



CITY OF CHANDLER JOB ORDER PROJECT AGREEMENT

Project Name: **OCOTILLO BRINE REDUCTION FACILITY ION EXCHANGE OUTLET
WASTE IMPROVEMENTS**

Project No. **WW2001.404**

This JOB ORDER PROJECT AGREEMENT ("Job Order") is made this _____ day of _____ 2023 ("Effective Date"), by and between the City of Chandler, an Arizona municipal corporation, ("City") and **Garney Companies, Inc.**, a Missouri corporation, ("JOC Contractor") and is entered into pursuant to Job Order Master Agreement No. JOC1914.401 ("JOC Master Agreement"). City and JOC Contractor may be referred to individually as "Party" or collectively as "Parties").

City and JOC Contractor, in consideration of the mutual covenants herein set forth, agree as follows:

RECITALS

- A. On or about December 17, 2019, the Parties entered into the JOC Master Agreement, which terms and conditions are made a part of and incorporated into this Job Order Project Agreement by this reference.
- B. City proposes to engage JOC Contractor for OCOTILLO BRINE REDUCTION FACILITY ION EXCHANGE OUTLET WASTE IMPROVEMENTS as more fully described in **Exhibit "A"**, which is attached to and made a part of this Job Order by this reference.
- C. JOC Contractor is ready, willing, and able to provide the services described in **Exhibit "A"** for the compensation and fees set forth and as described in **Exhibit "B"**, which is attached to and made a part of this Agreement by this reference.

ARTICLE 1. DESCRIPTION OF WORK

The Parties enter into this Job Order Project Agreement for the **OCOTILLO BRINE REDUCTION FACILITY ION EXCHANGE OUTLET WASTE IMPROVEMENTS**, Project Number **WW2001.404**. The scope of work consists of improvements to Ocotillo Brine Reduction Facility Ion Exchange Outlet Waste, all as more particularly set forth in **Exhibit "A"** attached hereto and incorporated herein by reference.

The JOC Contractor will not accept any change of scope, or change in contract provisions, unless issued in writing, as a contract amendment or change order and signed by the authorized signatories for each party.

Performance and Payment Bonds, as set forth in **Exhibit "C"** and **Exhibit "D"** respectively attached hereto and incorporated herein by reference, will be due prior to execution of each Job Order Project Agreement in the full amount of each Job Order.

At project completion, JOC Contractor must complete Contractor's Affidavit Regarding Settlement of Claims and Certificate of Completion, as set forth in **Exhibit "E"** and **Exhibit "F"** respectively attached hereto and incorporated herein by reference.

ARTICLE 2. PROJECT PRICE

City will pay JOC Contractor for completion of the Work in accordance with the JOC Master Agreement a fee not to exceed the Guaranteed Maximum Price of **\$319,309.86** Dollars determined and payable as set forth in JOC Master Agreement and **Exhibit "B"** attached hereto and made a part hereof by reference.

ARTICLE 3. CONTRACT TIME & SCHEDULE

JOC Contractor agrees to complete all Construction within **180** calendar days from the Notice to Proceed (NTP) Date.

ARTICLE 4. PARTICIPANTS

CITY:	Construction Project Manager: Russ Slotnick	
	Phone:	480-782-3411
	Email:	Russ.slotnick@chandleraz.gov
JOC CONTRACTOR:	Garney Companies, Inc.	
	4435 E. Holmes Ave., Ste. 102 Mesa, AZ 85206	
	JOC Contractor Representative: Shane O'Brien	
	Phone:	720-375-0988
	Email:	sobrien@garney.com

ARTICLE 5. FORCED LABOR OF ETHNIC UYGHURS PROHIBITED By entering into this Agreement, Contractor certifies and agrees Contractor does not currently use and will not use for the term of this Agreement: (i) the forced labor of ethnic Uyghurs in the People's Republic of China; or (ii) any goods or services produced by the forced labor of ethnic Uyghurs in the People's Republic of China; or (iii) any contractors, subcontractors or suppliers that use the forced labor or any goods or services produced by the forced labor of ethnic Uyghurs in the People's Republic of China.

SIGNATURE PAGE TO FOLLOW

IN WITNESS WHEREOF, the Parties have executed this Job Order as of the Effective Date.

"CITY"

CITY OF CHANDLER:

MAYOR Date

Recommended By:

 
Digitally signed by Kimberly Moon
DN: C=US, E=Kimberly.Moon@ChandlerAZ.gov,
O=City of Chandler, OU=Capital Projects Division,
CN=Kimberly Moon
Date: 2023.10.04 08:46:28-07'00'

Kimberly Moon, P.E.
CIP City Engineer

APPROVED AS TO FORM:

City Attorney By: 

ATTEST:

City Clerk SEAL

"JOC CONTRACTOR"

Garney Companies, Inc.:

 10/4/2023

Signature Date

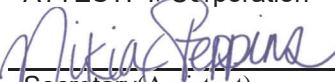
Joel Heimbuck

Print Name

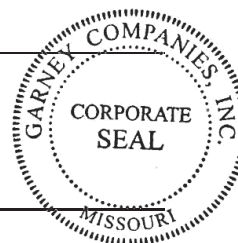
Director of Operations

Title

ATTEST: If Corporation



Secretary (Assistant)



ADDRESS FOR NOTICE

Garney Companies, Inc.

4435 E. Holmes Ave., Ste. 102

Mesa, AZ 85206

EXHIBIT A
SCOPE OF WORK



EXHIBIT A – PROJECT WW2001.404

Ms. Sandra Story
Project Manager
City of Chandler
Public Works and Utilities Department
975 E. Armstrong Way, Building L
Chandler, AZ 85286

September 21st, 2023

RE: Project No. WW2001.404 – Ocotillo Brine Reduction Facility Ion Exchange Outlet Waste Improvements Project – Cost Proposal

Ms. Story,

Garney Construction has prepared the attached ROM cost proposal to complete the following scope of work as identified in the project design documents, site visits and coordination meetings.

- **Identified scope included in this proposal:**
 - a) **Installation of 6" HDPE**
 - i) Installation of approximately 120 linear feet of 6" HDPE piping.
 - ii) Installation of 12 pipe supports for the new 6" HDPE piping.
 - iii) Coating of the new 06" HDPE piping.
 - iv) Installation of the buried 6" HDPE piping as required for the end connection.
- **Identified scope clarifications and exclusions in this proposal:**
 - a) A portion of the cost model back-up is created using recent quotes and invoices for similar unit price materials and services. In these instances, Garney has assumed the responsibility for determining quantities and durations for these scopes of work, using current market unit prices.
 - b) Uni-strut supports will be used as possible in combination with a pipe support system similar to the existing pipe supports on-site.
 - c) Additional flanges may be installed in the field to help with the assembly of the piping system. The potential additional flanges will be coordinated with the City of Chandler Plant Staff, Project Staff and Engineer prior to any installation.
 - d) Please note, within this cost proposal, an owner contingency amount of \$29,028.17 was included. This is a 10% contingency the City of Chandler can use if they deem necessary.
- **Schedule Items and Contract Time**
 - a) The actual schedule for construction will be coordinated with the City of Chandler project team. Below is our assumed schedule for this work.
 - i) Material Submittals and Administrative Paperwork – 4-8 weeks
 - ii) Material Procurement – 4-8 weeks from approved submittals
 - iii) Preconstruction MOPO coordination – 1-2 weeks
 - iv) Construction – 4-6 weeks
 - v) General Site Cleanup and Checkouts – 1-2 weeks
 - vi) It is estimated the NTP for this project is 11-1-23 and the project should be completed by 4-29-23.
 - vii) Estimated Contract Time: 180 Days

viii) It is understood this scope of work will be completed during shutdown times as possible by plant operations. The connections for the new piping will take place as available from the plant staff.

The total GMP cost for this scope of work is \$319,309.86.

Let us know if you have any questions or concerns.

Sincerely,
GARNEY COMPANIES, INC.

