QUALIFICATIONS

Bidder certifies that he is skilled and regularly engaged in the general class and type of Equipment Supply and Special Services called for in the contract documents.

In accordance with the requirements of the Bid and Contract Documents, the bidder represents that he is competent, knowledgeable and has special skills on the nature, extent and inherent conditions of the work to be performed. Bidder further acknowledges that there are certain peculiar and inherent conditions existent in the construction of the particular facilities which may create, during the construction program, unusual or peculiar unsafe conditions hazardous to persons and property. Bidder expressly acknowledges that he is aware of such peculiar risks and that he has the skill and experience to foresee and to adopt protective measures to adequately and safely perform the Special Services with respect to such hazards.

Signed this 16 day of October , 20 07.

Hungerford & Terry.

Name of Bidder

Signature of Bidder

Kenneth M. Sayell

<u>Vice President, Sales</u>

Title of Signatory

END OF SECTION

# **BID BOND**

Any singular reference to Bidder, Surety, Owner, or other party shall be considered plural where applicable.

BIDDER (Name and Address):				
Hungerford & Terry, Inc. 226 Atlantic Avenue Clayton, NJ 08312				
SURETY (Name and Address of Principal Place of I	Business):			
Arch Insurance Company				•
3 Parkway, Suite 1500 Philadelphia, PA 19102				
OWNER (Name and Address):				
Carson City, NV Purchasing and Contracts 201 North Carson Street, Suite 11 Carson City, NV 89701 BID Bid Due Date: October 17, 2007 Project (Brief Description Including Location):				
Bid #0708-046, Carson City Public Works, Carson City, Nevada	Packaged Arse	nic Water Treatment	Plant Equip	ment,
BOND Bond Number: 0001 Date (Not later than Bid due date): October 17, 2 Penal sum Ten Percent of Amount of Bi		10%		
	Vords)		(Figures)	
Surety and Bidder, intending to be legally bound here cause this Bid Bond to be duly executed on its behalf				cach
BIDDER	SURETY			
Hungerford & Terry, Inc.	(Seal) Arch	Insurance Company	1	(Seal)
Bidder's Name and Corporate Scal	Surety'	s Name and Corporate Sc	al	
By: Kingle Signature and Title KENNETH M. SPYELL V.P., SALES	By: Signatu	re and Title Boudias	S. Hansen	

Note: Above addresses are to be used for giving required notice.

Attest: That I Caliguri
Signature and Title
FRANK J. CALIGIURI, SALES DEPT. MGR.

Signature and Title

- 1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to pay to Owner upon default of Bidder the penal sum set forth on the face of this Bond. Payment of the penal sum is the extent of Surety's liability.
- 2. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents.
- 3. This obligation shall be null and void if:
  - 3.1. Owner accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents, or
  - 3.2. All Bids are rejected by Owner, or
  - 3.3. Owner fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by Paragraph 5 hereof).
- 4. Payment under this Bond will be due and payable upon default by Bidder and within 30 calendar days after receipt by Bidder and Surety of written notice of default from Owner, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.
- 5. Surety waives notice of any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by Owner and Bidder, provided that the total time for issuing Notice of Award including extensions shall not in the aggregate exceed 120 days from Bid due date without Surety's written consent.
- 6. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph 4 above is received by Bidder and Surety and in no case later than one year after Bid due date.

- 7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.
- 8. Notices required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.
- 9. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.
- 10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.
- 11. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.

# POWER OF ATTORNEY

Know All Men By These Presents:

That the Arch Insurance Company, a corporation organized and existing under the laws of the State of Missouri, having its principal office in Kansas City, Missouri (hereinafter referred to as the "Company") does hereby appoint

Douglas S. Hansen, Kathleen M. Berkelback, Eric J. Follman, Nancy Nigro and John P. Follman, Jr. of Conshohocken, PA (EACH)

its true and lawful Attorney(s)-in-Fact, to make, execute, seal, and deliver from the date of issuance of this power for and on its behalf as surety, and as its act and deed:

Any and all bonds and undertakings

EXCEPTION: NO AUTHORITY is granted to make, execute, seal and deliver bonds or undertakings that guarantee the payment or collection of any promissory note, check, draft or letter of credit.

This authority does not permit the same obligation to be split into two or more bonds in order to bring each such bond within the dollar limit of authority as set forth herein.

The Company may revoke this appointment at any time.

The execution of such bonds and undertakings in pursuance of these presents shall be as binding upon the said Company as fully and amply to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at its principal office in Kansas City, Missouri.

This Power of Attorney is executed by authority of resolutions adopted by unanimous consent of the Board of Directors of the Company on March 3, 2003, true and accurate copies of which are hereinafter set forth and are hereby certified to by the undersigned Secretary as being in full force and effect:

"VOTED, That the Chairman of the Board, the President, or any Vice President, or their appointees designated in writing and filed with the Secretary, or the Secretary shall have the power and authority to appoint agents and attorneys-in-fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings, obligatory in the nature thereof, and any such officers of the Company may appoint agents for acceptance of process."

This Power of Attorney is signed, sealed and certified by facsimile under and by authority of the following resolution adopted by the unanimous consent of the Board of Directors of the Company on March 3, 2003:

VOTED. That the signature of the Chairman of the Board, the President, or any Vice President, or their appointees designated in writing and filed with the Secretary, and the signature of the Secretary, the seal of the Company, and certifications by the Secretary, may be affixed by facsimile on any power of attorney or bond executed pursuant to the resolution adopted by the Board of Directors on March 3, 2003, and any such power so executed, sealed and certified with respect to any bond or undertaking to which it is attached, shall continue to be valid and binding upon the Company.

In Testimony Whereof, the Company has caused this instrument to be signed and its corporate seal to be affixed by authorized officers, this 8th day of February , 2006.
Arch insurance company
Attested and Certified
Attested and Certified  The state of the sta
Martin J. Nilsen, Secretary  Edward M. Titus, Vice President
STATE OF NEW YORK SS
COUNTY OF NEW YORK SS
I Peter J. Calleo, a Notary Public, do hereby certify that Edward M. Titus and Martin J. Nilsen personally known to me to be the same persons whose names are respectively as Vice President and Secretary of the Arch Insurance Company, a Corporation organized and existing under the laws of the State of Missouri, subscribed to the foregoing instrument, appeared before me this day in person and severally acknowledged that they being thereunto duly authorized signed, sealed with the corporate seal and delivered the said instrument as the free and voluntary act of said corporation and as their own free and voluntary acts for the uses and purposes therein set forth.  PETER J. CALLEO, ESQ. Notary Public, State of New York No. 02CA6109336 Qt.::Iffled in New York County Commission Expires May 3, 2008  I, Martin J. Nilsen, Secretary of the Arch Insurance Company, do hereby certify that the attached Power of Attorney dated on behalf of the person(s) as listed above is a true and correct copy and that the same has been in full force and effect on behalf of the date thereof and is in full force and effect on the date of this certificate; and I do further certify that the said Edward M. Titus, who executed the Power of Attorney as Vice President, was on the date of execution of the attached Power of Attorney the duly elected Vice President of the Arch Insurance Company.
IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the Arch Insurance Company on this 17th day of October 20 07  Martin J. Nilsen, Secretary
This Power of Attorney limits the acts of those named therein to the bonds and undertakings specifically named therein and they have no authority to bind the Company except in the manner and to the extent herein stated.
PLEASE SEND ALL CLAIM INQUIRIES RELATING TO THIS BOND TO THE FOLLOWING ADDRESS:
Arch Surety 3 Parkway, Suite 1500 Philadelphia, PA 19102
CORPORATE SEL

00ML0013 00 03 03

Printed in U.S.A.

