CITY OF CHANDLER
CHANGE ORDER NO. 1
DATE 6/9/2021

Change Order not valid until signed by both the City and the Contractor. Contractor's signature indicates agreement herewith, including any adjustments in the Contract Price or Contract Time.

Project Name: **Water Reclamation Facility Improvements - GMP 2**
Project No.: **WW1901.401**
User Dept.: Public Works & Utilities NTP Date: 6/1/2021

TO: **McCarthy Building Companies, Inc.** (CONTRACTOR) **6225 N. 24th St., Ste. 200 Phoenix, AZ 85016** (Address)

Contractor must make the following changes to this contract: (Detail scope change (Exh. A) / cost breakdown (Exh. B), if needed)

This Change Order No. 1 is for replacement of sand media filters with updated cloth media technologies, rehabilitation of secondary clarifiers, construction of a reclaimed water reservoir, replacement of large diameter blower piping, and related instrumentation and electrical upgrades. See Exhibit A

OWNER NAME & DATE APPROVAL: **John Pinkston 6/2/2021**

Changes result in the following revised contract amount and time:

Original contract amount:	**$5,842,737**
Current contract amount, prior to this Change Order: (incl. previous Change Orders)	**$5,842,737**
Net change resulting from this Change Order: (if over $50,000 from contract amount previously approved by Council, Council approval is required)	**$38,552,248**
Revised contract amount, including this Change Order:	**$44,394,985**
Last contract amount approved by Council:	**$5,842,737**
Change Order % of last contract amount approved by Council: (if over 10% of previous contract amount approved by Council, Council approval is required)	**660%**

Contract time or completion date prior to this Change Order: (incl. previous Change Orders) _____ Days or 2/6/22 Date

Net change resulting from this Change Order: _____ Days

Revised contract time OR completion date: _____ Days or 8/25/23 Date

SIGNATURE PAGE TO FOLLOW

THE ABOVE IS AGREED TO BY:

McCarthy Building Companies, Inc.
CONTRACTOR

Signature

06/28/2021
Date

JBrunsman@McCarthy.com
Signer Email Address

Or (not both, delete appropriately)

For Change Orders of $50,000 or more, or 10% or more of last contract amount approved by Council:

MAYOR

Date

Approved by Council on:

Date

Recommended By:

Approved as to Form (initials):

Andrew Goh, CIP City Engineer

Date

City Attorney by:

Attest: City Clerk:

Date

E-copy: Owner / Project Mgr. / Orig.- City Clerk

Exhibit A

City of Chandler Water Reclamation Facility Improvements Project

Project No. WW1901.401

GMP #2 Proposal

May 4, 2021 Rev June 21, 2021

City of Chandler Water Reclamation Facility Improvements Project

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City of Chandler Water Reclamation Facility Improvements Project
PROJECT DESCRIPTION

Project Description

The project consists of improvements to the Airport Water Reclamation Facility (AWRF) and the Ocotillo Water Reclamation Facility (OWRF). This GMP includes the work for the project as follows:

1. The improvement items for Airport WRF are:
    a. Removal and replacement of Blower Piping between the Blower Building and the Aeration Basins.
    b. Modifications of Blower Piping and exhaust fans at the Blower Building.
    c. Replacement of the fine bubble diffusers and diffuser piping for 2 Aeration Basins.
    d. Retrofit East Mono-Media Filters to Disc Filters.
    e. Addition of a Maintenance Building.
    f. Replacement of the 480V Duct Bank between MCC-BL2 and MCC-AER.
    g. Upgrades to Distributed Control System to add the Disc Filters to the existing Foxboro Controls.

2. The improvement items for Ocotillo WRF are:
    a. Structural modifications of the Aeration Basins, including channel widening and cutting out of foam ports.
    b. Structural modifications of the Anoxic Basins, including channel widening and extension, replacement od slide gates, addition of slide gates and stop logs, replacement of the IMLR flow meter, replacement of all mixers, addition of one IMLR pump.
    c. Rehabilitation of the Clarifier Splitter Box, including replacement of gates, mud valves, and removal of mixers.
    d. Rehabilitation of the RAS/WAS Pumpstation, including process mechanical piping, pumps, VFD and floor coatings.
    e. Mechanism replacement for Secondary Clarifiers 1 and 2.
    f. Replacement of Secondary Clarifier No. 1 drain plug valve.
    g. Replacement of the RAS pumps and VFDs, flow meter, and RAS piping.
    h. Replacement of the WAS pumps, flow meter and WAS piping.
    i. Demolition of existing Traveling Bridge Filters No. 1 and No. 2 and install four Disc Filters.
    j. Addition of a 1.5 MG Reclaimed Water Reservoir with ancillary piping and valving.
    k. Replacement of the Non-Potable Water (NPW) piping and nozzles on the Aeration Basins with new connection to the existing NPW loop.
    l. Modification to the cake silo actuated gate.
    m. Replacement of the Blower Building Motor Control Centers.
    n. Upgrades to Distributed Control System to add the IMLR pumps, Disc Filters, Reservoir to the existing SCADA Controls.

The cost to procure of the Stainless-Steel Gates and Disc Filters for both AWRF and OWRF have been included in GMP 1 and have not been included in this GMP. The Stainless steel gates will be released for fabrication off of the For Construction set of documents.

The following alternate pricing has not been included as part of the total GMP cost:

1. Alternate 1: Purchase and installation of disc filter 6 at AWRF (Concrete work for filter 6 is included in WC 03A)
2. Alternate 2: Clarifier 3 removal and replacement at OWRF
3. Alternate 3: Two sludge holding tanks with new blower building at OWRF
4. Alternate 4: Removal and replacement of 2 aeration basin diffusers

PROJECT COST SUMMARY

5/4/2021 Rev 6/21/2021

Project: **Chandler Water Reclamation Facility Improvements Project**
GMP #2 Proposal
Client: **City of Chandler**
Location: **Chandler, AZ**
City Project # **WW1901.401**

		Percentage	Amount
A. Direct Costs			
A1	Direct Cost		$29,103,022
A2	Construction Contingency	2.38%	$691,209
	TOTAL DIRECT COSTS:		***$29,794,231***
B. General Conditions on Direct Costs only			
B	General Conditions	8.9%	$2,725,539
	SUBTOTAL 1 (Cost of the Work):		**$32,519,770**
C. CM@Risks's Fee on Cost of Work only			
	CMAR Construction Fee	7.0%	$2,276,384
	SUBTOTAL 2		**$34,796,154**
D. Bonds and Insurance			
D1	Performance and Payment Bonds	0.7%	$243,573
D2	Insurance (PL/PD, Builders Risk)	1.2%	$431,472
	Bonds & Insurance Allowance Total		***$675,045***
	SUBTOTAL 3		**$35,471,199**
E. Sales Tax			
E1	Sales Tax (65% of 7.8%)	5.07%	$1,798,390
E2	Tax Credits		($256,620)
	TOTAL SALES TAX		***$1,541,770***
F. Allowances			
F1	COVID/Force Majeure Allowance		$100,000
F2	Owner Allowance		$400,000
F3	IT Allowance at Maintenance Bld @ AWRF		$300,000
F4	90% TO 100% Drawing Allowance		$664,279
F5	Invent Allowance		$75,000
	TOTAL GMP #2 PROPOSAL		**$38,552,248**

TAX EXEMPT SUMMARY

5/4/2021 Rev 6/21/2021

Project: **Chandler Water Reclamation Facility Improvements Project**
GMP #2 Proposal
Client: **City of Chandler**
Location: **Chandler, AZ**
City Job # **WW1901.401**

	DESCRIPTION	Total Tax Exempt Value
01A	General Requirements	$0
01B	Maintenance of Plant Operations	$0
01C	Quality Control	$0
01D	Startup & Commissioning	$0
01E	Survey	$0
01F	Engineers Trailers	$0
02A	Demolition	$0
02B	Earthwork & Yard Pipe	$348,168
02B.1	Landscaping	$0
02B.2	Paving	$0
02B.3	Site Concrete	$0
03A	Concrete & Reinforcing	$0
03A.1	Concrete Reinforcment	$0
04A	Masonry	$0
05A	Structural Steel	$0
05B	Miscellaneous Metals	$0
06A	Carpentry	$0
06B	Fiberglass Fabrications	$0
07A	Roofing, Accessories & Flashing	$0
07B	Sealants/Thermal Protection	$0
08A	Metal Doors, Frames, Hardware	$0
08B	Glass & Glazing	$0
08D	Overhead Coiling Doors	$0
09A	Drywall	$0
09B	Tile & Resilient Flooring	$0
09C	Suspended Acoustical Ceilings	$0
09E	Paintings & Coatings	$0
10A	Identification Devices & Misc. Specialties	$0
11C	Vertical Turbine Pumps	$147,700
11D	Submersible Mixers	$312,600
11E	Secondary Clarifier Mechanism	$837,325
11F	Fine and Coarse Aeration Systems	$174,230
11H	Submersible Pump for Dry Pit Application	$288,901

11J	End Suction Centrifugal Pump			$41,021
11K	Equipment Installation			$0
13A	Wet Pipe Fire Extinguishing System			$0
13B	Prefabricated Metal Building			$0
14A	Hoist, Trolleys, Monorail			$0
15A	Process Mechanical			$2,266,106
15B	HVAC/Plumbing			$0
16A	Electrical, Instrumentation, & Control			$645,487
	Total Tax Exempt Amount			***$5,061,538***
	Gross Receipts Tax Credit, 65% * 7.8%	5.07%	$	(256,620)

LIST OF SUBCONTRACTORS AND SUPPLIERS

5/4/2021 Rev 6/21/2021

Project: **Chandler Water Reclamation Facility Improvements Project**
GMP #2 Proposal
Client: **City of Chandler**
Location: **Chandler, AZ**
City Project # **WW1901.401**

Work Category	DESCRIPTION	Subcontractor / Supplier
Recommended Subcontractors / Suppliers		
01A	General Requirements	Various
01B	Maintenance of Plant Operations	Various
01C	Quality Control	Alpha Geotechnical
01D	Startup & Commissioning	McCarthy
01E	Survey	Southwest Survey
01F	Engineers Trailers	Misc
02A	Demolition	Penhall
02B	Earthwork & Yard Pipe	McCarthy
02B.1	Landscaping	AAA Landscaping
02B.2	Paving	L&L Asphalt
02B.3	Site Concrete	Via Sun
03A	Concrete	McCarthy
03A.1	Concrete Reinforcment	Tyler Reinforcing
04A	Masonry	Denny Clark
05A	Structural Steel	Revolution
05B	Miscellaneous Metals	Revolution
06A	Carpentry	Best Holdings Group
06B	Fiberglass Fabrications	Fibergrate
07A	Roofing, Accessories & Flashing - ALT ONLY	Broken Arrow
07B	Sealants/Thermal Protection	RTI Sealants
08A	Metal Doors, Frames, Hardware	Walters and Wolf
08B	Glass & Glazing	SGSI Glass and Glazing
08D	Overhead Coiling Doors	Miner Corp
09A	Drywall	Pete King
09B	Tile & Resilient Flooring	Envision Flooring
09C	Suspended Acoustical Ceilings	Barret-Homes
09E	Paintings & Coatings	PPC
10A	Identification Devices & Misc. Specialties	Misc Vendors
11C	Vertical Turbine Pumps	Cascade/JCH
11D	Submersible Mixers	Invent
11E	Secondary Clarifier Mechanism	Walker
11F	Fine and Coarse Aeration Systems	Sanitaire/JCH
11H	Submersible Pump for Dry Pit Application	Flygt/JCH
11J	End Suction Centrifugal Pump	Fairbanks/Hennesy Mech
11K	Equipment Installation	McCarthy
13A	Wet Pipe Fire Extinguishing System	RCI Systems
13B	Prefabricated Metal Building	Arizona Corp
14A	Hoist, Trolleys, Monorail	Hoist Systems
15A	Process Mechanical	McCarthy
15B	HVAC/Plumbing	McCarthy
16A	Electrical, Instrumentation, & Control	Ludvik

WORK CATEGORY SCHEDULE OF VALUES ("SOV")

5/4/2021 Rev 6/21/2021

Project: **Chandler Water Reclamation Facility Improvements Project**
GMP #2 Proposal
Client: **City of Chandler**
Location: **Chandler, AZ**
City Project # **WW1901.401**

Work Category	Description	Total
A. DIRECT COSTS		
01A	General Requirements	$391,897
01B	Maintenance of Plant Operations	$519,391
01C	Quality Control	$52,508
01D	Startup & Commissioning	$13,432
01E	Survey	$19,000
01F	Engineers Trailers	$148,366
02A	Demolition	$984,603
02B	Earthwork & Yard Pipe	$3,440,494
02B.1	Landscaping	$44,287
02B.2	Paving	$89,312
02B.3	Site Concrete	$119,764
03A	Concrete	$5,087,692
03A.1	Concrete Reinforcment	$879,869
04A	Masonry	$6,335
05A	Structural Steel	$642,403
05B	Miscellaneous Metals	$863,923
06A	Carpentry	$2,809
06B	Fiberglass Fabrications	$42,734
07B	Sealants/Thermal Protection	$11,024
08A	Metal Doors, Frames, Hardware	$31,482
08B	Glass & Glazing	$12,103
08D	Overhead Coiling Doors	$32,721
09A	Drywall	$119,345
09B	Tile & Resilient Flooring	$14,556
09C	Suspended Acoustical Ceilings	$6,815
09E	Paintings & Coatings	$347,253
10A	Identification Devices & Misc. Specialties	$99,901
11C	Vertical Turbine Pumps	$152,913
11D	Submersible Mixers	$317,719
11E	Secondary Clarifier Mechanism	$854,427
11F	Fine and Coarse Aeration Systems	$175,539
11H	Submersible Pump for Dry Pit Application	$196,668
11J	End Suction Centrifugal Pump	$47,402
11K	Equipment Installation	$1,675,810
13A	Wet Pipe Fire Extinguishing System	$32,703
13B	Prefabricated Metal Building	$564,673
14A	Hoist, Trolleys, Monorail	$231,563
15A	Process Mechanical	$4,263,556
15B	HVAC/Plumbing	$737,661
16A	Electrical, Instrumentation, & Control	$5,828,369
	Direct Cost Subtotal	***$29,103,022***

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **01A - General Requirements**

GMP Date: **5/4/2021 Rev 6/21/2021**

TOTAL WORK CATEGORY PACKAGE VALUE				**$391,897**
Description	**Qty**	**Unit**	**Unit Price**	**Total**
Both Sites				**$130,520**
CPM Schedule Preparation	1	LS	22,880.00	$22,880
CPM Schedule Progress Updates	23	MO	4,680.00	$107,640
Airport WRF				**$90,661**
Final Cleanup (Maintenance Bldg)	1.0	LS	1,533.00	$1,533
General Cleanup- Periodic	51	WK	446.73	$22,761
Haul Debris Service/Haz Com Program (3 LD/MO)	36.0	LD	260.06	$9,362
Temporary Toilets (2x per wk.) @ 6 for 12 Mo	72	MO	77.35	$5,569
Hand Wash (1x per Wk.) @ 3 for 12 Mo	36	MO	85.00	$3,060
Temp Ladders/Stairs/Site Lighting	1	LS	3,500.00	$3,500
Temp Protection	1	LS	5,000.00	$5,000
Project Signs	1	LS	12,000.00	$12,000
Fire Extinguishers	8	EA	150.00	$1,200
Progress Photos & Drone Flights	12	EA	450.00	$5,400
As-Builts per 01782	1	LS	2,000.00	$2,000
Utility Locating and Mapping	1	LS	10,000.00	$10,000
General Safety Labor	12	MO	773.00	$9,276
Ocotillo WRF				**$170,716**
Final Cleanup	1.0	LS	4,500.00	$4,500
General Cleanup- Periodic	101	WK	446.73	$45,328
Haul Debris Service/Haz Com Program (4 LD/MO)	91	LD	260.06	$23,665
Temporary Toilets (2x per wk.) @ 6.5 - 21 Mo	138	MO	77.35	$10,675
Hand Wash (1x per Wk.) @ 3 for 21 Mo	69	MO	85.00	$5,865
Temp Ladders/Stairs/Site Lighting	1	LS	3,500.00	$3,500
Temp Protection	1	LS	5,000.00	$5,000
Temp Fence / Barricades	1	LS	5,500.00	$5,500
Project Signs	1	LS	15,000.00	$15,000
Fire Extinguishers	20	EA	150.00	$3,000
Progress Photos & Drone Flights	21	EA	450.00	$9,450
As-Builts per 01782	1	LS	5,000.00	$5,000
Utility Locating and Mapping	1	LS	18,000.00	$18,000
General Safety Labor	21	MO	773.00	$16,233
TOTAL WORK CATEGORY PACKAGE VALUE				$391,897

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **01B - Maintenance of Plant Operations**

GMP Date: **5/4/2021 Rev 6/21/2021**

COMPANY INFORMATION		**McCarthy Building Companies**				
		Ben Whitlock				
		602-320-7837				
		bwhitlock@mccarthy.com				
TOTAL WORK CATEGORY PACKAGE VALUE		**$519,391**				
MCCARTHY SUBCONTRACT & FRONT END TERMS						
1	Per Plans & Specifications	Yes				
2	Division 1 as it relates to this scope of work	Yes				
3	01012 Plant Operation During Construction	Yes				
Scope of Work						
Base Bid:		$560,790.00				
4	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 01B - Maintenance of Plant Operations, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes				
5	1 year warranty from Final Acceptance (Aug 2023)	N/A				
6	**AWRF**					
7	**CMAR MOPOs**					
8	Filters 1-8 Process Flow	Yes				
9	Blower Piping Air Supply Test Included as an alternate	No				
10	**Civil MOPOs**					
11	Abandon 24" BW at Filters	WC 02B				
12	Abandon 12" Filter to Waste Piping	WC 02B				
13	Connection of 12-inch Backwash Water Pipe to new sewer manhole	WC 02B				
14	Maintenance Bldg. POT/Sewer connections	WC 02B				
15	**Process MOPOs**					
16	Aeration Basin Diffuser Piping	N/A				
17	Blower Piping	WC 15A				
18	Abandon 8" SST Air Supply at Filters	WC 15A				
19	**Electrical MOPOs**					
20	MCC-BL2 to MCC-AER Feed Replacement	WC 16A				
21	Thickening Building - MCC-TH2 - New Maintenance Building Breaker/Feeders	WC 16A				
22	**OWRF**					
23	**CMAR MOPOs**					
24	Chlorine Contact Basin Bypass for Structural & Process Modifications	Yes				
25	Clarifier 1 & 2 Structure Shutdown	Yes				
26	Filters 1 - 2 Process Flow	Yes				
27	Anoxic Basin Process Flow	Yes				
28	Clarifier Splitter Box (3 Coffer Dams)	Yes				
29	RAS/WAS PS and Wetwell (Cleanout)	Yes				
30	Reclaimed Water Pump Station Sluice Gates	Yes				
31	**Civil MOPOs**					
32	48" RW Installation at CCB	WC 02B				
33	60" Manholes West of Sludge Holding Tanks	WC 02B				
34	6" NPW Connection South of Aeration Basins	WC 02B				
35	New Sewer MH East of Filters	WC 02B				
36	**Process MOPOs**	N/A				

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **01B - Maintenance of Plant Operations**

GMP Date: **5/4/2021 Rev 6/21/2021**

COMPANY INFORMATION		**McCarthy Building Companies**				
		Ben Whitlock				
		602-320-7837				
		bwhitlock@mccarthy.com				
TOTAL WORK CATEGORY PACKAGE VALUE		**$519,391**				
37	**Electrical MOPOs**					
38	Secondary Clarifier #1, #2 and #3 feeders, drive motors, control panels, etc. replacement and upgrade	WC 16A				
39	MCC-539-001/002 prep for new disk filters #1-4	WC 16A				
40	Reclaimed Water PS Ductbank Relocation	WC 16A				
41	**General**					
42	Provide lifting lugs for proper installation	Yes				
43	Provide structural and anchorage calculation sealed by a registered structural engineer in the state of Arizona	Yes				
44	Provide all anchors and epoxy required for the installation of the equipment	Yes				
45	Unloading & storage	Yes				
46	**GMP 1 Early Demo**	-$41,399				
47	ADD ALTERNATE NOT IN TOTAL (Blower Pipe Test Station)	$45,787				
48	End of Scope					
49	Bond/CDI Cost	$0				
	TOTAL WORK CATEGORY PACKAGE VALUE	**$519,391**				

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
01B – Maintenance of Plant Operations								
A - Filters				**10,512**	**5,138**	**23,249**	**2,500**	**$41,399**
AWRF Filters 1-8								
Coffer dam engineering	1.0	EA	1,800.00			1,800		$1,800
Coffer dam fabrication	4.0	EA	5,000.00			20,000		$20,000
Coffer dam installation	4.0	EA	1,501.68	6,007				$6,007
Pump out Flocc Basins 1-4	4.0	EA	825.42	1,502	1,800			$3,302
Disinfect Filters 1-8, Filter Influent Channels and BW Channel	10.0	EA	250.00				2,500	$2,500
Remove coffer dam	4.0	EA	750.84	3,003				$3,003
42" inflatable plug	2.0	MO	1,669.00		3,338			$3,338
Safety Equipment @ 2%	1.0	LS	827.97			828		$828
Small Tools/Consumables @ 1%	1.0	LS	620.98			621		$621
O - Aeration / Anoxic & MCC Replacement				**101,044**	**47,616**	**19,240**		**$167,900**
Anoxic Grit Removal								
City to open mud valves to drain basins	2.0	EA						
Grit Removal	1,017.0	CY						
Crane	20.0	DY	1,864.04	11,594	25,687			$37,281
Forklift	20.0	DY	670.24	9,275	4,130			$13,405
CAT 242D Skid Steer	20.0	DY	914.08	9,888	8,394			$18,282
(6) Craft for cleanup	20.0	DY	2,620.32	52,406				$52,406
Trash Hoppers	6.0	EA	558.00		3,348			$3,348
2 Yd Concrete Buckets	6.0	EA	593.00		3,558			$3,558
Fuel (35 Gallons Per Day)	20.0	DY	122.50			2,450		$2,450
Power Washer	1.0	LS	2,500.00		2,500			$2,500
50% OT @ 1.43%	1.0	LS	17,880.17	17,880				$17,880
Safety Equipment @ 6%	1.0	LS	10,074.02			10,074		$10,074
Small Tools @ 4%	1.0	LS	6,716.02			6,716		$6,716
O - Chlorine Contact Basin				**4,504**	**75,446**	**58,720**		**$138,670**
OWRF Chlorine Contact Basin for Modifications								
Pump Bypass	4.0	WK	30,631.25		72,125	50,400		$122,525
Labor to install and remove plug	1.0	EA	794.24	794				$794
48" inflatable plug	1.0	MO	1,669.00		1,669			$1,669
Forklift	8.0	HR	670.25	3,710	1,652			$5,362
Safety Equipment @ 6%	1.0	LS	8,320.23			8,320		$8,320
O - Clarifiers				**2,052**	**19,328**			**$21,381**
Secondary Clarifier 1 & 2								
30" Inflatable Plug - Clarifier 1	8.0	MO	927.00		7,416			$7,416
Plug Installation/Removal - Clarifier 1	16.0	EA	183.70	794	2,145			$2,939
Forklift - Clarifier 1	4.0	HR	83.78	232	103			$335
30" Inflatable Plug - Clarifier 2	8.0	MO	927.00		7,416			$7,416
Plug Installation/Removal - Clarifier 2	16.0	EA	183.70	794	2,145			$2,939
Forklift - Clarifier 2	4.0	HR	83.78	232	103			$335
O - Effluent Storage Reservoir				**9,020**	**4,068**	**835**		**$13,924**
Reclaimed Water PS Sluice Gate								
Remove 48" blind flanges	3.0	DY	3,462.32	7,861	2,526			$10,387
Forklift	1.0	DY	837.82	580	258			$838
Crane	1.0	DY	1,864.04	580	1,284			$1,864
Safety Equipment @ 4%	1.0	EA	556.98			557		$557
Consumables @ 2%	1.0	LS	278.49			278		$278
O - Filters				**7,508**		**20,834**		**$28,342**
OWRF Filters								
Coffer dam engineering	2.0	EA	2,350.00			4,700		$4,700
Coffer dam fabrication	3.0	EA	5,000.00			15,000		$15,000
Coffer dam installation	3.0	EA	1,501.68	4,505				$4,505
Remove coffer dam	3.0	EA	1,001.12	3,003				$3,003
Small Tools/Consumables @ 4%	1.0	LS	1,133.68			1,134		$1,134
O - RAS/WAS Pump Station				**10,481**	**15,992**	**2,345**	**500**	**$29,318**
RAS/WAS PS and Wet Well								
Clean	4.0	DY	3,462.32	10,481	3,368			$13,849
Vactor Truck and haul off for wet well	4.0	EA	2,979.90		11,920			$11,920
Safety Retrieval System	4.0	DY	176.00		704			$704
Disinfect Pump Station/Wet Well	1.0	EA	500.00				500	$500
Safety Equipment @ 4%	1.0	LS	1,172.73			1,173		$1,173
Small Tools @ 4%	1.0	LS	1,172.73			1,173		$1,173
O - Splitter Box Mods				**7,324**	**5,137**	**13,384**		**$25,846**
OWRF Splitter Box								
Coffer dam engineering	1.0	EA	2,350.00			2,350		$2,350
Coffer dam fabrication	2.0	EA	5,000.00			10,000		$10,000
Coffer dam installation	2.0	EA	1,501.68	3,003				$3,003
Crane	4.0	DY	1,864.04	2,319	5,137			$7,456
Remove coffer dam	2.0	EA	1,001.12	2,002				$2,002
Consumables @ 4%	1.0	LS	1,033.82			1,034		$1,034
Z - General Requirements (both plants)						**52,000**		**$94,010**
Job Support Items								
Final MOPO Development	1.0	LS	52,000.00			52,000		$52,000
Contractor Fee @ 9%	466,780.2	%	0.09					$42,010
01B – Maintenance of Plant Operations Total				**152,447**	**172,726**	**190,608**	**3,000**	**$560,790**

Project Name: Chandler WRF Improvements
Project No. WW1901.201

Work Category: **01C - Quality Control Testing**

GMP Date: **5/4/2021 Rev 6/21/2021**

	COMPANY INFORMATION	Recommended Alpha Geotechnical & Materials, Inc	ACS Services	Ninyo & Moore		
		Aaron Tiemann	Sean Mayfield	Jony Martinez		
		623-414-9909	480-968-0190	520-577-7600		
		atiemann@alphageotech.com	email	email		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$52,508**	**No Bid**	**No Bid**		
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	No				
2	Bid Submitted on McCarthy Bid Form	No				
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	N/A				
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing. (The date on the letter provided should be within the last 30 days and the letter should include the status of their line of credit.)	In Prequal				
5	Surety Company	N/A				
6	Surety AM Best Rating (Must be A- or Better)	N/A				
7	AM Best Financial Size X($500M to $750M) or higher	N/A				
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	N/A				
9	Bond/CDI Cost	0.000%				
10	Included Insurance Requirements (Per Matrix)	Yes				
11	GL Insurance Company Name	Travelers Indemnity				
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	Yes				
13	PRL Insurance (If required by the Front Ends)	Yes				
14	Pollution Insurance (If required by the Front Ends)	N/A				
15	Tier 1 Approved	Yes				
16	Tier 2 Approved	N/A				
17	Safety Items:					
18	OSHA Recordable Incident Rate (Current)	6.1 had 3 minor on less than 100k of hrs				
19	Agrees to comply with PPE requirements including 100% glove policy	Yes				
20	Acknowledges updated ladder policy (platform ladders)	Yes				
21	Task Hazard Analysis included for all tasks	Yes				
22	Tie-off above 6' required	Yes				
23	Includes Hoisting for Sub's Own Work Scope	N/A				
24	Acknowledges Soils Report	Yes				
25	Acknowledges Addenda	Yes				
26	Hold Bid for 150 Days	Yes				
27	Pricing good for the duration of the project	Yes				
28	Sales Tax Included	N/A				
29	**COVID-19 Market Questions**					
30	How has your workprogram been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No				
31	Have you had any future work oppurtunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No				
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No				
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No				
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No				
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No				
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No				
37	Do you have any overseas suppliers that may be impeding your supply chain?	No				
38						

Project Name: Chandler WRF Improvements
Project No. WW1901.201

Work Category: **01C - Quality Control Testing**

GMP Date: **5/4/2021 Rev 6/21/2021**

	COMPANY INFORMATION	Recommended Alpha Geotechnical & Materials, Inc Aaron Tiemann 623-414-9909 atiemann@alphageotech.com	ACS Services Sean Mayfield 480-968-0190 email	Ninyo & Moore Jony Martinez 520-577-7600 email		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$52,508**	**No Bid**	**No Bid**		
39	Per Plans & Specifications	Yes				
40	Division 1 as it relates to this scope of work	Yes				
Scope of Work						
Base Bid:		$40,529				
41	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 01C - Quality Control Testing, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes				
42	Check to Spec completed and submitted to McCarthy	N/A				
43	1 year warranty from Final Acceptance (Aug 2023)	N/A				
44	Early concrete breaks for columns (16)	$1,994				
45	Early concrete breaks for beams (6)	$748				
46	Early concrete breaks for decks (46)	$5,733				
47	Soil Compaction Tests (50)	$3,505				
48	Mapping Services	N/A				
49	COVID-19 Scope Items					
50	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes				
51	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes				
52	All personnel onsite must maintain 6'0" spacing between personel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes				
53	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes				
54	All tools and equipment used must be sanitzed each day.	Yes				
55	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes				
56	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	N/A				
57	Personnel are not allowed to carpool to the site or while onsite.	Yes				
58	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the apropriate testing and quarantine protocols.	Yes				
59						
60	End of Scope					
61	Bond/CDI Cost	$0				
62	**TOTAL WORK CATEGORY PACKAGE VALUE**	**$52,508**				

April 05, 2021

Alpha Proposal Number: 21-CC-12148

Attention: BWhitlock, Project Manager
Estimating Department
Regarding: Materials Testing and Sampling Services

Alpha Geotechnical & Materials, Inc. (Alpha), is pleased to present our estimate for sampling and testing services for this project. This proposal is based upon a review of the Chandler Water Reclamation Facility Improvements Plans as part of a request for proposal dated 3/16/2021 by BWhitlock, Project Manager.

1.0 PROJECT UNDERSTANDING

Materials sampling, testing and special inspections services will be required to determine compliance with the applicable specifications and jurisdictional regulations during construction. Alpha should revise this proposal once construction set drawings become available.

2.0 ESTIMATED FEES

Alpha proposes to complete the scope of services for a **'Not to Exceed'** fee, as outlined in the attached cost estimate, provided the estimated number of trips is not exceeded.