Carl Rodgers
Employee-Owner Since 2015

**EXHIBIT B
FEE SCHEDULE**

EXHIBIT "B"**JOB ORDER COST PROPOSAL
SUMMARY SHEET**

Negotiated Prices		
Price of Subcontractor(s)	\$	33,250.00
Price of Subconsultant(s)	\$	-
General Conditions	\$	35,968.67
Preconstruction Labor (if applicable)	\$	-
Construction Labor (if applicable)	\$	133,108.77
Construction Materials	\$	48,220.84
SUBTOTAL (NEGOTIATED PRICES):		\$ 250,548.28
Overhead and Profit (Coefficient per Job Order Master Agreement)	8.00%	\$ 20,043.86
TOTAL (NEGOTIATED PRICES + OVERHEAD & PROFIT):		\$ 270,592.14
Insurance, Bonds, & Taxes		
Sales Tax Percentage (Current Tax Rate) ENTER TAX % HERE:	5.07%	\$ 13,719.02
General Liability Insurance Percentage (Actual Cost per Job Order)		\$ 1,919.10
Builder's Risk Insurance Percentage (Actual Cost per Job Order)		\$ 1,919.10
Payment Bond (Actual Cost per Job Order)		\$ 1,066.17
Performance Bond (Actual Cost per Job Order)		\$ 1,066.17
SUBTOTAL (INSURANCE, BONDS, & TAXES):		\$ 19,689.55
COMBINED TOTAL (TOTAL + INSURANCE, BONDS, & TAXES):		\$ 290,281.69
City's Allowance		\$ 29,028.17
TOTAL JOB ORDER:		\$ 319,309.86

Per the Job Order Master Agreement - This Fee Table includes all fees, costs, insurance and bond premiums, allowances, construction contingency, and taxes of any type necessary to fully, properly and timely perform and construct the Work. Also per the Job Order Master Agreement - For any portion of the Work which, either through this Contract, Change Order or otherwise, is performed and paid for on a cost, or time and materials basis, the costs may be reimbursed to JOC Contractor and chargeable against the Contract Price will be determined as set forth in MAG 109.5.

SCHEDULE OF VALUES

GCI ITEM #	BID ITEM #	SIZE	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
10	HEADER	HEADER	GENERAL CONSTRUCTION:				\$ -
20			MOBILIZATION / DEMOBILIZATION	1.0	LUMP SUM	\$ 20,589.14	\$ 20,589.14
30			CONSTRUCTION WATER	1.0	LUMP SUM	\$ 2,815.00	\$ 2,815.00
50			MATERIALS TESTING	1.0	LUMP SUM	\$ 2,500.00	\$ 2,500.00
100	HEADER	HEADER	ION EXCHANGE OUTLET WASTE:				\$ -
110			DEMO/DISPOSE EXISTING	1.0	LUMP SUM	\$ 15,958.70	\$ 15,958.70
120			PURCHASE & INSTALL ION EXCHANGE PIPING	1.0	LUMP SUM	\$ 166,097.20	\$ 166,097.20
150			START-UP AND TESTING	1.0	LUMP SUM	\$ 6,619.57	\$ 6,619.57
300	HEADER	HEADER	GMP SUMMARY:				\$ -
310		A1	SUBTOTAL: DIRECT COST	1.0	LUMP SUM	\$ 214,579.61	\$ 214,579.61
320		A2	SUBTOTAL: ALLOWANCES	1.0	LUMP SUM	\$ -	\$ -
330		A	TOTAL: DIRECT COST	1.0	LUMP SUM	\$ 214,579.61	\$ 214,579.61
340		B	GENERAL CONDITIONS	1.0	LUMP SUM	\$ 35,968.67	\$ 35,968.67
350	HEADER	HEADER	SUBTOTAL 1:				\$ 250,548.28
360		C	CONTRACTORS FEE	8.00%	PERCENT	\$ 250,548.28	\$ 20,043.86
370	HEADER	HEADER	SUBTOTAL 2:				\$ 270,592.14
380		D1	SALES TAX	5.070%	PERCENT	\$ 270,592.14	\$ 13,719.02
390		D2	TAX CREDITS	-5.070%	PERCENT	\$ -	\$ -
400			SALES TAX TOTAL	1.0	LUMP SUM	\$ 13,719.02	\$ 13,719.02
410	HEADER	HEADER	SUBTOTAL 3:				\$ 284,311.16
420		E1	INSURANCE	1.3500%	PERCENT	\$ 284,311.16	\$ 3,838.20
430		E2	BONDS AND INSURANCE TOTAL	0.7500%	PERCENT	\$ 284,311.16	\$ 2,132.33
440			INSURANCE & BONDS TOTAL	1.0	LUMP SUM	\$ 5,970.53	\$ 5,970.53
450	HEADER	HEADER	SUBTOTAL 4:				\$ 290,281.69
460		F	OWNERS CONTIGENCY	10.0%	PERCENT	\$ 290,281.69	\$ 29,028.17
470	HEADER	HEADER	GMP PROPOSAL:				\$ 319,309.86
480			GMP TOTAL	1.0	LUMP SUM	\$ 319,309.86	\$ 319,309.86

The items above are lump sum items and will be billed based on percent complete. It is understood this project is a lump sum contract and will be billed out at the close of the project.