Missouri

# SECΠΟΝ 00450

# LIST OF SUBCONTRACTORS

The following information gives the name, business address, and portion of work (description of work to be done) and percentage of total contract amount for each Subcontractor that will be used in the work if the bidder is awarded the contract. For this Contract, Subcontractors include the manufacturers or suppliers of major equipment and materials as written in by the bidder. (Additional supporting data may be attached to this page. Each page shall be sequentially numbered, e.g., 00450-2, and headed "List of Subcontractors" and shall be signed.)

		Description of Work	Percentage of Total
<u>Name</u>	Business Address		Contract
South Gate Engineering, Inc.	13477 Yorba Avenue Chino, CA	Pressure Vessels	26%
L & B Associates	1088 Cook Road St. Albans, VT	Piping	14%
Eastern Controls, Inc.	3866 Providence Road Edgemont, PA	Foxboro Flow Meters	9%
Flow Control, Inc.	420 Benigno Blvd. Bellmawr, NJ	Bray Valves	10%
D & D Electro Mechanical	8814 Industrial Lane Rancho Cucamonga, CA	Skid Mounting	5%
R. E. Michael Co.	1229 N. Delsea Drive Vineland, NJ	Grundfos Pumps	3%

Signature of Bidder

END OF SECTION

Frank J. Caligiuri Sales Department Manager

Manufacturers of Water Treating Equipment

P.O. BOX 650 CLAYTON, NEW JERSEY 08312-0650 856-881-3200 FAX 856-881-6859

E-mail: fcaligiuri@hungerfordterry.com

October 16, 2007



Carson City Purchasing and Contracts 201 North Carson Street, Suite II Carson City, NV 89701

Attention:

Ms. Cheryl Adams

Reference:

Invitation to Bid #0708-046 / H&T Proposal 32304

Packaged Pressure Filtration System

# Signed and Acknowledged Addenda

# Carson City Packaged Arsenic Water Treatment Plant Equipment Bid # 0708-046 Bid Due: 2:00 pm October, 17 2007

Addendum No. 1
Dated: September 18, 2007

Suppliers are directed to meet the following requirements for submitting a responsive bid for the above referenced project. The conditions listed in this addendum shall be incorporated by reference in the Contract Documents under the executed agreement. This addendum shall be transmitted by facsimile to the fax numbers provided on the plan holders list.

Item 1 – PRE-QUALIFICATION

Specification Section 00100 - Invitation to Bid

SUBSTITUTE the following revised paragraph:

PRE-QUALIFICATION

Pursuant to Section 11345 Packaged Pressure Filtration System, Part 1.03 Supplier Prequalification and Presubmittal, All Suppliers (including those specified) submitting a bid must be pre-qualified by Owner 7-calendar days prior to bid opening. Bidders shall submit the pre-qualification material to Owner for review no later than 2 p.m. October 3, 2007. Owner will fax out a list of approved Suppliers to the plan holders list no later than 5 p.m. October 10, 2007.

Specification Section 11345 - Packaged Pressure Filtration System

Section 1.03 SUPPLIER PREQUALIFICATION AND PRESUBMITTAL

SUBSTITUTE the following revised paragraph:

A. All SUPPLIERS (including those specified) submitting a bid must be pre-qualified by OWNER per Section 00100 Invitation to Bid 7 days in advance of the bid submittal date. OWNER reserves the sole right to accept or reject the alternate SUPPLIERS. As part of the prequalification process, SUPPLIER shall provide the following information to OWNER:

Item 2 – ADDITIONAL CHLORINE ANALYZER

### Figure 1 – ATP Process Schematic

### SUBSTITUTE Figure 1 Rev. 9-14-07 (attached)

### Specification Section 11345 – Packaged Pressure Filtration System

### **Section 2.02 EQUIPMENT SCHEDULE**

### **INSERT** the following:

Chlorine Level Analyzer/Chart Recorder	AE 2	11345	

### Section 2.18 Programmable Logic Controller, Part E - PLC 1 I/O Interface

### INSERT the following:

CHLORINE ANALYZER (AE 1, 2)	
PLC 1 Inputs	
Receives chlorine residual reading from AE 1, 2	
Receives low residual level alarm from AE 1, 2	

### Section 2.24 CHLORINE LEVEL ANALYZER & CHART RECORDER

### SUBSTITUTE the following revised sections:

- 2.24 CHLORINE LEVEL ANALYZER & CHART RECORDER (AE 1)
- A. Provide one two Severn Trent residual analyzers, series 1870E, with field selectable monitoring range from 0-2.0 mg/l to 0-20 mg/l, 4-20mA dc, or approved equal. Instrument shall be an amperometric unit with continuous residual levels of free or total chlorine in the water stream. Unit shall be furnished with ¼" pressure reducing valve assembly, premixed buffer solution (pH 4) 10 week supply, and potassium iodide (total residual) and wall mountable cabinet. The unit shall provide output to a circular chart recorder and high and low chlorine residual alarm contacts.
- B. Provide a one two pen, 10" circular chart recorder, with wall mountable enclosure, digital readout, as manufactured by Chessell model 392, or approved equal.

### Item 3 - FILTER MEDIA

### Specification Section 11345 - Packaged Pressure Filtration System

### **Section 2.07 FILTER MEDIA**

### SUBSTITUTE the following revised section:

- 2.07 FILTER MEDIA
- A. MetalEase-61 manganese dioxide media to be purchased and installed separately by Owner. The bulk density of MealEase-61 media is 114 lbs per cubic foot.

### Item 4 - FILTER BACKWASH RATE

Specification Section 11345 - Packaged Pressure Filtration System

### Section 1.05.B PROCESS PARAMETERS

### SUBSTITUTE the following revised section:

- 1.05 PROCESS PARAMETERS
- B. The filter upflow backwash rate shall be 15 20 gpm/ft<sup>2</sup>.

Bidder must return this page by fax to Carson City Purchasing to acknowledge receipt of Addendum #1.

Bidder Representative

Signature of Acknowledgement

Joe Bellin, P.E.

Brown and Caldwell

# Carson City Packaged Arsenic Water Treatment Plant Equipment Bid # 0708-046

Bid Due: 2:00 pm October, 17 2007

### Addendum No. 2 Dated: September 26, 2007

Suppliers are directed to meet the following requirements for submitting a responsive bid for the above referenced project. The conditions listed in this addendum shall be incorporated by reference in the Contract Documents under the executed agreement. This addendum shall be transmitted by facsimile to the fax numbers provided on the plan holders list.

Item 1 - FIGURES 1 - 3

SUBSTITUTE the attached revised Figures 1-3.

### Item 2 - FILTER SIDE SHELL LENGTH & OVERALL HEIGHT

Specification Section 11345 – Packaged Pressure Filtration System

### SUBSTITUTE the following revised paragraph:

- 2.03 FILTER VESSELS (FLTR A, B, C)
- B. Each PFS shall be equipped with three filter vessels with the following specifications:
  - 1. Three filter vessels (vessels A, B and C) with 10'-0" diameter and 6'-0" 7'-0" sideshell as shown on the drawings. This provides an effective total filtration area of 236 ft<sup>2</sup>.
- F. The top of the appurtenances on filter vessel shell shall not exceed 12' height from the finished floor. Inlet and appurtenance piping and access platform shall be oriented to clear the existing roof beam 12'-9" above finished floor, as shown on Figure 2.