Chandler Water Reclamation Facility Improvements	**# Trips**	**Cost**
Building Pads (BP)	25	$7,392.00
Commercial Structure (CS)	20	$4,972.00
Drainage Facilities (DF)	2	$269.20
Dry Utilities (DU)	11	$1,390.60
Foundation (F)	34	$6,376.40
Sewer (S)	15	$2,085.00
Streets & Street Related Work (ST)	39	$7,701.40
Walls Load Bearing (WAL-LB)	38	$6,074.80
Water (W)	5	$583.00
Project Code Total	**189**	**$36,844.40**

Sub-Total	$36,844.40
Project Management	$3,684.44
TOTAL ESTIMATE	**$40,528.84**

-Charges will be made at the unit rates established in this proposal for all project-related time, including travel (port-to-port).

-The quoted rates include the vehicle and all equipment necessary to perform field tests

-There is an additional charge of $75 for same day service schedules.

-Overtime (work over 8 hours per day or weekend work) will be invoiced at 1.5 times the hourly rate.

-Unit prices for laboratory tests include all labor, equipment and administrative time necessary to complete the test procedure and prepare the report.

-Additional areas of construction may require materials testing or inspections to satisfy code or jurisdictional requirements. These services will be provided at the client's request. However, they are not included in our cost estimate and will be invoiced according to our Standard Unit Fee Schedule.

3.0 SCOPE OF SERVICES

Alpha will provide qualified and experienced personnel to perform the scopes as outlined in the attached cost estimate.

4.0 ASSUMPTIONS

Number of Trips

-The Client's representative is responsible for coordinating testing efforts with Alpha so the minimum testing frequency, as required by the applicable specifications (if specified), is met.

-Not meeting the minimum tests per trip requirement will likely result in an increase in the number of trips and cost.

-The minimum test per trip requirement is defined as the minimum number of tests required, by the applicable specification (if specified), divided by the estimated number of trips per scope.

-The number of trips estimated for each scope in this proposal is based on meeting or exceeding the minimum tests per trip requirement.

-The minimum tests per trip for each scope is outlined in the cost summary at the end of this proposal.

-**Other**

-This proposal includes concrete sampling and cylinders for every 50 cubic yards placed.

-This proposal excludes special inspections, however may be added upon request.

-This proposal excludes materials testing and inspections for site and screen walls, trash enclosures, light pole bases, concrete bollards, and monument signs, however may be added upon request.

5.0 CLIENT RESPONSIBILITIES

-Prior to the start of work, sign our attached Consulting Services Agreement or provide a Consulting Services Contract for our signature.

-Provide Alpha with updated plans each time there are changes to the existing plans.

-Ensure the client representative coordinates scheduling service with Alpha to meet or exceed the minimum test per trip requirement as outlined in the estimate.

-Schedule services at least 24 hrs in advance (48 hrs for night work) by using the online scheduling portal at www.alphageotech.com or calling 602-453-3265 Ext. 4. Alpha's office hours are from 8:00 am to 5:00 pm M-F.

-Register all client authorized users on our secure website to access project specific test results and inspection reports within 24 hours of the test taken.

6.0 DELIVERABLES

Reports

Test results and Final Reports are available for review or download on our secure web site at no charge. Final Reports on electronic media and/or bound paper originals are $50 per report.

Reports of test results and inspections will be distributed to those designated by the client. Concrete compressive strength data, if designated by the client, can also be provided to the concrete supplier.

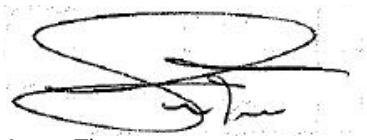
7.0 ACKNOWLEDGEMENT

The Client acknowledges acceptance of this proposal by signing and returning it to Alpha Geotechnical & Materials, Inc. We look forward to working with you on this project and are committed to enhancing the quality and value of the project to the owners.

If you have questions concerning this estimate, please contact Alf Wold at (602) 453-3265 extension 132, or e-mail questions to: awold@alphageotech.com.

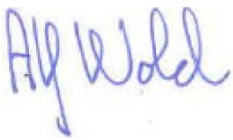
Respectfully submitted,

Alpha Geotechnical & Materials, Inc.



Aaron Tiemann
Project Manager
Email: atiemann@alphageotech.com
Office Phone: (602) 453-3265 x172
Cell Phone: (623) 414-9909

Reviewed by,



Alf Wold, P.E.
V.P. Operations
Office Phone: (602) 453-3265 x132
Cell Phone: (602) 370-0201

Attached:

- Consulting Services Agreement

- Estimate

CONSULTING SERVICES AGREEMENT

This CONSULTING SERVICES AGREEMENT is made by and between:

- **McCarthy Building Companies, Inc.**

hereinafter referred to as CLIENT, and Alpha Geotechnical & Materials, Inc., hereinafter called Alpha.

The CONSULTING SERVICES AGREEMENT between the parties consists of these terms and conditions, the attached PROPOSAL identified as Alpha Proposal Number:

21-CC-12148 dated: April 05, 2021

and any exhibits or attachments noted in the PROPOSAL. Together, these elements will constitute the entire AGREEMENT superseding any and all prior negotiations, correspondence, or agreements either written or oral. Any changes to this CONSULTING SERVICES AGREEMENT must be mutually agreed to in writing.

SECTION 1 - SCOPE OF WORK

Alpha shall perform pursuant to the terms and conditions of this CONSULTING SERVICES AGREEMENT the services as set forth in the accompanying PROPOSAL.

SECTION 2 - PERMITS & UTILITIES

1. Unless otherwise stated in the PROPOSAL, CLIENT shall apply for and obtain all required permits and licenses. CLIENT shall make all necessary arrangements for right of entry to provide Alpha access to the site for all equipment and personnel at no charge to Alpha.

2. While Alpha will take all reasonable precautions to minimize any damage to the property, CLIENT agrees to hold Alpha harmless for any damages to structures or any damage required for right of entry, in the absence of willful and gross misconduct by Alpha.

SECTION 3 - SAMPLES

Samples collected during this work will be retained for approximately 30 days after the sample is collected and then disposed.

SECTION 4 - INVOICES

Alpha will submit monthly progress invoices to CLIENT. Payment is due upon presentation of invoice and is past due thirty (30) days from invoice date. CLIENT agrees to pay a finance charge of one and percent (1 1/2%) per month on past due invoices. Alpha may require a retainer prior to start of work. Alpha will apply the retainer, if applicable, to the final invoice.

SECTION 5 - OWNERSHIP OF DOCUMENTS

1. All reports, field data, field notes, calculations, estimates and other documents prepared by Alpha, as instruments of service, shall remain the property of Alpha.

2. Alpha will retain all pertinent records relating to the services performed for a period of five years following submission of the report, during which period the records will be made available to CLIENT at reasonable times.

SECTION 6 - DISPUTES

In an effort to resolve any conflicts that arise during the design or construction of the Project or following the completion of the Project, the CLIENT and Alpha agree that all disputes arising between them out of or relating to this Agreement or the Project shall be submitted to mediation unless the parties mutually agree otherwise.

SECTION 7 - STANDARD OF CARE & NOTIFICATION

1. Services performed by Alpha under this CONSULTING SERVICES AGREEMENT will be conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions. No warranty is expressed or implied.

2. Alpha agrees to notify CLIENT when unanticipated hazardous materials or suspected hazardous materials are encountered. CLIENT agrees to make any disclosures required by law to the appropriate governing agencies.

3. Alpha will be responsible for data, interpretations, and recommendations, but shall not be responsible for the interpretation by others of the information developed.

SECTION 8 - LIMITATION OF LIABILITY

1. CLIENT agrees to limit Alpha's liability to CLIENT and all third parties arising from Alpha's negligent acts, errors or omissions, such that the total aggregate liability of Alpha to all those named shall not exceed our fees for the project or $50,000, whichever is less. Neither CLIENT nor any third parties assume any liability for damages to others, which may arise solely on account of Alpha's negligent acts, errors or omissions.

2. As part of the consideration Alpha requires for provision of the Services indicated herein, CLIENT agrees that any claim for damages filed against Alpha by CLIENT of any contractor or subcontractor hired directly or indirectly by CLIENT will be filed solely against Alpha or its successors or assigns and that no individual person shall be made personally liable or liable for damages, in whole or in part.

SECTION 9 - INSURANCE

Alpha represents and warrants that it and its agents, staff and consultants employed by it are protected by worker's compensation insurance and that Alpha has such coverage under public liability and property damage insurance policies which Alpha deems to be adequate. Certificates for all such policies of insurance will be provided to CLIENT, if requested. Within the limits and conditions of such insurance, Alpha agrees to indemnify and hold CLIENT harmless from and against any loss, damage, or liability arising from any negligent acts by Alpha, it agents, staff, and consultants employed by it. Alpha shall not be responsible for any loss, damage or liability arising from any acts by CLIENT, its agents, staff, and other consultants employed by it.

SECTION 10 - TERMINATION

1. This CONSULTING SERVICES AGREEMENT may be terminated by either party upon seven (7) days written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof, or in the event of the parties' failure to agree upon an adjustment to this CONSULTING SERVICES AGREEMENT in accordance with Section 6. Such termination shall not be effective if that substantial failure has been remedied before expiration of the period specified in the written notice. In the event of termination, Alpha shall be paid for services performed to the termination notice date plus reasonable termination expenses.

2. In the event of termination or suspension for more than three (3) months prior to completion of all reports contemplated by this CONSULTING SERVICES AGREEMENT, Alpha may complete such analyses and records as are necessary to complete ALPHA's Project files and may also complete a report on the services performed to the date of notice of termination or suspension. The expenses of termination or suspension shall include all direct costs of ALPHA in completing such analyses, records and reports.

SECTION 11 - ENTIRE AGREEMENT

This CONSULTING SERVICES AGREEMENT along with the exhibits and/or proposals appended hereto constitute the entire CONSULTING SERVICES AGREEMENT of the parties with respect to the subject matter hereof.

The Parties have read the foregoing, understand completely the terms and conditions, and willingly enter into this CONSULTING SERVICES AGREEMENT which will become effective on the date signed by the CLIENT below.

Alpha Geotechnical & Materials, Inc.		**Client**	
By :		By	
Name (please print):	Carrie Weaver	Name	
Title:	President	Title	
Date:	April 05, 2021	Date	

Alpha Geotechnical & Materials, Inc.

Client: McCarthy Building Companies, Inc.
Project: Chandler Water Reclamation Facility Improvements
Proposal Number: 21-CC-12148
Location: 905 East Queen Creek Road & 3333 South Old Price Road
Date: 04-05-2021

Chandler Water Reclamation Facility Improvements

Building Pads (BP) : Mass Grading : Labor

Material	Service	Item	# Tests / Samples	Trips	Tests / Trip	Total Hours	Rate	Sub-Total
Native Soil	Sampling	Engineering Technician - Sampling Soils/Aggregate	4	1	4	2.7	$48.00	$129.60
Aggregate Base Course	Sampling	Engineering Technician - Sampling Soils/Aggregate	1	1	1	1.2	$48.00	$57.60
Native Soil	Compaction Testing	Sr Engineering Technician - Nuclear Gauge Soils/Aggregate	60	15	4	70.5	$54.00	$3,807.00
Aggregate Base Course	Compaction Testing	Engineering Technician - Nuclear Gauge Soils/Aggregate	32	8	4	13.6	$48.00	$652.80
		Labor Total	25		88			$4,647.00

Building Pads (BP) : Mass Grading : Laboratory

Material	Service	Item	# Tests	Rate	Sub-Total
Native Soil	Lab Testing	Plasticity Index (Dry Preparation)	4	$58.00	$232.00
Native Soil	Lab Testing	Standard Proctor	4	$108.00	$432.00
Native Soil	Lab Testing	Swell (Remolded Sample)	4	$148.00	$592.00
Native Soil	Lab Testing	Gradation of soil or aggregate	4	$64.00	$256.00
Aggregate Base Course	Lab Testing	Plasticity Index (Wet Preparation)	1	$156.00	$156.00
Aggregate Base Course	Lab Testing	Standard Proctor	1	$138.00	$138.00
Aggregate Base Course	Lab Testing	Gradation of soil or aggregate	1	$64.00	$64.00
		Laboratory Total	19		$1,870.00
Building Pads (BP) : Mass Grading Sub-Total					**$6,517.00**
				Mileage Charge (25 trips X $35.00)	**$875.00**
				Project Management	**$739.20**
Building Pads (BP) : Mass Grading Total					**$8,131.20**

Commercial Structure (CS) : Columns : Labor

Material	Service	Item	# Tests / Samples	Trips	Tests / Trip	Total Hours	Rate	Sub-Total
Concrete	Pick up	Engineering Technician	5	5	1	4.75	$48.00	$228.00
Concrete	Sampling	Engineering Technician - Sampling Concrete	5	5	1	8.5	$48.00	$408.00
		Labor Total	10		13.25			$636.00

Commercial Structure (CS) : Columns : Laboratory

Material	Service	Item	# Tests	Rate	Sub-Total
Concrete	Lab Testing	Compressive Strength of Concrete Specimens	20	$18.00	$360.00
		Laboratory Total	20		$360.00
Commercial Structure (CS) : Columns Sub-Total					**$996.00**
				Mileage Charge (10 trips X $35.00)	**$350.00**
				Project Management	**$134.60**
Commercial Structure (CS) : Columns Total					**$1,480.60**

Commercial Structure (CS) : Slab on Deck : Labor

Material	Service	Item	# Tests / Samples	Trips	Tests / Trip	Total Hours	Rate	Sub-Total

Concrete	Pick up	Engineering Technician	5	5	1	4.75	$48.00	$228.00
Concrete	Sampling	Engineering Technician - Sampling Concrete	24	5	5	27.5	$48.00	$1,320.00
				Labor Total	10		32.25		$1,548.00

Commercial Structure (CS) : Slab on Deck : Laboratory

Material	Service	Item	# Tests	Rate	Sub-Total
Concrete	Lab Testing	Compressive Strength of Concrete Specimens	96	$18.00	$1,728.00
		Laboratory Total	96		$1,728.00

Commercial Structure (CS) : Slab on Deck Sub-Total	**$3,276.00**
Mileage Charge (10 trips X $35.00)	**$350.00**
Project Management	**$362.60**
Commercial Structure (CS) : Slab on Deck Total	**$3,988.60**

Drainage Facilities (DF) : Head/Wing Walls : Labor

Material	Service	Item	# Tests / Samples	Trips	Tests / Trip	Total Hours	Rate	Sub-Total
Concrete	Pick up	Engineering Technician	1	1	1	0.95	$48.00	$45.60
Concrete	Sampling	Engineering Technician - Sampling Concrete	1	1	1	1.7	$48.00	$81.60
				Labor Total	2		2.65		$127.20

Drainage Facilities (DF) : Head/Wing Walls : Laboratory

Material	Service	Item	# Tests	Rate	Sub-Total
Concrete	Lab Testing	Compressive Strength of Concrete Specimens	4	$18.00	$72.00
		Laboratory Total	4		$72.00

Drainage Facilities (DF) : Head/Wing Walls Sub-Total	**$199.20**
Mileage Charge (2 trips X $35.00)	**$70.00**
Project Management	**$26.92**
Drainage Facilities (DF) : Head/Wing Walls Total	**$296.12**

Dry Utilities (DU) : Mainline : Labor

Material	Service	Item	# Tests / Samples	Trips	Tests / Trip	Total Hours	Rate	Sub-Total
Backfill - Type I	Compaction Testing	Engineering Technician - Nuclear Gauge Soils/Aggregate	20	5	4	8.5	$48.00	$408.00
				Labor Total	5		8.5		$408.00

Dry Utilities (DU) : Mainline Sub-Total	**$408.00**
Mileage Charge (5 trips X $35.00)	**$175.00**
Project Management	**$58.30**
Dry Utilities (DU) : Mainline Total	**$641.30**

Dry Utilities (DU) : Structures : Labor

Material	Service	Item	# Tests / Samples	Trips	Tests / Trip	Total Hours	Rate	Sub-Total
Concrete	Pick up	Engineering Technician	3	3	1	2.85	$48.00	$136.80
Concrete	Sampling	Engineering Technician - Sampling Concrete	3	3	1	5.1	$48.00	$244.80
				Labor Total	6		7.95		$381.60

Dry Utilities (DU) : Structures : Laboratory

Alpha Geotechnical & Materials, Inc.

Client: McCarthy Building Companies, Inc.
Project: Chandler Water Reclamation Facility Improvements
Proposal Number: 21-CC-12148
Location: 905 East Queen Creek Road & 3333 South Old Price Road
Date: 04-05-2021

Material	Service	Item	# Tests	Rate	Sub-Total
Concrete	Lab Testing	Compressive Strength of Concrete Specimens	12	$18.00	$216.00
		Laboratory Total	12		$216.00

Dry Utilities (DU) : Structures Sub-Total	**$597.60**
Mileage Charge (6 trips X $35.00)	**$210.00**
Project Management	**$80.76**
Dry Utilities (DU) : Structures Total	**$888.36**

Foundation (F) : Footings : Labor

Material	Service	Item	# Tests / Samples	Trips	Tests / Trip	Total Hours	Rate	Sub-Total
Concrete	Pick up	Engineering Technician	5	5	1	4.75	$48.00	$228.00
Concrete	Sampling	Engineering Technician - Sampling Concrete	5	5	1	8.5	$48.00	$408.00
		Labor Total	10			13.25		$636.00

Foundation (F) : Footings : Laboratory

Material	Service	Item	# Tests	Rate	Sub-Total
Concrete	Lab Testing	Compressive Strength of Concrete Specimens	20	$18.00	$360.00
		Laboratory Total	20		$360.00

Foundation (F) : Footings Sub-Total	**$996.00**
Mileage Charge (10 trips X $35.00)	**$350.00**
Project Management	**$134.60**
Foundation (F) : Footings Total	**$1,480.60**

Foundation (F) : Slab on Grade : Labor

Material	Service	Item	# Tests / Samples	Trips	Tests / Trip	Total Hours	Rate	Sub-Total
Concrete	Pick up	Engineering Technician	12	12	1	11.4	$48.00	$547.20
Concrete	Sampling	Engineering Technician - Sampling Concrete	27	12	3	35.4	$48.00	$1,699.20
		Labor Total	24			46.8		$2,246.40

Foundation (F) : Slab on Grade : Laboratory

Material	Service	Item	# Tests	Rate	Sub-Total
Concrete	Lab Testing	Compressive Strength of Concrete Specimens	108	$18.00	$1,944.00
		Laboratory Total	108		$1,944.00

Foundation (F) : Slab on Grade Sub-Total	**$4,190.40**
Mileage Charge (24 trips X $35.00)	**$840.00**
Project Management	**$503.04**
Foundation (F) : Slab on Grade Total	**$5,533.44**

Sewer (S) : Mainline : Labor

Material	Service	Item	# Tests / Samples	Trips	Tests / Trip	Total Hours	Rate	Sub-Total
Backfill - Type I	Compaction Testing	Engineering Technician - Nuclear Gauge Soils/Aggregate	12	3	4	5.1	$48.00	$244.80
		Labor Total	3			5.1		$244.80

Sewer (S) : Mainline Sub-Total	**$244.80**
Mileage Charge (3 trips X $35.00)	**$105.00**

Project Management	**$34.98**
Sewer (S) : Mainline Total	**$384.78**

Sewer (S) : Manhole Bases : Labor

Material	Service	Item	# Tests / Samples	Trips	Tests / Trip	Total Hours	Rate	Sub-Total
Concrete	Pick up	Engineering Technician	4	4	1	3.8	$48.00	$182.40
Concrete	Sampling	Engineering Technician - Sampling Concrete	4	4	1	6.8	$48.00	$326.40
		Labor Total	8			10.6		$508.80

Sewer (S) : Manhole Bases : Laboratory

Material	Service	Item	# Tests	Rate	Sub-Total
Concrete	Lab Testing	Compressive Strength of Concrete Specimens	16	$18.00	$288.00
		Laboratory Total	16		$288.00

Sewer (S) : Manhole Bases Sub-Total	**$796.80**
Mileage Charge (8 trips X $35.00)	**$280.00**
Project Management	**$107.68**
Sewer (S) : Manhole Bases Total	**$1,184.48**

Sewer (S) : Manholes : Labor

Material	Service	Item	# Tests / Samples	Trips	Tests / Trip	Total Hours	Rate	Sub-Total
Backfill - Type III	Compaction Testing	Engineering Technician - Nuclear Gauge Soils/Aggregate	32	4	8	10.8	$48.00	$518.40
		Labor Total	4			10.8		$518.40

Sewer (S) : Manholes Sub-Total	**$518.40**
Mileage Charge (4 trips X $35.00)	**$140.00**
Project Management	**$65.84**
Sewer (S) : Manholes Total	**$724.24**

Streets & Street Related Work (ST) : Curb & Gutter : Labor

Material	Service	Item	# Tests / Samples	Trips	Tests / Trip	Total Hours	Rate	Sub-Total
Concrete	Pick up	Engineering Technician	4	4	1	3.8	$48.00	$182.40
Concrete	Sampling	Engineering Technician - Sampling Concrete	4	4	1	6.8	$48.00	$326.40
Native Soil	Compaction Testing	Engineering Technician - Nuclear Gauge Soils/Aggregate	8	0	0	2	$48.00	$96.00
		Labor Total	8			12.6		$604.80

Streets & Street Related Work (ST) : Curb & Gutter : Laboratory

Material	Service	Item	# Tests	Rate	Sub-Total
Concrete	Lab Testing	Compressive Strength of Concrete Specimens	16	$18.00	$288.00
		Laboratory Total	16		$288.00

Streets & Street Related Work (ST) : Curb & Gutter Sub-Total	**$892.80**
Mileage Charge (8 trips X $35.00)	**$280.00**
Project Management	**$117.28**
Streets & Street Related Work (ST) : Curb & Gutter Total	**$1,290.08**

Alpha Geotechnical & Materials, Inc.

Client: McCarthy Building Companies, Inc.
Project: Chandler Water Reclamation Facility Improvements
Proposal Number: 21-CC-12148
Location: 905 East Queen Creek Road & 3333 South Old Price Road
Date: 04-05-2021

Streets & Street Related Work (ST) : Driveways : Labor

Material	Service	Item	# Tests / Samples	Trips	Tests / Trip	Total Hours	Rate	Sub-Total
Concrete	Pick up	Engineering Technician	2	2	1	1.9	$48.00	$91.20
Concrete	Sampling	Engineering Technician - Sampling Concrete	2	2	1	3.4	$48.00	$163.20
Native Soil	Compaction Testing	Engineering Technician - Nuclear Gauge Soils/Aggregate	4	0	0	1	$48.00	$48.00
		Labor Total	4			6.3		$302.40

Streets & Street Related Work (ST) : Driveways : Laboratory

Material	Service	Item	# Tests	Rate	Sub-Total
Concrete	Lab Testing	Compressive Strength of Concrete Specimens	8	$18.00	$144.00
		Laboratory Total	8		$144.00
Streets & Street Related Work (ST) : Driveways Sub-Total					**$446.40**
				Mileage Charge (4 trips X $35.00)	**$140.00**
				Project Management	**$58.64**
Streets & Street Related Work (ST) : Driveways Total					**$645.04**

Streets & Street Related Work (ST) : Parking Lot : Labor

Material	Service	Item	# Tests / Samples	Trips	Tests / Trip	Total Hours	Rate	Sub-Total
Aggregate Base Course	Sampling	Engineering Technician - Sampling Soils/Aggregate	1	1	1	1.2	$48.00	$57.60
Asphaltic Concrete	Sampling	Engineering Technician - Sampling Asphaltic Concrete	4	0	0	2	$48.00	$96.00
Native Soil	Compaction Testing	Engineering Technician - Nuclear Gauge Soils/Aggregate	16	4	4	6.8	$48.00	$326.40
Aggregate Base Course	Compaction Testing	Engineering Technician - Nuclear Gauge Soils/Aggregate	16	4	4	6.8	$48.00	$326.40
Asphaltic Concrete	Compaction Testing	Engineering Technician - Nuclear Gauge Asphaltic Concrete	20	4	5	22.8	$48.00	$1,094.40
		Labor Total	13			39.6		$1,900.80

Streets & Street Related Work (ST) : Parking Lot : Laboratory

Material	Service	Item	# Tests	Rate	Sub-Total
Aggregate Base Course	Lab Testing	Gradation of soil or aggregate	1	$64.00	$64.00
Aggregate Base Course	Lab Testing	Plasticity Index (Wet Preparation)	1	$156.00	$156.00
Aggregate Base Course	Lab Testing	Standard Proctor	1	$138.00	$138.00
Asphaltic Concrete	Lab Testing	Rice or Maximum Theoretical Specific Gravity	4	$148.00	$592.00
Asphaltic Concrete	Lab Testing	Oil Content by Ignition Method	4	$96.00	$384.00
Asphaltic Concrete	Lab Testing	Gradation of extracted aggregate	4	$50.00	$200.00
		Laboratory Total	15		$1,534.00
Streets & Street Related Work (ST) : Parking Lot Sub-Total					**$3,434.80**
				Mileage Charge (13 trips X $35.00)	**$455.00**
				Project Management	**$388.98**
Streets & Street Related Work (ST) : Parking Lot Total					**$4,278.78**

Streets & Street Related Work (ST) : Roadway : Labor

Material	Service	Item	# Tests /	Trips	Tests /	Total	Rate	Sub-Total

			Samples		Trip	Hours		
Concrete	Pick up	Engineering Technician	3	3	1	2.85	$48.00	$136.80
Concrete	Sampling	Engineering Technician - Sampling Concrete	3	3	1	5.1	$48.00	$244.80
Native Soil	Compaction Testing	Engineering Technician - Nuclear Gauge Soils/Aggregate	6	0	0	1.5	$48.00	$72.00
		Labor Total		6		9.45		$453.60

Streets & Street Related Work (ST) : Roadway : Laboratory

Material	Service	Item	# Tests	Rate	Sub-Total
Concrete	Lab Testing	Compressive Strength of Concrete Specimens	12	$18.00	$216.00
		Laboratory Total	12		$216.00

Streets & Street Related Work (ST) : Roadway Sub-Total	**$669.60**
Mileage Charge (6 trips X $35.00)	**$210.00**
Project Management	**$87.96**
Streets & Street Related Work (ST) : Roadway Total	**$967.56**

Streets & Street Related Work (ST) : Sidewalk : Labor

Material	Service	Item	# Tests / Samples	Trips	Tests / Trip	Total Hours	Rate	Sub-Total
Concrete	Pick up	Engineering Technician	2	2	1	1.9	$48.00	$91.20
Concrete	Sampling	Engineering Technician - Sampling Concrete	2	2	1	3.4	$48.00	$163.20
Native Soil	Compaction Testing	Engineering Technician - Nuclear Gauge Soils/Aggregate	4	0	0	1	$48.00	$48.00
		Labor Total	4			6.3		$302.40

Streets & Street Related Work (ST) : Sidewalk : Laboratory

Material	Service	Item	# Tests	Rate	Sub-Total
Concrete	Lab Testing	Compressive Strength of Concrete Specimens	8	$18.00	$144.00
		Laboratory Total	8		$144.00

Streets & Street Related Work (ST) : Sidewalk Sub-Total	**$446.40**
Mileage Charge (4 trips X $35.00)	**$140.00**
Project Management	**$58.64**
Streets & Street Related Work (ST) : Sidewalk Total	**$645.04**

Streets & Street Related Work (ST) : Valley Gutters : Labor

Material	Service	Item	# Tests / Samples	Trips	Tests / Trip	Total Hours	Rate	Sub-Total
Concrete	Pick up	Engineering Technician	2	2	1	1.9	$48.00	$91.20
Concrete	Sampling	Engineering Technician - Sampling Concrete	2	2	1	3.4	$48.00	$163.20
Native Soil	Compaction Testing	Engineering Technician - Nuclear Gauge Soils/Aggregate	4	0	0	1	$48.00	$48.00
		Labor Total	4			6.3		$302.40

Streets & Street Related Work (ST) : Valley Gutters : Laboratory

Material	Service	Item	# Tests	Rate	Sub-Total
Concrete	Lab Testing	Compressive Strength of Concrete Specimens	8	$18.00	$144.00
		Laboratory Total	8		$144.00

Streets & Street Related Work (ST) : Valley Gutters Sub-Total	**$446.40**
Mileage Charge (4 trips X $35.00)	**$140.00**
Project Management	**$58.64**
Streets & Street Related Work (ST) : Valley Gutters Total	**$645.04**

Walls Load Bearing (WAL-LB) : Building : Labor

Material	Service	Item	# Tests / Samples	Trips	Tests / Trip	Total Hours	Rate	Sub-Total
Grout	Pick up	Engineering Technician	4	4	1	3.8	$48.00	$182.40
Grout	Sampling	Engineering Technician - Sampling Grout	4	4	1	6.8	$48.00	$326.40
		Labor Total	8			10.6		$508.80

Walls Load Bearing (WAL-LB) : Building : Laboratory

Material	Service	Item	# Tests	Rate	Sub-Total
Grout	Lab Testing	Compressive Strength of Grout Prisms	16	$18.00	$288.00
		Laboratory Total	16		$288.00

Walls Load Bearing (WAL-LB) : Building Sub-Total	**$796.80**
Mileage Charge (8 trips X $35.00)	**$280.00**
Project Management	**$107.68**
Walls Load Bearing (WAL-LB) : Building Total	**$1,184.48**

Walls Load Bearing (WAL-LB) : Retaining : Labor

Material	Service	Item	# Tests / Samples	Trips	Tests / Trip	Total Hours	Rate	Sub-Total
Concrete	Pick up	Engineering Technician	15	15	1	14.25	$48.00	$684.00
Concrete	Sampling	Engineering Technician - Sampling Concrete	23	15	2	33.5	$48.00	$1,608.00
		Labor Total	30			47.75		$2,292.00

Walls Load Bearing (WAL-LB) : Retaining : Laboratory

Material	Service	Item	# Tests	Rate	Sub-Total
Concrete	Lab Testing	Compressive Strength of Concrete Specimens	92	$18.00	$1,656.00
		Laboratory Total	92		$1,656.00

Walls Load Bearing (WAL-LB) : Retaining Sub-Total	**$3,948.00**
Mileage Charge (30 trips X $35.00)	**$1,050.00**
Project Management	**$499.80**
Walls Load Bearing (WAL-LB) : Retaining Total	**$5,497.80**

Water (W) : Mainline : Labor

Material	Service	Item	# Tests / Samples	Trips	Tests / Trip	Total Hours	Rate	Sub-Total
Backfill - Type I	Compaction Testing	Engineering Technician - Nuclear Gauge Soils/Aggregate	20	5	4	8.5	$48.00	$408.00
		Labor Total	5			8.5		$408.00

Water (W) : Mainline Sub-Total	**$408.00**
Mileage Charge (5 trips X $35.00)	**$175.00**
Project Management	**$58.30**
Water (W) : Mainline Total	**$641.30**

Alpha Geotechnical & Materials, Inc.