ESTIMATE

GCI ITEM	BID ITEM	CATEGORY	TYPE	SIZE	DESCRIPTION	QUANTITY PER INSTALL	INSTALL MEASURE	BID ITEM INSTALLS	TOTAL BID ITEM INSTALLS	UNIT	UNIT COST	LINE ITEM TOTAL	BID ITEM TOTAL
10 20	HEADER 0			HEADER 0	GENERAL CONSTRUCTION: MOBILIZATION / DEMOBILIZATION			0 1	0				\$ -
									LUMP SUM				\$ 20,589.14
20	0	Garney	Crew		JOC Mechanical	2.0	Shifts	1.00	2.00	Shifts	\$ 5,119.57	\$ 10,239.14	
20	0	Site Conditions: Field	Material		Sanitary Facilities: Port-O-Lets	3	Months	1.00	3.00	LUMP SUM	\$ 750.00	\$ 2,250.00	
20	0	Site Conditions: Field	Material		Waste Disposal: Roll Off Dumpster	6	Loads	1.00	6.00	LUMP SUM	\$ 750.00	\$ 4,500.00	
20	0	Service: Lowboys	Subcontract		Lowboy: Forklift	2	Moves	1.00	2.00	LUMP SUM	\$ 600.00	\$ 1,200.00	
20	0	Service: Lowboys	Subcontract		Lowboy: Backhoe	2	Moves	1.00	2.00	LUMP SUM	\$ 600.00	\$ 1,200.00	
20	0	Service: Lowboys	Subcontract		Lowboy: Trench Shoring	2	Moves	1.00	2.00	LUMP SUM	\$ 600.00	\$ 1,200.00	
30	0			0	CONSTRUCTION WATER			1		LUMP SUM			\$ 2,815.00
30	0	Construction Water:	Material		Construction Water: Water	45000	Gallons	1.00	45,000.00	LUMP SUM	\$ 0.01	\$ 450.00	
30	0	Construction Water:	Material		Construction Water: Meter	1	Each	1.00	1.00	LUMP SUM	\$ 1,650.00	\$ 1,650.00	
30	0	Construction Water:	Material		Construction Water: Hydrant Usage Fees	1	Months	1.00	1.00	LUMP SUM	\$ 215.00	\$ 215.00	
30	0	Construction Water:	Material		Construction Water: Connection Materials and Hoses	1	Lump Sum	1.00	1.00	LUMP SUM	\$ 500.00	\$ 500.00	
50	0			0	MATERIALS TESTING			1		LUMP SUM			\$ 2,500.00
50	0	Materials Testing:	Subcontract		Materials Testing: Concrete and Backfill Testing	1	Lump Sum	1.00	1.00	LUMP SUM	\$ 2,500.00	\$ 2,500.00	
100 110	HEADER 0			HEADER 0	ION EXCHANGE OUTLET WASTE: DEMO/DISPOSE EXISTING			0 1	0				\$ -
									LUMP SUM				\$ 15,958.70
110	0	Garney	Crew		JOC Mechanical	3.0	Shifts	1.00	3.00	Shifts	\$ 5,119.57	\$ 15,358.70	
110	0	Sawcut:	Subcontract		Sawcut: Sawcut Asphalt Pavement Minimum Mobilization	1	Lump Sum	1.00	1.00	LUMP SUM	\$ 600.00	\$ 600.00	
120	0			0	PURCHASE & INSTALL ION EXCHANGE PIPING			1		LUMP SUM			\$ 166,097.20
120	0	Garney	Crew		JOC Mechanical	20.0	Shifts	1.00	20.00	Shifts	\$ 5,119.57	\$ 102,391.36	
120	0	Supply House:	Material	6"	Pipe: 6" HDPE DR11	160	Linear Feet	1.00	160.00	LUMP SUM	\$ 11.26	\$ 1,802.14	
120	0	Supply House:	Material	6"	Pipe: 6" Blind Flange	1	Each	1.00	1.00	LUMP SUM	\$ 107.25	\$ 107.25	
120	0	Supply House:	Material	6"	Pipe: 6" HDPE Tee	1	Each	1.00	1.00	LUMP SUM	\$ 78.49	\$ 78.49	
120	0	Supply House:	Material	6"	Pipe: 6" HDPE 90 elbow	16	Each	1.00	16.00	LUMP SUM	\$ 60.70	\$ 971.20	
120	0	Supply House:	Material	6"	Pipe: 6" HDPE Coupling	4	Each	1.00	4.00	LUMP SUM	\$ 86.59	\$ 346.36	
120	0	Supply House:	Material	6"	Fitting: HDPE Flange Adapter	6	Each	1.00	6.00	LUMP SUM	\$ 44.81	\$ 268.86	
120	0	Supply House:	Material	6"	Fitting: HDPE Build Up Ring	6	Each	1.00	6.00	LUMP SUM	\$ 18.72	\$ 112.32	
120	0	Supply House:	Material	6"	Fitting: Bolt Kit	6	Each	1.00	6.00	LUMP SUM	\$ 41.19	\$ 247.14	
120	0	Supply House:	Material	6"	Fitting: Gasket	6	Each	1.00	6.00	LUMP SUM	\$ 16.18	\$ 97.08	
120	0	Trench Shoring:	Material		Trench Shoring: Speed Shores or Boxes	1	Lump Sum	1.00	1.00	LUMP SUM	\$ 2,500.00	\$ 2,500.00	
120	0	Pipe Fusing:	Subcontract		Pipe Fusion: Daily Rate	3	Day	1.00	3.00	LUMP SUM	\$ 450.00	\$ 1,350.00	
120	0	Pipe Fusing:	Subcontract		Pipe Fusion: Data Logger Daily Rate	3	Day	1.00	3.00	LUMP SUM	\$ 200.00	\$ 600.00	
120	0	Pipe Fusing:	Subcontract		Pipe Fusion: Tech Service	3	Day	1.00	3.00	LUMP SUM	\$ 1,500.00	\$ 4,500.00	
120	0	Pipe Fusing:	Subcontract		Pipe Fusion: Mob/Demob	2	Each	1.00	2.00	LUMP SUM	\$ 600.00	\$ 1,200.00	
120	0	Supply House:	Material		Misc: Pipe Supports Hilti Dual Post	12	Each	1.00	12.00	LUMP SUM	\$ 2,250.00	\$ 27,000.00	
120	0	Supply House:	Material		Misc: Anchor Bolts	4	Each	1.00	48.00	LUMP SUM	\$ 20.00	\$ 960.00	
120	0	Supply House:	Material		Misc: Epoxy	48.00	Each	1.00	48.00	LUMP SUM	\$ 15.00	\$ 720.00	
120	0	Aggregates:	Material		Aggregates: MAG ABC	5	Tons	1.00	5.00	LUMP SUM	\$ 25.00	\$ 125.00	
120	0	Ready Mix:	Material		Ready Mix: 1/2 Sack CLSM Backfill at Utility	10	Cubic Yards	1.00	10.00	LUMP SUM	\$ 107.00	\$ 1,070.00	
120	0	Ready Mix:	Material		Ready Mix: Grout	1	Lump Sum	1.00	1.00	LUMP SUM	\$ 750.00	\$ 750.00	
120	0	Trucking:	Subcontract		Trucking: Hourly Trucking	10	Hours	1.00	10.00	LUMP SUM	\$ 135.00	\$ 1,350.00	
120	0	Trucking:	Subcontract		Trucking: Disposal Fees	3	Loads	1.00	3.00	LUMP SUM	\$ 75.00	\$ 225.00	

ESTIMATE

GCI ITEM	BID ITEM	CATEGORY	TYPE	SIZE	DESCRIPTION	QUANTITY PER INSTALL	INSTALL MEASURE	BID ITEM INSTALLS	TOTAL BID ITEM INSTALLS	UNIT	UNIT COST	LINE ITEM TOTAL	BID ITEM TOTAL
120	0	Asphalt:	Subcontract		Asphalt: Minimum Quantity Installation Charge	1	Each	1.00	1.00	LUMP SUM	\$ 3,000.00	\$ 3,000.00	
120	0	Coatings:	Subcontract		Coatings: Piping	1	Lump Sum	1.00	1.00	LUMP SUM	\$ 14,325.00	\$ 14,325.00	
150	0			0	START-UP AND TESTING			1		LUMP SUM			\$ 6,619.57
150	0	Garney	Crew		JOC Mechanical	1.0	Shifts	1.00	1.00	Shifts	\$ 5,119.57	\$ 5,119.57	
150	0	Supply House:	Material		Misc: Testing Materials	1	Lump Sum	1.00	1.00	LUMP SUM	\$ 1,500.00	\$ 1,500.00	
200	HEADER			HEADER	ALLOWANCES:			0		0			\$ -
210	0			0	BLANK			1		LUMP SUM			\$ -
300	HEADER			HEADER	GMP SUMMARY:			0		0			\$ -
310	0			A1	SUBTOTAL: DIRECT COST			1		LUMP SUM			\$ -
320	0			A2	SUBTOTAL: ALLOWANCES			1		LUMP SUM			\$ -
330	0			A	TOTAL: DIRECT COST			1		LUMP SUM			\$ -
340	0			B	GENERAL CONDITIONS			1		LUMP SUM			\$ 35,968.67
340	0	Garney	Crew		JOC Project Management	20.0	Shifts	1.00	20.00	Shifts	\$ 1,798.43	\$ 35,968.67	
350	HEADER			HEADER	SUBTOTAL 1:			0		0			\$ -
360	0			C	CONTRACTORS FEE			0		PERCENT			\$ -
370	HEADER			HEADER	SUBTOTAL 2:			0		0			\$ -
380	0			D1	SALES TAX			0		PERCENT			\$ -
390	0			D2	TAX CREDITS			0		PERCENT			\$ -
400	0			0	SALES TAX TOTAL			1		LUMP SUM			\$ -
410	HEADER			HEADER	SUBTOTAL 3:			0		0			\$ -
420	0			E1	INSURANCE			0		PERCENT			\$ -
430	0			E2	BONDS AND INSURANCE TOTAL			0		PERCENT			\$ -
450	HEADER			HEADER	SUBTOTAL 4:			0		0			\$ -
460	0			F	OWNERS CONTIGENCY			0		PERCENT			\$ -
470	HEADER			HEADER	GMP PROPOSAL:			0		0			\$ -
480	0			0	GMP TOTAL			1		LUMP SUM			\$ -

Resource: Hourly Labor	Personnel Quantity	Regular Time	Over Time	Regular Time	Over Time		Totals
		=SUM(D:Q)	=SUM(D:Q)*1.5				=SUM(F*D) +SUM(G*E)*C
	Total	Costs	Costs	Hours	Hours		
SALARY: SUPERINTENDENT	1.00	\$ 121.95	\$ 182.93	40	0		\$ 4,878.00
OPERATOR: BACKHOE	1.00	\$ 51.74	\$ 77.61	40	5		\$ 2,457.65
LABORER: PIPELAYER	1.00	\$ 57.28	\$ 85.92	40	5		\$ 2,720.80
LABORER: PIPELAYER	1.00	\$ 57.28	\$ 85.92	40	5		\$ 2,720.80
LABORER: COMMON	1.00	\$ 46.19	\$ 69.29	40	5		\$ 2,194.03
LABORER: COMMON	1.00	\$ 46.19	\$ 69.29	40	5		\$ 2,194.03
							\$ 17,165.30