### Item 3 – NUMBER & LOCATION OF MANWAYS

Specification Section 11345 - Packaged Pressure Filtration System

### SUBSTITUTE the following revised paragraph:

2.03 FILTER VESSELS (FLTR A, B, C)

D. The filter vessels shall be equipped with necessary flanges and connections for the main piping system. Two 24-inch diameter access manways with a hinged cover and T-bolt clasp shall be provided for access to each filter cell. One manway shall be located on the side shell and one shall be located on the top dome provide access to the filter bed and one shall provide access to the area beneath the underdrain. A ladder and grated platform attached to the filter vessel shall be provided for filter access to the top manway.

### Item 4 - FILTER CONNECTING PIPING

Specification Section 11345 - Packaged Pressure Filtration System

### SUBSTITUTE the following revised paragraph:

- 2.03 FILTER VESSELS (FLTR A, B, C)
- H. SUPPLIER shall provide the interconnecting piping as required to connect the filters in the "L" configuration shown in the Building Plan drawing. The interconnecting piping provided by SUPPLIER shall be such that future Filter D can be connected to the Filter C inlet, outlet, and backwash header pipes without additional sub-grade piping. The filter system must fit within the constraints of the existing building as shown.

### Item 5 - FILTER DISTRIBUTION AND WASH WATER COLLECTION PIPING

### Specification Section 11345 – Packaged Pressure Filtration System

### SUBSTITUTE the following revised paragraph:

B. The distribution and collection system of the filter shall be arranged to accommodate backwashing at the rate of <u>20 15</u> gallons per minute per square foot of filter surface. Backwash will be provided from a backflow protected connection with the Carson City water distribution system.

### Item 6 – CHLORINE ANALYZER & CHART RECORDER

Specification Section 11345 - Packaged Pressure Filtration System

DELETE SECTION 2.24 CHLORINE LEVEL ANALYZER & CHART RECORDER (AE 1)

### INSERT SECTION 2.24 CHLORINE LEVEL ANALYZER (AE 1, 2)

- 2.24 CHLORINE LEVEL ANALYZER (AE 1, 2)
- A. Provide two Hach residual analyzers, model CL-17.

The analyzer shall have the following specifications:

Range: 0 to 5 mg/l free residual chlorine, with automatic color turbidity compensation.

Accuracy & Precision: +/- 5% or 0.035 mg/l as Cl2, whichever is greater

Minimum Detection Limit: 0.035 mg/l

Cycle Time: One complete analysis every 2-1/2 minutes

Recorder Outputs: One 4-20 mA with an output span programmable over the 0 to 5 mg/l range.

Alarms: Two alarms selectable for sample concentration, system warning or system shut-down. Each alarm is equipped with SPDT relay with contacts rated for 5A resistive load at 230 VAC.

Power: 100-115/230 VAC, 60 Hz

Enclosure: ABS plastic, IP62 enclosure rating with two clear polycarbonate windows.

Unit shall be furnished with '4" pressure reducing valve assembly, and a 5 gallon supply of each required Hach DPD reagents.

### **Section 2.02 EQUIPMENT SCHEDULE**

### INSERT the following revised section:

Misc.		
Chlorine Level Analyzer	AE 1, AE 2	11345
Startup Chemicals/ Test Kits		11345

Bidder must return this page by fax to Carson City Purchasing to acknowledge receipt of Addendum #2.

Bidder Representative

Signature of Acknowledgement

Joel Bellin, P.E.

Brown and Caldwell

## Carson City Packaged Arsenic Water Treatment Plant Equipment Bid # 0708-046

Bid Due: 2:00 pm October, 17 2007

### Addendum No. 3 Dated: October 5, 2007

Suppliers are directed to meet the following requirements for submitting a responsive bid for the above referenced project. The conditions listed in this addendum shall be incorporated by reference in the Contract Documents under the executed agreement. This addendum shall be transmitted by facsimile to the fax numbers provided on the plan holders list.

### Item 1 – FIGURES 1 – 3

SUBSTITUTE the attached revised Figure 1. Note the increase in inlet/outlet pipe and valve sizes on the filter.

### Item 2 – FERRIC FEED PUMPS AND STORAGE TANK

### Specification Section 11800 – Chemical Metering Pump Assemblies

### SUBSTITUTE the following revised Section 2.03.B:

Item	Size	Qty.
Spring loaded ball check valve	1/2 inch	2
Pressure relief valve	1/2 inch	2
Pulsation dampener	1/2 inch	2
Diaphragm protected pressure gauge	2-1/2 inch	2
Back pressure valve	1/2 inch	2
Suction foot valve	1/2 inch	1
Calibration column		1
3/4" corporation stop and PE injection nozzle assembly with restraint cable		1
Y-type strainer	1/2 inch	2
Metering Pumps FFP 1,2	1.5 0.7 gph	2

### **SUBSTITUTE** the following revised Section 2.03.D.5:

Equipment Number	Quantity	Minimum (gph)	Maximum (gph)
FFP 1-2	2	0.1	<u>1.5</u> <del>0.7</del>

### Specification Section 13201 – High Density Crosslink Polyethylene Tanks

### SUBSTITUTE the following revised Section 2.03.A:

Equipment #	Service	Configuration	Tank Volume Inside (min)	Tank Volume Outer Wall (min)	Outside Diameter (max)
FCT 1	40% Ferric Chloride	Vertical- Double Wall	550 220 Gallons	110% of Inner Volume	<u>53</u> 48 inches

### Item 3 – BACKWASH RECLAIM PUMPS

### Specification Section 11215 - Vertical Inline Centrifugal Pumps

### **SUBSTITUTE** the following revised Section 2.04.A:

### A. PERFORMANCE REQUIREMENTS:

Equipment number	RCP 1, RCP 2
Operating Condition	
Condition A <sup>1,4,5</sup>	
Capacity, gpm Total head, feet	120 75 300 280
Condition B <sup>2,4,5</sup>	
Capacity, gpm Total head, feet	145 100 225 235
Condition C <sup>3,4,5</sup>	
Capacity, gpm Total head, feet	105 55 334 302

CLARIFICATION: The circular chart recorder in Specification 11345, Section 2.24 was removed under Addendum #2.

Bidder must return this page by fax to Carson City Purchasing to acknowledge receipt of Addendum #3.

Bidder Representative

Signature of Acknowledgement

Joel Bellin, P.E.

Brown and Caldwell



### **PROPOSAL**

No.:

<u>32304</u>

Date:

October 16, 2007

For Water Treating Equipment

## Packaged Pressure Filtration System

For:

Carson City, Nevada

To:

Carson City Purchasing and Contracts 201 North Carson Street, Suite 11

Carson City, Vevada 89701

Reference:

Packaged Pressure Filtration System

Invitation to Bid #0708-046 / H&T Proposals 32304

The equipment offered in this proposal is based on information received, and our quotation is subject to revision after 30 days from the date shown above.

**HUNGERFORD & TERRY, INC.** 

Clayton, New Jersey



### **PROPOSAL**

### **HUNGERFORD & TERRY, INC.**

Manufacturers of Water Treating Equipment Clayton, New Jersey

To:

Subject:

Carson City Purchasing and Contracts

Packaged Pressure Filtration System

Quotation No.32304

Date: 10-16-07

For:

Carson City Public Works

We wish to submit the following quotation for your consideration, subject to the conditions printed herein.