Client: McCarthy Building Companies, Inc.
Project: Chandler Water Reclamation Facility Improvements
Proposal Number: 21-CC-12148
Location: 905 East Queen Creek Road & 3333 South Old Price Road
Date: 04-05-2021

Cost Summary

Sub-Total:	$36,844.40
Project Management Total	$3,684.44
Grand Total	**$40,528.84**

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **01D - Startup & Commissioning**

GMP Date: **5/4/2021 Rev 6/21/2021**

TOTAL WORK CATEGORY PACKAGE VALUE				**$13,432**
Description	**Qty**	**Unit**	**Unit Price**	**Total**
Airport WRF				**$5,256**
Filters 1-5	1	LS	2,920	$2,920
Aeration Basins 1-2	1	LS	2,336	$2,336
Ocotillo WRF				**$8,176**
Anoxic Basins	1	LS	3,504	$3,504
Clarifier #1	1	LS	1,168	$1,168
Clarifier #2	1	LS	1,168	$1,168
Filters 1-4	1	LS	2,336	$2,336
TOTAL WORK CATEGORY PACKAGE VALUE				$13,432

Startup and commissioning cost are support costs for complete system startups.
All individual process equipment startup is included in each equipment work category.

Chandler WRF Improvements Project

GMP 2 Work Category Solicited Subcontractors Summary

Work Category: **01E Surveying**

Subcontractor/Supplier Name	***Status***
Southwest Survey Solutions	*Recommended*
D2 Surveying	*Proposed*
Rick Engineering Company	*Proposed*
82 Bravo LLC	*Declined*
Skynewest	*Declined*
DBE Surveying	*Declined*
Geomatics Consulting Group	*Declined*
Inti, LLC	*Declined*
Ritoch-Powell & Associates	*Declined*
The CK Group	*Declined*
Trace Consulting	*Declined*
JT2 Enterprises	*Declined*
Lemme Associates AZ	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **01E - Surveying**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Southwest Survey Solutions	D2 Surveying	Rick Engineering Company		
		Todd Highland	Jeremy	Randy Hagar		
		480-522-6661	480-221-1368	623-262-1581		
		toddh@s3-az.com	jeremy@d2surveying.com	rhager@rickengineering.com		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$19,000**	**$23,000**	**$23,000**		
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	Yes	Yes	Yes		
2	Bid Submitted on McCarthy Bid Form	N/A	N/A	N/A		
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	N/A	N/A	N/A		
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing.	N/A	N/A	N/A		
5	Surety Company	N/A	N/A	N/A		
6	Surety AM Best Rating (Must be A- or Better)	N/A	N/A	N/A		
7	AM Best Financial Size X($500M to $750M) or higher	N/A	N/A	N/A		
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	Unit Price	Unit Price	Unit Price		
9	Bond/CDI Cost	0.000%	0.000%	0.000%		
10	Included Insurance Requirements (Per Matrix)	Yes	Yes	Yes		
11	GL Insurance Company Name	COUNTRY Mutual Insurance Company	RLI Insurance Company	XL Specialty Company		
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	Yes	Yes	Yes		
13	PRL Insurance (If required by the Front Ends)	Yes	Yes	Yes		
14	Pollution Insurance (If required by the Front Ends)	N/A	N/A	N/A		
15	Tier 1 Approved	Yes	No	No		
16	Tier 2 Approved	N/A	N/A	N/A		
17	Safety Items:	Yes	Yes	Yes		
18	Agrees to comply with PPE requirements including 100% glove policy	Yes	Yes	Yes		
19	Acknowledges updated ladder policy (platform ladders)	Yes	Yes	Yes		
20	Task Hazard Analysis included for all tasks	Yes	Yes	Yes		
21	Tie-off above 6' required	Yes	Yes	Yes		
22	Includes Hoisting for Sub's Own Work Scope	Yes	Yes	Yes		
23	Acknowledges Soils Report	N/A	N/A	N/A		
24	Acknowledges Addenda	N/A	N/A	N/A		
25	Hold Bid for 150 Days	Yes	Yes	Yes		
26	Pricing good for the duration of the project	Yes	No	No		
27	Sales Tax Included	N/A	N/A	N/A		
28	**COVID-19 Market Questions**					
29	How has your work program been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No	No	No		
30	Have you had any future work opportunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No	No	No		
31	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No	No		
32	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No	No	No		
33	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No	No		
34	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No	No	No		
35	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No	No	No		
36	Do you have any overseas suppliers that may be impeding your supply chain?	No	No	No		
37						

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **01E - Surveying**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Southwest Survey Solutions	D2 Surveying	Rick Engineering Company		
		Todd Highland	Jeremy	Randy Hagar		
		480-522-6661	480-221-1368	623-262-1581		
		toddh@s3-az.com	jeremy@d2surveying.com	rhager@rickengineering.com		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$19,000**	**$23,000**	**$23,000**		
38	Per Plans & Specifications	No	No	No		
39	Division 1 as it relates to this scope of work	No	No	No		
	Scope of Work					
	Base Bid:	Unit Cost	Unit Cost	Unit Cost		
40	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 01E - Surveying, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	Yes	Yes		
41	Check to Spec completed and submitted to McCarthy	N/A	N/A	N/A		
42	1 year warranty from Final Acceptance (Aug 2023)	N/A	N/A	N/A		
43	All scopes include 1 man crew	Yes	Yes	Yes		
44	Structural control, layout and benchmarks	Yes	Yes	Yes		
45	**AWRF**					
46	Filters	$2,280	$3,120	$3,000		
47	Blower Piping	$2,280	$3,120	$3,000		
48	Maintenance Bldg.	$1,520	$2,080	$2,000		
49	**OWRF**					
50	Anoxic Basins	$1,520	$2,080	$2,000		
51	Filters	$3,040	$4,160	$4,000		
52	Reservoir	$4,560	$6,240	$6,000		
53	Administrative Fees for invoices	$3,800	$2,200	$3,000		
54	COVID-19 Scope Items					
55	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes	Yes	Yes		
56	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes	Yes	Yes		
57	All personnel onsite must maintain 6'0" spacing between personnel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes	Yes	Yes		
58	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes	Yes	Yes		
59	All tools and equipment used must be sanitized each day.	Yes	Yes	Yes		
60	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes	Yes	Yes		
61	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	N/A	N/A	N/A		
62	Personnel are not allowed to carpool to the site or while onsite.	Yes	Yes	Yes		
63	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the appropriate testing and quarantine protocols.	Yes	Yes	Yes		
64						
65	End of Scope					
66	Bond/CDI Cost	$0	$0	$0		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$19,000**	**$23,000**	**$23,000**		

Southwest Survey Solutions LLC
4615 East Warner Road, Suite 5
Gilbert, AZ 85296
Office: 480-414-4121
Fax: 1-888-870-6203 Email: toddh@s3-az.com

March 31, 2020

McCarthy Building Companies, Inc.
6225 N 24th Street, Suite 200
Phoenix, AZ 85016

Re: Chandler WRF Improvements - GMP 02 Full Time S3 Surveyor/Grade Checker Support

Below is bullet point of the services and how the fees work under this type of agreement with S3.

Services

- Site calibration
- Prelim topo's
- Quantity topo's
- Final topo's and as-builts
- Staking
- Grade checking
- Machine control support (loading control an models, trouble shooting)

Cost

- Flat rate cost of **$95.00/hr**. Includes trained surveyor/grade checker, office support including calcs, quantities, as-builts, and employee management.
- S3 UTV or Vehicle for site travel included.
- Base and Rover included in rate.
- PO forms signed daily by the site McCarthy supervisor.
- When the site is a full-time project the billable hours are on-site time. **Projects less than 40hrs will be billed port to port.**
- Rate does not change/increase for overtime.
- Arizona RLS services are included in the flat rate.
- Site specific training shall be paid under hourly rate.
- This does not include boundary and ALTA type surveys.

Please feel free to contact me with any questions or clarifications.

Regards,

Todd Highland

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **01F - Engineer Trailers**

GMP Date: **5/4/2021 Rev 6/21/2021**

TOTAL WORK CATEGORY PACKAGE VALUE				**$148,366**
Description	**Qty**	**Unit**	**Unit Price**	**Total**
Trailer Rental (24'x60')	24	MO	1,500	$36,000
Trailer Set Up and Demob	1	LS	9,100	$9,100
Trailer Furnishings	1	LS	19,500	$19,500
Trailer Utilities	24	MO	450	$10,800
Construction Trailer Permit	1	LS	5,500	$5,500
Copier and Office Supplies	24	MO	850	$20,400
Internet	24	MO	500	$12,000
Drinking Water and Cups	24	MO	390	$9,360
Trailer Signs	1	LS	650	$650
Old Admin Cleaning	24	MO	450	$10,800
VOIP Phones	72	MO	48	$3,456
Trailer Cleaning	24	MO	450	$10,800
TOTAL WORK CATEGORY PACKAGE VALUE				$148,366

Chandler WRF Improvements Project
GMP 2 Work Category Solicited Subcontractors Summary
Work Category: **02A Demolition**

Subcontractor/Supplier Name	***Status***
Penhall Company	*Recommended*
Dickens Quality Demolition	*Proposed*
BCS Demolition	*Proposed*
Viking	*Declined*
Cano Structures	*Declined*
Desert Services International Inc.	*Declined*
Total Quality Contracting	*Declined*
Advanced Demolition	*Declined*
The Ground Level Co.	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **02A - Demolition**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

COMPANY INFORMATION		**Penhall Company**	Dickens Quality Demolition	BCS Demolition		
		Josh Hernandez	Craig Snider	Cameron Morris		
		949-562-5935	602-361-5173	480-620-0491		
		jhernandez@penhall.com	csnider@dickensquality.com	cjmorris@bcsdemo.com		
TOTAL WORK CATEGORY PACKAGE VALUE		**$984,603**	**$1,082,255**	**$1,133,607**		
MCCARTHY SUBCONTRACT & FRONT END TERMS						
1	Compliant with McCarthy Front Ends	Yes	Yes	Yes		
2	Bid Submitted on McCarthy Bid Form	Yes	Yes	Yes		
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	Yes	Yes	Yes		
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing.	Yes	Yes	Yes		
5	Surety Company	Arch Insurance Company	Merchants Bonding Company	Western Surety Company		
6	Surety AM Best Rating (Must be A- or Better)	Yes	Yes	Yes		
7	AM Best Financial Size X($500M to $750M) or higher	Yes	No	Yes		
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	Yes	Yes	Yes		
9	Bond/CDI Cost	2.000%	0.750%	2.000%		
10	Included Insurance Requirements (Per Matrix) CGL $5 Million	Yes	Yes	Yes		
11	GL Insurance Company Name	Zurich American Insurance Company	Evanston Insurance Company	Great Divide Insurance Company		
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	Yes	Yes	Yes		
13	PRL Insurance (If required by the Front Ends)	N/A	N/A	N/A		
14	Pollution Insurance as required by the Front Ends	Yes	Yes	Yes		
15	Tier 1 Approved	Yes	Yes	Yes		
16	Tier 2 Approved	N/A	N/A	N/A		
17	Safety Items:	Yes	Yes	Yes		
18	OSHA Recordable Incident Rate (Current)	1.33	3.25	1.07		
19	Agrees to comply with PPE requirements including 100% glove policy	Yes	Yes	Yes		
20	Acknowledges updated ladder policy (platform ladders)	Yes	Yes	Yes		
21	Task Hazard Analysis included for all tasks	Yes	Yes	Yes		
22	Tie-off above 6' required	Yes	Yes	Yes		
23	Includes Hoisting for ALL of Sub's Own Work Scope	Yes	Yes	Yes		
24	Acknowledges Soils Report	Yes	Yes	Yes		
25	Acknowledges Addenda 1-4	Yes	Yes	Yes		
26	Hold Bid for 150 Days	Yes	Yes	Yes		
27	Pricing good for the duration of the project	Yes	Yes	Yes		
28	Sales Tax Included	N/A	N/A	N/A		
29	**COVID-19 Market Questions**					
30	Has your work program been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No	No	No		
31	Have you had any future work opportunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No	No	No		
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No	No		
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No	No	No		
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No	No		
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No	No	No		
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No	No	No		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **02A - Demolition**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Penhall Company	Dickens Quality Demolition	BCS Demolition		
		Josh Hernandez	Craig Snider	Cameron Morris		
		949-562-5935	602-361-5173	480-620-0491		
		jhernandez@penhall.com	csnider@dickensquality.com	cjmorris@bcsdemo.com		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$984,603**	**$1,082,255**	**$1,133,607**		
37	Do you have any overseas suppliers that may be impeding your supply chain?	No	No	No		
38						
39	Per Plans & Specifications	Yes	Yes	No		
40	Division 1 as it relates to this scope of work	Yes	Yes	Yes		
41	Spec Section 01012 Plant Operation During Construction	Yes	Yes	Yes		
42	Spec Section 02050 Demolitions	Yes	Yes	Yes		
	Scope of Work					
	Base Bid:	$1,150,529	$1,155,222	$916,341		
43	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 02A Demolition, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	Yes	Yes		
44	Check to Spec completed and submitted to McCarthy	Yes	Yes	Yes		
45	1 year warranty from Final Acceptance (Aug 2023)	Yes	N/A	Yes		
46	Electrical determ and make safe at all demolition areas for both sites	WC 16A	WC 16A	WC 16A		
47	Understands project schedule requirements and critical path	Yes	Yes	Yes		
48	Includes crews and OT as needed to perform the OWRF Anoxic/Aeration/RAS shutdown in February & March of 2022	Yes	No	Yes		
49	Demo Contractor has reviewed and understands the Q&A log	Yes	Yes	Yes		
50	Wash down structures and chlorinate	$16,500	$16,500	$16,500		
51	**AWRF Site**					
52	Remove asphalt parking lot & curb south of Thickening Bldg.	WC 02B	WC 02B	WC 02B		
53	Remove 55' of 24" BW south of filter #1 as shown and abandon in place	WC 02B	WC 02B	WC 02B		
54	Remove 2" pressure assembly and bollards	WC 02B	WC 02B	WC 02B		
55	Abandon in place 8" SST BWA @ Filters	WC 15A	WC 15A	WC 15A		
56	Abandon in place 12" DIA DIP Filter to Waste Piping @ Filters	WC 02B	WC 02B	WC 02B		
57	Abandon in place 30" DIA DIP Filter Effluent Piping @ Filters	N/A - Completed in UV Structure	N/A - Completed in UV Structure	N/A - Completed in UV Structure		
58	Abandon in place Flow Meter Manholes	N/A - No Scope Required	N/A - No Scope Required	N/A - No Scope Required		
59	**AWRF Blower Bldg./Blower Piping**					
60	Remove 30" and haul off Temp Steel Blower Air Pipe from basin 1 to Blower BLDG	WC 15A	WC 15A	WC 15A		
61	Remove existing pipe supports under 30" Temp Steel Air Pipe	WC 15A	WC 15A	WC 15A		
62	Remove FRP air pipe to SST connections and Cap	WC 03A/15A	WC 03A/15A	WC 03A/15A		
63	Salvage existing 20" expansion joints and BFVs	WC 15A	WC 15A	WC 15A		
64	Remove pipe hangers in blower building	WC 15A	WC 15A	WC 15A		
65	Remove HVAC Exhaust Fans	WC 15B	WC 15B	WC 15B		
66	**AWRF Aeration Basins**					
67	Remove metal stairs on NW corner of A Basin #4	Yes	Yes	Yes		
68	Remove diffuser piping, anchors and supports in 2 aeration basins (2 basins are part of alternate #4)	-$4,800	Yes	Yes		
69	Salvage stainless steel couplings	Yes	No	Yes		
70	**AWRF Filters**					
71	Remove ALL filter influent troughs in Filters 1-8	Yes	$443	Yes		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **02A - Demolition**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Penhall Company	Dickens Quality Demolition	BCS Demolition		
		Josh Hernandez	Craig Snider	Cameron Morris		
		949-562-5935	602-361-5173	480-620-0491		
		jhernandez@penhall.com	csnider@dickensquality.com	cjmorris@bcsdemo.com		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$984,603**	**$1,082,255**	**$1,133,607**		
72	Remove 4 decks as shown on D-1.14 in Filters 2,3,6 & 7	Yes	$26,040	Yes		
73	Remove Filter influent and BW Gates	WC 11K	WC 11K	WC 11K		
74	Salvage and relocate anthracite media from 1-8 to 9-16 as needed	WC 11K	WC 11K	WC 11K		
75	Remove ALL Filter underdrains in Filters 1-8	Yes	$5,409	Yes		
76	Sawcut & remove (3) 12'x10' wall openings per Q&A 80	Yes	Yes	Yes		
77	Sawcut & remove 2'x4'' Filter influent wall openings	Yes	Yes	Yes		
78	Sawcut & remove (15) walls 6'x8' between filters 1-8 to allow for new concrete walls to be built as shown on Structural drawings	Yes	$14,702	$10,500		
79	Remove grout behind 6'x8' wall openings at 8 locations	Yes	$24,175	$391,400		
80	Delete grout behind (2) 6'x8' wall openings between filters 1 & 2	-$6,097	-$6,044	-$97,850		
81	Remove grout in Filters 2-8 (Filter 1 removed from price)	-$11,323	Yes	Yes		
82	Remove FRP overflow trough per Q&A 105	Yes	$750	$750		
83	Remove steel platform above filters 2&3 per Q&A 106	Yes	$6,640	$500		
84	Cap and abandon in place 42" PCCP line in UV splitter box	WC 03A/15A	WC 03A/15A	WC 03A/15A		
85	Sawcut and remove 4'x5' concrete wall to splitter box per note 3 on section E	Yes	Yes	Yes		
86	Cap and abandon in place 30" DIP line in UV splitter box	WC 03A/15A	WC 03A/15A	WC 03A/15A		
87	Core (36) 6" diameter cores at 3 new sumps per Detail 5 on S-1.70	Yes	$4,154	$4,000		
88	Sawcut 4'x4' slab at 3 locations for new sumps	Yes	$4,449	$9,000		
89	Sawcut and remove 4'x5' concrete wall for BW channel access x 2	$10,000	$10,000	$10,000		
90	**OWRF Site**					
91	Remove 12" Sewer for new MH @ SW corner of existing Blower Bldg.	WC 02B	WC 02B	WC 02B		
92	~~Remove asphalt paving and curb around old Admin Bldg.~~	~~WC 02B~~	~~WC 02B~~	~~WC 02B~~		
93	~~Relocate 3 light pole bases around old Admin Bldg. and Dewatering PS~~	~~WC 03A/16A~~	~~WC 03A/16A~~	~~WC 03A/16A~~		
94	~~Relocate electrical conduit around old Admin Bldg. and Dewatering PS~~	~~WC 16A~~	~~WC 16A~~	~~WC 16A~~		
95	Remove existing curb north of Filters 1 & 2	WC 02B	WC 02B	WC 02B		
96	Determ and pull wire from ductbank south of RWPS	WC 16A	WC 16A	WC 16A		
97	Remove ductbank south of RWPS	WC 02B	WC 02B	WC 02B		
98	Remove 48" OF pipe south of RWPS	WC 02B	WC 02B	WC 02B		
99	Abandon and bury west reservoir structure per D-3.05	WC 02B	WC 02B	WC 02B		
100	Sawcut and cap 24" influent headers per D-3.06	WC 02B	WC 02B	WC 02B		
101	Remove & cap 8" NPW and air line south of anoxic basin.	WC 02B	WC 02B	WC 02B		
102	Remove 24" BFVs at reservoir inlet chamber	WC 11K	WC 11K	WC 11K		
103	**OWRF CCB**					
104	Core (11) 6" cores for new beam S-3.60	Yes	$1,270	$2,000		
105	Sawcut & remove 18"x13' opening in CCB deck	Yes	Yes	Yes		
106	**OWRF Filters 1 & 2**					
107	Remove flow metering vault north of filters	Yes	Yes	Yes		
108	Remove flow meter in box north of filters	WC 15A	WC 15A	WC 15A		
109	Remove all concrete as shown on the drawings	Yes	Yes	Yes		
110	Remove all equipment, media, conduits, piping within the demolition limits of Filters 1 & 2	Yes	Yes	$27,000		
111	Remove concrete stairs	Yes	Yes	Yes		
112	Remove slide gates	WC 11K	WC 11K	WC 11K		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **02A - Demolition**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Penhall Company	Dickens Quality Demolition	BCS Demolition		
		Josh Hernandez	Craig Snider	Cameron Morris		
		949-562-5935	602-361-5173	480-620-0491		
		jhernandez@penhall.com	csnider@dickensquality.com	cjmorris@bcsdemo.com		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$984,603**	**$1,082,255**	**$1,133,607**		
113	**OWRF Aeration Basins**					
114	Sawcut and remove foam (16) ports below deck	Yes	Yes	No		
115	Sawcut and remove (8) openings on west wall	Yes	Yes	Yes		
116	Sawcut and remove (16) 18"x24" opening in the west deck per S-3.01	Yes	Yes	Yes		
117	Core (35) 6" cores in the west deck per S-3.01	Yes	Yes	$4,000		
118	Remove SST air line and supports in south channel of aeration basins and into splitter box channels	WC 15A	WC 15A	WC 15A		
119	Sawcut and remove (8) wall openings on east dividing wall	Yes	Yes	No		
120	Sawcut and remove south effluent channel and pipe chase	Yes	Yes	Yes		
121	Remove aluminum handrail on south channel wall	Yes	Yes	Yes		
122	Remove NPW piping, pipe supports & spray nozzles throughout aeration basins	WC 15A	WC 15A	WC 15A		
123	**OWRF Anoxic Basins**					
124	Remove slide/sluice gates throughout structure	WC 11K	WC 11K	WC 11K		
125	Sawcut 6'x2' opening on north deck	Yes	Yes	Yes		
126	Remove (8) vertical mixers	WC 11K	WC 11K	WC 11K		
127	Remove 8" mud valves	WC 15A	WC 15A	WC 15A		
128	Remove IMLR deck and wall and all pipe, conduits, appurtenances, etc. located on wall	Yes	Yes	Yes		
129	Remove 24" RAS Piping	WC 02B/15A	WC 02B/15A	WC 02B/15A		
130	Remove 36" Flow Meter in vault	WC 15A	WC 15A	WC 15A		
131	Remove metal stairs, handrail and concrete pad	Yes	Yes	Yes		
132	Remove concrete T wall separating east/west anoxic basins north of the IMLR discharge channel	Yes	Yes	Yes		
133	Salvage and reinstall IMLR pump seal water assembly	WC 15A	WC 15A	WC 15A		
134	Sawcut 24" RAS Piping 6" below RAS 90	WC 15A	WC 15A	WC 15A		
135	**OWRF Clarifier Splitter Box**					
136	Remove mixers	WC 11K	WC 11K	WC 11K		
137	Remove grating and supports	Yes	Yes	Yes		
138	Remove slide/sluice/weir gates	WC 11K	WC 11K	WC 11K		
139	Remove mud valves	WC 1A	WC 1A	WC 1A		
140	**OWRF Clarifiers 1 & 2**					
141	Remove walkway, stairs, handrail, suction piping and clarifier mechanisms	WC 11K	WC 11K	WC 11K		
142	Remove 30" pipe from effluent trough	WC 15A	WC 15A	WC 15A		
143	Remove effluent trough and concrete beams	Yes	Yes	Yes		
144	Remove 8" drain plug valve	WC 02B	WC 02B	WC 02B		
145	Remove concrete grout topping	Yes	Yes	Yes		
146	Remove scum box	WC 11K	WC 11K	WC 11K		
147	Remove influent riser piping	WC 11K	WC 11K	WC 11K		
148	**OWRF RAS/WAS PS**					
149	Remove all pipe, metal pipe supports, valves, etc.	WC 15A	WC 15A	WC 15A		
150	Remove all pumps	WC 11K	WC 11K	WC 11K		
151	Remove concrete pipe/equipment supports	Yes	Yes	$4,250		
152	Demo hatch and bush concrete for replacement assume 8" around perimeter (bar to remain in place)	Yes	Yes	$2,500		
153	Haul off demolished materials removed by WC 02A	Yes	Yes	Yes		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **02A - Demolition**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Penhall Company	Dickens Quality Demolition	BCS Demolition		
		Josh Hernandez	Craig Snider	Cameron Morris		
		949-562-5935	602-361-5173	480-620-0491		
		jhernandez@penhall.com	csnider@dickensquality.com	cjmorris@bcsdemo.com		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$984,603**	**$1,082,255**	**$1,133,607**		
154	Unloading & storage	Yes	Yes	Yes		
155	Temporary protection of structures and equipment staying in place	Yes	Yes	Yes		
156	**GMP 1 Early Demolition @ AWRF Filters**	-$189,512	-$189,512	-$189,512		
157	COVID-19 Scope Items					
158	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes	Yes	Yes		
159	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes	Yes	Yes		
160	All personnel onsite must maintain 6'0" spacing between personnel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes	Yes	Yes		
161	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes	Yes	Yes		
162	All tools and equipment used must be sanitized each day.	Yes	Yes	Yes		
163	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes	Yes	Yes		
164	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes	Yes	Yes		
165	Personnel are not allowed to carpool to the site or while onsite.	Yes	Yes	Yes		
166	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the appropriate testing and quarantine protocols.	Yes	Yes	Yes		
167						
168	End of Scope					
169	Bond/CDI Cost	$19,306	$8,056	$22,228		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$984,603**	**$1,082,255**	**$1,133,607**		

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BID PROPOSAL

Date 4/21/21

Bid Proposal of * Penhall Company (hereinafter called "Bidder")

a ** Demolition Company organized and existing under the laws of the State of AZ.

Penhall Company
3301 E Wood St
Phoenix, AZ 85040

(INSERT OWNER'S ADDRESS)
TO: McCarthy Building Companies, Inc.
6225 North 24th Street, Suite 200
Phoenix, Arizona 85016

The Bidder, in compliance with your Invitation for Bids for the construction of Chandler Water Reclamation Facility Improvements having examined the Contract Documents entitled City of Chandler, Chandler WRF Improvements Project, and other related documents and being familiar with the site of the proposed work, and with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, and the progress of work to date, if any, hereby proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, perform all work, provide all services, and to construct all work in accordance with the Contract Documents set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required.

The Bidder shall attach a copy of Bidders' detailed estimate to its Bid Proposal. This estimate shall identify all quantities shown in the documents or anticipated along with corresponding labor, material and equipment pricing.

After Bid Proposals are received, tabulated, and evaluated by McCarthy, said Bidder agrees to meet with McCarthy for the purpose of determining any duplications, omissions, or mutually agreed bid adjustments. For these meetings, the Bidder agrees to provide a complete, detailed cost breakdown; a list of all sub-subcontractors proposed for use in the work; and a list of all items, materials and their manufacturers proposed for use in the work.

The Bidder, if awarded a Subcontract, agrees to commence work and to fully complete its Work in accordance with a schedule to be established in collaboration with McCarthy under the provisions of the Additional Subcontractor Conditions of the Specifications.

The Bidder acknowledges receipt of the following Addenda:

City of Chandler- Chandler Water Reclamation Facility- Improvements Project- GMP 2.

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BASE BID:

The Bidder agrees to perform all listed on Penhall's Proposal (herein insert the title of the Work Category as it appears in the Additional Subcontractor Conditions) Work for Work Category No. _____, as described in the Contract Documents, for the Lump Sum of _____ _____ DOLLARS ($ 1,369,146.68).

BID BREAKDOWN:

Airport WRF Total Amount $_____

See proposal breakout below. Base work category value is $1,150,529.08. Above value of $1,369,146.68 includes cost for alternates that are not included in total GMP 2 amount.

- Aeration Basin $_____.
- Blower Piping $_____.
- Blower Ductbank $_____.
- Filters $_____.
- Maintenance Bldg $_____.

Ocotillo WRF Total Amount $_____

- Aeration/Anoxic $_____.
- RAS/WAS PS $_____.
- Clarifiers 1& 2 $_____.
- Filters $_____..
- MCC Replacement $_____..
- Reservoir $_____..
- Roads/Sitework $_____..

Performance & Payment Bond Cost *(If Applicable)* $ 17,021.00 estimate

Total Subcontract Amount $ $1,167,550.08

The name of the proposed Bonding Company is Alliant Insurance Services, Inc.

Bond rate 2 % estimate

All applicable taxes, except sales and use taxes on materials and equipment which are affixed and made a part of the real estate of the Project, are included in the above Base Bid. Bidder agrees that this Bid Proposal shall be good and may not be withdrawn unless McCarthy does not send Bidder a Subcontract within one hundred ~~twenty (160) calendar days~~ fifty (150) calendar days after the opening date of Bid Proposals.

(Amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

ALTERNATES:

The Bidder further agrees that if any or all of the Alternates listed and described below are incorporated and accepted within sixty (60) calendar days after receipt of a Subcontract from McCarthy, the Bidder will adjust its Subcontract by the amount indicated opposite the Alternates listed below.

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ALTERNATE NO. 1: Filter Disc in Basin 7 Installation:

ADD the sum of $_____.

ALTERNATE NO. 2: Clarifier 3 Rehabilitation

ADD the sum of $61,833,61.

ALTERNATE NO. 3: Sludge Holding Tank and Blower Bldg No. 2

ADD the sum of $_____.

ALTERNATE NO. 4: Removal/Replacement of Diffusers in 2 Aeration Basins

ADD the sum of $139,762.99.

ALTERNATE NO. 5:_____

ADD the sum of $_____.

CHANGE ORDER RATES: (Add separate sheet as needed)

Markup % (on rates and material): _____.

Position: _____ Rate: _____.

Position: _____ Rate: _____.

Equipment: _____ Rate: _____.

Equipment: _____ Rate: _____.