Resource: Equipment	Monthly Rate (M)	Weekly Rate (W)	Daily Rate (D)	Hourly Rate (H)	Operating Cost Per Hour	FHWA Rate =SUM(B/176)+F	Hours This Analysis	Total Equipment Cost Non-Operated =SUM(H*I)		Total Equipment =J
BACKHOE: CAT 420 OR SIMILAR	\$ 6,930.00	\$ 1,940.00	\$ 485.00	\$ 73.00	\$ 35.97	\$ 75.35	45.0	\$ 3,390.53		\$ 3,390.53
SKID STEER: CAT 289 OR SIMILAR	\$ 7,130.00	\$ 1,995.00	\$ 500.00	\$ 75.00	\$ 29.06	\$ 69.57	45.0	\$ 3,130.71		\$ 3,130.71
ON-HIGHWAY: LIGHT DUTY 4X4 TRUCK - DIESEL	\$ 2,755.00	\$ 770.00	\$ 195.00	\$ 29.00	\$ 26.82	\$ 42.47	45.0	\$ 1,911.30		\$ 1,911.30
								\$ 8,432.54		\$ 8,432.54

CREW TYPE: JOC SUPPORT CREW

ITEMIZATION	TOTALS
Direct Cost of Labor:	\$ 17,165.30
Direct Cost of Equipment:	\$ 8,432.54
Subtotal Cost Per Week:	\$ 25,597.84
Days Per Week:	5
TOTAL PER SHIFT:	\$ 5,119.57

OBRF ION EXCHANGE OUTLET WASTE IMPROVEMENTS PROJECT
PROJECT NO. WW2001.404
CREW SHEET

September 21, 2023

Resource: Hourly Labor	Personne Quantity	Regular Time		Over Time		Regular Time		Over Time		Totals =SUM(F*D) +SUM(G*E)*C
		=SUM(D:Q)		=SUM(D:Q)*1.5						
		Total	Costs	Costs	Hours	Hours	Hours	Hours		
SALARY: PROJECT MANAGER	1.00	\$ 125.64	\$ 188.46	24	0					\$ 3,015.36
SALARY: PROJECT ENGINEER	1.00	\$ 83.15	\$ 124.73	40	0					\$ 3,326.00
										\$ 6,341.36

Resource: Equipment	Monthly Rate (M)	Weekly Rate (W)	Daily Rate (D)	Hourly Rate (H)	Operating Cost Per Hour	FHWA Rate =SUM(B/176)+F	Hours This Analysis	Total Equipment Cost Non-Operated =SUM(H*I)			Total Equipment =J
TRUCK: ON-HIGHWAY LIGHT DUTY 4X4 GAS	\$ 915.00	\$ 255.00	\$ 64.00	\$ 10.00	\$ 36.22	\$ 41.42	24.0	\$ 994.05			\$ 994.05
TRUCK: ON-HIGHWAY LIGHT DUTY 4X4 GAS	\$ 915.00	\$ 255.00	\$ 64.00	\$ 10.00	\$ 36.22	\$ 41.42	40.0	\$ 1,656.75			\$ 1,656.75
								\$ 2,650.81			\$ 2,650.81

CREW TYPE: JOC PROJECT MANAGEMENT CREW

ITEMIZATION	TOTALS
Direct Cost of Labor:	\$ 6,341.36
Direct Cost of Equipment:	\$ 2,650.81
Subtotal Cost Per Week:	\$ 8,992.17
Days Per Week:	5
TOTAL PER SHIFT:	\$ 1,798.43



FERGUSON WATERWORKS (3083)
1324 S 3RD ST SUITE 140
PHOENIX, AZ 85004-2725

Phone: 602-495-8420
Fax: 602-262-4276

Deliver To:

From: Allyson Baptista

Comments:

18:02:27 SEP 20 2023

Page 1 of 2

FERGUSON WATERWORKS #3083

Price Quotation

Phone: 602-495-8420

Fax: 602-262-4276

Bid No: B411040
Bid Date: 09/19/23
Quoted By: ROC

Cust Phone: 602-470-0001
Terms: CASH ON DEMAND

Customer: GARNEY COMPANIES INC BID AC
4435 E HOLMES
MESA, AZ 85206

Ship To: GARNEY COMPANIES INC BID AC
4435 E HOLMES
MESA, AZ 85206

Cust PO#: OCOTILLIO HCL STORAG

Job Name: HCL STORAGE

Item	Description	Quantity	Net Price	UM	Total
** PRICE VALID 7 DAYS **					

PEI11AU40	6X40 IPS DR11 HDPE PIPE	160	1126.340	C	1802.14
PEINPBFUG	6X1 IPS FAB NON-PRES BLIND FLG	1	107.250	EA	107.25
PEI11E47RCU	6 IPS DR9-17 EF 4.7R COUP	1	86.590	EA	86.59
PEI11B9U	6 IPS PC200 DR11 90	12	60.700	EA	728.40
** STOCK IN WASHUGAL **					
ADDITIONAL MATERIAL					

PEI11BTU	6 IPS PC200 DR11 TEE	1	78.490	EA	78.49
PEI11FLAU	6 IPS PC200 DR11 FLG ADPT	1	44.810	EA	44.81
IBUPSDR1106B	6 SDR11 200 PSI DI BU RNG	1	18.720	EA	18.72
ATSGAU	6 FF 1/8 TORUSEAL NSF61 FLG GSKT	1	16.180	EA	16.18
FBSS16SU	6 SS 316 FLG BLT SET	1	41.190	EA	41.19
QUOTING HDPEXHDPE (DR11) BOLT					
LENGTHS 4 1/2" IN LENGTH					

Net Total: \$2923.77
Tax: \$251.43
Freight: \$0.00
Total: \$3175.20



HOW ARE WE DOING? WE WANT YOUR FEEDBACK!

Scan the QR code or use the link below to
complete a survey about your bids:

<https://survey.medallia.com/?bidsorder&fc=3083&on=24061>

Fax: 602-262-4276

18:02:27 SEP 20 2023

Reference No: B411040

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

CONTRACTOR CUSTOMERS: IF YOU HAVE DBE/MBE/WBE/VBE/SDVBE/SBE GOOD FAITH EFFORTS DIVERSITY GOALS/ REQUIREMENTS ON A FEDERAL, STATE, LOCAL GOVERNMENT, PRIVATE SECTOR PROJECT, PLEASE CONTACT YOUR BRANCH SALES REPRESENTATIVE IMMEDIATELY PRIOR TO RECEIVING A QUOTE/ORDER.

Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at <https://www.ferguson.com/content/website-info/terms-of-sale>

Govt Buyers: All items are open market unless noted otherwise.

LEAD LAW WARNING: It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with *NP in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.

Buyer shall accept delivery of products within 60 days of Seller receiving the products at Seller's warehouse. If Buyer causes or requests a delay in delivery of the products, Buyer may be subject to storage fees and additional costs caused by such delay. Seller reserves the right to requote the products and reschedule the delivery date, subject to manufacturer's lead times and price increases, if Buyer is unable to accept delivery within 60 days.

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<https://survey.medallia.com/?bidsorder&fc=3083&on=24061>



PLANT LOCATION
2615 SAN JUAN BLVD FARMINGTON, NM 87401
PHONE (505) 327-4947

MAILING ADDRESS
P.O. BOX 2014 FARMINGTON, NM 87499
FAX (505) 326-0305

September 21, 2023

Garney Construction

Attention: Lynne Stocker

Re: City of Chandler – OBRF Ion Exchange Outlet Waste Improvements Project

We hereby submit our proposal for the above referenced project. Our figures include the supervision, labor, equipment, and materials to complete the following scope of work.