### **Vertical Filtration System:**

### Filter Tanks:

Three (3) 120 inch OD x 72 inch straight shell filter tanks designed in accordance with the following:

- 140 PSI design pressure.
- ASME code section VIII construction with stamp.
- Two (2) 24 inch hinged manways with T-bolts.
- Necessary flanged pad or nozzle type connections.
- Four (4) lifting lugs.
- Four (4) structural steel I-beam type support legs.
- Flat bottom support with steel plates.
- Seismic zone 4 with PE calculations.
- Ladder and platform assembly.
- Tank interiors will be near white metal sandblasted (SSPC-SP10)and lined with a Tnemec Series 20 Potapox epoxy-polyamide potable water tank coating system consisting of one (1) coat (3.0 5.0 mils dft) of # (FC) 20-1255 Potapox primer, and one (1) coat (5.0 6.0 mils dft) of # (FC) 20-AA90 Potapox finish (U.S. EPA approved for potable water usage).
- Tank exteriors will be commercial sandblasted (SSPC-SP6) and painted with one (1) coat (1.5 3.0 mils dft) of Tnemec 66-1211 primer.

### Note:

Finish painting of the filter tank exteriors and all piping provided herein is to be furnished and field applied by the contractor.

### **Tank Internal Distributors:**

- Three (3) Header-lateral underdrain distributors of schedule 40 304 stainless steel construction with wedgewire laterals.
- Three (3) Header-lateral underdrain distributors of schedule 40 304 stainless steel construction with wedgewire laterals.

Notes:

1) The tank inlet and underdrain manifold will be shop installed prior to shipment.

### Support Media:

Three (3) 14 inch (92 cubic feet each) graded gravel support beds.

Note:

1) Filter media is to be purchased by the owner under a separate contract.

### Filter Exteriors:

Three (3) Semi-automatic valve nest exteriors (with differential pressure override) consisting of:

Bray series 21 butterfly control valves with lugged body wafer style cast iron bodies, corrosion resistant disc, stainless steel shaft, with Bray electric operators with local disconnects and auxiliary limit switches for:

- Filter Inlet (10 inch) RWI-1,2,3.
- Filter outlet (10 inch) TWE-1,2,3.
- Backwash inlet (10 inch) BWI-1,2,3.
- Backwash outlet (10 inch) BWE-1,2,3.
- Rinse outlet (8 inch) FRE-1,2,3.

Bray series 21 butterfly valves with lugged body wafer style cast iron bodies, corrosion resistant disc, stainless steel shaft, with manual gear operator for:

- Inlet isolating (10 inch) IIV-1,2,3.
- Outlet isolating (10 inch) OIV-1,2,3.

Apco model 145C or equal combination air / vacuum valves for:

• Tank air vent (2 inch) CAV-1,2,3.

Farris pressure relief valve set @ 140 PSI for.

• Tank pressure relief (2 inch) FPR-1,2,3.

Apollo or equal bronze ball valves with lever operator for:

- Tank drain (2 inch).
- Air vent isolating (2 inch).

### System Face and Interconnecting Piping:

### **Cement Lined Ductile Iron Piping:**

Class 53 cement lined ductile iron piping with 150# threaded ductile iron flanges and class 250 flanged cement lined cast iron fittings, including pipe supports for:

• Filter piping (8 and 10 inch).

### Notes:

- 1) Pricing is based on the most compact arrangement of the units as practical.
- 2) All cement-lined piping will include an internal cement lining and bituminous seal coat.
- The exterior surfaces of all piping will be cleaned by hand, wirebrushed, or solvent, and painted with one (1) coat of Tnemec 66-1211 primer. Finish painting will be field applied by the contractor. All valves, pumps, etc. will be furnished with the manufacturers standard painting.
- 4) The extent of cement lined piping included by H&T, Inc. will be limited to the filter connecting headers. Piping to and from the headers is to be furnished by the contractor.
- All system face and interconnecting piping will be furnished with the required bolts, studs, nuts, and gaskets as follows:

Bolts: ASTM A193 stainless steel. Studs: ASTM A193 stainless steel. Nuts: ASTM A194 stainless steel hex.

Gaskets: Garlock no. 91 or equal, 1/8 inch thick.

### **System Auxiliary Equipment:**

### Sample cocks:

- Nine (9) Apollo or equal bronze ball valves with lever operators and Orthos strainers for:
  - Filter A (.5 inch) MSV-1,2,3.
  - Filter B (.5 inch) MSV-4,5,6.
  - Filter C (.5 inch) MSV-7,8,9.
- Eight (8) Apollo or equal bronze ball valves with lever operators for:
  - Raw water (.25 inch)
  - Filter influent (.25 inch) FSV-1,3,5.
  - Filter effluent (.25 inch). FSV-2,4,6.
  - Plant effluent (.25 inch). FSV 7.

### Filter Pressure Equipment:

- Three (3) Dwyer model H3 series explosion proof differential pressure switch including drain plug, an o-ringseal in cover, and a set point adjustment screw.
  - DPS-1,2,3.
- Three (3) Lot of supply tubing.
- Three (3) Lot of isolating valves.

### Loss of Head Gauges:

- Three (3) Aluminum mounting brackets
- Six (6) Ashcroft model 1279AS pressure gauges with 4.5 inch diameter dials and bronze bourdon tubes for:
  - Filter inlet. PI-1,2,3.
  - Filter outlet. PI-2.4.6.
- Six (6) Lot of supply tubing.
- Six (6) Lot of isolating valves.

### Filter Flow Equipment:

- Four (4) Foxboro or equal electromagnetic flow meters with carbon steel bodies, polyurethane liners and stainless steel electrodes with remote transmitters mounted in PFS control panel for:
  - Filter effluent (6 inch) FM-1,2,3.
  - Backwash supply (8 inch) FM-4.

### Flow Control Valves:

- Four (4) Cla-Val model 631G rate of flow control valves with model 131 electronic interface controllers for.
  - Filter outlet (8 inch) FCV-1,2,3.
  - Backwash supply (10 inch) FCV-4.

### Ferric Chloride Feed System (skid mounted):

- One (1) Snyder or equal 550 gallon double walled HDCP solution tank with domed top and flat bottom.
  - FCT1
- One (1) Magnetrol or equal low level float switch.
  - LSL2
- One (1) Miltronics or equal ultrasonic level controller and transmitter.
  - LIT2 & LT2
- Two (2) Jesco or equal chemical feed pumps rated 1.5 gph at 150 PSI of PVC construction complete with a manual stroke adjustment, automatic speed controls and 115 volt, single phase, TEFC motors.
  - FFP -1 & 2.
- One (1) Calibration column.
- Two (2) Pressure relief valves.
- Two (2) Pulsation dampeners.
- Two (2) Back pressure valves.
- One (1) Set of PVC pump discharge piping.
- One (1) Set of isolating valves.
- One (1) NEMA 4 painted steel control panel.
  - CP2

### **Inline Rapid Mixer & Controls:**

- One (1) Hayward Gordon Ltd. Or equal inline rapid mixer for 12 inch diameter pipe and 150 psi pressure rating.
  - RP1
- One (1) NEMA 4X motor disconnect.
- One (1) NEMA 4 painted steel control panel with motor starter, H-O-A switch, main breaker & disconnect, UL-label etc.
  - CP4

### **Common Valving:**

- One (1) Bray series 21 butterfly valve with lugged body wafer style cast iron bodies, corrosion resistant disc, stainless steel shaft, with manual gear operator for:
  - Backwash isolating (10 inch) BWIV1

### **Backwash Holding Tank Level Equipment:**

- One (1) Miltronics or equal ultrasonic level controller and transmitter.
  - LIT1 & LT1
- Two (2) Drexelbrook or equal level probes for:
  - LSL1 (low level).
  - LSH1 (high level).