SAFETY RECORDS

The Bidder certifies to the following Experience Modification Rates (EMR) and Incidence Rates for the three (3) most recent years:

	Year 2018	Year 2019	Year 2020
1. Compensation Experience Modification Rate:	.95	.87	.70
2. Incidence Rate:			
(a) Number of hours employees worked in the year.	2,658,794	2,453,712	2,247,921
(b) Number of cases defined as recordable, from the OSHA Form 300 Log.	8	6	4
(c) Total Recordable Incidence Rate = (b) x (200,000 hours) / Hours Worked (a)	1.73	1.71	1.33

The Bidder understands that McCarthy reserves the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

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SELECT AS APPROPRIATE

☒ The Bidder has completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program; OR

☐ The Bidder has not completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program because the Bidder has provided the Form and all such information to McCarthy in the past 12 months for the following project:

_____ Project, which bid on: _____.

RESPONSIVE BID REQUIREMENTS:

DO NOT ENCLOSE YOUR STANDARD TERMS AND CONDITIONS

If any exceptions are taken to the requirements of this Proposal form, attach a separate sheet listing those exceptions, stating the sections and paragraphs and the specific exception.	(initials)
BB	
In submitting this proposal, the Bidder certifies that this bid is valid for 150 calendar days.	(initials)
BB	
In submitting this Proposal as described herein, we agree to complete the work in accordance with the included Preliminary Construction Sequence.	(initials)
BB	
In submitting this Proposal, the Bidder certifies that all cost for extended warranties to start on the date of Substantial Completion is included.	(initials)
BB	
In submitting this proposal as described herein, we confirm that we have received, reviewed and agree to all commercial terms stated in the McCarthy Subcontract and Purchase Order Agreement. Any exception taken to the commercial terms stated in these Agreements must be listed on a separate sheet noting the article or paragraph and the specific exception. ***Bidders attached Standard Terms and Conditions will not be acknowledged or accepted as part of any given bid.***	(initials)
BB	
In submitting this proposal as described herein, the Bidder certifies that this bid is coordinated based on a complete set of documents and that there will be no claims for change order based on the assertion that the Bidder did not have a complete set of Bidding Documents.	(initials)
BB	
In submitting this proposal, the Bidder certifies that they have included all spare parts, training, O & M Manuals, shop drawings and administration costs as associated to comply with the requirements of the specifications and as listed for their scope of work.	(initials)
BB	
A bid will be considered non-responsive if the Subcontractor Pre-Qualification Form is not completed as part of the Bid Form **(or on file at McCarthy office)**.	(initials)
BB	
The Bidder, by submitting their bid, represents that they have read and understand the scope requirements of the Bidding Documents.	(initials)
BB	
The Bidder certifies that any proposed materials in this scope of work meet or exceeds the requirements stated in the specifications unless noted otherwise within this proposal.	(initials)
BB	
The bidder certifies that the price listed in this bid is a firm Price through the final delivery of the materials proposed herein, and that no material escalation will be accepted as part of this proposal.	BB (initials)

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Within fifteen (10) days after receipt by the Bidder from McCarthy of the Subcontract or Purchase Order, the Bidder will execute and return to McCarthy said Subcontract or Purchase Order and if notified from McCarthy that Bidder is not to be enrolled in McCarthy's Contractor Default Insurance Program, deliver to McCarthy Performance and Labor and Material Payment Bonds for the Subcontract or a Supply Contract Bond for the Purchase Order, or the difference between the amount of the bid and such larger amount for which McCarthy may subcontract with another party to perform the work covered by said bid, together with all court costs, all attorney fees and all other expense of recovery, all of which shall not exceed the Bid Security attached in the amount of 15% of the bid, will become the property of McCarthy. The bonds shall name McCarthy as Obligee.

If an Individual:

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Partnership:

Authorized Signature: _____

Name (print): _____

Email: _____

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Corporation:

Authorized Signature: DocuSigned by: Brian Berger 2B1226C7047945...

Name (print): Brian Berger

Email: bberger@penhall.com

Title: Sr. Vice President

Business Address: 7501 Esters Blvd Ste 150
Irving, TX 75063

Telephone 817-796-7150

Contractor License Number: ROC084469/ ROC084470

General Liability Insurance Carrier (not the agent): American Zurich Insurance

*Please attach a sample certificate of insurance and current W9 form to your bid.

PENHALL COMPANY

Concrete Sawing, Drilling, Scanning and Breaking

PROPOSAL

Date:	4/19/2021	**Phone:**	602.320.7837
Attention:	Ben Whitlock	**Fax:**	N/A
Company:	McCarthy	**Email:**	bwhitlock@mccarthy.com
Re:	**Chandler WRF Improvements**		

Thank you for the opportunity to submit this proposal for your consideration. I have listed below a scope of work outlining what is included in the quoted price. Please feel free to contact me with any questions. **Penhall Company** proposes to furnish labor and equipment to:

AWRF Aeration Basins	
Remove metal stairs on NW corner of A Basin #4	Yes
Remove diffuser piping, anchors, and supports in 2 aeration basins (2 basins are part of alternate #4)	Yes
Salvage stainless steel couplings	Yes

AWRF Filters	
Remove **ALL** filter influent troughs in **Filters 1-8**	Yes
Remove 4 decks as shown on D-1.14 in Filters 2,3,6 & 7	Yes

Remove **ALL** Filter underdrains in **Filters 1-8**	Yes
Sawcut & remove **(3) 12'x10**' wall openings per Q&A 80	Yes
Sawcut & remove 2'x4'' Filter influent wall openings	Yes
Sawcut & remove (**12**) walls **6'x8'** between filters 1-8 to allow for new concrete walls to be built as shown on Structural drawings	Yes
Remove grout behind **6'x8'** wall openings at 8 locations	Yes
Remove Filter underdrains and grout in **ALL** Filters 1-8 (no surface treatment, rough finish after grout removal)	Yes
Remove FRP overflow trough per Q&A 105	Yes
Remove steel platform above filters 2&3 per Q&A 106	Yes

Review RFI Responses	
Sawcut and remove 4'x5' concrete wall to splitter box per note 3 on section E	Yes
Core (36) 6" diameter cores at 3 new sumps per Detail 5 on S-1.70	Yes
(3) 4x4 Openings per Sheet, S-1.70 Detail 5	Yes
OWRF CCB	
Core (11) 6" cores for new beam S-3.60	Yes
Sawcut & remove 18"x13' opening in CCB deck	Yes
OWRF Filters 1 & 2	
Remove flow metering vault north of filters	Yes
Remove all concrete as shown on the drawings	Yes
Remove all equipment, media, conduits, piping within the demolition limits of Filters 1 & 2	Yes
Remove concrete stairs	Yes

OWRF Aeration Basins	
Sawcut and remove foam (16) ports below deck	Yes

Sawcut and remove (8) openings on west wall	Yes
Sawcut and remove (16) 18"x24" opening in the west deck per S-3.01	Yes
Core (35) 6" cores in the west deck per S-3.01	Yes
Sawcut and remove (8) wall openings on east dividing wall	Yes
Sawcut and remove south effluent channel and pipe chase	Yes
Remove aluminum handrail on south channel wall	Yes

OWRF Anoxic Basins	
Sawcut 6'x2' opening on north deck	Yes
Remove IMLR deck and wall and all pipe, conduits, appurtenances, etc. located on wall	Yes
Remove metal stairs, handrail, and concrete pad	Yes
Remove concrete T wall separating east/west anoxic basins north of the IMLR discharge channel	Yes
OWRF Clarifier Splitter Box	
Remove grating and supports	Yes

OWRF Clarifiers 1 & 2	
Remove effluent trough and concrete beams	Yes
Remove concrete grout topping (1/2" amplitude tolerance, no surface treatment, rough finish after grout removal)	Yes

OWRF RAS/WAS PS	
Remove concrete pipe/equipment supports	Yes
Demo hatch	Yes

Alternate #2 - Clarifier 3	
Base Bid	**$61,833.61**

Alternate #4 - 2 Diffuser Rehab	
Base Bid	**$139,762.99**

Bond Estimate for Base Bid, Alt #2, & Alt #4 **$17,021.00**

DESCRIPTION	Qnty	UoM	THICKNESS/Dia.	SF/ LF		AMOUNT
Total Work Category Package Value	1	LS				**$1,150,529.08**
Alternate #2- Clarifier 3, Remove 2" Grout Topping/ Sheet D-3.19, Keyed Note #4	1	LS				**$61,833.61**
Alternate #4- 2 Diffuser Rehab	1	LS				**$139,762.99**
TOTAL: BASE BID, ALT #2 & ALT #4, & Bond Estimate						**$1,369,146.68**

GPR Scanning of the concrete is recommended and is available from Penhall for an additional charge of $185.00/hr. Hourly rate will be charged for all time on site and travel from and to our local branch office. Orientation, badging and drug testing, parking fees, permitting, utility location, call before you dig, temporary walls and barricades, bonding, liquidated damages, retainage, layout, cleaning and power washing are all excluded. The price is based on one mobilization only and continuous, clear, and unobstructed access to the work. If the scope changes or quantity, dimensions or thickness exceed those qualified herein, additional charges will apply. The Proposal Price does not include sales tax, use tax, excise tax, business tax, or other similar taxes or duties. Customer shall pay all such taxes in addition to the Proposal Price, or, alternatively, shall provide Penhall with acceptable proof of tax exemption. Customer understands and agrees that Penhall's Standard Terms and Conditions (which are available on Penhall's website (www.penhall.com/us/standard-terms-conditions) or by request) are incorporated by reference into this Proposal and shall apply, in addition to the terms of this Proposal, to all transactions between Customer and Penhall related to this Proposal. A 4.3% Environmental Fee will be added to all invoices.

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **02B - Earthwork & Yard Pipe**

GMP Date: **5/4/2021 Rev 6/21/2021**

COMPANY INFORMATION		**McCarthy**				
		Joe Kilgallen				
		480-364-1032				
		Jkilgallen@mccarthy.com				
TOTAL WORK CATEGORY PACKAGE VALUE		**$3,440,494**				
MCCARTHY SUBCONTRACT & FRONT END TERMS						
1	Compliant with McCarthy Front Ends	Yes				
2	Bid Submitted on McCarthy Bid Form	N/A				
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	N/A				
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing. (The date on the letter provided should be within the last 30 days and the letter should include the status of their line of credit.)	Yes				
5	Surety Company	Allianz-Starr				
6	Surety AM Best Rating (Must be A- or Better)	A+				
7	AM Best Financial Size X($500M to $750M) or higher	Yes				
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	Yes				
9	Bond/CDI Cost	0.000%				
10	Included Insurance Requirements (Per Matrix)	Yes				
11	GL Insurance Company Name	Allianz-Starr				
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	A+				
13	PRL Insurance (If required by the Front Ends)	Yes				
14	Pollution Insurance (If required by the Front Ends)	Yes				
15	Tier 1 Approved	Yes				
16	Tier 2 Approved	Yes				
17	Safety Items:	Yes				
18	OSHA Recordable Incident Rate (Current)	0.39				
19	Agrees to comply with PPE requirements including 100% glove policy	Yes				
20	Acknowledges updated ladder policy (platform ladders)	Yes				
21	Task Hazard Analysis included for all tasks	Yes				
22	Tie-off above 6' required	Yes				
23	Includes Hoisting for Sub's Own Work Scope	Yes				
24	Acknowledges Soils Report	Yes				
25	Acknowledges Addenda	Yes				
26	Hold Bid for 150 Days	Yes				
27	Pricing good for the duration of the project	Yes				
28	Sales Tax Included	N/A				
29	**COVID-19 Market Questions**					
30	How has your work program been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No				
31	Have you had any future work opportunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No				
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No				
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No				
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No				
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No				
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No				
37	Do you have any overseas suppliers that may be impeding your supply chain?	No				

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **02B - Earthwork & Yard Pipe**

GMP Date: **5/4/2021 Rev 6/21/2021**

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		Jkilgallen@mccarthy.com				
TOTAL WORK CATEGORY PACKAGE VALUE		**$3,440,494**				
38						
39	Per Plans & Specifications	Yes				
40	Division 1 as it relates to this scope of work	Yes				
41	01414 - Earthmoving and Dust Control	Yes				
42	02050 - Demolitions	Yes				
43	02100 - Site Preparations	Yes				
44	02150 - Shoring	Yes				
45	02315 - Earthwork, Excavation, and Backfill	Yes				
46	02318 - Crushed Stone and Gravel	Yes				
47	02319 - Riprap	Yes				
48	02371 - Filter Fabric for Rip Rap Channels	Yes				
49	02500 - Asphalt Pavement	Yes				
50	02580 - Pavement Markings	Yes				
51	02751 - Portland Cement Concrete Paving	Yes				
52	03100 - Concrete Formwork	Yes				
53	03200 - Concrete Reinforcement	Yes				
54	03251 - Concrete Joints	Yes				
55	03300 - Cast-in-Place Concrete	Yes				
56	03600 - Grout	Yes				
57	11295 - Hydraulic Valves	Yes				
58	15050 - Piping Systems	Yes				
59	15051 - Buried Piping Installation	Yes				
60	15061 - Ductile Iron Pipe	Yes				
61	15064 - Copper Pipe	Yes				
62	15065 - Thermoplastic Pipe and Accessories	Yes				
63	15067 - Fiberglass Reinforced Plastic Pipe and Accessories	Yes				
64	15120 - Piping Specialties and Accessories	Yes				
Scope of Work						
Base Bid:		$3,440,494				
65	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 02B-Civil Earthwork & Yard Pipe, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes				
66	Check to Spec completed and submitted to McCarthy	Yes				
67	1 year warranty from Final Acceptance (Aug 2023)	Yes				
68	**Demolition, Make-ready, temporary facilities**					
69	Clear and Grub	N/A				
70	Sawcut and remove asphalt/pavement	Yes				
71	Sawcut and remove curb and sidewalk	Yes				
72	Sawcut and cap underground wet utilities	Yes				
73	Sawcut and demo ductbank at Ocotillo Reservoir - Electrical to Terminate	Yes				
74	Light pole and foundation removal - Airport	Yes				
75	Concrete bollard removal	Yes				
76	Electrical ductbank removal	Yes				

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **02B - Earthwork & Yard Pipe**

GMP Date: **5/4/2021 Rev 6/21/2021**

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77	Rip rap removal	Yes				
78	Backfill of excavations left behind by demolition subcontractor including, but not limited to the following:	Yes				
79	Disc Filters - OWRF	Yes				
80	Asphalt Pavement and ABC subbase	Yes				
81	Hold Asphalt pricing through 5/31/2023.	Yes				
82	Pavement Markings	Yes				
83	Concrete utility adjustments	Yes				
84	Excavation, subgrade prep, fine grade +/- 0.05', and backfill for all site concrete including, but not limited to, curb, valley gutter, curb & gutter, bollards, and sidewalk.	Yes				
85	Site concrete including, but not limited to, curb, curb & gutter, valley gutter bollards, and sidewalk.	Yes				
86	Sitework concrete to be installed by applicator with minimum of 2 years' experience.	Yes				
87	Replace disturbed rip rap as required for the installation of yard piping and earthwork scope.	Yes				
88	Maintain temporary roadways, laydown areas	Yes				
89	Place 1-1/2" of temp bituminous pavement immediately after backfilling trenches in paved roadways which are to be retained for permanent use	Yes				
90	Develop SWPPP manual and obtain permits	Yes				
91	Install and maintain SWPPP BMP's as required	Yes				
92	Track-out Pad installation, maintenance, and removal	Yes				
93	Underground pipe removal & abandonment as required	Yes				
94	Place pre-emergent herbicide according to MAG; prior to installation of decomposed granite (DG). DG depth to be a minimum of 2".	Yes				
95	Asphalt & Site Concrete removal and replacement as required for the installation of yard piping.	Yes				
96	Sweep all paved roads by mechanical sweeper	Yes, while onsite				
97	**Excavation, fine grade, & backfill**					
98	Provide all excavation, fine grading, dental excavation, CLSM backfill & structure backfill as required at the following structures, including, but not limited to:	Yes				
99	Maintenance Building AWRF	Yes				
100	Blower Building/Pipe Supports AWRF	Yes				
~~101~~	~~Sludge Holding Tanks / Blower Building OWRF~~	~~Yes~~				
102	Disc Filters OWRF	Yes				
103	Clarifier 1, 2, ~~3~~ Rehab OWRF	Yes				
104	A-Basin OWRF	Yes				
105	Reservoir OWRF	Yes				
106	Other areas as required for relocations and make-ready.	Yes				
107	Toe of excavation shall start 5' outside of the concrete footings	Yes				
108	Grade structure excavations to +0.0 to -0.05'	Yes				
109	Engineered shop drawings for excavation stamped by Registered Professional Engineer licensed in the State of Arizona	Yes				
110	Include CLSM backfill for structures bearing on backfill zones	Yes				
111	Modifications to drainage areas and grading in associated areas	Yes				
112	Finish grade site to final contours shown on plans less the depth of landscaping finish course.	Yes				

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **02B - Earthwork & Yard Pipe**

GMP Date: **5/4/2021 Rev 6/21/2021**

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113	Conform to Section 701 of the Uniform Standard Specifications of Public Works Construction by the Maricopa Association of Government (MAG).	Yes				
114	On-site excavated material will be classified for use as backfill material. All materials should be screened and free of organics, debris, rubble and material greater than 3 inches in size.	Yes				
115	Provide grading and paving as required at the following structures, including, but not limited to:	Yes				
116	Maintenance Building AWRF	Yes				
117	Blower Building/Pipe Supports AWRF	Yes				
118	Filters Structure AWRF	Yes				
~~119~~	~~Sludge Holding Tanks / Blower Building OWRF~~	~~Yes~~				
120	Disc Filters OWRF	Yes				
121	Clarifier 1, 2, ~~3~~ Rehab OWRF	Yes				
122	A-Basin OWRF	Yes				
123	Reservoir OWRF	Yes				
124	Other areas as required for relocations and make-ready.	Yes				
125	Berm excavations per OSHA and to ensure no rainwater is able to enter the excavation	Yes				
126	Install and maintain temporary fencing around excavations while onsite. Remove once excavation is backfilled.	Yes				
127	Monitoring, inspections, and maintenance of all shoring and excavation sloping until excavations are backfilled	Yes				
128	Caliche, which is a calcareous soil, is a common subsurface condition in the Phoenix area and may exist within the limits of this project. Caliche varies in density and in strength. Caliche soils contain gravel and particles of rock cemented together by calcium carbonate. There will be no cost adjustment if Caliche is encountered on the project.	Yes				
129	Earthwork at new sump pumps in Filter Basin at AWRF	By WC 02A				
130	Haul and dispose of all spoils material offsite.	Yes				
131	**Shoring**	Yes				
132	Shoring shall be installed a minimum of 5' from the outside face of the concrete structure or utility. It is the responsibility of this subcontractor, through a review of the contract documents, to determine which excavations shall require shoring. Provide all sheeting/shoring required to protect existing structures, pipes, electrical, and facilities including but not limited to:	Yes				
133	Reservoir - OWRF	Yes				
134	Disc Filters - OWRF	Yes				
135	Remove all temporary shoring/sheeting installed once no longer required.	Yes, Only top 5'				
136	Install and maintain safety cable and toe board at shoring areas while onsite	Yes				
137	Spoil haul-off from Shoring	Yes				
138	**Yard Piping**					
139	Remove the following yard pipe systems, including, but not limited to:	Yes				
140	08" DIP - NPW	Yes				
141	08" SS - Air	Yes				
142	48" RCP - Effluent Overflow	Yes				
143	24" DIP - Reservoir Lines	Yes				
144	Install, protect, and/or relocate the following yard pipe systems, including, but not limited to:	Yes				
145	4" PVC SS to Maintenance Building - AWRF	Yes				

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **02B - Earthwork & Yard Pipe**

GMP Date: **5/4/2021 Rev 6/21/2021**

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146	6" DIP PW to Maintenance Building - AWRF	Yes				
147	1.5" CU PW to Maintenance Building - AWRF	Yes				
148	12" DIP BWW from Filters Structure - AWRF	Yes				
~~149~~	~~06" DIP NPW to Sludge Holding Tanks - OWRF~~	~~Yes~~				
~~150~~	~~18" DIP Dewatering from Sludge Holding Tanks Structure - OWRF~~	~~Yes~~				
~~151~~	~~12" DIP Overflow from Sludge Holding Tanks Structure - OWRF~~	~~Yes~~				
~~152~~	~~12" DIP WAS from Sludge Holding Tanks Structure - OWRF~~	~~Yes~~				
~~153~~	~~12" DIP Drain from Sludge Holding Tanks Structure - OWRF~~	~~Yes~~				
~~154~~	~~36" FRP Foul Air from Sludge Holding Tanks Structure - OWRF - Dig/Bedding/Backfill Only~~	~~Yes~~				
155	06" DIP PW to Blower Building - OWRF	Yes				
156	01" CU PW to EVAP Cooler - OWRF	Yes				
157	03" PVC Backwash/Solids Waste from Disc Filter Structure - OWRF	Yes				
158	04" PVC Filter Waste from Disc Filter Structure - OWRF	Yes				
159	10" PVC Filter Backwash Drain from Disc Filter Structure - OWRF	Yes				
160	02" CU NPW - Disc Filters Reroute - OWRF	Yes				
161	08" DIP Tank Drain Plug Valve Replacement at Clarifier 1 - OWRF	Yes				
162	06" DIP NPW from A-Basin Structure - OWRF	Yes				
163	48" DIP RW from existing CCB to Reservoir - OWRF	Yes				
164	42" DIP Overflow from Reservoir to Retention Basin - OWRF	Yes				
165	Pipe material, coating, and lining per pipe schedule	Yes				
166	All ancillary yard piping additions and modifications	Yes				
167	Delineation between Process Mechanical and Yard Pipe shall be as follows:	Yes				
168	Yard Pipe shall provide all pipe/systems below grade and exterior to structures up to the penetration point of each structure. If the system continues (via pipe) into the structure, Process Mechanical shall provide the penetration (sleeve or wall pipe). If the system does not continue (via pipe) into the structure, Yard Pipe shall provide the penetration (sleeve, or wall pipe). If a pipe comes above grade before entering a structure, Yard Pipe shall provide the pipe system up to the first flange above grade and Process Mechanical shall provide the rest of the system.	Yes				
169	All bolt kits at the exterior side of a penetration will be provided by Yard Pipe.	Yes				
170	For exceptions to the above, reference Process/Yard/Plumbing Delineation Drawings.	Yes				
171	Install all yard hydrants and applicable appurtenances	By WC 15A				
172	Pipe testing and disinfection	Yes				
173	Pipe encasements	By WC 03A				
174	Pipe supports, restraints and thrust blocks.	By WC 03A & 15A				
175	Plastic and magnetic tracer tape	Yes				
176	Pipe Bedding to be MAG ABC and extend from 4" below pipe to 1' above pipe	Yes				
177	All other encasements per MAG 404-3	By WC 03A				
178	CLSM backfill all pipe as required	Yes				
179	MOPOs as required for utility tie-ins	Yes				
180	Precast Concrete Structures as required in contract drawings	Yes				
181	All manholes to be tested for watertight-ness	Yes				
182	Flexible joints to be provided between each pipe entering and exiting the manhole.	Yes				
183	Pipe trench paving	Yes				

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **02B - Earthwork & Yard Pipe**

GMP Date: **5/4/2021 Rev 6/21/2021**

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		Joe Kilgallen				
		480-364-1032				
		Jkilgallen@mccarthy.com				
TOTAL WORK CATEGORY PACKAGE VALUE		**$3,440,494**				
184	Haul and dispose of all spoils material offsite.	Yes				
185	Complete lay drawings for all work, including but not limited to pipe, fittings, valves, supports, etc.	Yes				
186	**General:**					
187	Full time onsite Project Manager and Superintendent	Yes				
188	Testing as required	Yes				
189	100% fall protection within 6' of 6' leading edge, including excavations	Yes				
190	All survey and layout required from control points established by CMAR	Yes				
191	Dust control for entire site while onsite. Includes acquisition, renewals, signage, maintenance and complete execution of the Maricopa County Dust Control Permit.	Yes				
192	Storm water pumping	Yes				
193	Pothole and locate all existing piping and utilities. Pothole at all points of crossing and connections to verify depths, material, and size	Yes				
194	All permits as required	Yes				
195	The cost of the temporary water will be paid by the Owner. All costs for distribution, storage, pumping, conveyance/placement, etc. shall be by this Subcontractor.	Yes				
196	Excavation Bank Maintenance	Yes				
197	Traffic control	Yes				
198	Included site orientation	Yes				
199	Included City of Chandler background check and badging	Yes				
200	Shipping shall be FOB jobsite	Yes				
201	Unloading & storage	Yes				
202	Temporary protection & enclosure	Yes				
203	Preventative maintenance	Yes				
204	O&M's per specification section 01730	Yes				
205	1 year warranty from Final Acceptance (July 2023)	Yes				
206	Training per the Contract Documents	Yes				
207	Manufactures Services	Yes				
208	Performance testing: Per Spec	Yes				
209	Erosion Repairs	Yes				
210	Utilities protection	Yes				
211	Curb & Sidewalk replacements	Yes				
212	Existing Utility adjustments	Yes				
213	COVID-19 Scope Items					
214	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes				
215	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes				
216	All personnel onsite must maintain 6'0" spacing between personnel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes				
217	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes				
218	All tools and equipment used must be sanitized each day.	Yes				
219	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes				

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Work Category: **02B - Earthwork & Yard Pipe**

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220	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes				
221	Personnel are not allowed to carpool to the site or while onsite.	Yes				
222	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the appropriate testing and quarantine protocols.	Yes				
223						
224	End of Scope					
225	Bond/CDI Cost	$0	$0	$0	$0	$0
	TOTAL WORK CATEGORY PACKAGE VALUE	**$3,440,494**	**$0**	**$0**	**$0**	**$0**

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
02B – Earthwork & Yard Pipe								
A - Blower Piping				**66,133**	**42,094**	**136**	**2,143**	**$110,507**
Demo Asphalt - Blower Bldg								
Sawcut Asphalt	128.0	LF	0.65				83	$83
Demo Asphalt	37.0	SY	16.20	356	243			$599
Haul & Dump Asphalt	1.0	LD	105.00				105	$105
Demo Concrete Curb - Blower Bldg								
Sawcut Concrete	3.0	EA	15.00				45	$45
Demo Concrete Curb	53.0	LF	11.63	356	261			$617
Haul & Dump Concrete	1.0	LD	155.00				155	$155
30"-Air Conc Pipe Suppt Ftgs - EW for Existing								
Structure Excavation	13.0	EA	1,244.89	9,943	6,240			$16,184
Structure Backfill	13.0	EA	1,411.30	11,152	7,195			$18,347
Subgrade Prep & Finegrade for Footings	13.0	EA	472.70	3,669	2,476			$6,145
Haul & Dump Spoils - YP	2.0	LD	195.00				390	$390
42"-Air Conc Pipe Suppt Ftgs - EW								
Structure Excavation	13.0	EA	622.58	4,972	3,121			$8,094
Structure Backfill	13.0	EA	705.81	5,577	3,599			$9,175
Subgrade Prep & Finegrade for Footings	13.0	EA	472.70	3,669	2,476			$6,145
Haul & Dump Spoils - YP	2.0	LD	195.00				390	$390
42"-Air Conc Pipe Suppt w/ HSS Columns Ftgs - EW								
Structure Excavation	12.0	EA	1,244.89	9,178	5,760			$14,939
Structure Backfill	12.0	EA	1,411.29	10,294	6,641			$16,936
Subgrade Prep & Finegrade for Footings	12.0	EA	472.57	3,386	2,285			$5,671
Haul & Dump Spoils - YP	5.0	LD	195.00				975	$975
Asphalt Paving Repairs - 4" AC / 6" ABC Blower								
Subgrade Prep	37.0	SY	13.77	337	173			$509
Place ABC	11.0	TN	46.31	337	173			$509
Finegrade ABC	37.0	SY	13.77	337	173			$509
Purchase ABC Subbase	11.0	TN	12.40			136		$136
Curb & Gutter Repairs- Blower Bldg								
Subgrade Prep & Finegrade for Curb	53.0	LF	17.83	564	381			$945
Backfill Against Curb	53.0	LF	17.14	564	344			$908
Site Finegrade - Blower Bldg								
SG Prep & Finegrade for DG	766.0	SY	2.60	1,442	554			$1,995
A - Filters				**43,572**	**33,238**	**22,542**	**18,706**	**$118,058**
Demo Asphalt - Filters								
Sawcut Asphalt	163.0	LF	0.65				106	$106
Demo Asphalt	55.0	SY	10.90	356	243			$599
Haul & Dump Asphalt	1.0	LD	105.00				105	$105
Demo Concrete Curb - Filters								
Sawcut Concrete	4.0	EA	15.00				60	$60
Demo Concrete Curb	77.0	LF	8.01	356	261			$617
Haul & Dump Concrete	1.0	LD	155.00				155	$155
Demo Bollards - Filters								
Demo Bollards	4.0	EA	227.65	564	346			$911
Haul & Dump Concrete	1.0	LD	155.00				155	$155
Demo Lightpoles - Filters								
Demo Lightpoles	1.0	EA	910.60	564	346			$911
Haul & Dump Lightpoles	1.0	LD	750.00				750	$750
Asphalt Paving Repairs - 4" AC / 6" ABC Filters								
Subgrade Prep	55.0	SY	9.26	337	173			$509
Place ABC	16.0	TN	31.84	337	173			$509
Finegrade ABC	55.0	SY	9.26	337	173			$509
Purchase ABC Subbase	16.0	TN	12.40			198		$198
Curb & Gutter Repairs- Filters								
Subgrade Prep & Finegrade for Curb	77.0	LF	12.27	564	381			$945
Backfill Against Curb	77.0	LF	11.79	564	344			$908
Earthwork - Filter Ext Slab								
Structure Scarify & Recompact - Sm	29.0	SY	30.60	538	349			$887
Structure Finegrade - Sm	29.0	SY	16.07	283	183			$466
Haul & Dump Spoils	1.0	LD	195.00				195	$195
Bldg Pad Excavation	13.0	CY	50.73	383	276			$660
Place ABC 4" - Filters Ext Slab								
Place ABC	7.0	TN	83.38	337	247			$584
Finegrade ABC	29.0	SY	20.13	337	247			$584
Purchase ABC Subbase	7.0	TN	12.40			87		$87
Site Finegrade - Filters								
SG Prep & Finegrade for DG	184.0	SY	4.24	564	217			$781
Remove 24" DIP Backwash - Filters								
Dig / Remove / Backfill	55.0	LF	282.48	8,832	6,705			$15,537
Install Fittings	2.0	EA	647.36	736	559			$1,295
Haul & Dump Pipe Demo	1.0	LD	750.00				750	$750
Purchase Pipe Material	1.0	LS	4,116.02			4,116		$4,116
Dewatering Demo Support	1.0	LS	750.00			750		$750
PW-02" CU - Filters								
Dig / Lay / Backfill	72.0	LF	41.58	1,766	1,228			$2,994