Basic Scope & Pricing Breakdown

Field Pipe (new piping that is installed and runs between the tanks)

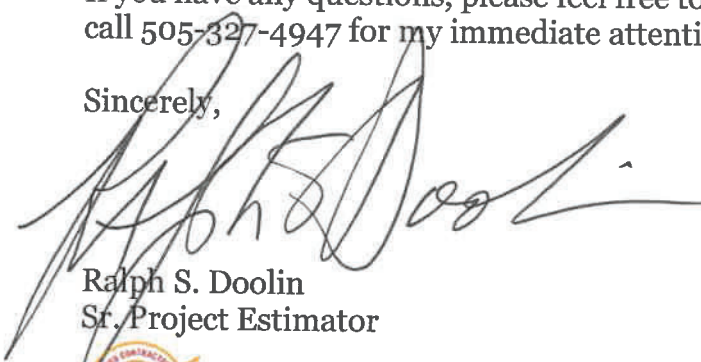
- Painting of HDPE Pipe \$14,325.00
 - Hand prep, solvent clean and application of paint system for “Outdoor atmospheric” per section 09 96 00

Notes:

1. No taxes or bonds have been added to our pricing above; our bond rate is 1.2% and any applicable taxes will be added to the billing invoice.
2. Garney to provide:
 - Sanitary facilities
 - Clean water supply
 - Traffic Control if required
3. Exclusions from this bid:
 - Underground pipe coating
 - Below grade concrete coatings in contact with soil
 - Painting galvanized /Aluminum metal
 - Coating aluminum in contact with concrete
 - Electrical cabinet units
 - Touch up of factory finished equipment
 - No pipe labels
 - No tank labels
 - No pipe support painting
4. We have not included pricing for 3rd party NACE inspection services in the above figures.
5. We have received no addendums to date.

If you have any questions, please feel free to E-mail me at ralphd@rileyindustrial.com or call 505-327-4947 for my immediate attention.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ralph S. Doolin', written over a light blue horizontal line.

Ralph S. Doolin
Sr. Project Estimator



COATING CODE	GENERIC DESCRIPTION	MANUFACTURER	
		TNEMEC	SHERWIN WILLIAMS
UHSE	Ultra-High Solids Epoxy (NSF 61)	Series 22 Epoxoline	Duraplate UHS
VEP	Vinyl Ester Primer	Series 251SC Chembloc	Corobond Vinyl Ester Primer
VESC	Vinyl Ester Secondary Containment	Series 252SC Chembloc	Cor Cote VEN FF
ZRU	Zinc-Rich Urethane	Series 94-H ₂ O Hydro-Zinc	Corothane 1 Galvapak

2.3 COATING SYSTEMS:

- A. The following tables indicate coating systems by material and environment, unless a specific application is indicated.

Environment/ Application	Surface Preparation	Prime Coat	Intermediate Coats	Finish Coat
Galvanized Steel				
Interior atmospheric	SSPC-SP 16	4.0 to 6.0 MIL STEP		2.0 to 3.0 MIL MPE
Immersion - non NSF	SSPC-SP 16	4.0 to 6.0 MIL STEP	2.0 to 3.0 MIL MPE	2.0 to 3.0 MIL MPE
Bar Joists (corrosive environment)	SSPC-SP 16	2.5 to 3.5 MIL MIO		3.0 to 4.0 MIL MPE
Metal Deck (corrosive environment)	SSPC-SP 16	4.0 to 6.0 MIL STEP		2.0 to 3.0 MIL MPE
Outdoor atmospheric	SSPC-SP 16	4.0 to 6.0 MIL STEP		2.5 to 3.5 MIL HU
Field cut pipe threads	SSPC-SP 3	4.0 to 6.0 MIL STEP	Coat per exposure above	Coat per exposure above
Non Ferrous Metals, including piping				
Dissimilar Materials Protection	SSPC-SP 2	4.5 to 5.5 MIL MPE		
Interior atmospheric	SSPC-SP 2	3.0 to 4.0 MIL MPE		3.0 to 4.0 MIL MPE
Immersion - non NSF	SSPC-SP 16	3.0 to 4.0 MIL MPE		5.0 to 6.0 MIL MPE
Outdoor atmospheric	SSPC-SP 2	4.0 to 6.0 MIL MPE		2.5 to 3.5 MIL HU



City of Chandler
Project No. WW2001.403
Ocotillo Brine Reduction Facility
Preliminary Schedule

Garney Project Number: TBD
Schedule Start Date: 10/2/2023

ACTIVITY DESCRIPTION	SUBCONTRACTOR / SUPPLIER	WEEKS	START	END	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	
					2-Oct-23	9-Oct-23	16-Oct-23	23-Oct-23	30-Oct-23	6-Nov-23	13-Nov-23	20-Nov-23	27-Nov-23	4-Dec-23	11-Dec-23	18-Dec-23	25-Dec-23	1-Jan-24	8-Jan-24	15-Jan-24	22-Jan-24	29-Jan-24	5-Feb-24	12-Feb-24	19-Feb-24	26-Feb-24	4-Mar-24	11-Mar-24	18-Mar-24	25-Mar-24	1-Apr-24	8-Apr-24	15-Apr-24	22-Apr-24	29-Apr-24	6-May-24	13-May-24	
Notice To Proceed	City of Chandler	1	11/6/23	11/6/23						SF																												
Material Submittals	Material Suppliers	6	11/6/23	12/25/23						S							F																					
Material Lead Times	Material Suppliers	14	12/25/23	2/14/24													S								F													
Preconstruction MOPO Coordination	Material Suppliers	14	2/14/24	2/19/24													S																					
Pipeline Construction	Garney & Ludvik	3	2/26/24	4/1/24																												F						
General Cleanup Items and Closeout	Garney	11	4/1/24	4/22/24																											S				F			
S - Start SU - Suspend Activity RE - Resume Activity F - Finish MTG - Meeting H - Holiday FR - Form / Reinforce ST - Strip P - Pour PP - Point / Patch INSP - Inspection TEST - Pressure Testing																																						

03/20/2023 10:10 AM

OBRF ION EXCHANGE OUTLET WASTE IMPROVEMENTS PROJECT



WW2001.204
VOLUME 2
JUNE 2023

I HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION AS SHOWN
HEREON WAS MADE UNDER MY SUPERVISION, OR AS NOTED, AND
IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR DATE

REGISTRATION NO. _____

FIRM NAME _____

I HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION AS SHOWN
HEREON SATISFIES THE INTENT OF THE DESIGN.

REGISTERED LAND SURVEYOR DATE

REGISTRATION NO. _____

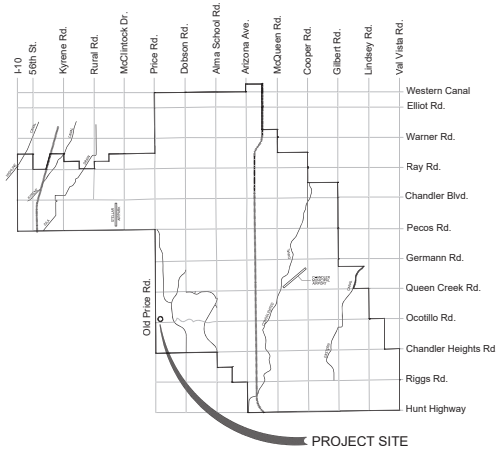
FIRM NAME _____

NOTE:

THIS SITE PLAN WILL NOT BE APPROVED, NOR
WILL BE CERTIFICATE OF OCCUPANCY BE ISSUED
UNTIL A RECLAIMED WATER USE AGREEMENT
IS PROVIDED BY THE DEVELOPER AND
APPROVED BY THE CITY.

F.E.M.A. FIRM MAP
PANEL 2645F

ALL FIRE LINE THRUST BLOCK
SHALL COMPLY WITH NFPA 24



VICINITY MAP
NOT SCALE



PRELIMINARY DESIGN
(NOT FOR CONSTRUCTION)

APPROVED FOR COMPLIANCE WITH CITY CODE:

CITY ENGINEER DATE

DEVELOPMENT SERVICES ENGINEER DATE

GRADE CERTIFICATION:

THE FOLLOWING IS A CERTIFICATION THAT THIS GRADING PLAN IS IN
COMPLIANCE WITH THE GRADE REQUIREMENTS OF THE SOIL REPORT
PREPARED BY:

DATE

REGISTERED CIVIL ENGINEER DATE

FINISH GRADE CERTIFICATION:

THE FOLLOWING IS A CERTIFICATION THAT THE FINISH GRADES SHOWN OR AS-BUILT
ON THIS GRADING PLAN ARE IN COMPLIANCE WITH THE SOIL REPORT
PREPARED BY:

DATE

REGISTERED CIVIL ENGINEER DATE
(OR REGISTERED LAND SURVEYOR)