### **Backwash Holding Tank Flow Equipment:**

- One (1) Foxboro or equal electromagnetic flow meters with carbon steel bodies, polyurethane liners and stainless steel electrodes with remote transmitters mounted in PFS control panel for:
  - Backwash Tank inlet (10 inch) FM5.

### **Backwash Holding Tank Valving:**

- One (1) Bray series 21 butterfly valve with lugged body wafer style cast iron bodies, corrosion resistant disc, stainless steel shaft, with manual gear operator for:
  - Backwash drain (3 inch) BDV.

### Plate Settler Valving:

- Two (2) Dezurik or equal eccentric plug valves with electric actuators rated 120V, 60 Hz with limit switches for:
  - Plate settler inlet (4 inch) BWV1.
  - Plate settler sewer discharge (6 inch). SSE1.

### **Plate Settler Level Equipment:**

- One (1) Magnetrol or equal high level float switch for:
  - Plate settler level switch LSH2.

### **Decant Reclaim Wetwell Level Equipment:**

- One (1) Miltronics or equal ultrasonic level controller and transmitter.
  - LT3 & LIT3.
- Three (3) Magnetrol or equal float switches for:
  - Decant low level switch (LSL3).
  - Decant high level switch (LSH3).
  - Decant redundant high level switch (LSHH3).

### **Decant Reclaim Pumps (skid mounted) DRPS:**

- Two (2) Grundfos or equal vertical centrifugal pumps rated for 145 gpm @ 225 ft. TDH of ductile iron construction complete with 208V, 3-phase, type 2 premium efficiency motors.
  - RCP-1,2.
- Two (2) NEMA 4X motor disconnects.
- Two (2) Apco series 800 or equal tilted disc check valves for:
  - Pump discharge (3 inch) CV-1,2.

### **Decant Reclaim Pump Valving:**

- Three (3) Dezurik or equal eccentric plug valves with manual operators for:
  - Pump suction isolation (4 inch) RCV-1,2.
  - Pump discharge isolation (3 inch) RCV3.
- One (1) Apoo or equal combination air / vacuum valves for:
  - Pump discharge air relief (.5 inch) ARV1.

### **Decant Reclaim Flow Equipment & Controls:**

- One (1) Foxboro or equal electromagnetic flow meters with carbon steel bodies, polyurethane liners and stainless steel electrodes with remote transmitters mounted in PFS control panel for:
  - Decant pump station meter (2 inch) FM6.
- One (1) NEMA 3R painted steel control panel.
  - CP3

### **Chlorine Analyzers:**

Two (2) Hach model CL-17 chlorine level analyzer with high and low chlorine residual alarm contacts.

### **Test Kits:**

One (1) Hach (catalog no. 58700-18) or equal manganese pocket colorimeter (P.A.N. method).

One (1) Hach (catalog no. 1725-33) or equal rochelle salt solution.

One (1) Hach model IR-18A (catalog no. 1465-00) or equal medium range iron test kit.

One (1) Hach model CN-66 (catalog no. 2231-01) or equal chlorine free and total test kit.

One (1) Industrial Test Systems Arsenic Quick II test kit with a supply of reagents for 50 tests.

### **Spare Parts:**

Two (2) 8 inch butterfly valves and actuator assemblies.

One (1) 15 inch monitor screen.

One (1) Analog input/output module.

One (1) Digital input/output module.

Five (5) Plug in relays.

Five (5) Fuses.

### Filter System Control Panel (CP-1):

One (1) NEMA 4 painted steel free standing electrical control panel containing a Modicon Momentum programmable logic controller (PLC), Ez-automation 15" diagonal monitor #EZ-15MT (or equal), Nortech #EIC600-W pentium 4 computer with Intellution HMI graphics runtime software, Allen Bradley #700HA32A1 interposing relays, 120 VAC surge protector, 24 VDC power supply, UPS (with 30 min. backup), N-Tron Ethernet switch, NEMA 4 power disconnect switch, nameplates, type "THHN" wire, UL label, etc.

### Filter Remote I/O Panel:

- Three (3) NEMA 4X type 316 stainless steel enclosure with Modicon Momentum I/O blocks, Allen Bradley #700HA32A1 interposing relays, 120 VAC surge protector, N-Tron Ethernet switch, power disconnect switch (on door), terminal blocks, nameplates, UL label, etc.
  - Filter #1 RIO
  - Filter #2 RIO
  - Filter #3 RIO

### Notes:

- 1. The control panel will be completely shop wired, tested, and finish painted prior to shipment.
- 2. All interconnecting wiring, conduit, and wire terminations between the control panel and all local mounted electrical equipment is to be furnished and installed by the contractor.
- 3. Filter Remote I/O panels will communicate via Ethernet to the filter control panel, CP-1.

### System Software/Programming equipment:

Programming integral to the operation of the equipment supplied by Hungerford & Terry, Inc. will be performed by Hungerford & Terry, Inc. Should the customer choose to modify the original factory PLC program, a laptop computer and a registered copy of Modicon Proworx 32 PLC software will be required. Should the customer choose to modify the original factory HMI program a registered copy of IFIX Plus SCADA PAK 900 I/O developer software will be required. Hungerford & Terry will provide a quotation to furnish the programming software and accessory hardware defined above upon request.

### **Shop Fabrication:**

All filter tank internal distributors will be completely shop fabricated prior to shipment.

All filter tank exteriors piping will be shop fabricated to the proper lengths as shown on our construction drawings, and will be furnished with all required flanges installed.

All equipment and materials will be shipped for jobsite installation by the purchaser unless specifically mentioned above to be installed prior to shipment.

### Skid Mounting and Shop Assembly:

### **Skid Numbers 1-3:**

Skid numbers 1 thru 3 each will include one (1) filter tank complete with internal distributors, exterior face piping and valves, and a NEMA 4X remote I/O panel with wiring and conduit to each control valve.

### Ferric Chloride Skid #4:

Two (2) metering pumps, on a structural steel channel skid complete with suction, discharge piping, valves, tubing and a NEMA 4 panel with wiring and conduit to each electrical item.

### **Decant Reclaim Pump Skid #5:**

Two (2) pumps mounted on a structural steel channel skid complete with suction, discharge piping and valves.

### Notes:

- 1) Unit skids will be constructed of structural steel I-beam and channel and will be power wirebrushed and painted with one (1) coat of Tnemec 66-1211 primer prior to shipment.
- 2) Each skid-mounted unit will be assembled and shipped with the maximum extent of equipment allowable for safe shipment.
- Equipment not specifically mentioned above to be installed on the skid-mounted units or not suitable for mounting due to safety limitations will be shipped for jobsite installation by the purchaser.
- 4) Piping assemblies bolted together at our factory and shipped over the road will experience some loosening of nuts and bolts during the trip. The purchaser will be required to check and tighten all nuts and bolts upon arrival.