Estimate Detail

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Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
Install Fittings	13.0	EA	124.88	957	666			$1,623
Tie-in	1.0	EA	1,154.46	643	512			$1,154
Test Pipe	72.0	LF	4.76	224	84	35		$342
Haul & Dump Spoils - YP	1.0	LD	195.00				195	$195
Purchase Pipe Material	72.0	LF	21.84			1,572		$1,572
Purchase Sand Bedding	27.0	TN	13.65			369		$369
Certify Backflow Preventer	1.0	EA	250.00				250	$250
BW-12" DIP - Filters								
Dig / Lay / Backfill	72.0	LF	385.89	14,719	13,065			$27,784
Tie-in	2.0	EA	4,995.82	5,144	4,848			$9,992
Test Pipe	72.0	LF	4.36	206	77	31		$314
Purchase ABC Bedding	60.0	TN	12.40			744		$744
Haul & Dump Spoils - YP	3.0	LD	195.00				585	$585
Purchase Pipe Material	72.0	LF	203.33			14,640		$14,640
Core Existing Manhole & Filter Wall	2.0	EA	1,850.00				3,700	$3,700
Cap 12" DIP @ Filters	1.0	EA	609.58	322	287			$610
Potholing - Filters								
Potholing	26.0	EA	636.57	3,601	1,250		11,700	$16,551
A - General (Temp Power, Potholing)				**27,146**	**14,630**	**896**	**28,340**	**$71,012**
Temp Asphlat Millings Roadway - Airport								
Clean up Milling Area	1,528.0	TN	6.89	5,186	5,345			$10,531
Clean Streets / Sweeping								
Clean Streets / Sweeping - Airport	35.0	WK	570.00				19,950	$19,950
Dust Control Equipment								
Storm Water Prevention Plan - Airport	2,112.0	LF	5.10	1,757	621		8,390	$10,768
General Site Dust Control Equipment - Airport	240.0	DY	124.01	20,203	8,664	896		$29,763
A - Maintenance Building				**68,343**	**43,961**	**30,557**	**24,900**	**$167,760**
Demo Asphalt - Maint Bldg								
Sawcut Asphalt	453.0	LF	0.65				294	$294
Demo Asphalt	545.0	SY	4.51	1,422	1,038			$2,460
Haul & Dump Asphalt	8.0	LD	105.00				840	$840
Sawcut Asphalt Valley Gutter	245.0	LF	0.80				196	$196
Demo Asphalt - Valley Gutters	74.0	SY	16.62	711	519			$1,230
Haul & Dump Asphalt - Valley Gutter	1.0	LD	105.00				105	$105
Demo Concrete Curb - Maint Bldg								
Sawcut Concrete	4.0	EA	15.00				60	$60
Demo Concrete Curb	537.0	LF	8.02	2,489	1,817			$4,307
Haul & Dump Concrete	7.0	LD	155.00				1,085	$1,085
Road Ex & Haul Off - Maint Bldg								
Road Excavation	386.0	CY	8.52	1,913	1,377			$3,290
Haul & Dump Spoils - Site Ex	386.0	CY	16.67				6,435	$6,435
Asphalt Rdwy - 4"AC / 6" ABC Maint Bldg								
Subgrade Prep	1,542.0	SY	4.20	3,454	3,017			$6,471
Place ABC	523.0	TN	6.29	1,756	1,533			$3,290
Finegrade ABC	1,542.0	SY	4.20	3,454	3,017			$6,471
Purchase ABC Subbase	523.0	TN	12.40			6,485		$6,485
Earthwork - Maint Bldg								
Structure Scarify & Recompact - Sm	905.0	SY	5.90	3,242	2,100			$5,341
Structure Finegrade - Sm	905.0	SY	1.56	863	545			$1,408
Haul & Dump Spoils	38.0	LD	195.00				7,410	$7,410
Bldg Pad Excavation	456.0	CY	11.54	3,059	2,202			$5,261
Place ABC 4" - Maint Bldg								
Place ABC	202.0	TN	23.27	2,714	1,986			$4,701
Finegrade ABC	905.0	SY	3.88	2,027	1,484			$3,511
Purchase ABC Subbase	202.0	TN	12.40			2,505		$2,505
Valley Gutter C-233 - Maint Bldg								
SG Prep & Finegrade for Valley Gutter	128.0	SY	28.59	2,489	1,170			$3,660
Backfill Against Valley Gutter	128.0	SY	21.36	1,976	759			$2,734
Haul & Dump Spoils - Site Ex	19.0	CY	20.53				390	$390
Curb & Gutter - Maint Bldg								
Subgrade Prep	1,038.0	LF	5.82	3,488	2,552			$6,040
Backfill Against Curb	1,038.0	LF	2.60	1,953	750			$2,703
Misc Conc Pads - HVAC/BF Prev - Maint Bldg								
SG Prep & Finegrade	9.0	SY	116.14	711	334			$1,045
Backfill Against MISC Pads	9.0	SY	86.77	564	217			$781
Conc Sidewalk - Maint Bldg								
Subgrade Prep & Finegrade for Sidewalk	52.0	SY	20.10	711	334			$1,045
Backfill Against Sidewalk	52.0	SY	15.02	564	217			$781
Site Finegrade - Maint Bldg								
SG Prep & Finegrade for DG/Rip Rap	2,455.0	SY	2.60	4,618	1,772			$6,390
Rip Rap Replacement - Maint Bldg								
Install Rip Rap & Geofabric	229.0	TN	18.55	3,230	1,017			$4,247
Purchase Geofabric	338.0	SY	3.06			1,035		$1,035
Purchase Rip Rap	229.0	TN	42.35			9,698		$9,698
Excavate for Rip Rap	140.0	CY	21.20	2,257	710			$2,968
Haul & Dump Spoils - Site Ex	140.0	CY	13.93				1,950	$1,950
PW-01.5" CU - Maint Bldg								

Estimate Detail

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Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
Dig / Lay / Backfill	52.0	LF	41.58	1,276	887			$2,162
Install Fittings	19.0	EA	124.84	1,399	973			$2,372
Certify Backflow Preventer	1.0	EA	250.00				250	$250
Test Pipe	52.0	LF	4.74	162	60	25		$247
Haul & Dump Spoils - YP	1.0	LD	195.00				195	$195
Purchase Pipe Material	52.0	LF	33.72			1,754		$1,754
Purchase Sand Bedding	19.0	TN	13.65			259		$259
PW-06" DIP - Maint Bldg								
Dig / Lay / Backfill	62.0	LF	43.16	1,521	1,155			$2,676
Install Fittings	8.0	EA	307.71	1,399	1,063			$2,462
Tie-in	1.0	EA	2,589.45	1,472	1,118			$2,589
Test Pipe	62.0	LF	4.76	193	72	30		$295
Purchase ABC Bedding	38.0	TN	12.40			471		$471
Haul & Dump Spoils - YP	2.0	LD	195.00				390	$390
Purchase Pipe Material	62.0	LF	84.21			5,221		$5,221
Hot Tap	1.0	EA	275.00				275	$275
SS-04" PVC - Maint Bldg								
Dig / Lay / Backfill	172.0	LF	64.74	6,329	4,805			$11,135
Install Fittings	14.0	EA	129.47	1,030	782			$1,813
Test Pipe	172.0	LF	4.75	535	200	83		$817
Purchase Sand Bedding	119.0	TN	13.65			1,624		$1,624
Haul & Dump Spoils - YP	5.0	LD	195.00				975	$975
Purchase Pipe Material	172.0	LF	4.81			826		$826
Drop Manhole Tie-in 4" Line - Maint Bldg								
Install Fittings	1.0	EA	5,178.86	2,944	2,235			$5,179
Core @ Manhole	2.0	EA	1,350.00				2,700	$2,700
Purchase Conc Drop MH	1.0	LS	540.00			540		$540
Potholing - Maint Bldg								
Potholing	3.0	EA	636.58	415	144		1,350	$1,910
O - Aeration / Anoxic & MCC Replacement				**52,408**	**56,469**	**21,962**	**19,085**	**$149,923**
Demo Asphalt								
Sawcut Asphalt	107.0	LF	0.65				70	$70
Demo Asphalt	11.0	SY	57.53	309	323			$633
Haul & Dump Asphalt	1.0	LD	115.00				115	$115
Demo Sidewalk								
Sawcut Concrete	10.0	LF	9.50				95	$95
Remove Concrete Sidewalk	54.0	SF	8.76	236	237			$473
Haul & Dump Concrete	1.0	LD	165.00				165	$165
Earthwork - A-Basin Column Footings								
Structure Excavation	225.0	CY	175.77	17,233	22,316			$39,548
Structure Backfill	166.0	CY	165.90	11,489	16,051			$27,540
Haul & Dump Spoils - Str Ex	59.0	CY	15.68				925	$925
10' x 10' Shore Boxes	6.0	EA	1,750.00				10,500	$10,500
Place CLSM	54.0	CY	20.67	1,116				$1,116
Purchase CLSM	54.0	CY	87.00			4,698		$4,698
Earthwork - Aeration Basin 7'-4" Addition - South								
Structure Scarify & Recompact	56.0	SY	19.21	625	451			$1,076
Structure Finegrade	56.0	SY	19.21	625	451			$1,076
Earthwork - Aeration Basin 2' Addition - West								
Structure Scarify & Recompact	40.0	SY	26.89	625	451			$1,076
Structure Finegrade	40.0	SY	26.89	625	451			$1,076
Site Finegrade								
SG Prep & Finegrade for DG	284.0	SY	3.21	571	342			$913
Earthwork - Anoxic Basin 3' Addition								
Structure Excavation	37.0	CY	29.08	625	451			$1,076
Structure Scarify & Recompact	10.0	SY	107.58	625	451			$1,076
Structure Finegrade	10.0	SY	107.58	625	451			$1,076
Structure Backfill	37.0	CY	29.08	625	451			$1,076
Haul & Dump Spoils - Str Ex	2.0	LD	185.00				370	$370
Asphalt Paving Road - 4" AC /6" ABC								
Subgrade Prep	11.0	SY	62.87	340	351			$692
Place ABC	6.0	TN	115.27	340	351			$692
Finegrade ABC	11.0	SY	62.87	340	351			$692
Purchase ABC Subbase	6.0	TN	12.70			76		$76
Sidewalk								
Subgrade Prep & Finegrade for Sidewalk	6.0	SY	196.24	718	459			$1,177
Backfill Against Sidewalk	6.0	SY	76.36	286	172			$458
Remove - 24" RAS - EX/Bedding/BF Only								
Ex/Bedding/ Backfill	21.0	LF	133.64	1,486	1,321			$2,807
Purchase ABC Bedding	22.0	TN	12.70			279		$279
Haul & Dump Spoils - YP	2.0	LD	185.00				370	$370
Remove & Cap - NPW-08" DIP - SE Corner A-Basin								
Dig / Remove / Backfill	117.0	LF	35.07	2,173	1,931			$4,104
Install Fittings	4.0	EA	344.90	743	637			$1,380
Haul & Dump Pipe Demo	1.0	LD	750.00				750	$750
Purchase Pipe Material	1.0	LS	888.02			888		$888
Remove & Cap - Air-08" DIP - SE Corner A-Basin								

Estimate Detail

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Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
Dig / Remove / Backfill	115.0	LF	35.09	2,136	1,899			$4,035
Haul & Dump Pipe Demo	1.0	LD	750.00				750	$750
Purchase Pipe Material	1.0	LS	8,126.00			8,126		$8,126
NPW-06" DIP - South of A-Basin								
Dig / Lay / Backfill	135.0	LF	46.79	3,344	2,973			$6,317
Install Fittings	15.0	EA	175.46	1,393	1,238			$2,632
Tie-in	2.0	EA	1,403.25	1,486	1,321			$2,807
Test Pipe	135.0	LF	4.76	420	157	65		$642
Purchase ABC Bedding	103.0	TN	12.70			1,308		$1,308
Haul & Dump Spoils - YP	5.0	LD	185.00				925	$925
Purchase Pipe Material	135.0	LF	48.31			6,522		$6,522
Potholing								
Potholing	9.0	EA	636.57	1,246	433		4,050	$5,729
O - Clarifiers				**13,900**	**17,107**	**6,194**	**3,685**	**$40,887**
Excavate for 6" Scum Pipe								
Dig / Backfill for 06" Scum Piping	2.0	EA	1,892.57	1,875	1,910			$3,785
Purchase ABC Bedding	10.0	TN	12.70			127		$127
Remove & Replace TD-08" Plug Valve								
Remove & Replace Plug Valve	1.0	EA	27,035.70	11,887	15,149			$27,036
Purchase ABC Bedding	15.0	TN	12.70			191		$191
Haul & Dump Spoils - YP	1.0	LD	185.00				185	$185
Purchase Pipe Material	18.0	LF	326.48			5,877		$5,877
Vac Truck Support	8.0	HR	225.00				1,800	$1,800
Shore Box	1.0	EA	1,250.00				1,250	$1,250
Potholing								
Potholing	1.0	EA	636.57	138	48		450	$637
O - Filters				**58,465**	**52,835**	**75,516**	**92,364**	**$279,179**
Demo Asphalt								
Sawcut Asphalt	70.0	LF	0.65				46	$46
Demo Asphalt	10.0	SY	63.28	309	323			$633
Sawcut Asphalt - Valley Gutter	50.0	LF	0.80				40	$40
Demo Asphalt - Valley Gutter	10.0	SY	63.28	309	323			$633
Haul & Dump Asphalt	1.0	LD	115.00				115	$115
Demo Concrete Curb								
Sawcut Concrete	2.0	EA	15.00				30	$30
Demo Concrete Curb	30.0	LF	21.09	309	323			$633
Haul & Dump Concrete	1.0	LD	165.00				165	$165
Earthwork - New Disc Filters								
Structure Excavation	447.0	CY	17.80	3,459	4,497			$7,956
Structure Scarify & Recompact	283.0	SY	7.60	1,250	902			$2,152
Structure Finegrade and Dental Ex	283.0	SY	19.72	3,087	2,493			$5,581
Structure Backfill	706.0	CY	17.83	5,452	7,137			$12,589
Place CLSM w/ Telebelt	481.0	CY	37.08	3,720			14,113	$17,833
Purchase CLSM	481.0	CY	91.12			43,831		$43,831
Shoring Installation	308.0	SF	150.47				46,345	$46,345
Shoring Support (Ex/BF)	200.0	CY	53.49	4,634	6,065			$10,699
Shoring - Potholing Support	1.0	LS	15,400.00			1,000	14,400	$15,400
Site Finegrade								
SG Prep & Finegrade for DG	280.0	SY	3.26	571	342			$913
Road Excavation & Haul-off								
Road Excavation	25.0	CY	27.10	340	337			$678
Haul & Dump Spoils - Site Ex	20.0	CY	18.50				370	$370
Asphalt Paving Road - 4" AC / 6" ABC								
Subgrade Prep	81.0	SY	17.02	679	700			$1,378
Place ABC	25.0	TN	55.14	679	700			$1,378
Finegrade ABC	81.0	SY	17.02	679	700			$1,378
Purchase ABC Subbase	25.0	TN	12.70			318		$318
Curb & Gutter								
Subgrade Prep & Finegrade for Curb	142.0	LF	9.71	679	700			$1,378
Backfill Against Curb	142.0	LF	3.23	286	172			$458
Valley Gutter								
Subgrade Prep & Finegrade for Valley Gutter	9.0	SY	56.99	286	226			$513
Backfill Against Curb	9.0	SY	56.99	286	226			$513
Sawcut Asphalt - 04"	51.0	LF	0.80				41	$41
Backwash/Solids Waste-03" PVC								
Dig / Lay / Backfill	73.0	LF	57.67	2,229	1,981			$4,210
Install Fittings	24.0	EA	116.94	1,486	1,321			$2,807
Test Pipe	73.0	LF	4.75	227	85	35		$347
Purchase Sand Bedding	50.0	TN	13.95			698		$698
Haul & Dump Spoils - YP	3.0	LD	185.00				555	$555
Purchase Pipe Material	73.0	LF	31.09			2,269		$2,269
Filter Waste-04" PVC								
Dig / Lay / Backfill	35.0	LF	80.19	1,486	1,321			$2,807
Install Fittings	12.0	EA	140.32	892	792			$1,684
Test Pipe	35.0	LF	4.77	109	41	17		$167
Purchase Sand Bedding	24.0	TN	13.95			335		$335
Haul & Dump Spoils - YP	1.0	LD	185.00				185	$185

Estimate Detail

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Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
Purchase Pipe Material	35.0	LF	51.44			1,801		$1,801
Filter Backwash Drain-10" PVC								
Dig / Lay / Backfill	89.0	LF	70.15	3,306	2,938			$6,244
Install Fittings	14.0	EA	140.33	1,040	924			$1,965
Tie-in	1.0	EA	2,806.50	1,486	1,321			$2,807
Test Pipe	89.0	LF	4.80	280	105	43		$427
Purchase Sand Bedding	76.0	TN	13.95			1,060		$1,060
Haul & Dump Spoils - YP	4.0	LD	185.00				740	$740
Purchase Pipe Material	89.0	LF	221.06			19,675		$19,675
Manhole, 60" Coated - Filter Backwash Drain								
Manhole - Excavate & Backfill	1.0	EA	15,427.60	7,631	7,797			$15,428
Manhole - Set	1.0	EA	3,856.92	1,908	1,949			$3,857
Manhole - Shore Box	1.0	EA	1,250.00				1,250	$1,250
Manhole 60" Coated - Purchase	1.0	EA	11,165.00				11,165	$11,165
Potholing								
Potholing	5.0	EA	636.57	692	240		2,250	$3,183
NPW-02" CU - Disc Filters Reroute								
Dig / Lay / Backfill	240.0	LF	41.58	5,888	4,092			$9,980
Install Fittings	19.0	EA	124.84	1,399	973			$2,372
Tie-in	1.0	EA	1,154.46	643	512			$1,154
Test Pipe	240.0	LF	4.75	747	279	115		$1,141
Haul & Dump Spoils - YP	3.0	LD	185.00				555	$555
Purchase Pipe Material	240.0	LF	14.92			3,582		$3,582
Purchase Sand Bedding	53.0	TN	13.95			739		$739
O - General (Temp Power, Potholing, Silo Gate)				**55,967**	**94,854**	**25,547**	**50,197**	**$226,565**
Parking/Laydown - Ocotillo								
AB Maintenance and Touchup	4,616.0	SY	6.86	12,802	12,529	6,350		$31,681
DG Restoration	5,925.0	SY	5.52	9,859	9,650	13,200		$32,709
Temporary Fencing around Excavations - Ocotillo								
Temporary Fencing around Excavations - Install & Remove	3,062.0	LF	6.00	10,191	3,601	3,826	750	$18,367
Clean Streets / Sweeping								
Clean Streets / Sweeping - Ocotillo	87.0	WK	425.00				36,975	$36,975
Trackout Pad - Install, Maintain, Remove								
Trackout Pad - Install, Maintain, Remove - Ocotillo	1.0	EA	10,977.75	4,796	3,452	1,740	990	$10,978
Dust Control Equipment								
Storm Water Prevention Plan - Ocotillo	1,985.0	LF	6.91	1,652	584		11,482	$13,718
General Site Dust Control Equipment - Ocotillo	198.0	DY	414.84	16,668	65,039	431		$82,138
O - Reservoir				**241,587**	**314,391**	**339,213**	**223,179**	**$1,118,370**
Demo Reservoir Headwall								
Demo Concrete Headwall	1.0	EA	2,524.32	1,236	1,288			$2,524
Haul & Dump Concrete	1.0	LD	165.00				165	$165
Demo Concrete Slab - RW Piping								
Sawcut Concrete	122.0	LF	9.50				1,159	$1,159
Remove Concrete Pavement	27.0	SY	69.37	471	1,402			$1,873
Haul & Dump Concrete	2.0	LD	165.00				330	$330
Demo Existing Ductbank								
Demo Ductbank	40.0	CY	67.37	1,298	1,397			$2,695
Haul & Dump Ductbank	7.0	LD	750.00				5,250	$5,250
Remove - 48" RCP Effluent Overflow								
Dig / Remove / Backfill	60.0	LF	72.11	2,229	2,098			$4,326
Haul & Dump Pipe Demo	1.0	LD	750.00				750	$750
Earthwork - Effluent Storage Reservoir								
Structure Excavation	17,756.0	CY	8.38	51,186	97,660			$148,846
Structure Scarify & Recompact	2,124.0	SY	4.90	5,464	4,953			$10,418
Structure Dental Ex & Finegrade	2,124.0	SY	10.79	11,023	11,888			$22,911
Structure Backfill	10,049.0	CY	13.37	58,203	76,184			$134,387
Backfill top of Structure	3,186.0	CY	26.09	40,288	42,837			$83,125
Haul & Dump Spoils - Str Ex	4,521.0	CY	15.43				69,745	$69,745
Shoring Removal	275.0	SF	13.71	1,885	1,886			$3,771
Haul & Dump Shoring Demo	5.0	LD	165.00				825	$825
CLSM Backfill	114.0	CY	4.65	530				$530
Purchase CLSM	114.0	CY	87.00			9,918		$9,918
Reservoir Grading								
Reservoir Finegrading	6,334.0	SY	2.70	8,599	8,507			$17,106
Earthwork - Build/Remove Ramp for Reservoir Access								
Structure Backfill	385.0	CY	13.60	2,196	3,040			$5,236
Structure Excavation	385.0	CY	9.94	1,664	2,164			$3,828
Hand Placed RipRap (D50-6") 12" Thick								
Excavate for Rip Rap	620.0	LF	10.93	4,428	2,347			$6,775
Install Geofabric	293.0	SY	4.35	943	331			$1,274
Install Rip Rap	182.0	TN	52.46	5,744	3,803			$9,548
Purchase Geofabric	293.0	SY	2.97			870		$870
Purchase Rip Rap	182.0	TN	42.35			7,708		$7,708
Haul & Dump Spoils - Rip Rap	9.0	LD	185.00				1,665	$1,665
Hand Placed RipRap (D50-8") 16" Thick								
Excavate for Rip Rap	50.0	SY	17.48	571	303			$874
Install Geofabric	50.0	SY	12.74	471	166			$637

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
Install Rip Rap	31.0	TN	77.00	1,436	951			$2,387
Purchase Geofabric	50.0	SY	1.74			87		$87
Purchase Rip Rap	31.0	TN	41.75			1,294		$1,294
Haul & Dump Spoils - Rip Rap	2.0	LD	185.00				370	$370
4" Asphalt Millings Roadway								
Place Millings	503.0	TN	6.89	1,708	1,760			$3,467
Finegrade Millings	2,077.0	SY	3.94	4,028	4,151			$8,178
Purchase Millings	503.0	TN	9.90			4,980		$4,980
Earthwork - Effluent Storage Reservoir								
Shoring Installation	1,125.0	SF	116.33				130,875	$130,875
Cut & Cap - 24" DIP Reservoir Lines								
Cut & Cap -24" DIP Reservoir Line	2.0	EA	5,254.35	4,458	6,051			$10,509
Haul & Dump Pipe Demo	1.0	LD	750.00				750	$750
Purchase Pipe Material	1.0	LS	2,528.68			2,529		$2,529
Abandon and Bury West Reservoir Inlet/Outlet Chamb								
Plug Existing 24" DIP w/ Block	1.0	EA	1,569.96	1,129	441			$1,570
Place CLSM	21.0	CY	8.86	186				$186
Purchase CLSM	21.0	CY	87.00			1,827		$1,827
Purchase Block/Grout	1.0	LS	200.00			200		$200
Vac Truck Support	8.0	HR	225.00				1,800	$1,800
RW-48" DIP								
Dig / Lay / Backfill	115.0	LF	177.54	8,545	11,872			$20,417
Install Fittings	8.0	EA	887.54	2,972	4,129			$7,100
Tie-in	1.0	EA	7,100.30	2,972	4,129			$7,100
Test Pipe	165.0	LF	4.76	514	192	79		$785
Purchase ABC Bedding	181.0	TN	12.70			2,299		$2,299
Haul & Dump Spoils - YP	15.0	LD	185.00				2,775	$2,775
Purchase Pipe Material	165.0	LF	1,139.55			188,025		$188,025
Place CLSM	66.0	CY	5.64	372				$372
Purchase CLSM	66.0	CY	87.00			5,742		$5,742
Dig / Lay / Backfill - 50' under Slab	50.0	LF	253.56	5,306	7,372			$12,678
Overflow-42" DIP								
Dig / Lay / Backfill	147.0	LF	87.59	5,461	7,414			$12,875
Install Fittings	6.0	EA	875.73	2,229	3,026			$5,254
Test Pipe	147.0	LF	4.76	458	171	71		$699
Purchase ABC Bedding	164.0	TN	12.70			2,083		$2,083
Haul & Dump Spoils - YP	12.0	LD	185.00				2,220	$2,220
Purchase Pipe Material	147.0	LF	758.52			111,503		$111,503
Potholing								
Potholing	10.0	EA	636.58	1,385	481		4,500	$6,366
O - Roads / Sitework				**47,207**	**38,585**	**21,820**	**19,312**	**$126,923**
Demo Asphalt								
Sawcut Asphalt	116.0	LF	0.65				75	$75
Demo Asphalt	936.0	SY	6.74	3,090	3,220			$6,311
Sawcut Asphalt - Valley Gutter	219.0	LF	0.80				175	$175
Demo Asphalt - Valley Gutter	95.0	SY	13.29	618	644			$1,262
Haul & Dump Asphalt	11.0	LD	115.00				1,265	$1,265
Demo Concrete Curb								
Sawcut Concrete	4.0	EA	15.00				60	$60
Demo Concrete Curb	506.0	LF	8.73	2,164	2,256			$4,419
Haul & Dump Concrete	7.0	LD	165.00				1,155	$1,155
Demo Valley Gutter								
Demo Valley Gutter	98.0	LF	12.88	618	644			$1,262
Haul & Dump Concrete	3.0	LD	165.00				495	$495
Site Grading								
Misc Site Grading	2,947.0	SY	3.86	5,716	5,656			$11,373
Sitework Excavation								
Sitework Excavation	831.0	CY	10.20	4,277	4,203			$8,480
Haul & Dump Spoils - Site Ex	831.0	CY	15.58				12,950	$12,950
Asphalt Paving Road - 4" AC / 6" ABC								
Subgrade Prep	935.0	SY	3.94	1,813	1,869			$3,682
Place ABC	318.0	TN	6.90	1,080	1,113			$2,193
Finegrade ABC	935.0	SY	3.94	1,813	1,869			$3,682
Purchase ABC Subbase	318.0	TN	12.70			4,039		$4,039
Curb & Gutter								
Subgrade Prep & Finegrade for Curb	506.0	LF	5.45	1,358	1,399			$2,757
Backfill Against Curb	506.0	LF	3.61	1,143	684			$1,826
Valley Gutter								
Subgrade Prep & Finegrade for Valley Gutter	156.0	SY	10.22	891	703			$1,594
Backfill Against Curb	156.0	SY	10.22	891	703			$1,594
Sawcut Asphalt - 04"	220.0	LF	0.80				176	$176
Hand Placed RipRap (D50-6") 12" Thick								
Excavate for Rip Rap	950.0	LF	11.04	6,855	3,634			$10,489
Install Geofabric	486.0	SY	5.24	1,885	663			$2,548
Install Rip Rap	302.0	TN	46.50	8,338	5,705			$14,043
Purchase Geofabric	486.0	SY	3.58			1,740		$1,740
Purchase Rip Rap	302.0	TN	42.35			12,790		$12,790

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
Haul & Dump Spoils - Rip Rap	14.0	LD	185.00				2,590	$2,590
Hand Placed RipRap (D50-8") 16" Thick								
Excavate for Rip Rap	40.0	SY	21.85	571	303			$874
Install Geofabric	40.0	SY	15.92	471	166			$637
Install Rip Rap	25.0	TN	69.93	1,143	606			$1,748
Purchase Geofabric	40.0	SY	1.74			70		$70
Purchase Rip Rap	25.0	TN	41.75			1,044		$1,044
Haul & Dump Spoils - Rip Rap	2.0	LD	185.00				370	$370
4" Asphalt Millings Roadway								
Place Millings	216.0	TN	6.89	733	756			$1,489
Finegrade Millings	896.0	SY	3.94	1,738	1,791			$3,529
Purchase Millings	216.0	TN	9.90			2,138		$2,138
Z - General Requirements (both plants)				**463,794**	**103,951**	**114,056**	**65,430**	**$1,031,309**
Project/Field Supervision								
Project Manager (Daniel Soto)	32.0	WK	5,168.00	165,376				$165,376
General Superintendent (Lloyd Hiser)	6.0	WK	5,501.20	33,007				$33,007
Superintendent (Tom Walker)	36.0	WK	5,070.40	182,534				$182,534
Project Engineer (Patrick Hoffman)	18.0	WK	3,673.20	66,118				$66,118
General Carpentry								
Professional Survey (Crew)	304.0	HR	95.00				28,880	$28,880
BIM / VDC Services	316.0	HR	90.00			28,440		$28,440
Site Cleanup - Civil	0.4	WK	13,170.17	2,662	2,606			$5,268
Job Support Items								
Storage Trailer	24.0	MO	500.00		12,000			$12,000
Motorola Radios	11.0	MO	321.24			3,534		$3,534
Drinking Water/Cups	11.0	MO	530.00			5,830		$5,830
First Aid	11.0	MO	175.00			1,925		$1,925
Personal Protective Gear	12,545.8	MH	1.25			15,682		$15,682
Fire Extinguishers	12.0	EA	150.00			1,800		$1,800
Private Utility Locator	80.0	HR	160.00				12,800	$12,800
Traffic Control Barricades	1.0	LS	2,000.00			2,000		$2,000
Dewatering / Storm Water Pumping	1.0	WK	9,138.11	7,441	1,697			$9,138
Control Logistics								
Yard Charges/Services	11.0	MO	500.00			5,500		$5,500
Safety Equipment	1.0	LS	5,000.00			5,000		$5,000
Drug Testing	12,545.8	MH	0.12			1,505		$1,505
Engineering Fees	1.0	LS	10,600.00				10,600	$10,600
Equipment Cost								
Small Tools	12,545.8	MH	1.50			18,819		$18,819
Lifting Supplies	1.0	LS	2,000.00			2,000		$2,000
Pipe Unloading & Staging	1.0	LS	10,107.93	6,656	3,452			$10,108
Support Equipment	44.0	DY	474.90		18,396	2,500		$20,896
Mobilize Heavy Equipment	1.0	LS	78,950.00		65,800		13,150	$78,950
Permits and Bonds								
Misc. Permits	1.0	LS	17,820.00			17,820		$17,820
Contractor Default Insurance	1.0	LS	1,701.38			1,701		$1,701
Contractor Fee @ 9%	3,156,416.5	%	0.09					$284,077
02B – Earthwork & Yard Pipe Total				**1,138,521**	**812,114**	**658,440**	**547,341**	**$3,440,494**

Major Crews

Crew

Yard Pipe - Small/Medium

Pcs/Wste	MH Adj.	Description
1.00	1.00	Cmp Wh-420-50 312,14,15-MO
1.00	1.00	Extra Bckt 312-321-MO
1.00	1.00	CAT 320F Excavator-MO
1.00	1.00	CAT 938M Loader w/fork-MO
6.00	6.00	Trench Shoring
1.00	1.00	Pickup Truck
1.00	1.00	4K Water Truck-MO
1.00	1.00	Laborer
2.00	2.00	Operator 4
1.00	1.00	Pipe Layer
1.00	1.00	Truck Driver
1.00	1.00	Foreman

Yard Pipe - Large

Pcs/Wste	MH Adj.	Description
1.00	1.00	Cmp Wh-420-50 312,14,15-MO
1.00	1.00	Extra Bckt 312-321-MO
1.00	1.00	CAT 349E L Excavator-MO
1.00	1.00	CAT 938M Loader w/fork-MO
3.00	3.00	Trench Shoring
1.00	1.00	Pickup Truck
1.00	1.00	4K Water Truck-MO
1.00	1.00	Laborer
2.00	2.00	Operator 4
1.00	1.00	Pipe Layer
1.00	1.00	Truck Driver
1.00	1.00	Foreman

Structure Ex - Large

Pcs/Wste	MH Adj.	Description
1.00	1.00	CAT 349E L Excavator-MO
3.00	3.00	Super 16 Dump Truck - Operat
1.00	1.00	CAT 938M Loader w/fork-MO
1.00	1.00	Pickup Truck
1.00	1.00	4K Water Truck-MO
1.00	1.00	Grade Checker
2.00	2.00	Laborer
2.00	2.00	Operator 4
1.00	1.00	Truck Driver
1.00	1.00	Foreman