ADDRESS:
7474 SOUTH OLD PRICE ROAD
CHANDLER, AZ

C.O.C. LOG NO. CIVXX-XXXX



4600 E. WASHINGTON STREET, SUITE 500
PHOENIX, ARIZONA 85034
PHONE: (602) 263-9500
FAX: (602) 265-1422

DRAWING INDEX (VOLUME 2 OF 2)

SHEET NO. DRAWING NO. DESCRIPTION

GENERAL		
1	00	G 000 COVER SHEET
2	00	G 001 DRAWING INDEX
3	00	G 002 DRAWING SYMBOLS & FILE NAMING CONVENTION
4	00	G 003 SYMBOLS - SHEET 1
5	00	G 004 SYMBOLS - SHEET 2
6	00	G 005 ASSOCIATIONS
7	00	G 006 PIPE SCHEDULE 1
8	00	G 007 PROCESS FLOW DIAGRAM
CIVIL		
9	00	C 001 CONSTRUCTION NOTES 1
10	00	C 002 CONSTRUCTION NOTES 2
11	00	C 003 CIVIL NOTES LEGEND AND SYMBOLS
12	00	C 004 OVERALL LAYOUT AND SURVEY CONTROL
13	11	C 004 YARD PAVING IV
14	12	C 001 RORR PROFILE AND SECTION
MECHANICAL		
15	3J	M 001 SOFTENING SYSTEM AND SOLIDS STORAGE - ION EXCHANGE PLAN & ISOMETRIC
16	3J	M 001A SOFTENING SYSTEM AND SOLIDS STORAGE - ION EXCHANGE DETAILS
TYPICAL		
17	90	Tc 001 CIVIL TYPICAL DETAILS

PRELIMINARY
DESIGN
(NOT FOR
CONSTRUCTION)



OBRF ION EXCHANGE OUTLET WASTE IMPROVEMENTS PROJECT
CITY OF CHANDLER, AZ
GENERAL
DRAWING INDEX

VERIFY SCALES
0 1"
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

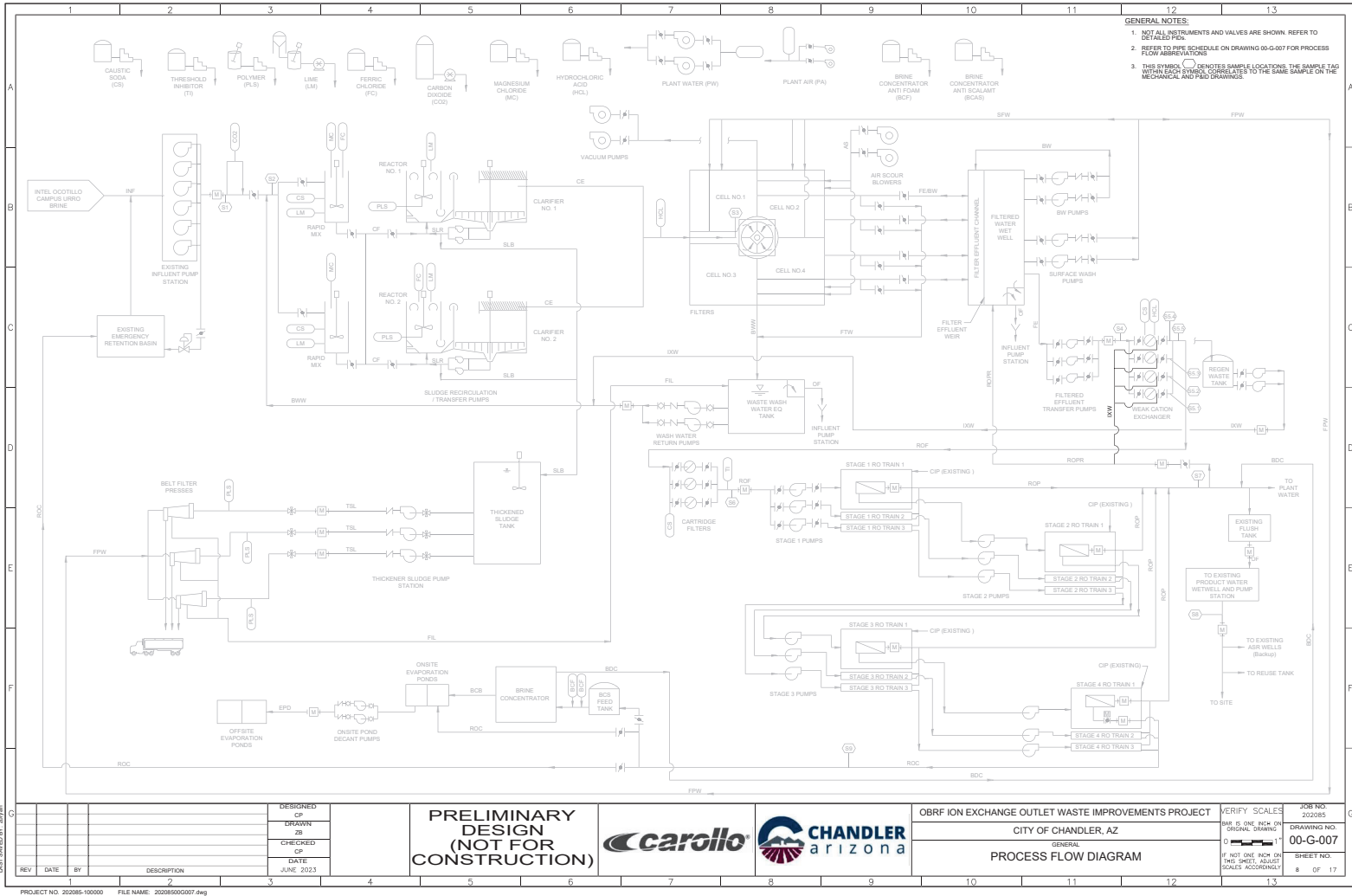
JOB NO.
202085
DRAWING NO.
00-G-001
SHEET NO.
2 OF 17