### Hungerford and Terry, Inc. Standard Surface Preparation & System Painting:

### **Lined Tanks:**

The interiors of all lined tanks will be sandblasted to near white metal in accordance with SSPC-SP5. Lining will be as specified in the general description of the tanks.

### **Tank Exteriors:**

The exteriors of all steel tanks will be commercial sandblasted in accordance with SSPC-SP6. Painting will be as specified in the general description of the tanks.

### **Structural Steel Skids:**

### **Unlined Steel Pipe:**

The exteriors surfaces of all structural steel skids, misc. structural steel items, unlined steel or ductile iron pipe and fittings, etc. will be cleaned by hand, wire brushing, or solvent as required and painted with one (1) coat of primer.

### Misc. Equipment:

The exteriors surfaces of all misc. valves, pumps, etc. will be furnished with the manufacturers standard prime coat painting or standard prime and finish painting.

### Finish Painting:

Finish painting of all equipment furnished by Hungerford & Terry, Inc. is to be field applied by the installation contractor

CUSTOMER: Brown & Caldwell

02-Oct-07

DATA SHEET:

DATE:

H&T, INC.

PREP. BY:

PHONE:

SITE FAX:

Carson City, NV Wells 4 and 49

DESIGN FLOWRATE (gpm):

1,200

MAX SYST USAGE (gal/24hr):

1,728,000

# WATER ANALYSIS

0.081 Fe\*(raw)

(mg/L as CaCO<sub>3</sub>) 67 (mg/L as CaCO<sub>3</sub>) Hardness Alkalinity 1.45 (mg/L)

SiO<sub>2</sub> NH<sub>3</sub>-N (mg/L) 0.087 (mg/L) 7.8 units  $M_n$ Hd

(mg/L) 49.00 (ug/L)

(mg/L)

FILTER DATA

63 deg. F

Тетр

CATALYTIC OXIDATION (CO) PROCESS TYPE:

VERTICAL FILTER PRESSURE

FILTER TYPE:

COMP. AUTO OPERATION

FIELD INSTALLED

GREENSAND PLUS (in) ANTHRACITE (in) 10 NUMBER OF FILTERS DIAMETER (ft)

GRAVEL (in) 33.3 5.1 FLOWRATE (gpm/sq. ft.) CAPACITY / UNIT (%)

9

DET. TIME (min) CAPACITY (gal) CI<sub>2</sub> RX VESSEL

4

CUSTOMER: Brown & Caldwell
PHONE:

FAX: Carson City, NV Wells 4 and 49

DATA SHEET: DATE:

02-Oct-07

H&T, INC.

PREP. BY:

CHEMICAL FEEDS

 CI<sub>2</sub> pH
 LB/24 HR
 GAL/24 HR

 CI<sub>2</sub> pH
 19.3
 15.5

 PH
 57.2
 12.0

BACKWASH

WATER SOURCE: STORAGE

BACKWASH

(NO AIR/WATER WASH)

 FLOWRATE (gpm)
 1,570

 TOT/UNIT (gal)
 15,700

 TOT/SYST (gal)
 47,100

RUN LENGTH

MINIMUM MAXIMUM

00

CAPACITY (gr/sq. ft.)
BACKWASH FREQUENCY (gal)
RUN LENGTH (hr)

CUSTOMER: Brown & Caldwell

PHONE: FAX: SITE:

Carson City, NV Wells 4 and 49

DATA SHEET: DATE:

02-Oct-07

PREP. BY: H&T, INC.

# BACKWASH SEQUENCE

FLOW FLOW TIME VOLUME (gpm) (gpm/sq. ft.) (min) (gals)	15,700	,	RINSE TO WASTE RAW 400 5.1 3 1,200	16,900
TIME (min)	10	~	ო	15
FLOW FLOW TIME (gpm) (gpm/sq. ft.) (min)	20.0	,	7.	
FLOW (gpm)	1,570	ı	400	]   
SOURCE	STORAGE	ı	RAW	11 11 11 11 11 11 11 11 11 11
STEP	ВАСКWАЅН	BED SETTLE	RINSE TO WASTE	TOTAL

Brown & Caldwell CUSTOMER:

PHONE:

FAX:

SITE:

Carson City, NV Wells 4 and 49

DATA SHEET: DATE:

02-Oct-07

# PREP. BY:

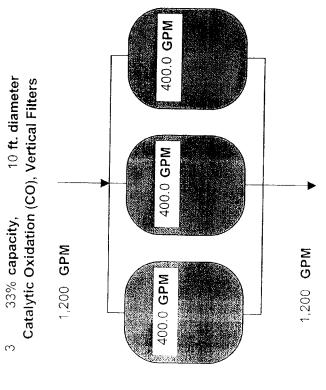
H&T, INC.

FLOW DIAGRAM

1,200

SYSTEM FLOWRATE (gpm): FILTER INFO:

(Y)



Brown & Caldwell CUSTOMER:

PHONE:

FAX:

SITE:

Carson City, NV Wells 4 and 49

DATE:

DATA SHEET:

02-Oct-07

H&T, INC.

PREP. BY:

# BACKWASH WATER RECLAIM/SETTLING TANK

47,100 3,600 3 MINS AT SERV. RATE VESSELS BACKWASH VOLUME (gal) RINSE VOLUME (gal)

50,700 TOTAL VOL (gal) SAFETY FACTOR

65,910 VOL OF VESSEL REQD (gal)

65,900 FINAL VOLUME (gal)

43,095 7,605 120 6.0 60 0.0 0.000 85% OF TOT VOL 15% OF TOT VOL PERCENTAGE SOLIDS IN SETTLED SLUDGE (%) SUPERNATANT RETURN FLOWRATE (gpm) SUPERNATANT VOL TO RETURN (gal) SLUDGE REMOVAL FLOWRATE (gpm) TOTAL SLUDGE REMOVAL TIME (hr) SOLIDS IN SETTLED SLUDGE (Ib) SETTLED SLUDGE VOLUME (gal) TOTAL RECYCLE TIME (hr)

SOLIDS IN SETTLED SLUDGE / MIL GAL TREATED (Ib) SETTLED SLUDGE VOL / MIL GAL TREATED (gal)

#DIV/0! #DIV/0i

Manufacturers of Water Treating Equipment

P.O. BOX 650 CLAYTON, NEW JERSEY 08312-0650 856-881-3200 FAX 856-881-6859

E-mail: fcaligiuri@hungerfordterry.com





Executive Summary

### CLAYTON, NEW JERSEY

### Section 1: Executive Summary

Hungerford & Terry, Inc. is a privately owned U.S. corporation. The company was originally established as a partnership between Mr. Churchill Hungerford, Sr. and Mr. Alfred L. Terry in 1907. Mr. Terry's interest in the company was subsequently purchased by Mr. Hungerford, and the company was incorporated on May 7, 1909.

In it's early years the company built filtration equipment to treat drinking water in expanding U.S. cities, and to treat process water to be used in developing industries including textile mills, dye houses, pulp and paper mills, and steel mills in the early part of the century.

When the company's founder passed away in 1941, his son, Churchill Hungerford, Jr., assumed leadership of the company. During the war years the company built equipment to support the war effort, including softeners and filtration equipment for the steel and rubber industries.