Structure BF - Large

Pcs/Wste	MH Adj.	Description
1.00	1.00	CAT 349E L Excavator-WK
2.00	2.00	Super 16 Dump Truck - Operat
1.00	1.00	CAT 950M Loader w/fork-WK
1.00	1.00	MQ RX1575 Rmt trch rlr-WK
1.00	1.00	Pickup Truck
1.00	1.00	4K Water Truck-MO
1.00	1.00	Grade Checker
2.00	2.00	Laborer
2.00	2.00	Operator 4
1.00	1.00	Truck Driver
1.00	1.00	Foreman

Structure BF - Small

Pcs/Wste	MH Adj.	Description
1.00	1.00	CAT 326F Excavator-MO
2.00	2.00	Super 16 Dump Truck - Operat
1.00	1.00	CAT 938M Loader w/fork-MO
1.00	1.00	CAT CP56B Compator Roller-WK
1.00	1.00	MQ RX1575 Rmt trch rlr-MO
1.00	1.00	CAT 242D Skid Steer-WK
1.00	1.00	Pickup Truck
1.00	1.00	4K Water Truck-MO
1.00	1.00	Grade Checker
2.00	2.00	Laborer
4.00	4.00	Operator 4
1.00	1.00	Truck Driver
1.00	1.00	Foreman

Finegrading - Small

Pcs/Wste	MH Adj.	Description
1.00	1.00	MQ RX1575 Rmt trch rlr-MO
1.00	1.00	CAT 415F2 IL Skip Loader-WK
1.00	1.00	Pickup Truck
1.00	1.00	4K Water Truck-MO
2.00	2.00	Laborer
1.00	1.00	Operator 4
1.00	1.00	Truck Driver
1.00	1.00	Foreman

Finegrading - Large

Pcs/Wste	MH Adj.	Description
1.00	1.00	CAT 315F Excavator-WK
1.00	1.00	Super 16 Dump Truck - Operat
1.00	1.00	CAT 938M Loader w/fork-MO
1.00	1.00	CAT CP56B Compator Roller-WK
1.00	1.00	Pickup Truck
1.00	1.00	4K Water Truck-MO
1.00	1.00	Grade Checker
1.00	1.00	Laborer
3.00	3.00	Operator 4
1.00	1.00	Truck Driver
1.00	1.00	Foreman

Structure Finegrade & Dental Exc

Pcs/Wste	MH Adj.	Description
1.00	1.00	CAT 315F Excavator-WK
1.00	1.00	CAT 938M Loader w/fork-MO
1.00	1.00	MQ RX1575 Rmt trch rlr-MO
1.00	1.00	Pickup Truck
1.00	1.00	4K Water Truck-MO
1.00	1.00	Grade Checker
1.00	1.00	Laborer
2.00	2.00	Operator 4
1.00	1.00	Truck Driver
1.00	1.00	Foreman

Project Name: Chandler WRF Improvements
Project No. WW1901.201

Work Category: **02B.1 - Landscaping**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

		COMPANY INFORMATION	**AAA Landscape**	Gothic Landscape	Sunburst Landscaping	Brightview	
			Reid Iber	Jared McDonal	Noelle Boothby	Rick Whitman	
			(602) 330-5698	(602) 653-0561	(602) 920-5938	(602) 300-9473	
			R.Iber@aaalandscape.com	jared.mcdonald@gothiclandscape.com	noelle@sunburstlandscaping.com	richard.whitman@brightview.com	
		TOTAL WORK CATEGORY PACKAGE VALUE	**$44,287**	**Declined**	**Declined**	**Declined**	
		MCCARTHY SUBCONTRACT & FRONT END TERMS					
1		Compliant with McCarthy Front Ends	N/A				
2		Bid Submitted on McCarthy Bid Form	No				
3		Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	N/A				
4		Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing. (The date on the letter provided should be within the last 30 days and the letter should include the status of their line of credit.)	N/A				
5		Surety Company	N/A				
6		Surety AM Best Rating (Must be A- or Better)	N/A				
7		AM Best Financial Size X($500M to $750M) or higher	N/A				
8		Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	N/A				
9		Bond/CDI Cost	0.000%				
10		Included Insurance Requirements (Per Matrix)	N/A				
11		GL Insurance Company Name	N/A				
12		GL Insurance Carrier AM Best Rating (Must be A- or Better)	N/A				
13		PRL Insurance (If required by the Front Ends)	N/A				
14		Pollution Insurance (If required by the Front Ends)	N/A				
15		Tier 1 Approved	Yes				
16		Tier 2 Approved	N/A				
17		Safety Items:					
18		OSHA Recordable Incident Rate (Current)	.80				
19		Agrees to comply with PPE requirements including 100% glove policy	N/A				
20		Acknowledges updated ladder policy (platform ladders)	N/A				
21		Task Hazard Analysis included for all tasks	N/A				
22		Tie-off above 6' required	N/A				
23		Includes Hoisting for Sub's Own Work Scope	N/A				
24		Acknowledges Soils Report	N/A				
25		Acknowledges Addenda	N/A				
26		Hold Bid for 150 Days	Yes				
27		Pricing good for the duration of the project	Yes				
28		Sales Tax Included	No				
29		**COVID-19 Market Questions**					
30		How has your workprogram been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	N/A				
31		Have you had any future work oppurtunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	N/A				
32		Are you suffering productivity loss that is impacting the ability to complete work on time?	N/A				
33		Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	N/A				
34		Have you experienced any unusual voluntary turnover as a result of COVID-19?	N/A				
35		Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	N/A				
36		Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	N/A				
37		Do you have any overseas suppliers that may be impeding your supply chain?	N/A				

Project Name: Chandler WRF Improvements
Project No. WW1901.201

Work Category: **02B.1 - Landscaping**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

COMPANY INFORMATION		**AAA Landscape**	Gothic Landscape	Sunburst Landscaping	Brightview	
		Reid Iber	Jared McDonal	Noelle Boothby	Rick Whitman	
		(602) 330-5698	(602) 653-0561	(602) 920-5938	(602) 300-9473	
		R.Iber@aaalandscape.com	jared.mcdonald@gothiclandscape.com	noelle@sunburstlandscaping.com	richard.whitman@brightview.com	
TOTAL WORK CATEGORY PACKAGE VALUE		**$44,287**	**Declined**	**Declined**	**Declined**	
MCCARTHY SUBCONTRACT & FRONT END TERMS						
1	Compliant with McCarthy Front Ends	N/A				
2	Bid Submitted on McCarthy Bid Form	No				
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	N/A				
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing. (The date on the letter provided should be within the last 30 days and the letter should include the status of their line of credit.)	N/A				
5	Surety Company	N/A				
6	Surety AM Best Rating (Must be A- or Better)	N/A				
7	AM Best Financial Size X($500M to $750M) or higher	N/A				
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	N/A				
9	Bond/CDI Cost	0.000%				
10	Included Insurance Requirements (Per Matrix)	N/A				
11	GL Insurance Company Name	N/A				
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	N/A				
13	PRL Insurance (If required by the Front Ends)	N/A				
14	Pollution Insurance (If required by the Front Ends)	N/A				
15	Tier 1 Approved	Yes				
16	Tier 2 Approved	N/A				
17	Safety Items:					
18	OSHA Recordable Incident Rate (Current)	.80				
19	Agrees to comply with PPE requirements including 100% glove policy	N/A				
20	Acknowledges updated ladder policy (platform ladders)	N/A				
21	Task Hazard Analysis included for all tasks	N/A				
22	Tie-off above 6' required	N/A				
23	Includes Hoisting for Sub's Own Work Scope	N/A				
24	Acknowledges Soils Report	N/A				
25	Acknowledges Addenda	N/A				
26	Hold Bid for 150 Days	Yes				
27	Pricing good for the duration of the project	Yes				
28	Sales Tax Included	No				
29	**COVID-19 Market Questions**					
30	How has your workprogram been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	N/A				
31	Have you had any future work oppurtunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	N/A				
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	N/A				
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	N/A				
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	N/A				
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	N/A				
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	N/A				
37	Do you have any overseas suppliers that may be impeding your supply chain?	N/A				

Project Name: Chandler WRF Improvements
Project No. WW1901.201

Work Category: **02B.1 - Landscaping**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	AAA Landscape	Gothic Landscape	Sunburst Landscaping	Brightview	
		Reid Iber	Jared McDonal	Noelle Boothby	Rick Whitman	
		(602) 330-5698	(602) 653-0561	(602) 920-5938	(602) 300-9473	
		R.Iber@aaalandscape.com	jared.mcdonald@gothiclandscape.com	noelle@sunburstlandscaping.com	richard.whitman@brightview.com	
	TOTAL WORK CATEGORY PACKAGE VALUE	**$44,287**	**Declined**	**Declined**	**Declined**	
38						
39	Per Plans & Specifications	Yes				
40	Division 1 as it relates to this scope of work	Yes				
41	02100 - Site Preparation	Yes				
42	02318 - Crushed Stone, Gravel, and Decomposed Granite	Yes				
Scope of Work						
Base Bid:		Unit Cost				
43	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 02B.1 - Landscaping, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:					
44	Check to Spec completed and submitted to McCarthy	No				
45	1 year warranty from Final Acceptance (Aug 2023)	Yes				
46	2" DG Replacement - Blower Bldg - 766 SY	$2,750				
47	2" DG Replacement - Filters - 184 SY	$661				
48	2" DG Replacement - Maint Bldg - 2,117 SY	$7,600				
49	2" Surface Layed of 3/4" Minus DG - A-Basins - 284 SY	$960				
50	2" Surface Layed of 3/4" Minus DG - Filters - 280 SY	$946				
51	2" Surface Layed of 3/4" Minus DG - Reservoir - 6,334 SY	$21,409				
52	2" Surface Layed of 3/4" Minus DG - Roads/Sitework - 2,947 SY	$9,961				
53	Samples of Material	Yes				
54	2 inches of decomposed granite rolled and compacted as per the Contract Documents	Yes				
55	Spray 2 applications of pre-emergent herbicide	Yes				
56	COVID-19 Scope Items					
57	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	N/A				
58	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	N/A				
59	All personnel onsite must maintain 6'0" spacing between personel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	N/A				
60	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	N/A				
61	All tools and equipment used must be sanitzed each day.	N/A				
62	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	N/A				
63	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	N/A				
64	Personnel are not allowed to carpool to the site or while onsite.	N/A				
65	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the apropriate testing and quarantine protocols.	N/A				
66						

Project Name: Chandler WRF Improvements
Project No. WW1901.201

Work Category: **02B.1 - Landscaping**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	AAA Landscape	Gothic Landscape	Sunburst Landscaping	Brightview	
		Reid Iber	Jared McDonal	Noelle Boothby	Rick Whitman	
		(602) 330-5698	(602) 653-0561	(602) 920-5938	(602) 300-9473	
		R.Iber@aaalandscape.com	jared.mcdonald@gothiclandscape.com	noelle@sunburstlandscaping.com	richard.whitman@brightview.com	
	TOTAL WORK CATEGORY PACKAGE VALUE	**$44,287**	**Declined**	**Declined**	**Declined**	
67	End of Scope					
68	Bond/CDI Cost	$0				
	TOTAL WORK CATEGORY PACKAGE VALUE	**$44,287**				

April 19, 2021

McCarthy

AAA LANDSCAPE
AN UNDERWOOD BROTHERS CO.
Est. 1975

We Beautify the World

Attn: Reed Peterson
Re: Chandler WRF Airport and Ocotillo DG Top Dress & Pre-emergent Proposal

We hereby submit the DG top dress and pre-emergent bid for Chandler WRF Airport and Ocotillo Sites as per the specifications provided. Included in our bid is specification section 02318 dated March 2021 by City of Chandler. This proposal is to be included as an exhibit in any contract.

Our proposal includes the following items:

Ocotillo

Quantity	Unit	Description	Unit Price	Total Price
11434	sqyd	3/4" Minus Desert Gold @ 2" Depth	$ 3.20	$ 36,588.80
12302	sqyd	Pre-Emergent 2 Applications	$ 0.18	$ 2,214.36

Airport

Quantity	Unit	Description	Unit Price	Total Price
3068	sqyd	3/4" Minus Pink Coral @ 2" Depth	$ 3.40	$ 10,431.20
3405	sqyd	Pre-Emergent 2 Applications	$ 0.19	$ 646.95

Bid Breakdown	Total Price
Ocotillo Site	$ 38,803.16
Airport Site	$ 11,078.15

CLARIFICATIONS:

- This Proposal MUST be made an exhibit in any contract awarded to AAA LANDSCAPE.
- This proposal is based upon completing the Project in **7** working days.
- Unit costs and quantities are provided for reference only.
- All grades are to be received within +/- 1/10th of subgrade.
- AAA Landscape is not responsible for damage due to poor soil conditions, rodents, vandalism, and/or "ACTS OF NATURE" to include frost damage.
- Two mobilizations are included in this proposal – any additional mobilizations will be $ 2,000.00 ea.
- Two layers of pre-emergent will be provided for inert ground cover areas.

Extras and additional work will be per the following rates:

Labor:	$40.00 per hour
Project Manager	$85.00 per hour
Foreman:	$75.00 per hour
Irrigation/Leadperson:	$60.00 per hour
Equipment w/operator:	3500/Bobcat: $85.00 per hour
	570 Grade Tractor: $95.00 per hour
	590 Backhoe: $105.00 per hour
	1800 Gal Water Truck: $125.00 per hour
Material, Fuel and rentals:	Cost + 25%

Phoenix Office
3747 E. Southern Ave.
Phoenix, AZ 85040
P 602.437.2690

Tucson Office
4742 N. Romero Rd.
Tucson, AZ 85705
P 520.696.3223

aaalandscape.com

AAA Landscape Warranty:
AAA LANDSCAPE will replace – upon notice by Owner – any material installed which is defective due to poor quality material or workmanship. This Warranty takes effect upon **substantial completion** of areas when accepted and continues for the period listed below. This Warranty does not cover damage caused by others, or damage or loss beyond the control of AAA LANDSCAPE.

Current EMOD Rate: 0.75

EXCLUSIONS:

- Cut/Patch/Boring under asphalt or concrete (unless specified).
- Removal of any debris or concrete left by other trades.
- Protection of existing plants during construction by others.
- Cost of water meter and associated fees.
- Permits/bonds and sales tax are not included.
- Repair of existing landscape and irrigation in surrounding areas.
- Traffic Control
- Backfilling Curbs, Walls or Parking Islands
- Clearing/Grubbing/Weed Eradication.
- Sand bedding of laterals / mainline.
- Mold and Water Intrusion.
- Excavation in hard-pan/caliche/bed rock.
- Berming/Cutting of retention's.
- Rip Rap from Civil Plans.
- Not responsible for existing unknown utilities not mark by blue stake.

If you have any questions, please feel free to call.

Sincerely,

Reid Iber
Director of Estimating

Note: This proposal expires in 150 calendar days.

Acceptance of this proposal- The above prices, specifications, and conditions are satisfactory and are herby accepted. □ou are authorized to do the work as specified.

"Pursuant to Arizona law we are required to inform you of your right to file a written complaint with the Registrar of Contractors for an alleged violation of Arizona Revised Statutes section 32-1154, subsection A. Any complains must be made within the applicable time period as set forth in section 32-1155, subsection A. The ROC can be contacted at (602) 542-1525 or online at http://www.azroc.gov. We request that if any portion of our work is unsatisfactory that you notify us prior to filing a complaint so we can attempt to resolve any concerns."

Date Of Acceptance:□□□□□□□□□□□□□□□□□□□

Authorized Signature:□□□

Project Name: Chandler WRF Improvements
Project No. WW1901.201

Work Category: **02B.2 - Paving**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	L&L Asphalt	Cactus Asphalt	Via Sun	L Keeley Construction Co.	
		John Doerfler	Bryan Glazer	Matt Campbell	Justin Naber	
		(480) 363-9157	(623) 433-6670	(602) 768-0620	(480) 000-0000	
		johndoerfler@yahoo.com	bg@cactusasphalt.com	matt@viasuncorp.com	email	
	TOTAL WORK CATEGORY PACKAGE VALUE	**$89,312**	**$91,237**	**$99,089**	**No Bid**	
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	N/A	N/A	N/A		
2	Bid Submitted on McCarthy Bid Form	No	No	No		
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	N/A	N/A	N/A		
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing. (The date on the letter provided should be within the last 30 days and the letter should include the status of their line of credit.)	N/A	N/A	N/A		
5	Surety Company	N/A	N/A	N/A		
6	Surety AM Best Rating (Must be A- or Better)	N/A	N/A	N/A		
7	AM Best Financial Size X($500M to $750M) or higher	N/A	N/A	N/A		
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	N/A	N/A	N/A		
9	Bond/CDI Cost	0.000%	0.000%	0.000%		
10	Included Insurance Requirements (Per Matrix)	N/A	N/A	N/A		
11	GL Insurance Company Name	N/A	N/A	N/A		
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	N/A	N/A	N/A		
13	PRL Insurance (If required by the Front Ends)	N/A	N/A	N/A		
14	Pollution Insurance (If required by the Front Ends)	N/A	N/A	N/A		
15	Tier 1 Approved	Yes	Yes	Yes		
16	Tier 2 Approved	N/A	N/A	N/A		
17	Safety Items:					
18	OSHA Recordable Incident Rate (Current)	.77	0.90	0.73		
19	Agrees to comply with PPE requirements including 100% glove policy	No	No	No		
20	Acknowledges updated ladder policy (platform ladders)	No	No	No		
21	Task Hazard Analysis included for all tasks	No	No	No		
22	Tie-off above 6' required	No	No	No		
23	Includes Hoisting for Sub's Own Work Scope	No	No	No		
24	Acknowledges Soils Report	N/A	N/A	N/A		
25	Acknowledges Addenda	N/A	N/A	N/A		
26	Hold Bid for 150 Days	Yes	Yes	Yes		
27	Pricing good for the duration of the project	Yes	Yes	Yes		
28	Sales Tax Included	No	No	No		
29	**COVID-19 Market Questions**					
30	How has your workprogram been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	N/A	N/A	N/A		
31	Have you had any future work oppurtunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	N/A	N/A	N/A		
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	N/A	N/A	N/A		
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	N/A	N/A	N/A		
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	N/A	N/A	N/A		
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	N/A	N/A	N/A		
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	N/A	N/A	N/A		
37	Do you have any overseas suppliers that may be impeding your supply chain?	N/A	N/A	N/A		
38						

Project Name: Chandler WRF Improvements
Project No. WW1901.201

Work Category: **02B.2 - Paving**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	**L&L Asphalt**	Cactus Asphalt	Via Sun	L Keeley Construction Co.	
		John Doerfler	Bryan Glazer	Matt Campbell	Justin Naber	
		(480) 363-9157	(623) 433-6670	(602) 768-0620	(480) 000-0000	
		johndoerfler@yahoo.com	bg@cactusasphalt.com	matt@viasuncorp.com	email	
	TOTAL WORK CATEGORY PACKAGE VALUE	**$89,312**	**$91,237**	**$99,089**	**No Bid**	
39	Per Plans & Specifications	Yes	Yes	Yes		
40	Division 1 as it relates to this scope of work	Yes	Yes	Yes		
41	02500 - Asphalt Pavement	Yes	Yes	Yes		
42	02580 - Pavement Markings	Yes	Yes	Yes		
Scope of Work						
Base Bid:		Unit Cost	Unit Cost	Unit Cost		
43	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 02B.2 - Paving, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:					
44	Check to Spec completed and submitted to McCarthy	No	No	No		
45	1 year warranty from Final Acceptance (Aug 2023)	Yes	Yes	Yes		
46	Asphalt Paving Repairs - 4" AC - Blower - 37 SY	$1,141	$1,051	$1,263		
47	Asphalt Paving Repairs - 4" AC - Filters	$1,697	$1,562	$1,877		
48	Asphalt Rdwy - 4"AC - Maint Bldg	$51,520	$47,428	$56,997		
49	Pavement Markings - Maint Bldg	$1,575	$1,386	No		
50	Asphalt Paving Road - 4" AC - O Anoxic	$317	$330	$375		
51	Asphalt Paving Road - 4" AC - O filters	$2,337	$2,430	$2,765		
52	Asphalt Paving Road - 4" AC - O Site	$26,975	$28,050	$31,912		
53	Mobilization	$3,750	$9,000	$3,900		
54	COVID-19 Scope Items					
55	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	N/A	N/A	N/A		
56	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	N/A	N/A	N/A		
57	All personnel onsite must maintain 6'0" spacing between personel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	N/A	N/A	N/A		
58	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	N/A	N/A	N/A		
59	All tools and equipment used must be sanitzed each day.	N/A	N/A	N/A		
60	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	N/A	N/A	N/A		
61	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	N/A	N/A	N/A		
62	Personnel are not allowed to carpool to the site or while onsite.	N/A	N/A	N/A		
63	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the apropriate testing and quarantine protocols.	N/A	N/A	N/A		
64						
65	End of Scope					
66	Bond/CDI Cost	$0	$0	$0		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$89,312**	**$91,237**	**$99,089**		

L & L Asphalt LLC
P.O. Box 73440
Phoenix, AZ 85050
Voice: 623-434-1200
Fax: 623-434-1202

PROPOSAL

Proposal Number: 4208B
Proposal Date: Apr 6, 2021
Page: 1

City of Phoenix Certified WBE/DBE/SBE

Asphalt ROC 215796

To:
McCarthy Building Co 6225 N 24th Street Suite 200 Phoenix, AZ 85016 Phone 480-449-4700

Job Name and Location:
McCarthy Building Co Chandler WRF Airport & Ocotiilo WRF Chandler, AZ ASPHALT ONLY

Customer Phone Number	PO Number	Sales Rep Name
480-449-4700		
Customer Fax Number	**Customer Contact**	**Payment Terms**
	Earl Rock	Net 30 Days

L & L Asphalt will furnish all labor, equipment, and materials to complete the scope of work as listed below for the unit prices below;

Quantity	Unit	Description	Unit Price	Amount
1,644.00	SY	AIRPORT- Permanent Asphalt Pavement 4" Thick With EVAC 1/2" PG70-10. (DONE IN 1 LIFT)	27.00	44,388.00
130.00	LF	AIRPORT- 4" White Paint Stripe (INCLUDES MOBILIZATION)	12.50	1,625.00
1.00	EA	Jobsite Mobilization (AS NEEDED)	1,250.00	1,250.00
3,530.00	SY	OCOTILLO- Permanent Asphalt Pavement 4" Thick With EVAC 1/2" PG70-10. (DONE IN 1 LIFT)	25.00	88,250.00
1.00	EA	Jobsite Mobilization (AS NEEDED)	1,250.00	1,250.00
		MATERIAL PRICE GOOD TILL 12/31/21.		

INCLUSIONS:

1. Apply tack coat to edges only.
2. Mobilizations Listed On Quote. Any additional will be charged at Price listed.
3. Payment based on actual field measurements and thicknesses.

EXCLUSIONS: (Items listed are excluded from price unless noted otherwise.)

1. Bond, Taxes and Permits/ Sales Tax On Material.
2. Testing (On or Off-Site).
3. Surveying/Layout/ Staking.
4. Water supply and usage charge.
5. Traffic Control/Barricades of any kind.
6. Asphalt Milling/Sawcut Of Any Kind.
7. Utility Adjustments
8. Subgrade Preparation Of Any Kind.
9. Stamped or decorative asphalt.
10. Premium(Overtime) & Weekend Work.
11. Prime Coat/Crack Fill/Seal Coat/Slurry Seal.

SPECIAL PROVISIONS:

1. This proposal is valid until April 30, 2021. If work is scheduled after that time we reserve the right to revise our prices based on the s increases.

Subtotal	136,763.00
Sales Tax	
TOTAL PROPOSAL AMOUNT	**136,763.00**

Rita Lawrence: Rita@llasp.com
John Doerfler: JohnDoerfler@yahoo.com

L & L Asphalt, LLC

4/5/21
Date

Accepted By: McCarthy Building Co

Date

Peterson, Reed

From: Adams, Brandon
Sent: Thursday, April 8, 2021 12:17 PM
To: Peterson, Reed
Subject: L&L Asphalt - FW: Escalation to Aug 2023 - FW: Chandler WRF - 90% GMP

Reed,
Here is the escalation from L&L. Comes out to $10 per year per tonnage (10x1200) = $12000 for 2022
= $12000 for 2023

Brandon Adams
Estimating Manager | Southwest Region
McCarthy Building Companies, Inc.
6225 North 24th Street, Suite 200 | Phoenix, AZ 85016-2037
M (480) 650-2423
mccarthy.com | LinkedIn | Twitter | Facebook | YouTube

From: John Doerfler <johndoerfler@yahoo.com>
Sent: Thursday, April 8, 2021 12:13 PM
To: Adams, Brandon <BAdams@McCarthy.com>
Subject: Re: Escalation to Aug 2023 - FW: Chandler WRF - 90% GMP

correct

John Doerfler L&L Asphalt Office:623-434-1200 Cell:480-363-9157

On Thursday, April 8, 2021, 12:11:55 PM MST, Adams, Brandon <badams@mccarthy.com> wrote:

Ok thanks John, and just to clarify you're adding $2.50 per ton per quarter, based on that total tonnage of 1200 correct?

Thanks

Brandon Adams

Estimating Manager | Southwest Region

McCarthy Building Companies, Inc.

6225 North 24th Street, Suite 200 | Phoenix, AZ 85016-2037

M (480) 650-2423

mccarthy.com | LinkedIn | Twitter | Facebook | YouTube

From: John Doerfler <johndoerfler@yahoo.com>
Sent: Thursday, April 8, 2021 11:49 AM
To: Adams, Brandon <BAdams@McCarthy.com>
Subject: Re: Escalation to Aug 2023 - FW: Chandler WRF - 90% GMP

I Would Add $2.50 Per Quarter After 12/31/21. This is a complete guess. No asphalt supplier will extend any price past 12/31/21.

Thanks

Total Tonnage figured is 1200 Tons

John Doerfler L&L Asphalt Office:623-434-1200 Cell:480-363-9157

On Thursday, April 8, 2021, 11:43:29 AM MST, Adams, Brandon <badams@mccarthy.com> wrote:

John,

Quick question on your quote, can you include escalations for pricing good through Aug 2023? We wanted to make sure those are included in your quote. If you could add those and send it back today that would be great.

Thanks

Brandon Adams

Estimating Manager | Southwest Region

McCarthy Building Companies, Inc.