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A		ANGLE VALVE			BACKPRESSURE REG. EXTERNAL TAP VALVE			HOSE PUMP			CENTRIFUGAL VERTICAL		PARSHALL			BASKET STRAINER			FILTER			FILTER SEPARATOR			FLAME ARRESTER			FLAME ARRESTER w/THERMALLY OPERATED VALVE																																																																																										
		BALL VALVE			PRESSURE REDUCING EXTERNAL PRESSURE TAP VALVE			RELIEF VALVE			HORIZONTAL OR SPLIT-CASE CENTRIFUGAL			LEOPOLD-LAGOO			DIAPHRAGM SEAL			EDUCTOR/EJECTOR			IN-LINE STATIC MIXER			ORIFICE RESTRICTION																																																																																												
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		GATE VALVE			CONTROL VALVE			AIR GAP			VERTICAL TURBINE		VERTICAL CHOPPER			TRAPEZOIDAL			CORP STOP ASSEMBLY			MAGNETIC FLOW METER			ROTOMETER			STRAINER WITH BLOW OFF		VAPOR HEATER		VAPORIZER		PIPE MATERIAL TRANSITION		FLOW ARROW																																																																																		
B		GLOBE VALVE		PIPING		AIR GAP		VERTICAL TURBINE		VERTICAL CHOPPER		TRAPEZOIDAL		CORP STOP ASSEMBLY		MAGNETIC FLOW METER		ROTOMETER		STRAINER WITH BLOW OFF		VAPOR HEATER		VAPORIZER		PIPE MATERIAL TRANSITION		FLOW ARROW																																																																																										
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		MOTOR OPERATED VALVE		PIPING		AIR GAP		VERTICAL TURBINE		VERTICAL CHOPPER		TRAPEZOIDAL		CORP STOP ASSEMBLY		MAGNETIC FLOW METER		ROTOMETER		STRAINER WITH BLOW OFF		VAPOR HEATER		VAPORIZER		PIPE MATERIAL TRANSITION		FLOW ARROW																																																																																										
		SOLENOID VALVE		PIPING		AIR GAP		VERTICAL TURBINE		VERTICAL CHOPPER		TRAPEZOIDAL		CORP STOP ASSEMBLY		MAGNETIC FLOW METER		ROTOMETER		STRAINER WITH BLOW OFF		VAPOR HEATER		VAPORIZER		PIPE MATERIAL TRANSITION		FLOW ARROW																																																																																										
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		PUMP DISCHARGE		PIPING		AIR GAP		VERTICAL TURBINE		VERTICAL CHOPPER		TRAPEZOIDAL		CORP STOP ASSEMBLY		MAGNETIC FLOW METER		ROTOMETER		STRAINER WITH BLOW OFF		VAPOR HEATER		VAPORIZER		PIPE MATERIAL TRANSITION		FLOW ARROW																																																																																										
		BUTTERFLY BURIED VALVE BOX		PIPING		AIR GAP		VERTICAL TURBINE		VERTICAL CHOPPER		TRAPEZOIDAL		CORP STOP ASSEMBLY		MAGNETIC FLOW METER		ROTOMETER		STRAINER WITH BLOW OFF		VAPOR HEATER		VAPORIZER		PIPE MATERIAL TRANSITION		FLOW ARROW																																																																																										
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F	CHECK VALVES		GATES		PIPING		AIR GAP		VERTICAL TURBINE		VERTICAL CHOPPER		TRAPEZOIDAL		CORP STOP ASSEMBLY		MAGNETIC FLOW METER		ROTOMETER		STRAINER WITH BLOW OFF		VAPOR HEATER		VAPORIZER		PIPE MATERIAL TRANSITION		FLOW ARROW																																																																																									
		BACK FLOW PREVENTOR		GATES		PIPING		AIR GAP		VERTICAL TURBINE		VERTICAL CHOPPER		TRAPEZOIDAL		CORP STOP ASSEMBLY		MAGNETIC FLOW METER		ROTOMETER		STRAINER WITH BLOW OFF		VAPOR HEATER		VAPORIZER		PIPE MATERIAL TRANSITION		FLOW ARROW																																																																																								
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G		DIAPHRAGM CHECK VALVE		GATES		PIPING		AIR GAP		VERTICAL TURBINE		VERTICAL CHOPPER		TRAPEZOIDAL		CORP STOP ASSEMBLY		MAGNETIC FLOW METER		ROTOMETER		STRAINER WITH BLOW OFF		VAPOR HEATER		VAPORIZER		PIPE MATERIAL TRANSITION		FLOW ARROW																																																																																								
		DOUBLE FLAP		GATES		PIPING		AIR GAP		VERTICAL TURBINE		VERTICAL CHOPPER		TRAPEZOIDAL		CORP STOP ASSEMBLY		MAGNETIC FLOW METER		ROTOMETER		STRAINER WITH BLOW OFF		VAPOR HEATER		VAPORIZER		PIPE MATERIAL TRANSITION		FLOW ARROW																																																																																								
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		SLANTING DISC		GATES		PIPING		AIR GAP		VERTICAL TURBINE		VERTICAL CHOPPER		TRAPEZOIDAL		CORP STOP ASSEMBLY		MAGNETIC FLOW METER		ROTOMETER		STRAINER WITH BLOW OFF		VAPOR HEATER		VAPORIZER		PIPE MATERIAL TRANSITION		FLOW ARROW																																																																																								
DESIGNED BY		CHECKED BY		DATE		PROJECT NO.		FILE NAME		PRELIMINARY DESIGN (NOT FOR CONSTRUCTION)		carollo		CHANDLER arizona		OBRF ION EXCHANGE OUTLET WASTE IMPROVEMENTS PROJECT		CITY OF CHANDLER, AZ		GENERAL SYMBOLS - SHEET 1		VERIFY SCALES		JOB NO.		DRAWING NO.		SHEET NO.																																																																																										
REV		DATE		BY		DESCRIPTION		3		4		5		6		7		8		9		10		11		12		13																																																																																										
PROJECT NO. 202085-10000		FILE NAME: 202085000003.dwg		3		4		5		6		7		8		9		10		11		12		13		4		OF 17																																																																																										

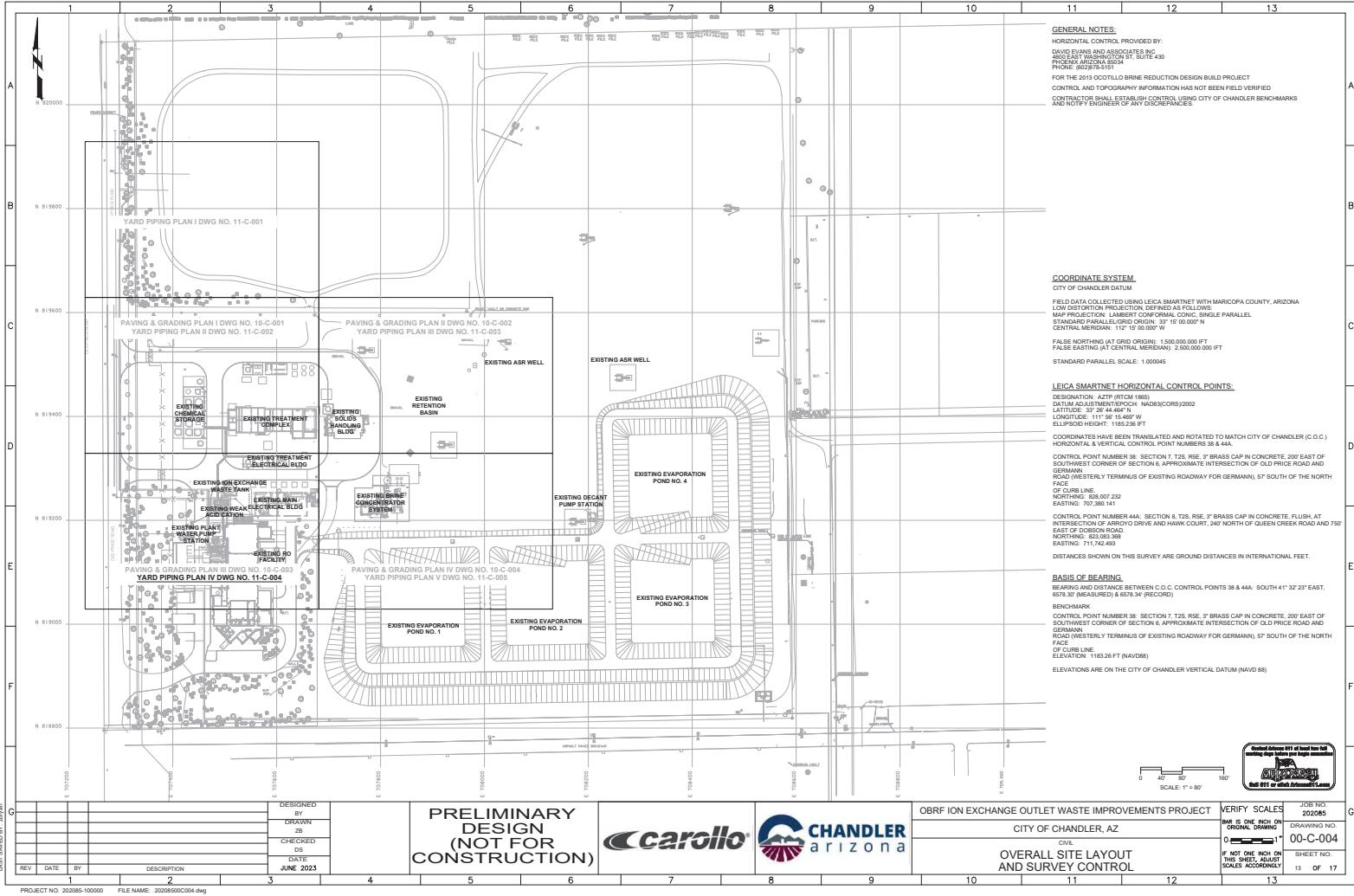
1		2		3		4		5		6		7		8		9		10		11		12		13																							
CIVIL						CIVIL						STRUCTURAL						PIPE JOINTS AND COUPLER																													
A	NEW STRUCTURES					YARD HYDRANT					NEW STRUCTURES					DOUBLE LINE					SINGLE LINE					DOUBLE LINE					SINGLE LINE																
	EXISTING STRUCTURES					HOSE BIBB					EXISTING STRUCTURES					WELDED JOINT										CHECK VALVE																					
	NEW PIPING (TRIPLE LINES)										HIDDEN LINE					GROOVED END JOINT										PINCH VALVE																					
	EXISTING PIPING (TRIPLE LINES)										EXISTING HIDDEN LINE					FLANGED JOINT										BALL CHECK VALVE																					
	EXISTING PIPING (SINGLE LINE)										NEW CENTERLINE					HUB & SPIGOT JOINT (RUBBER GASKET)										KNIFE GATE VALVE																					
	HIDDEN LINE										EXISTING CENTERLINE					MECHANICAL JOINT										DUAL CHECK VALVE																					
	HIDDEN LINE (EXISTING)										GUARDRAIL / HANDRAIL					PUSH-ON JOINT																															
	CENTER, MONUMENT, OR SURVEY LINE										EXISTING TO BE REMOVED					ADAPTER RISE																															
	GUARDRAIL										STRUCTURAL OPENING					GROOVED END ADAPTER FLANGE																															
	EXISTING CONTOURS										REINFORCING BARS					FLANGED COUPLING ADAPTER																															
B	NEW CONTOURS										SLOPE LINE					FLANGED COUPLING ADAPTER WITH THRUST TIES																															
	NEW FENCE										FENCE					FLEXIBLE COUPLING																															
	EXISTING FENCE															FLEXIBLE COUPLING WITH THRUST TIES																															
	REMOVE (CROSS HATCHING, FENCE SHOWN AS EXAMPLE)															METAL BELLOWS EXP JOINT																															
	POWER POLE & LINE															ELASTOMER BELLOWS EXP JOINT																															
	PROPERTY LINE OR RIGHT OF WAY															EXPANSION COMPENSATOR																															
	SLOPE															ELBOW UP																															
	RAILROAD															ELBOW DOWN																															
	CITY LIMITS															TEE UP																															
	FUTURE ROAD															TEE DOWN																															
C	EXISTING ROAD															LATERAL UP																															
	CURB & GUTTER															LATERAL DOWN																															
	MULCH FILTER TUBE															CONCENTRIC REDUCER																															
	SILT FENCING															ECCENTRIC REDUCER																															
	LIMITS OF CONSTRUCTION															UNION																															
	PROPERTY BOUNDARY															CAP																															
	EXISTING EASEMENT															ANCHOR																															
	PLANT GRID															GATE VALVE																															
	TREE TO BE REMOVED															BUTTERFLY VALVE																															
	TREE TO REMAIN															BALL VALVE																															
D	RIMROCK															3-WAY BALL VALVE																															
	RIMROCK BUFFER BOUNDARY															FLG & TRUE UNION																															
	GROUNDING ROD															DIAPHRAGM VALVE																															
	CEF (CRITICAL ENVIRONMENTAL FEATURE)															PLUG VALVE																															
	CEF & RIMROCK BUFFER ZONE															MECHANICAL JOINT																															
	BENCHMARK / HORIZONTAL CONTROL POINT															PLUG VALVE																															
	VERTICAL CONTROL POINT															LUBRICATED PLUG VALVE																															
	BORING LOCATION AND NUMBER																																														
	NEW LID																																														
	FIRE HYDRANT																																														
E	CLEANOUT																																														
DESIGNED CP						PRELIMINARY DESIGN (NOT FOR CONSTRUCTION)						carollo						CHANDLER arizona						OBRF ION EXCHANGE OUTLET WASTE IMPROVEMENTS PROJECT						VERIFY SCALES						JOB NO. 202085											
DRAWN ZB																								CITY OF CHANDLER, AZ						DRAWING NO.						00-G-004											
CHECKED CP																														GENERAL						SHEET NO.											
DATE JUNE 2023																														SYMBOLS - SHEET 2						IF NOT ONE NEW OR TWO SHEET, ADJUST SCALES ACCORDINGLY						5 OF 17					
PROJECT NO. 202085-100000						FILE NAME: 20208500G004.dwg																																									