With the development of synthetic ion exchange resin during the war, the company grew and prospered building softeners and ion exchange equipment for the laundry and power industries during the economic expansion after the war. Some early customers in the power plant field included Ohio Edison (1951, 1955, and 1958); Toledo Edison Co. (1959); Japan Atomic Energy Research Institute (1962); Pennsylvania Power & Light (1963); Atomic Energy Commission Nuclear Power Station – Rincon, Puerto Rico (1962); Knowles Atomic Power Laboratory – Schenectady N.Y.(1958 & 1965); and Duquesne Light Co. (1955) for the first operating nuclear power station in the USA at Shippingport, Pa

During its formative years, Hungerford & Terry developed and patented the continuous regeneration process for removal of iron and manganese from ground water. Before this development the accepted treatment method involved aeration, sedimentation, and filtration through sand. The CR (continuous regeneration) process facilitated the removal of soluble iron and manganese from water through the injection of potassium permanganate ahead of a filter using manganese greensand. This process enabled users to pump directly from the well to the filter, eliminating aeration and sedimentation steps, and producing superior quality water. The CR process quickly became the industry standard for iron and manganese removal in the late 1960's.

Over the years Hungerford & Terry, Inc. continued to set industry standards as a respected manufacturer of custom-designed water treatment systems. H&T accomplished this by providing among the highest levels of service and expertise. In reviewing the listing of reference installations you will note a significant number of repeat customers. This is indicative of the level of trust these customers and consultants have in Hungerford & Terry as well as their satisfaction with H&T's designs and products.

In recent years the company has continued to developed new processes including the catalytic filtration process, a high rate filter process that uses only a pre-feed of chlorine. With the ongoing development in many third world Asian countries, Hungerford & Terry, Inc. has been called upon to design and fabricate water treatment systems for new power plants overseas. These systems include pretreatment clarifiers, gravity filters, filter presses, demineralizers, and waste neutralization systems. Today Hungerford & Terry systems are found in countries around the world including Indonesia, Thailand, China, The Philippines, Morocco, and Guatemala, to name a few.

Churchill Hungerford, Jr. died in 1982, but not before providing for the continuation of the company. His interest in the company reverted to the corporation upon his death. Today all officers, directors and common stockholders in the company are employees of the company.

### CLAYTON, NEW JERSEY

### Section 2: Facilities

Hungerford & Terry, Inc. is situated on a 5-acre campus located at 226 Atlantic Avenue, Clayton, New Jersey, USA.

### 1. Administration/Engineering Building

16,000 sq. ft. two-story masonry building. The second floor houses the Engineering Department, Laboratory, Sales & Purchasing Departments and Administrative Offices. The first floor houses a machine shop including lathes, presses, pipe threading machinery, welding equipment, power saws and other metal fabricating equipment.

### 2. **Assembly Building**

4,000 sq. ft. prefab metal building with 10-ton overhead crane, mobile crane and welding equipment. This building facilitates the erection and assembly of skid-mounted, shop assembled systems and control panels, and serves as a staging area for R&D projects. A 3,000 sq. ft. concrete pad outside the assembly building is sometimes used for the final assembly of systems that are too large for final assembly within the confines of the building structure.

### 3. Warehouse

16,000 sq. ft. two-story facility utilized for shipping, receiving, and warehousing common components, sub-assemblies, and spare parts used in the manufacture and support of water treatment systems. These components and sub-assemblies include of valves, piping, fittings, meters and other common system components.

### **LABORATORY**

A fully equipped wet laboratory is located within the confines of the Administration Building. Trained technicians and chemical engineers run column studies, test ion exchange resin and filter media specimens, and run analyses on water samples with sophisticated instrumentation including an atomic absorption spectrophotometer. The lab personnel also perform bench scale studies and conducts pilot plant studies in the field.

### **ENGINEERING**

Engineering is staffed with mechanical project engineers, electrical support engineers, drafting / CAD operators, technical writers, project estimators, and administrative support personnel. Submittals are prepared on CAD.

### CLAYTON, NEW JERSEY

Section 3: Key Personnel

<u>Alan A. Davis</u> <u>President</u> - B.S. Degree in Engineering from Rutgers University -

New Brunswick, N.J. 24 years experience with H&T, Inc. Held positions of Estimator, Project Engineer, Assistant Chief Engineer,

Chief Engineer, and Vice President of Engineering.

<u>Harold L. Aronovitch</u> <u>Vice President / Technical Director</u> - BASc Chemical

Engineering, University of Toronto (Canada) 1963. 30 years experience in the field of water treatment - 18 years with H&T, Inc.

as Senior Chemical Engineer prior to becoming Technical

Director. Also held positions with Betz Environmental Engineers,

Graver Water, Cochrane Environmental Systems, Division of

Crane Co. prior to becoming affiliated with H&T.

Kenneth M. Sayell Vice President, Sales - B.S. Degree in Mechanical Engineer

Technology from Spring Garden College - Philadelphia, PA. 16 years experience with H&T, Inc. as Sales Engineer prior to

becoming Sales Manager in 1986.

<u>Russell K. Born</u> <u>Chief Engineer</u> - B.S. Degree in Engineering - University of

Delaware. 7 years with H&T, Inc., held positions of Project Engineer and Assistant Chief Engineer prior to becoming Chief

Engineer.

<u>William J. Probasco</u> <u>Assistant Chief Engineer</u> - M.S. Degree in Engineering -

Rowan University – Glassboro, N.J., B.S. Degree in Electrical

Engineering - Rutgers University - New Brunswick, N.J. Started

career with H&T in 1991, held positions as Field Service Technician and Project Estimator prior to becoming Assistant

Chief Engineer

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October 16, 2007



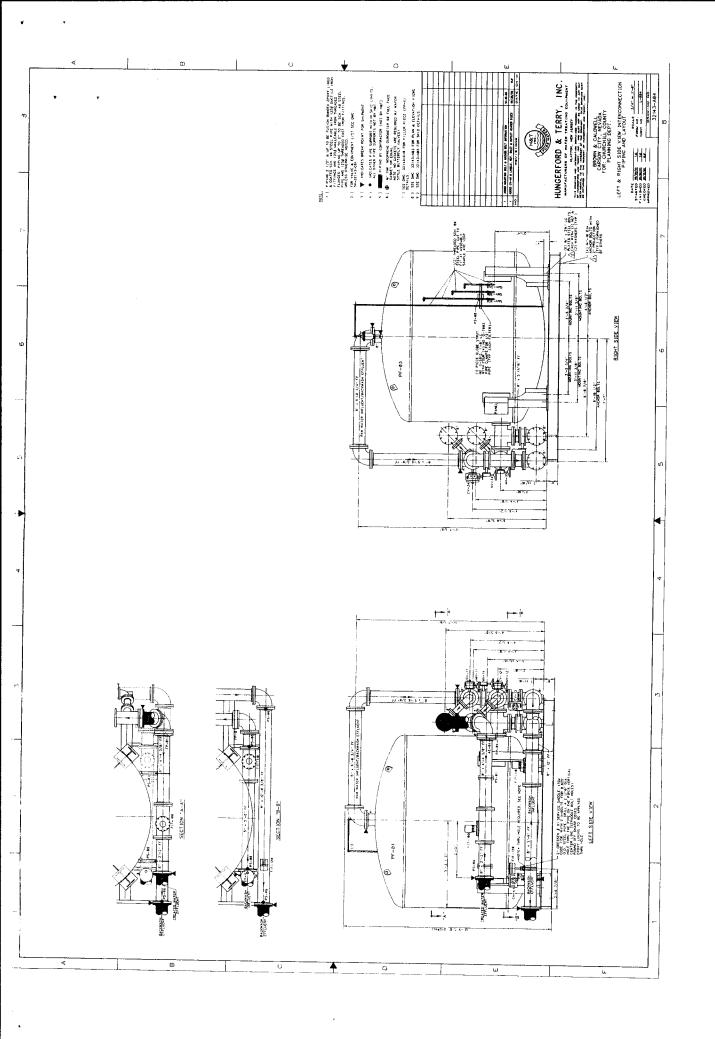
Carson City Purchasing and Contracts 201 North Carson Street, Suite II Carson City, NV 89701