6225 North 24th Street, Suite 200 | Phoenix, AZ 85016-2037

M (480) 650-2423

Project Name: Chandler WRF Improvements
Project No. WW1901.201

Work Category: **02B.3 - Site Concrete**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	ViaSun Corp	Procon	Rouser	Sun Valley	Denny Clark
		Matt Campbell	Dave Baker	Todd Christopherson	Todd Nessler	Jeff Shoulders
		(602) 768-0620	(480) 888-6712	(602) 920-1761	(602) 943-6106	(480) 664-6367
		matt@viasuncorp.com	dbaker@proconaz.com	todd.c_rouser@cox.net	toddnessler@sunvalleyconstruction.com	Estimating@dennyclarkconcrete.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$119,764**	**$158,386**	**Declined**	**Declined**	**Declined**
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	N/A	N/A			
2	Bid Submitted on McCarthy Bid Form	No	No			
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	N/A	N/A			
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing. (The date on the letter provided should be within the last 30 days and the letter should include the status of their line of credit.)	N/A	N/A			
5	Surety Company	N/A	N/A			
6	Surety AM Best Rating (Must be A- or Better)	N/A	N/A			
7	AM Best Financial Size X($500M to $750M) or higher	N/A	N/A			
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	N/A	N/A			
9	Bond/CDI Cost	0.000%	0.000%			
10	Included Insurance Requirements (Per Matrix)	N/A	N/A			
11	GL Insurance Company Name	N/A	N/A			
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	N/A	N/A			
13	PRL Insurance (If required by the Front Ends)	N/A	N/A			
14	Pollution Insurance (If required by the Front Ends)	N/A	N/A			
15	Tier 1 Approved	Yes	Yes			
16	Tier 2 Approved	N/A	N/A			
17	Safety Items:					
18	OSHA Recordable Incident Rate (Current)	0.73	0.80			
19	Agrees to comply with PPE requirements including 100% glove policy	No	No			
20	Acknowledges updated ladder policy (platform ladders)	No	No			
21	Task Hazard Analysis included for all tasks	No	No			
22	Tie-off above 6' required	No	No			
23	Includes Hoisting for Sub's Own Work Scope	No	No			
24	Acknowledges Soils Report	N/A	N/A			
25	Acknowledges Addenda	N/A	N/A			
26	Hold Bid for 150 Days	Yes	Yes			
27	Pricing good for the duration of the project	Yes	Yes			
28	Sales Tax Included	No	No			
29	**COVID-19 Market Questions**					
30	How has your workprogram been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	N/A	N/A			
31	Have you had any future work oppurtunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	N/A	N/A			
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	N/A	N/A			
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	N/A	N/A			
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	N/A	N/A			
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	N/A	N/A			
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	N/A	N/A			
37	Do you have any overseas suppliers that may be impeding your supply chain?	N/A	N/A			

Project Name: Chandler WRF Improvements
Project No. WW1901.201

Work Category: **02B.3 - Site Concrete**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	ViaSun Corp	Procon	Rouser	Sun Valley	Denny Clark
		Matt Campbell	Dave Baker	Todd Christopherson	Todd Nessler	Jeff Shoulders
		(602) 768-0620	(480) 888-6712	(602) 920-1761	(602) 943-6106	(480) 664-6367
		matt@viasuncorp.com	dbaker@proconaz.com	todd.c_rouser@cox.net	toddnessler@sunvalleyconstruction.com	Estimating@dennyclarkconcrete.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$119,764**	**$158,386**	**Declined**	**Declined**	**Declined**
38						
39	Per Plans & Specifications					
40	Division 1 as it relates to this scope of work	Yes	Yes			
41	03100 - Concrete Formwork	Yes	Yes			
42	03200 - Concrete Reinforcement	Yes	Yes			
43	03251 - Concrete Joints	Yes	Yes			
44	03300 - Cast-In-Place Concrete	Yes	Yes			
Scope of Work						
Base Bid:		Unit Cost	Unit Cost			
45	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 02B.3 - Site Concrete, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:					
46	Check to Spec completed and submitted to McCarthy	No	No			
47	1 year warranty from Final Acceptance (Aug 2023)	Yes	Yes			
49	**Airport - Blower**					
50	Curb & Gutter Repairs- Blower Bldg - 53 LF	$1,662	$2,682			
51	**Airport - Filters**					
50	Curb & Gutter Repairs- Filters - 77 LF	$2,414	$3,896			
51	Concrete Adjustment Collars - Manhole - Filters - 1 EA (Specialty Companies)	$445	No			
52	**Airport - Maintenance Building**					
51	Valley Gutter C-233 - Maint Bldg - 1,151 SF	$16,666	$25,782			
52	Concrete Adjustment Collars - Manhole - Maint Bldg - 1 EA (Specialty Companies)	$445	No			
53	Curb & Gutter - Maint Bldg - 1,038 LF	$40,047	$54,070			
52	Conc Adj Collar - Valve/Sewer CO - Maint Bldg - 5 EA (Specialty Companies)	$2,075	No			
53	Conc Sidewalk - Maint Bldg - 465 SF	$6,710	$4,687			
54	**Ocotillo - Aeration/Anoxic MCC Replacement**					
53	Sidewalk - 54 SF	$779	$544			
54	**Ocotillo - Clarifiers**					
55	Concrete Adjustment Collar, Valve - 1 EA (Speacialty Companies)	$390	No			
54	**Ocotillo - Filters**					
55	Curb & Gutter - 142 LF	$7,304	$7,959			
56	Valley Gutter - 81 SF	$1,173	$1,814			
55	Concrete Adjustment Collar, Manhole - 2 EA (Specialty Companies)	$840	No			
56	**Ocotillo - Roads/Sitework**					
57	Curb & Gutter - 506 LF	$18,484	$25,502			
56	Valley Gutter - 1,404 SF	$20,330	$31,450			
57	COVID-19 Scope Items					
58	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	N/A	N/A			
59	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	N/A	N/A			

Project Name: Chandler WRF Improvements
Project No. WW1901.201

Work Category: **02B.3 - Site Concrete**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	ViaSun Corp	Procon	Rouser	Sun Valley	Denny Clark
		Matt Campbell	Dave Baker	Todd Christopherson	Todd Nessler	Jeff Shoulders
		(602) 768-0620	(480) 888-6712	(602) 920-1761	(602) 943-6106	(480) 664-6367
		matt@viasuncorp.com	dbaker@proconaz.com	todd.c_rouser@cox.net	toddnessler@sunvalleyconstruction.com	Estimating@dennyclarkconcrete.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$119,764**	**$158,386**	**Declined**	**Declined**	**Declined**
60	All personnel onsite must maintain 6'0" spacing between personel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	N/A	N/A			
61	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	N/A	N/A			
62	All tools and equipment used must be sanitzed each day.	N/A	N/A			
63	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	N/A	N/A			
64	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	N/A	N/A			
65	Personnel are not allowed to carpool to the site or while onsite.	N/A	N/A			
66	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the apropriate testing and quarantine protocols.	N/A	N/A			
67						
68	End of Scope					
69	Bond/CDI Cost	$0	$0			
	TOTAL WORK CATEGORY PACKAGE VALUE	**$119,764**	**$158,386**			

PROJECT PROPOSAL - McCarthy Chandler WRF (CONCRETE)

VIASUN CORPORATION

3621 E. Superior Avenue
Phoenix, Arizona 85040
Contact: **Matt Campbell**
Phone: **602-768-0620**
Email: **matt@viasuncorp.com**

Company:	McCarthy Building Companies, Inc.	Project Name:	Chandler WRF
Contact:	Reed Peterson	Project Address:	
Address:	6225 North 24th Street, Suite 200	Submitted:	April 14, 2021
Phone:	602-695-2329		
Email:	RPeterson@mccarthy.com	AZ ROC #:	278361 / 297383
		Certifications:	

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
20	6" Curb & Gutter MAG 220 Type A	1,420.00	LF	36.53	51,872.60
30	4" Roll Curb MAG 220 Type C	378.00	LF	33.82	12,783.96
40	24" Ribbon Curb MAG 220 Type B	454.00	LF	31.35	14,232.90
50	5' Curb Transition	8.00	EA	549.85	4,398.80
60	Sidewalk MAG 230	476.00	SF	14.43	6,868.68
70	2.5' Curb Termination	3.00	EA	1,058.20	3,174.60
80	Valley Gutter COC DTL C-233	2,831.00	SF	14.48	40,992.88
120	3.5" Roll Curb	139.00	LF	40.60	5,643.40
140	Install Return Concrete Driveway MAG 251	151.00	SF	34.08	5,146.08
160	8" Verticle Curb MAG 222 Type A	12.00	LF	56.43	677.16
GRAND TOTAL					**$145,791.06**

NOTES:

All scheduling contingent upon mutual agreement of Owner and ViaSun Corporation.
ViaSun will require this proposal with exclusions be included in any contractual agreement.
In the event that quantities differ from above, billing will reflect agreed upon measured quantities.
Payment Terms Net 30 Days from submitted invoice.
Subgrade to be certified at +/- .10 for curb, +/- .05 for sidewalk, asphalt subgrade provided by others per plans and specifications.
Quantities and Scope are based on ViaSun tadeoff (attached)

EXCLUSIONS:
Water, Sales Tax, Bonds, Permits, Plans, Engineering, Survey, Staking, As-Builts, Testing, Inspection, Gradework, Landscape Areas, Weed Killer, Crack Routing, Crack-Sealing, Asphalt Patching, ABC, Vegetation Replacement, Utility Removal or Relocation, Striping, Signage, Subgrade Stabilization, Removal of Debris Generated by Other Trades, Erosion Control, Project Information Sign and Any Special Insurance Requirements.

Quoted prices valid for 150 days unless otherwise noted.
Prices above based on completing each task in one mobilization. If an additional mobilization is required, charges may apply.

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **03A - Structural Concrete**

GMP Date: **5/4/2021 Rev 6/21/2021**

		Recommended				
COMPANY INFORMATION		**McCarthy** **Zach McDonald** **480-449-4700** Zmcdonanld@mccarthy.com				
TOTAL WORK CATEGORY PACKAGE VALUE		**$5,087,692**				
MCCARTHY SUBCONTRACT & FRONT END TERMS						
1	Compliant with McCarthy Front Ends	Yes				
2	Bid Submitted on McCarthy Bid Form	N/A				
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	N/A				
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing.	Yes				
5	Surety Company	Allianz-Starr				
6	Surety AM Best Rating (Must be A- or Better)	A+				
7	AM Best Financial Size X($500M to $750M) or higher	Yes				
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	Yes				
9	Bond/CDI Cost	0.000%				
10	Included Insurance Requirements (Per Matrix)	Yes				
11	GL Insurance Company Name	Allianz-Starr				
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	A+				
13	PRL Insurance (If required by the Front Ends)	Yes				
14	Pollution Insurance (If required by the Front Ends)	Yes				
15	Tier 1 Approved	Yes				
16	Tier 2 Approved	Yes				
17	Safety Items:	Yes				
18	OSHA Recordable Incident Rate (Current)	0.39				
19	Agrees to comply with PPE requirements including 100% glove policy	Yes				
20	Acknowledges updated ladder policy (platform ladders)	Yes				
21	Task Hazard Analysis included for all tasks	Yes				
22	Tie-off above 6' required	Yes				
23	Includes Hoisting for Sub's Own Work Scope	Yes				
24	Acknowledges Soils Report	Yes				
25	Acknowledges Addenda	Yes				
26	Hold Bid for 150 Days	Yes				
27	Pricing good for the duration of the project	Yes				
28	Sales Tax Included	N/A				
29	**COVID-19 Market Questions**					
30	How has your work program been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No				
31	Have you had any future work opportunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No				
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No				
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No				
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No				
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No				
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No				

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **03A - Structural Concrete**

GMP Date: **5/4/2021 Rev 6/21/2021**

		Recommended				
	COMPANY INFORMATION	**McCarthy** **Zach McDonald** **480-449-4700** Zmcdonanld@mccarthy.com				
	TOTAL WORK CATEGORY PACKAGE VALUE	**$5,087,692**				
37	Do you have any overseas suppliers that may be impeding your supply chain?	No				
38						
39	Per Plans & Specifications	Yes				
40	Division 1 as it relates to this scope of work	Yes				
41	03100 Concrete Formwork	Yes				
42	03200 Concrete Reinforcement	Yes				
43	03251 Concrete Joints	Yes				
44	03300 Cast-In-Place Concrete	Yes				
45	03600 Grout	Yes				
Scope of Work						
Base Bid:		$5,117,120				
46	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 03A - Structural Concrete, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes				
47	Check to Spec completed and submitted to McCarthy	Yes				
48	Reinforcing steel fabrication and installation	Yes				
49	SBE- 3rd Tier Placer to Reinforcing Steel Sub	Yes				
50	Provide temporary guardrails and barricades as defined in the front ends for concrete scope of work only (other rails to be furnished by main job)	Yes				
51	Provide temporary ladders for structural concrete	Yes				
52	Include costs for area cleanup.	Yes				
53	All "A" frame ladders shall be compliant with new McCarthy safety requirements allowing only FRP platform ladders.	Yes				
54	Include concrete floor finishing per construction documents	Yes				
55	Provide and haul off of concrete washout for this scope of work and used formwork materials.	Yes				
56	Formwork drawings and reshore drawings	Yes				
57	Layout for this concrete package. (Survey and control by others (Main job/CMAR)	Yes				
58	Setting of structural steel anchor bolt and embeds	Yes				
59	Provide all pumping or other means and methods for placing concrete.	Yes				
60	Curing measures as required:	Yes				
61	Provide ice and chilled water as required for placement of concrete during hot weather conditions.	Yes				
62	Saw cutting all slabs for construction joints in accordance with ACI-318. (All saw cutting related to demo work by others)	Yes				
63	Set all anchor bolts (post installed anchors by others)	Yes				
64	Grout base plates and equipment	Yes				
65	Set embed angles at sump pits (furnished by others)	Yes				
66	Set weld embed plates (furnished by others)	Yes				
67	Fine grade all slabs from +/- 0.20 after MEP under slab rough-in is complete.	Yes				

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: 03A - Structural Concrete

GMP Date: 5/4/2021 Rev 6/21/2021

Recommended

	COMPANY INFORMATION	**McCarthy** **Zach McDonald** **480-449-4700** Zmcdonanld@mccarthy.com					
	TOTAL WORK CATEGORY PACKAGE VALUE	**$5,087,692**					
68	Turndowns at slab edge as shown	Yes					
69	Slab thickenings at construction joints and at masonry wall locations (includes rebar prep for masonry)	Yes					
70	All screeding must be done to hard edge	Yes					
71	Include necessary patching of walls and decks	Yes					
72	Prepare placement plans to be approved by McCarthy.	Yes					
73	Crane for concrete forming and stripping and rebar placing activities. Include full time certified operator with crane capable of reaching all areas.	Yes					
74	Crane safety per McCarthy's crane safety standards.	Yes					
75	Concrete pumping and/or use of concrete buckets for placements	Yes					
76	All required waste/overage for all concrete elements.	Yes					
77	Provide OSHA approved PPE and filtration systems during all silica dust generating activities.	Yes					
78	Includes rebar caps for concrete work as needed.	Yes					
79	Responsible to submit, coordinate, and verify all inspections, procedures, and tests as required with city/state inspectors and officials, special inspectors, and material testing firms.	Yes					
80	Housekeeping / Cleanup of ties and other debris for a completely clean deck	Yes					
81	Materials pricing valid through duration of scope of work	Yes					
82	Initial on site safety orientation and daily safety meeting included in cost of work.	Yes					
83	Shrinkage reducing admixture in ALL concrete mixes per GSNs	Yes					
84	Pour sequencing and pour breaks per allowable lengths as noted in GSN's	Yes					
85	Use of form savers/mechanical couplers where noted. Also included for means and methods as required for completion of structure if not noted on drawings.	Yes					
86	All water stop, including retrofit, PVC and expandable.	Yes					
87	Slump enhancers used or puddle mortaring as required to meet specifications regarding bottom of wall concrete consolidation.	Yes					
88	Leak Testing at reservoir, sludge holding and Ocotillo filter structures only.	Yes					
89	**Scope specific inclusions by area (in addition to the above)**						
90	**A - AB Diffuser replacements**						
91	Cutback rebar and grout at all saw cut openings in walls/slabs	Yes					
92	Aeration basin pipe support repairs	Yes					
93	Aeration basin concrete wall repairs	Yes					
94	Aeration basin diffuser pipe cut anchor patch	Yes					
95	**A - Blower Piping**						
96	New pipe support pedestals (including setting of pipe saddles embedded in concrete)	Yes					
97	Grouting of pipe supports and anchor plates	Yes					
98	Pipe plugs	Yes					
99	**A - Filters**						
100	Trench slab patchback	Yes					
101	Wall infills	Yes					
102	Cutback rebar and grout at all saw cut openings in walls/slabs	Yes					

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **03A - Structural Concrete**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

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TOTAL WORK CATEGORY PACKAGE VALUE		**$5,087,692**				
103	Sump pit slabs (including hand digging excavation)	Yes				
104	Coring openings and patchback for concrete sump pit placements	Yes				
105	All new walls, decks and slabs as noted in drawings (including all drill & epoxy connections and associated waterstop)	Yes				
106	Equipment pads	Yes				
107	Grout fill where noted.	Yes				
108	**A - Maintenance Building**					
109	All foundations and slabs on grade	Yes				
110	Slab on metal deck at mezzanine (including WWF reinforcing)	Yes				
111	Equipment pads	Yes				
112	**O - Aeration / Anoxic & MCC Replacement**					
113	Slab, Wall and Deck expansions	Yes				
114	Support columns below grade	Yes				
115	Equipment pads	Yes				
116	Grout fill where noted.	Yes				
117	Wall infills	Yes				
118	Cutback rebar and grout at all saw cut openings in walls/slabs	Yes				
119	**O - Chlorine Contact Basin**					
120	Patchback and new pipe penetrations at existing wall(s)	Yes				
121	New CCB DT Beams	Yes				
122	Misc. Grouting	Yes				
123	**O - Clarifiers**					
124	Clarifier launder walls and decks (including all waterstop and D&E connections)	Yes				
125	Grout filling clarifier trough	Yes				
126	Grout fill clarifier basins	Yes				
127	Scarify/roughen bonding slab	Yes				
128	Misc. Grouting	Yes				
129	Pipe plugs	Yes				
130	**O - Filters**					
131	New filter slabs, walls and decks	Yes				
132	Connections to adjacent structure	Yes				
133	Grouting at tertiary filters.	Yes				
134	Equipment pads	Yes				
135	Misc. Grouting	Yes				
136	**O - General (Temp Power, Potholing, Silo Gate)**					
137	Pipe encasements (including reinforcing steel)	Yes				
138	Headwalls	Yes				
139	Misc. exterior equipment pads	Yes				
140	Grouting	Yes				
141	**O - RAS/WAS Pump Station**					
142	Equipment pads	Yes				
143	Patchback at hatch replacements	Yes				

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **03A - Structural Concrete**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	**McCarthy** **Zach McDonald** **480-449-4700** Zmcdonanld@mccarthy.com				
	TOTAL WORK CATEGORY PACKAGE VALUE	**$5,087,692**				
144	Misc. Grouting	Yes				
145	**O - Reservoir**					
146	All slabs, columns, walls, pilasters, decks for complete structure including the following items.	Yes				
147	D&E to existing structure (including waterstop)	Yes				
148	Setting of embeds	Yes				
149	Misc. Grouting	Yes				
150	**O - Roads / Sitework**					
151	Light pole bases (1)	Yes				
152	**O - Splitter Box Mods**					
153	Pipe plugs	Yes				
154	Sludge Holding structure as alternate	Yes				
155	**Scope Coordination:**					
156	Structural Excavation, backfill and haul off	By WC 02B				
157	Fine Grade	By WC 02B				
158	Grouting of masonry walls and connections to masonry	By WC 04A				
159	Masonry wall reinforcing	By WC 04A				
160	Site concrete (other than what is noted/included above)	By WC 02B				
161	CLSM/Slurry backfill of trenches and excavations	By WC 02B				
162	**GMP 1 Early Concrete**	-$29,428.00				
163	COVID-19 Scope Items					
164	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes				
165	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes				
166	All personnel onsite must maintain 6'0" spacing between personnel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes				
167	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes				
168	All tools and equipment used must be sanitized each day.	Yes				
169	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes				
170	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes				
171	Personnel are not allowed to carpool to the site or while onsite.	Yes				
172	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the appropriate testing and quarantine protocols.	Yes				
173						
174	End of Scope					
175	Bond/CDI Cost	$0				
	TOTAL WORK CATEGORY PACKAGE VALUE	**$5,087,692**				

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
03A – Concrete & Reinforcing								
A - AB Diffuser replacements				**10,135**		**26,088**		**$36,223**
874 - Aeration Pipe Support Repair - Concrete								
Drill & Epoxy Dowel (#3,4,5) - Vertical	40.0	EA	20.53	541		280		$821
Install & Remove Scaffolding for IMLR Support Repair	10.0	EA	241.42	2,164		250		$2,414
Remove Conc at IMLR Support Repair (2.25cf/ea)	10.0	EA	275.52	2,705		50		$2,755
Form Pipe Support Repair Areas (4.5sf/ea)	10.0	EA	211.94	2,019		100		$2,119
Pour Conc at IMLR Support Repair (2.25cf/ea)	10.0	EA	295.52	2,705		250		$2,955
Coat SS anchors w/ epoxy	2.0	EA	5,079.00			10,158		$10,158
875 - Aeration Basin Concrete Wall Repair								
Patch Walls in 2 Aeration Basins per Sht M-1.01, Note 8, S-16) ALLOWANCE	1.0	AL	15,000.00			15,000		$15,000
A - Blower Piping				**59,033**		**22,154**	**2,357**	**$83,545**
750 - Pipe Support Pedestals								
Floor Edge Form 12" Pipe Support Footings - 12ea	383.0	LF	20.24	6,890		862		$7,752
Grout Base Plates for Airp Piping Supports	24.0	EA	57.49	1,212		168		$1,380
Floor Edge Form 12" Pipe Support Footing - 11ea	187.0	LF	20.24	3,364		421		$3,785
Floor Edge Form 12" Pipe Support Footing - 18 ea	306.0	LF	20.24	5,505		689		$6,193
Finish Wall Tops	141.5	LF	2.07	286		7		$293
Float Finish	1,109.0	SF	1.56	1,680		55		$1,735
Pour Slab on Grade with Pump	43.1	CY	48.24	1,089			992	$2,081
Sack & Patch Vertical - V2 - Point and Patch	1,258.0	SF	1.82	2,223		63		$2,286
Pour Pipe Support with Pump	4.2	CY	123.97	424			97	$521
Pour Pipe Support with Pump	18.9	CY	123.97	1,904			434	$2,338
Form Pipe Support 5.5'x1'x4' - 11 ea	484.0	SF	17.67	7,463		1,089		$8,552
Form Pipe Support 4.5'x1'x3' - 18ea	486.0	SF	17.67	7,494		1,094		$8,588
5000 PSI Concrete	66.2	CY	188.98			12,508		$12,508
Form Pipe Support Pedestal)18" SQ 2' Tall - 24 ea)	288.0	SF	12.53	2,961		648		$3,609
Rebar Rack	36.0	EA	107.39	3,506		360		$3,866
870 - Misc. Grouting								
Grout Base Plates for Air Piping Supports	53.0	EA	57.49	2,676		371		$3,047
Set Anchor Bolt Set for Air Piping Pedestals	53.0	EA	172.31	8,603		530		$9,133
871 - Misc. Bollards								
Place Concrete Bollard Install at AWRF Blower Building	7.0	EA	336.94	1,414		455	490	$2,359
873 - Pipe Plug - Concrete								
Pour Conc Fill in 30" FRP Pipe with Pump (Sht D-1.12) - 5 ea	15.0	CY	45.72	341			345	$686
5000 PSI Concrete	15.0	CY	188.98			2,835		$2,835
A - Filters				**330,300**	**115**	**167,790**	**19,014**	**$517,219**
201 - Misc. Site Slabs								
Waterstop Hydrophillic	543.0	LF	19.41	2,938		7,602		$10,540
Drill & Epoxy Dowel (#3,4,5) - Horizontal at Trench Cap	298.0	EA	17.03	4,031		1,043		$5,074
Purchase Crushed Stone for Trench Fill (3/8" Aggregate)	47.0	TN	16.00			752		$752
Place Crushed Stone In Trench	23.0	CY	56.49	1,184	115			$1,299
Trowel Cement Finish	305.0	SF	1.06	308		15		$323
Pour Slab on Grade with Pump	15.6	CY	73.49	788			359	$1,146
Scarify/Rough Bonding Surface at Trench Cap Above 3/8" Fill	298.0	SF	2.77	752		75		$827
5000 PSI Concrete	16.7	CY	188.98			3,156		$3,156
203 - Filter Slab (Base Area)								
Waterstop Hydrophillic	384.0	LF	19.41	2,078		5,376		$7,454
Drill & Epoxy Dowel Top & Bottom in Sump Pit - 64ea/sump	192.0	EA	17.03	2,597		672		$3,269
Core Drilling 6" x 12" Deep at Sumps 12ea/sump	36.0	EA	200.00				7,200	$7,200
Trowel Cement Finish	134.0	SF	2.07	271		7		$277
Pour Slab on Grade with Pump	5.2	CY	123.97	526			120	$646
Hand Excavate Sump Pits 7.1cy/ea x 3 Sumps	21.0	CY	75.73	1,590				$1,590
Vactor Truck Sub for Sump Excavation (2 days)	21.0	CY	164.00				3,444	$3,444
5000 PSI Concrete	5.2	CY	188.98			985		$985
Rebar Rack	84.0	LF	6.92	518		63		$581
204 - Filter Slab (At Grade Area)								
Floor Edge Form (GT 1' Ht)	72.0	SF	20.24	1,295		162		$1,457
Expansion/Isolation Joint	18.0	LF	11.82	195		18		$213
Trowel Cement Finish	255.0	SF	1.56	386		13		$399
Pour Slab on Grade with Pump	14.9	CY	73.49	751			342	$1,093
5000 PSI Concrete	14.9	CY	188.98			2,811		$2,811
400 - Filter Channel Walls								
Waterstop Retro	651.0	LF	78.58	26,417		24,738		$51,155
Waterstop 6" PVC	90.0	LF	11.49	584		450		$1,034
Drill & Epoxy Dowel (#3,4,5) - Vertical	853.0	EA	17.03	11,538		2,986		$14,523
Drill & Epoxy Dowel (#3,4,5) - Horizontal	1,320.0	EA	17.03	17,855		4,620		$22,475
Finish Wall Tops	313.0	LF	2.07	632		16		$648
Sack & Patch Vertical - V2 - Point and Patch	8,648.6	SF	1.82	15,282		432		$15,715
Form Wall On Footing (GT 6') - Hand Set	8,648.6	SF	15.93	120,025		17,730		$137,755
Pour Wall GT 10" THK GT 6' with Pump	168.2	CY	73.49	8,490			3,868	$12,358
Wall Bulkheads	90.0	LF	25.88	2,082		248		$2,329
Wall Bulkheads	92.0	SF	25.88	2,127		253		$2,380
BW-12" DIP Wall Pipe 1'-0" at Filters	1.0	EA	344.63	325		20		$345

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
5000 PSI Concrete	196.5	CY	188.98			37,142		$37,142
409 - Wall Patchbacks								
Form & Pour 12" Sleeve in AWRP Filter Wall	1.0	LS	957.47	757		200		$957
411 - Filter Sump Walls								
Finish Wall Tops	66.0	LF	2.07	133		3		$137
Sack & Patch Vertical - V2 - Point and Patch	132.0	SF	1.82	233		7		$240
Pour Small Wall LE 6' with Pump in Core Holes	10.8	CY	123.97	1,086			247	$1,333
Form Wall 1-Sided (GT2'-LE 6') - Hand Set in Sump Pit	132.0	SF	20.24	2,375		297		$2,672
5000 PSI Concrete	10.8	CY	188.98			2,033		$2,033
412 - Filter Infill Walls								
Waterstop Retro (Infill Walls)	480.0	LF	78.58	19,478		18,240		$37,718
Drill & Epoxy Dowel (#3,4,5) - Overhead Vertical (Infill Walls)	192.0	EA	17.03	2,597		672		$3,269
Drill & Epoxy Dowel (#3,4,5) - Overhead Vertical	288.0	EA	17.03	3,896		1,008		$4,904
Scarify/Rough Bonding Surface for Infill Walls	457.0	SF	2.77	1,154		114		$1,268
Sack & Patch Vertical - V2 - Point and Patch	500.0	SF	1.82	884		25		$909
Pour Small Wall LE 6' with Pump (Use Birds Mouth)	9.7	CY	426.89	3,927			224	$4,150
Form Wall Not On Footing (GT2'-LE 6') - Hand Set (Infill Walls)	200.0	SF	26.41	4,832		450		$5,282
Form Wall Not On Footing (GT2'-LE 6') - Hand Set (Trough Infill Walls)	300.0	SF	26.41	7,247		675		$7,922
Pour Wall GT 10" THK GT 6' with Pump	7.9	CY	224.94	1,599			182	$1,781
5000 PSI Concrete	9.7	CY	188.98			1,837		$1,837
610 - Existing Filters Deck								
Drill & Epoxy Dowel (#3,4,5) - Vertical (Filter Walkway Decks)	144.0	EA	17.03	1,948		504		$2,452
Trowel Cement Finish	261.0	SF	2.57	659		13		$672
Sack & Patch Horizontal - H1 - Standard Finish	261.0	SF	1.06	264		13		$277
Pour Slab & Beams with Pump	13.0	CY	73.49	656			299	$955
5000 PSI Concrete	13.0	CY	188.98			2,457		$2,457
Patch Concrete for Hammer Head Formwork	288.0	SF	2.77	509		288		$797
Panel Form Flat Slab Soffit 12'-18'	261.0	SF	30.10	6,708		1,148		$7,856
Flat Slab Reshore 12'-18'	261.0	SF	0.32	71		13		$84
Slab Edge Form	146.0	LF	20.24	2,627		329		$2,955
745 - Equip Pads								
Finish Pad/Island	47.0	SF	8.63	403		2		$406
Drill & Epoxy Dowel (#3,4,5) - Vertical (Filter Equip Pads)	120.0	EA	17.03	1,623		420		$2,043
Pour Pads with Pump	2.2	CY	527.86	1,111			51	$1,161
Form Pad / Island (Filter Equip Pads 12")	101.0	LF	20.24	1,817		227		$2,044
5000 PSI Concrete	2.2	CY	188.98			423		$423
833 - Grout Fill - Filter Basin								
Trowel Cement Finish	1,233.0	SF	1.43	1,706		62		$1,768
Scarify/Rough Bonding Surface for Grout Fill	1,233.0	SF	2.77	3,112		308		$3,421
Pour Topping Slab with Pump	104.5	CY	109.39	9,026			2,403	$11,429
Grout Mix (Grout for Filter Bottoms)	104.5	CY	150.00			15,672		$15,672
870 - Misc. Grouting								
Grout Base Plates for AWRF Filter Canopy	10.0	EA	57.49	505		70		$575
Grout Base Plates For Pipe Supports	194.0	EA	57.49	9,794		1,358		$11,152
Cutback Rebar and Repair at Demo Areas (A - Filters)	1,352.0	EA	10.05	8,856		4,732		$13,588
Set Anchor Bolt Set for AWRF Filter Canopy	10.0	EA	172.31	1,623		100		$1,723
Patch Pipe Penetrations at Core Locations (3" & 4" Pipe)	9.0	EA	68.92	440		180		$620
871 - Misc. Bollards								
Place Concrete Bollard Install at AWRF Filter/Site	4.0	EA	266.94	808		260		$1,068
873 - Pipe Plug - Concrete								
Pour Conc Fill in 30" FRP Pipe with Pump (Sht D-1.16) - 4 ea	12.0	CY	45.72	273			276	$549
5000 PSI Concrete	12.0	CY	188.98			2,268		$2,268
A - General (Temp Power, Potholing)				**2,019**		**280**		**$2,299**
870 - Misc. Grouting								
Grout Base Plates For Elec Supports	40.0	EA	57.49	2,019		280		$2,299
A - Maintenance Building				**81,117**		**101,148**	**13,802**	**$196,067**
104 - Column Footings								
Layout Footing	21.0	EA	97.39	2,045				$2,045
Column Footing Edge Form 6'x6'x1.18' - 4ea	116.0	SF	20.24	2,087		261		$2,348
Column Footing Edge Form 8'x8'x1.18' - 4ea	152.0	SF	20.24	2,734		342		$3,076
Column Footing Edge Form 7.5'x7.5'x1.18' - 9ea	324.0	SF	20.24	5,829		729		$6,558
Column Footing Edge Form 9.5'x9.5'x1.18' - 4ea	180.0	SF	20.24	3,238		405		$3,643
Grout Base Plates for AWRF Main Building	25.0	EA	57.49	1,262		175		$1,437
Pour Column/Mat Footing with Pump	58.2	CY	38.15	881			1,338	$2,218
Set Anchor Bolt Set for AWRF Maint Building Colums	25.0	EA	172.31	4,058		250		$4,308
5000 PSI Concrete	58.2	CY	188.98			10,990		$10,990
200 - Slab on Grade								
Grout Base Plates	21.0	EA	57.49	1,060		147		$1,207
15 Mil Vapor Barrier	8,901.2	SF	0.90	4,044		4,006		$8,050
Floor Edge Form 12"	734.0	SF	20.24	13,205		1,652		$14,856
Bulkheads-On Grade (GT 1' Ht)	258.0	SF	25.88	5,968		710		$6,677
Trowel Cement Finish	8,092.0	SF	1.06	8,171		405		$8,575
Pour Slab on Grade with Pump	353.9	CY	43.19	7,147			8,139	$15,286