[illegible]

[illegible]



[illegible]



GENERAL NOTES:
HORIZONTAL CONTROL PROVIDED BY:
DAVID EVANS AND ASSOCIATES INC.
1001 EAST WASHINGTON ST. SUITE 430
PHOENIX, ARIZONA 85016
PHONE: 602.518.5157
FOR THE 2013 OCTOTULLO BRINE REDUCTION DESIGN BUILD PROJECT
CONTROL AND TOPOGRAPHY INFORMATION HAS NOT BEEN FIELD VERIFIED
CONTRACTOR SHALL ESTABLISH CONTROL USING CITY OF CHANDLER BENCHMARKS
AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

COORDINATE SYSTEM:
CITY OF CHANDLER DATUM
FIELD DATA COLLECTED USING LEICA SMARTNET WITH MARICOPA COUNTY, ARIZONA
LOW DISTORTION PROJECTION, DEFINED AS FOLLOWS:
MAP PROJECTION: LAMBERT CONFORMAL CONIC, SINGLE PARALLEL
STANDARD PARALLEL/GRID ORIGIN: 33° 15' 00.000" N
CENTRAL MERIDIAN: 112° 15' 00.000" W
FALSE NORTHING (AT GRID ORIGIN): 1,500,000.000 FT
FALSE EASTING (AT CENTRAL MERIDIAN): 2,500,000.000 FT
STANDARD PARALLEL SCALE: 1.000045

LEICA SMARTNET HORIZONTAL CONTROL POINTS:
DESIGNATION: AZTP (RTCM 1865)
DATUM ADJUSTMENT EPOCH: NAD83(CORS)2002
LATITUDE: 33° 26' 41.464" N
LONGITUDE: 111° 58' 18.499" W
ELLIPSOID HEIGHT: 1185.236 FT
COORDINATES HAVE BEEN TRANSLATED AND ROTATED TO MATCH CITY OF CHANDLER (C.O.C.)
HORIZONTAL & VERTICAL CONTROL POINT NUMBERS 38 & 44A.
CONTROL POINT NUMBER 38: SECTION 7, T2S, R5E, 3" BRASS CAP IN CONCRETE, 200' EAST OF
SOUTHWEST CORNER OF SECTION 6, APPROXIMATE INTERSECTION OF OLD PRICE ROAD AND
GERMANN ROAD (WESTERLY TERMINUS OF EXISTING ROADWAY FOR GERMANN), 57' SOUTH OF THE NORTH
FACE OF CURB LINE.
NORTHING: 828,907.232
EASTING: 707,380.141
CONTROL POINT NUMBER 44A: SECTION 8, T2S, R5E, 3" BRASS CAP IN CONCRETE, FLUSH AT
INTERSECTION OF WINOYD DRIVE AND HAWK COURT, 2ND NORTH OF QUEEN CREEK ROAD AND 780'
EAST OF DOBSON ROAD.
NORTHING: 821,681.368
EASTING: 711,742.493
DISTANCES SHOWN ON THIS SURVEY ARE GROUND DISTANCES IN INTERNATIONAL FEET.

BASIS OF BEARING:
BEARING AND DISTANCE BETWEEN C.O.C. CONTROL POINTS 38 & 44A: SOUTH 41° 32' 23" EAST,
820.37' (MEASURED) & 820.34' (RECORD)
BENCHMARK:
CONTROL POINT NUMBER 38: SECTION 7, T2S, R5E, 3" BRASS CAP IN CONCRETE, 200' EAST OF
SOUTHWEST CORNER OF SECTION 6, APPROXIMATE INTERSECTION OF OLD PRICE ROAD AND
GERMANN ROAD (WESTERLY TERMINUS OF EXISTING ROADWAY FOR GERMANN), 57' SOUTH OF THE NORTH
FACE OF CURB LINE.
ELEVATION: 1183.26 FT (NAVD83)
ELEVATIONS ARE ON THE CITY OF CHANDLER VERTICAL DATUM (NAVD 83)

DESIGNED BY	
DRAWN BY	
CHECKED BY	
DATE	JUNE 2023
REV	
DATE	
BY	
DESCRIPTION	

**PRELIMINARY
DESIGN
(NOT FOR
CONSTRUCTION)**



OBRF ION EXCHANGE OUTLET WASTE IMPROVEMENTS PROJECT
CITY OF CHANDLER, AZ
CIVIL
OVERALL SITE LAYOUT
AND SURVEY CONTROL

VERIFY SCALES	JOB NO. 202085
1" = 80'	DRAWING NO. 00-C-004
0" = 1"	SHEET NO. 13 OF 17