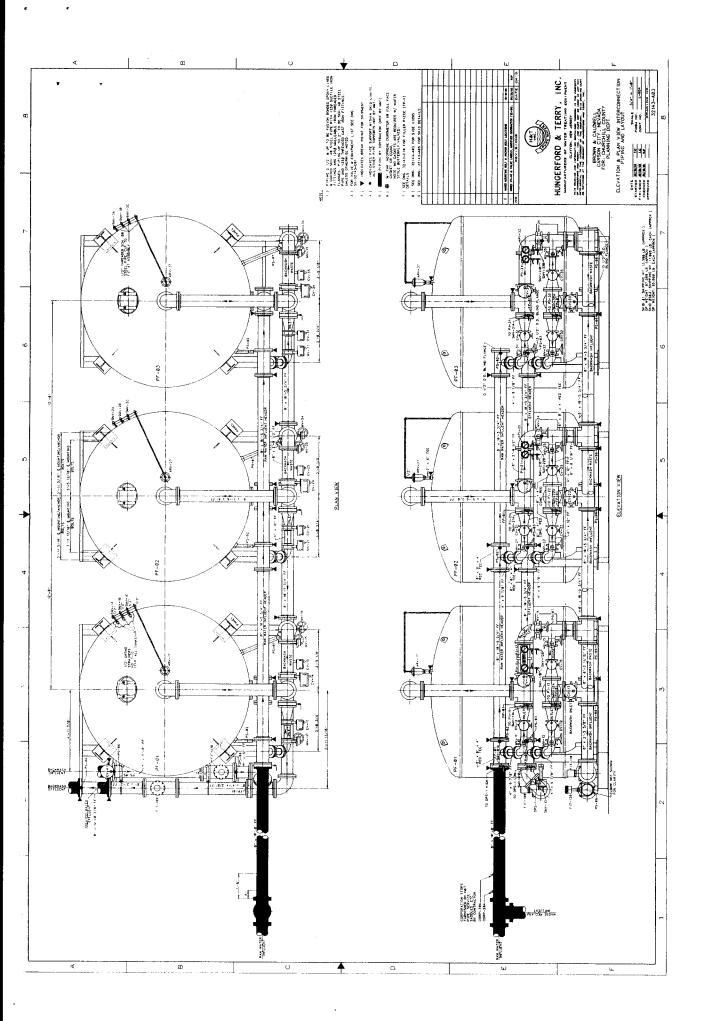
Attention: Ms. Cheryl Adams

Reference: Invitation to Bid #0708-046 / H&T Proposal 32304

Packaged Pressure Filtration System

# Typical Bayout Drawings





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Attention:

Ms. Cheryl Adams

Reference:

Invitation to Bid #0708-046 / H&T Proposal 32304

Packaged Pressure Filtration System

# Supplemental Reference List

# THE FOLLOWING IS A PARTIAL LIST OF ARSENIC REMOVAL PLANTS FURNISHED BY HUNGERFORD & TERRY, INC.

NAME & LOCATION	EQUIPMENT	CAPACITY (GPH)	DATE	
<b>Dry Creek Rancheria</b> Healdsburg, CA (L-913-31906)	72 in. dia. Automatic Vertical Catalytic Oxidation Ferrosand Filters, Internals, Clayton Diaphragm Valves, Piping, Air Compressor, PLC Control Panel ( NEMA 4 ), Skid Mounted	24,000	2002	
Canyon General Improve District Plant Well # 2 Sparks, NV (L-945-32010)	108 in. dia. Automatic Vertical Catalytic Oxidation Ferrosand Filters, Gravel Retaining Screen, Brass Air Wash, Media, Clayton Diaphragm Valve, Piping, Chemical Feeders, Air Blower,	33,000	2004	
Contact: Jim Arden / (775) 747-4043  Canyon General Improve District Plant Well # 1	Hydropneumatic System, Backwash Reclaim Tank, PLC Control Panel (NEMA 12), Skid Mounted 72in. dia. Automatic Vertical Catalytic Oxidation Ferrosand Filters, Gravel Retaining	21,000	2004	
Sparks, NV (L-946-32011) Contact: Jim Arden / (775) 747-4043	Screen, Brass Air Wash, Media, Clayton Diaphragm Valves, Piping, Air Blower, Chemical Feeder System, Hydro-Pneumatic Water System, Backwash Reclaim Tank, PLC Control Panel ( NEMA 12 ), Skid Mounted			

. NAME & LOCATION	EQUIPMENT	CAPACITY (GPH)	DATE
<b>Ft. Irwin</b> Fort Irwin, CA (L-952-31985)	78 in. dia. Automatic Vertical Continuous Regeneration Ferrosand Filter, Gravel Retaining Screen, Brass Air Wash, Media, Bray Butterfly Valves, Piping, Chemical Feed System, Air Blower, SLC Control Panel ( NEMA 4 ), Skid Mounted	6,000	2004
Penninsula Water Conditioning Steeple Chase Division Salisbury, MD (L-953-32000)	72 in. dia. Automatic Vertical Continuous Regeneration Ferrosand Filters, Media, Bray Butterfly Valves, Piping, Chemical Feed System, PLC Control Panel ( NEMA 12 )	18,000	2004
Churchill County Planning Dept. Fallon, NV 89406 (L-984-32143)	126 in. dia. Automatic Catalytic Oxidation GreensandPlus Filters, Media, Bray Butterfly Valves, Piping, Chemical Feeder Systems, Backwash Reclaim Tanks, PLC Control Panel (NEMA 12), Skid Mounted	45,000	2005
American Water Co. Sacramento, CA (L-997-32109)	120 in. dia Automatic Catalytic Oxidation GreensandPlus Filters, Media, Oratt Butterfly Valves, Piping, Instrumentation, Reclaim Equip. Control Panel	30,000	2006

NAME & LOCATION	EQUIPMENT	CAPACITY (GPH)	DATE
California American Water Co. Walnut Grove WTP Sacramento, CA (M-003-32108-A) Contact: Shawn Sevey / (916) 568-4216	96 in. dia. Automatic Catalytic Oxidation GreensandPlus Filters, Pratt Buterfly Valves, Electric Motor Operators, Piping, Instrumentation, Reclaim Tank Valving, Control Panel	18,000	2007
City of Rio Rancho Well No. 9 Rio Rancho, NM (M-010-32195) Contact(s): Mr. Joseph Baca Mr. John Ketchum (505) 891-5010	108 in. dia. Automatic Vertical Continuous Regeneration Dual Media Filters, Bray Series 21 Electric Motor Operated Valves, Piping, Instrumentation, Control Panel	55,500	2006
City of Rio Rancho Well No. 13 Rio Rancho, NM (M-011-32196) Contact(s): Mr. Joseph Baca Mr. John Ketchum (505) 891-5010	108 in. dia. Automatic Vertical Continuous Regeneration Dual Media Filters, Bray Series 21 Electric Motor Operated Valves, Piping, Instrumentation, Control Panel	48,000	2006