Estimate Detail

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6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
5000 PSI Concrete	353.9	CY	188.98			66,878		$66,878
201 - Misc. Site Slabs								
Floor Edge Form (LE 1' Ht)	200.0	LF	20.24	3,598		450		$4,048
Trowel Cement Finish	454.0	SF	1.56	688		23		$710
Pour Slab on Grade with Pump	17.7	CY	78.94	988			406	$1,394
5000 PSI Concrete	17.7	CY	188.98			3,337		$3,337
607 - Slab on Metal Deck								
4X4-4/4 Mesh Sheets	1,873.0	SF	2.83	2,027		1,873	1,405	$5,305
Trowel Cement Finish	1,561.0	SF	1.06	1,576		78		$1,654
Pour Slab Over Metal Deck with Pump	33.2	CY	45.72	755			765	$1,520
Sleeves - Guardrail/Handrail at Maintenance	4.0	EA	27.05	108				$108
5000 PSI Concrete	33.2	CY	188.98			6,282		$6,282
Slab Edge Form at Metal Deck	210.0	LF	20.24	3,778		473		$4,250
Keyed Construction Joint	40.0	LF	22.06	822		60		$882
871 - Misc. Bollards								
Place Concrete Bollard Install at Maintenance	25.0	EA	336.94	5,049		1,625	1,750	$8,424
O - Aeration / Anoxic & MCC Replacement				**160,661**		**76,725**	**5,866**	**$243,252**
202 - A/B Channel Slab Expansion								
Layout Footing	102.0	LF	5.41	552				$552
Grade Beam Edge Form	102.0	SF	20.24	1,835		230		$2,064
Waterstop 6" PVC	63.0	LF	11.49	409		315		$724
Waterstop Hydrophillic	100.0	LF	19.41	541		1,400		$1,941
Waterstop 6" PVC	84.0	LF	11.49	545		420		$965
Waterstop Hydrophillic at Vault SOG	116.0	LF	19.41	628		1,624		$2,252
Floor Edge Form (LE 1' Ht)	155.0	LF	20.24	2,788		349		$3,137
Bulkheads-On Grade (LE 1' Ht)	6.0	LF	25.88	139		17		$155
Drill & Epoxy Dowel (#3,4,5) - Horizontal	100.0	EA	17.03	1,353		350		$1,703
Pour Continuous Footing /Grade Beam with Pump	3.3	CY	60.86	125			76	$201
Drill & Epoxy Dowel (#3,4,5) - Horizontal at Vault SOG	116.0	EA	17.03	1,569		406		$1,975
Trowel Cement Finish	799.0	SF	1.56	1,210		40		$1,250
Pour Slab on Grade with Pump	31.4	CY	60.86	1,191			723	$1,914
Scarify/Rough Bonding Surface	410.0	SF	2.77	1,035		103		$1,137
Form Savers for detail 2/S3.02 - #5	220.0	EA	39.05	5,952		2,640		$8,592
5000 PSI Concrete	34.7	CY	188.98			6,566		$6,566
Keyed Construction Joint	170.0	LF	9.62	1,380		255		$1,635
Inverted Key	272.0	LF	8.22	2,207		27		$2,235
Rebar Rack	136.0	LF	6.92	839		102		$941
210 - Slab on Grade Aeration (Changed Back to SOG from Deck)								
Waterstop 6" PVC	74.0	LF	11.49	480		370		$850
Waterstop Hydrophillic	174.0	LF	19.41	941		2,436		$3,377
Drill & Epoxy Dowel (#3,4,5) - Horizontal	202.0	EA	17.03	2,732		707		$3,439
Trowel Cement Finish	200.0	SF	1.06	202		10		$212
Scarify/Rough Bonding Surface	200.0	SF	2.77	505		50		$555
Sack & Patch Horizontal - H1 - Standard Finish	200.0	SF	1.06	202		10		$212
Pour Slab & Beams with Pump	15.6	CY	40.67	275			358	$633
5000 PSI Concrete	15.6	CY	188.98			2,940		$2,940
Slab Edge Form	202.0	SF	20.24	3,634		455		$4,088
Keyed Construction Joint	74.0	LF	9.62	601		111		$712
Rebar Rack	74.0	LF	6.92	456		56		$512
401 - Channel Walls								
Waterstop Hydrophillic	144.0	LF	19.41	779		2,016		$2,795
Waterstop PVC	18.0	LF	11.49	117		90		$207
Waterstop 6" PVC	13.0	LF	11.49	84		65		$149
Waterstop Hydrophillic	28.0	LF	19.41	151		392		$543
Drill & Epoxy Dowel (#3,4,5) - Vertical	30.0	EA	17.03	406		105		$511
Drill & Epoxy Dowel (#3,4,5) - Horizontal	28.0	EA	17.03	379		98		$477
Finish Wall Tops	132.0	LF	2.07	267		7		$273
Sack & Patch Vertical - V2 - Point and Patch	1,619.5	SF	1.82	2,862		81		$2,943
Form Wall On Footing (GT 6') - Hand Set	1,619.5	SF	16.50	20,811		5,911		$26,722
Pour Wall GT 10" THK GT 6' with Pump	31.5	CY	73.49	1,590			724	$2,314
Wall Bulkheads	30.5	SF	25.88	705		84		$789
5000 PSI Concrete	31.5	CY	188.98			5,951		$5,951
402 - Aeration Basin Wall								
Waterstop Hydtrophillic	40.0	LF	11.49	260		200		$460
Waterstop 6" PVC	88.0	LF	11.49	571		440		$1,011
Waterstop Retro at Vault Wall	30.0	LF	78.58	1,217		1,140		$2,357
Drill & Epoxy Dowel (#3,4,5) - Vertical at Splitter Walls	38.0	EA	17.03	514		133		$647
Drill & Epoxy Dowel (#3,4,5) - Vertical at Vault Wall	76.0	EA	17.03	1,028		266		$1,294
Finish Wall Tops	91.0	LF	2.07	184		5		$188
Sack & Patch Vertical - V2 - Point and Patch	1,300.0	SF	1.82	2,297		65		$2,362
Form Wall On Footing < 6'	208.0	SF	21.64	3,742		759		$4,501
Form Wall On Footing (GT 6') - Hand Set	1,092.0	SF	16.50	14,032		3,986		$18,018
Pour Wall GT 10" THK GT 6' with Pump	27.6	CY	60.86	1,045			635	$1,679
Wall Bulkheads	14.0	SF	25.88	324		39		$362
Set Anchor Bolts at Aeration Baffle Hood	28.0	EA	182.31	4,545		560		$5,105
5000 PSI Concrete	27.6	CY	188.98			5,214		$5,214
Boxouts at Splitter - 44SF	1.0	EA	551.05	541		10		$551

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
500 - Columns								
Drill & Epoxy Dowel (#3,4,5) - Vertical for Columns	12.0	EA	17.03	162		42		$204
Drill & Epoxy Dowel (#3,4,5) - Vertical	16.0	EA	17.03	216		56		$272
Sack & Patch Vertical - V2 - Point and Patch	597.9	SF	1.82	1,057		30		$1,086
Pour Columns with Pump	8.7	CY	73.49	440			200	$640
5000 PSI Concrete	8.7	CY	188.98			1,647		$1,647
Column Form LE 8 Ft HT	112.0	SF	13.78	1,151		392		$1,543
Column Form 16-24' HT 16"x16"x18' Tall - 3ea	288.0	SF	13.78	2,961		1,008		$3,969
Column Form 16-24' HT	197.9	SF	13.78	2,035		693		$2,727
601 - Annoxic Basin Splitter Box								
Waterstop Hydrophillic	30.0	LF	19.41	162		420		$582
Drill & Epoxy Dowel (#3,4,5) - Horizontal at Slab Tie In Lower	18.0	EA	17.03	243		63		$306
Drill & Epoxy Dowel (#3,4,5) - Horizontal	30.0	EA	17.03	406		105		$511
Trowel Cement Finish	214.0	SF	1.06	216		11		$227
Sack & Patch Horizontal - H1 - Standard Finish	232.0	SF	1.06	234		12		$246
Pour Slab & Beams with Pump	11.8	CY	73.49	594			271	$865
5000 PSI Concrete	11.8	CY	188.98			2,235		$2,235
Panel Form Flat Slab Soffit LE 12'	-27.0	SF	59.65	-1,461		-150		($1,611)
Panel Form Flat Slab Soffit 18'-24'	82.0	SF	56.95	4,215		455		$4,670
Panel Form Flat Slab Soffit GT 24'	132.0	SF	56.95	6,785		733		$7,517
Flat Slab Reshore 18'-24'	82.0	SF	2.81	222		8		$230
Flat Slab Reshore GT 24'	132.0	SF	2.81	357		13		$370
Flat Slab Ordinary Beam Soffit LE 12' (Single Use)	27.0	SF	53.90	1,388		68		$1,455
Flat Slab Ordinary Beam Sides	18.0	SF	22.06	370		27		$397
Slab Edge Form	107.0	LF	20.24	1,925		241		$2,166
602 - Annoxic Basin Channel Deck								
Drill & Epoxy Dowel (#3,4,5) - Horizontal at Vault	120.0	EA	17.03	1,623		420		$2,043
Trowel Cement Finish	596.0	SF	1.06	602		30		$632
Sack & Patch Horizontal - H1 - Standard Finish	596.0	SF	1.06	602		30		$632
Pour Slab & Beams with Pump	23.2	CY	40.67	410			533	$943
Sleeves - Guardrail/Handrail at Aeration/Anoxic	55.0	EA	27.05	1,488				$1,488
Embed Angles at Aeration/Anoxic	186.0	LF	13.78	2,516		47		$2,562
5000 PSI Concrete	23.2	CY	188.98			4,380		$4,380
Panel Form Flat Slab Soffit LE 12'	596.0	SF	20.97	9,190		3,308		$12,498
Flat Slab Reshore LE 12'	596.0	SF	0.32	161		30		$191
Slab Edge Form	78.0	LF	20.24	1,403		176		$1,579
611 - Existing Aeration Basin Replace At Cuts								
Drill & Epoxy Dowel (#3,4,5) - Horizontal (at Replacements 12 ea x 8 Locations)	96.0	EA	17.03	1,299		336		$1,635
Trowel Cement Finish	72.0	SF	2.57	182		4		$185
Sack & Patch Horizontal - H1 - Standard Finish	72.0	SF	1.06	73		4		$76
Pour Slab & Beams with Pump	5.9	CY	123.97	592			135	$727
5000 PSI Concrete	5.9	CY	188.98			1,109		$1,109
Stick Form Flat Slab Soffit LE 12' at Replacements	72.0	SF	28.20	1,850		180		$2,030
	48.0	LF	20.24	864		108		$972
745 - Equip Pads								
Finish Pad/Island	15.0	SF	5.10	76		1		$76
Drill & Epoxy Dowel (#6,7) - Vertical at IMLR Pump Pad	8.0	EA	41.03	108		36	184	$328
Pour Pads with Pump	0.9	CY	174.46	133			20	$153
Form Pad at IMLR Pad Edge Form	20.0	LF	20.24	360		45		$405
5000 PSI Concrete	0.9	CY	188.98			165		$165
750 - Pipe Support Pedestals								
Drill & Epoxy Dowel (#3,4,5) - Vertical for Pipe Support	8.0	EA	17.03	108		28		$136
Finish Wall Tops	8.0	LF	2.07	16		0		$17
Sack & Patch Vertical - V2 - Point and Patch	64.0	SF	1.82	113		3		$116
Pour Small Wall LE 6' with Pump	1.2	CY	174.46	188			29	$217
Form Wall On Footing (GT2'-LE 6') - Hand Set	64.0	SF	11.78	658		96		$754
5000 PSI Concrete	1.2	CY	188.98			235		$235
790 - Pipe Encasements								
Form Pipe Encasement for 24" Dia Pipe x 40 LF	240.0	SF	19.49	4,318		360		$4,678
Resteel at 24" Dewatering Pipe Encasement (200 lb/cy) (Sht M-3.07)	0.9	TN	1,950.00				1,755	$1,755
Float Finish	120.0	SF	0.55	61		6		$67
Pour Slab on Grade with Pump	9.7	CY	123.97	979			223	$1,203
5000 PSI Concrete	9.7	CY	188.98			1,833		$1,833
870 - Misc. Grouting								
Grout Base Plates For Pipe Supports	78.0	EA	57.49	3,938		546		$4,484
Cutback Rebar and Repair at Demo Areas (O - Aeration & Anoxic)	1,572.0	EA	10.05	10,297		5,502		$15,799
O - Chlorine Contact Basin				**12,718**		**3,403**	**2,249**	**$18,370**
413 - Chlorine Contact Wall								
RW-48" DIP Wall Pipe 1'-8" at CCB	1.0	EA	344.63	325		20		$345
612 - Chlorine Contact Beams								
Drill & Epoxy Dowel (#3,4,5) - Vertical Into Underside of Existing CCB Deck	104.0	EA	17.03	1,407		364		$1,771

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
Core Drilling 6" DIA x 8" Depth	11.0	EA	200.00				2,200	$2,200
Drill & Epoxy Dowel (#8+) - Horizontal	12.0	EA	19.53	162		72		$234
Sack & Patch Horizontal - H1 - Standard Finish	78.0	SF	1.06	79		4		$83
Pour Slab & Beams with Pump	2.1	CY	224.94	428			49	$477
5000 PSI Concrete	2.1	CY	188.98			400		$400
Flat Slab Ordinary Beam Soffit 18'-24' (Single Use)	34.7	SF	81.68	2,138		693		$2,832
Flat Slab Ordinary Beam Sides	78.0	SF	40.56	1,604		1,560		$3,164
Miscellaneous Deck Interior Beam Soffit at CCB Beams 16" Wide x ?' AFF)	34.7	SF	181.05	6,196		87		$6,282
870 - Misc. Grouting								
Cutback Rebar and Repair at Demo Areas (O - CCB)	58.0	EA	10.05	380		203		$583
O - Clarifiers				**213,423**		**106,432**	**8,939**	**$328,794**
410 - Clarifier Launder Walls								
Finish Wall Tops	604.0	LF	2.07	1,220		30		$1,250
Sack & Patch Vertical - V2 - Point and Patch	2,416.0	SF	1.82	4,269		121		$4,390
Buildup/Breakdown Wood Gang Wall Forms	320.0	SF	8.66	2,770				$2,770
Pour Small Wall LE 6' with Pump	39.1	CY	60.86	1,482			900	$2,383
Form Wall Radius (GT2'-LE 6') - Gang Form	2,416.0	SF	18.92	37,255		8,456		$45,711
Wall Bulkheads - Clarifier No.1	32.0	LF	25.88	740		88		$828
Wall Bulkheads - Clarifier No.2	32.0	LF	25.88	740		88		$828
5000 PSI Concrete	39.1	CY	188.98			7,398		$7,398
603 - Clarifier Trough Deck								
Waterstop Retro - Clarifier No.1	314.0	LF	78.58	12,742		11,932		$24,674
Waterstop Retro - Clarifier No.2	314.0	LF	78.58	12,742		11,932		$24,674
Drill & Epoxy Dowel (#3,4,5) - Horizontal - Clarifier No.1	942.0	EA	17.03	12,742		3,297		$16,039
Drill & Epoxy Dowel (#3,4,5) - Horizontal - Clarifier No.2	942.0	EA	17.03	12,742		3,297		$16,039
Trowel Cement Finish	1,744.0	SF	1.06	1,761		87		$1,848
Sack & Patch Horizontal - H1 - Standard Finish	1,744.0	SF	1.06	1,761		87		$1,848
Pour Slab & Beams with Pump	84.8	CY	60.86	3,210			1,950	$5,160
5000 PSI Concrete	84.8	CY	188.98			16,021		$16,021
Panel Form Flat Slab Soffit LE 12'	1,744.0	SF	27.88	40,339		8,284		$48,623
Flat Slab Reshore LE 12'	1,744.0	SF	0.32	472		87		$559
Slab Edge Form	598.0	LF	20.24	10,758		1,346		$12,103
Keyed Construction Joint	54.0	LF	22.06	1,110		81		$1,191
831 - Grout Fill - Clarifier Trough								
Trowel Finish Grout at Clarifier No.1 Trough	631.0	SF	1.06	637		32		$669
Trowel Finish Grout at Clarifier No.2 Trough	631.0	SF	1.06	637		32		$669
Grout Launder Trough Bottom 4" Thick - Clarifier No.1	7.5	CY	282.37	757		1,173	188	$2,118
Grout Launder Trough Bottom 4" Thick - Clarifier No.2	7.5	CY	282.37	757		1,173	188	$2,118
832 - Grout Fill - Clarifier Basin								
Trowel Cement Finish	15,700.0	SF	1.06	15,853		785		$16,638
Bond Agent Between Slabs	15,700.0	SF	0.35	3,171		2,355		$5,526
Scarify/Rough Bonding Surface Clarifier No.1	7,850.0	SF	1.51	9,908		1,963		$11,870
Scarify/Rough Bonding Surface Clarifier No.2	7,850.0	SF	1.51	9,908		1,963		$11,870
Pour Topping Slab with Pump	127.2	CY	45.72	2,890			2,926	$5,815
4000 PSI Grout	127.2	CY	152.84			19,441		$19,441
Grout Clarifier Bottom - Clarifier No.1	53.0	CY	58.32	1,766			1,325	$3,091
Grout Clarifier Bottom - Clarifier No.2	53.0	CY	58.32	1,766			1,325	$3,091
870 - Misc. Grouting								
Cutback Rebar and Repair at Demo Areas (O - Clarifier No.1)	240.0	EA	10.05	1,572		840		$2,412
Cutback Rebar and Repair at Demo Areas (O - Clarifier No.2)	240.0	EA	10.05	1,572		840		$2,412
Patch Pipe Penetrations at Core Locations (6" Pipe)	2.0	EA	68.92	98		40		$138
Patch Pipe Penetrations at Core Locations (30" Pipe)	2.0	EA	197.84	196		200		$396
Patch Pipe Penetrations at Core Locations (6" Pipe)	1.0	EA	68.92	49		20		$69
873 - Pipe Plug - Concrete								
Waterstop Retro for 30" Pipe Plug Clarifier No.1	20.0	LF	78.58	812		760		$1,572
Waterstop Retro for 30" Pipe Plug Clarifier No.2	20.0	LF	78.58	812		760		$1,572
Drill & Epoxy Dowel (#3,4,5) - Horizontal for 30" Pipe Plug Clarifier No.1	40.0	EA	17.03	541		140		$681
Drill & Epoxy Dowel (#3,4,5) - Horizontal for 30" Pipe Plug Clarifier No.2	40.0	EA	17.03	541		140		$681
Scarify/Rough Bonding Surface for 30" Pipe Plug Clarifier No.2	20.0	SF	2.77	50		5		$55
Scarify/Rough Bonding Surface for 30" Pipe Plug Clarifier No.1	20.0	SF	2.77	50		5		$55
Pour 30" Pipe Plug with Pump Clarifier No.1	3.0	CY	60.86	114			69	$183
Pour 30" Pipe Plug with Pump Clarifier No.2	3.0	CY	60.86	114			69	$183
5000 PSI Concrete	6.0	CY	188.98			1,134		$1,134
O - Filters				**211,510**	**18**	**124,330**	**20,478**	**$356,335**
200 - Slab on Grade								
Waterstop 6" PVC	343.0	LF	11.49	2,227		1,715		$3,942
Floor Edge Form (GT 1' Ht)	401.8	SF	20.24	7,227		904		$8,131
Trowel Cement Finish	1,783.0	SF	1.56	2,701		89		$2,790
Pour Slab on Grade with Pump	87.5	CY	78.72	4,877			2,013	$6,890
5000 PSI Concrete	87.5	CY	188.98			16,539		$16,539
Inverted Key Form	343.0	LF	6.91	1,856		515		$2,370

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
Keyed Construction Joint at Filter SOG	390.0	LF	22.06	8,018		585		$8,603
Rebar Rack	343.0	LF	6.92	2,116		257		$2,373
203 - Filter Slab (Base Area)								
Waterstop 6" PVC	103.0	LF	11.49	669		515		$1,184
Waterstop Retro	161.0	LF	78.58	6,533		6,118		$12,651
Floor Edge Form (GT 1' Ht)	378.8	SF	20.24	6,814		852		$7,666
Drill & Epoxy Dowel (#6,7) - Vertical	220.0	EA	18.03	2,976		990		$3,966
Trowel Cement Finish	955.0	SF	1.06	964		48		$1,012
Pour Slab on Grade with Pump	46.4	CY	123.97	4,687			1,068	$5,755
5000 PSI Concrete	46.4	CY	188.98			8,773		$8,773
Grout Fillet in Filter Corner 1ea - Sheet S-3.2	5.0	CY	225.97	505		500	125	$1,130
Keyed Construction Joint	206.0	LF	15.84	2,954		309		$3,263
Rebar Rack	303.0	LF	6.92	1,869		227		$2,096
204 - Filter Slab (At Grade Area)								
Floor Edge Form (GT 1' Ht)	238.0	SF	20.24	4,282		536		$4,817
Expansion/Isolation Joint	72.0	LF	11.82	779		72		$851
Trowel Cement Finish	383.0	SF	1.06	387		19		$406
Pour Slab on Grade with Pump	29.8	CY	45.72	677			685	$1,362
5000 PSI Concrete	1.4	CY	188.98			268		$268
404 - Filter Walls (Tertiary)								
Waterstop PVC 6"	769.0	LF	11.49	4,993		3,845		$8,838
Waterstop Retro	70.0	LF	78.58	2,841		2,660		$5,501
Waterstop Hydrophillic	20.0	LF	19.41	108		280		$388
Drill & Epoxy Dowel (#3,4,5) - Vertical	160.0	EA	17.03	2,164		560		$2,724
Finish Wall Tops	397.0	LF	2.07	802		20		$822
Set Embed Plate at OWRF Filter Grating Beams	8.0	EA	168.21	866		480		$1,346
Sandblast at Construction Joint	134.8	LF	4.42	544	18	34		$595
Sack & Patch Vertical - V2 - Point and Patch	8,908.9	SF	1.82	15,742		445		$16,188
Form Buildup	1,000.0	SF	6.17	6,168				$6,168
Form Wall On Footing (GT 6') - Hand Set	8,908.9	SF	14.19	88,523		37,863		$126,386
Pour Wall GT 10" THK GT 6' with Pump	179.9	CY	60.86	6,812			4,138	$10,949
Wall Bulkheads	200.1	SF	25.88	4,627		550		$5,178
Sleeves - Guardrail/Handrail at OWRF Filters	73.0	EA	27.05	1,975				$1,975
Embed Angles at OWRF Filters	240.0	LF						
Coil Loops/Form Savers	444.0	EA						
5000 PSI Concrete	179.9	CY	188.98			33,997		$33,997
Boxouts 10sf/ea	7.0	EA	118.21	757		70		$827
745 - Equip Pads								
Finish Pad/Island	27.0	SF	4.09	109		1		$110
Drill & Epoxy Dowel at Filter Equip Pads	80.0	EA	17.03	1,082		280		$1,362
Pour Pads with Pump	1.1	CY	174.46	159			24	$183
Form Equip Pads 12"	63.0	LF	19.24	1,133		79		$1,212
5000 PSI Concrete	1.1	CY	188.98			198		$198
833 - Grout Fill - Filter Basin								
Grout Fill at Filter Bottoms 12" x 446 sf	17.0	CY	200.73	1,287		1,700	425	$3,412
870 - Misc. Grouting								
Grout Base Plates for OWRF Filter Canopy	12.0	EA	57.49	606		84		$690
Grout Base Plates For Pipe Supports	76.0	EA	57.49	3,837		532		$4,369
Cutback Rebar and Repair at Demo Areas (O - Traveling Bridge Filter)	200.0	EA	10.05	1,310		700		$2,010
Set Anchor Bolt Set for OWRF Filter Canopy	12.0	EA	172.31	1,948		120		$2,068
880 - Leak Testing								
Leak Testing	1.0	LS	12,000.00				12,000	$12,000
O - General (Temp Power, Potholing, Silo Gate)				**20,891**		**25,231**	**32,519**	**$78,641**
211 - Slab for 42" Headwall								
Floor Edge Form (LE 1' Ht)	48.0	LF	19.24	864		60		$924
Trowel Cement Finish	140.0	SF	1.06	141		7		$148
Pour Slab on Grade with Pump	5.4	CY	45.72	124			125	$249
5000 PSI Concrete	5.4	CY	188.98			1,029		$1,029
Keyed Construction Joint	38.0	LF	9.07	288		57		$345
Rebar Rack	38.0	LF	6.67	234		19		$253
417 - 42" Outlet Headwall								
42" Headwall Reinforcing including SOG (200 lb/cy)	1.2	TN	1,500.00				1,770	$1,770
Finish Wall Tops	38.0	LF	2.07	77		2		$79
Sack & Patch Vertical - V2 - Point and Patch	494.0	SF	1.82	873		25		$898
Form Wall On Footing (GT 6') - Hand Set	494.0	SF	10.75	4,570		741		$5,311
Pour Wall LE 10" THK GT 6' with Pump	6.4	CY	60.86	242			147	$390
5000 PSI Concrete	6.4	CY	188.98			1,210		$1,210
870 - Misc. Grouting								
Grout Base Plates For Elec Supports	50.0	EA	57.49	2,524		350		$2,874
872 - Pipe Encasements								
Misc Edge Forms at Encasement (FA - 36" FRP)	1.0	LS	970.02	770		200		$970
Misc Edge Forms at Encasement (FBD - 3")	1.0	LS	270.01	220		50		$270
Misc Edge Forms at Encasement (Overflow - 42")	1.0	LS	970.02	770		200		$970
Misc Edge Forms at Encasement (BD - 4")	1.0	LS	250.01	220		30		$250
Misc Edge Forms at Encasement (Dewatering - 18")	1.0	LS	400.01	330		70		$400
Misc Edge Forms at Encasement (NPW - 6")	1.0	LS	250.01	220		30		$250

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
Misc Edge Forms at Encasement (PW - 6")	2.0	LS	250.01	440		60		$500
Misc Edge Forms at Encasement (Drain - 4") at New Filters	1.0	LS	250.01	220		30		$250
Pour Encasement for FA - 36" FRP with Pump	56.0	CY	229.18	3,110		8,436	1,288	$12,834
Pour Encasement for FBD - 3" with Pump	9.6	CY	229.18	533		1,446	221	$2,200
Pour Encasement for Overflow - 42" with Pump	38.2	CY	229.18	2,121		5,755	879	$8,755
Pour Encasement for BD - 4" with Pump	4.6	CY	229.18	255		693	106	$1,054
Pour Encasement for Dewatering - 18" with Pump	10.0	CY	229.18	555		1,507	230	$2,292
Pour Encasement for NPW - 6" with Pump	3.4	CY	229.18	189		512	78	$779
Pour Encasement for Under Structure PW - 6" with Pump	1.8	CY	229.18	100		271	41	$413
Pour Encasement for PW - 6" with Pump	2.5	CY	229.18	139		377	58	$573
Resteel at 36" FA Pipe Encasement (200 lb/cy)	5.6	TN	1,950.00				10,920	$10,920
Resteel at 3" FBD Pipe Encasement (200 lb/cy)	1.0	TN	1,950.00				1,872	$1,872
Resteel at 42" Overflow Pipe Encasement (200 lb/cy)	3.8	TN	1,950.00				7,449	$7,449
Resteel at 4" BD Pipe Encasement (200 lb/cy)	0.5	TN	1,950.00				897	$897
Resteel at 18" Dewatering Pipe Encasement (200 lb/cy)	1.0	TN	1,950.00				1,950	$1,950
Resteel at 6" NPW Pipe Encasement (200 lb/cy)	0.3	TN	1,950.00				663	$663
Resteel at 6" PW Pipe Encasement (200 lb/cy)	0.4	TN	1,950.00				839	$839
Pour Encasement for Drain - 4" with Pump at New Filters	13.7	CY	229.18	761		2,064	315	$3,140
Resteel at 4" Drain Pipe Encasement (200 lb/cy) at New Filters	1.4	TN	1,950.00				2,672	$2,672
O - RAS/WAS Pump Station				**6,540**		**2,563**	**169**	**$9,272**
201 - Misc. Site Slabs								
Hatches 6'x6' at RAS/WAS	1.0	EA	432.84	433				$433
Form New Hatch Replacement	100.0	SF	16.53	1,353		300		$1,653
Pour New Hatch with Pump	2.0	CY	275.43	505			46	$551
5000 PSI Concrete	2.0	CY	188.98			378		$378
745 - Equip Pads								
Finish Pad/Island	69.0	SF	2.07	139		3		$143
Drill & Epoxy Dowel (#6,7) - Vertical	40.0	EA	18.03	541		180		$721
Pour Pads with Pump	5.4	CY	174.46	813			123	$936
Form Pads at RAS/WAS Pump Station - 5ea	74.0	LF	20.24	1,331		167		$1,498
5000 PSI Concrete	5.4	CY	188.98			1,014		$1,014
870 - Misc. Grouting								
Grout Base Plates For Pipe Supports	13.0	EA	57.49	656		91		$747
Cutback Rebar and Repair at Demo Areas (O - RAS/WAS)	80.0	EA	10.05	524		280		$804
Patch Pipe Penetrations at Core Locations (6" & 12" Pipe)	5.0	EA	78.92	245		150		$395
O - Reservoir				**853,353**		**810,188**	**80,680**	**$1,744,221**
207 - Slab on Grade (Sludge Holding/Reservoir)								
Waterstop 6" PVC	1,964.0	LF	11.49	12,751		9,820		$22,571
Waterstop Retro at N. End Tie In	116.0	LF	78.58	4,707		4,408		$9,115
Waterstop 6" PVC (Reservoir at Wall Base Inverted Key)	706.0	LF	11.49	4,584		3,530		$8,114
Floor Edge Form (GT 1' Ht)	967.5	SF	20.24	17,405		2,177		$19,582
Bulkheads-On Grade (GT 1' Ht)	1,964.0	SF	25.88	45,427		5,401		$50,828
Drill & Epoxy Dowel (#6,7) - Horizontal at N. End Tie In	85.0	EA	18.03	1,150		383		$1,532
Trowel Cement Finish	20,027.0	SF	0.55	10,111		1,001		$11,112
Float Finish	57.0	SF	0.55	29		3		$32
Pour Slab on Grade with Pump	1,086.6	CY	45.72	24,687			24,993	$49,680
Place Concrete Fillets at Reservoir Corners 4 ea at 11cy/ea	44.0	CY	22.72	1,000				$1,000
Sandblast Concrete at N. Tie In 3' Tall	249.0	SF	1.76	377		62		$439
6000 PSI Concrete	1,130.6	CY	196.98			222,712		$222,712
Keyed Construction Joint	706.0	LF	9.62	5,730		1,059		$6,789
Keyed Construction Joint (Reservoir Wall Base Inverted Key)	706.0	LF	9.62	5,730		1,059		$6,789
Rebar Rack	706.0	LF	6.92	4,355		530		$4,884
405 - Walls (Reservoir)								
Waterstop 6" PVC	243.0	LF	11.49	1,578		1,215		$2,793
Waterstop 6" PVC at Wall Top & Upper Bottom	541.0	LF	11.49	3,512		2,705		$6,217
Waterstop Retro in Wall Tie in	42.0	LF	78.58	1,704		1,596		$3,300
Waterstop 6" PVC	402.0	LF	11.49	2,610		2,010		$4,620
Waterstop Retro	56.0	LF	78.58	2,272		2,128		$4,400
Blockouts GT 2' Medium	48.0	LF	16.03	649		120		$769
Drill & Epoxy Dowel (#6,7) - Vertical	120.0	EA	18.03	1,623		540		$2,163
Finish Wall Tops	696.0	LF	2.07	1,406		35		$1,440
Drill & Epoxy Dowel (#6,7) - Horizontal in Reservoir Tie in Walls	112.0	EA	18.03	1,515		504		$2,019
Finish Wall Tops	282.0	LF	2.07	569		14		$584
Sack & Patch Vertical - V2 - Point and Patch	23,281.0	SF	1.82	41,138		1,164		$42,302
Buildup/Breakdown Wood Gang Wall Forms	2,160.0	SF	6.17	13,323				$13,323
Form Walls (<6' Handset)	4,489.0	SF	19.75	73,835		14,814		$88,648
Form Walls >6' Gang Form	18,792.0	SF	9.47	115,908		62,014		$177,922
Pour Walls >6'	365.4	CY	60.86	13,836			8,404	$22,240
Pour Walls <6'	87.3	CY	60.86	3,305			2,008	$5,313
Wall Key Forms - Horizontal at Wall Top (Underpin at Exterior Wall)	541.0	LF	5.91	2,927		271		$3,198
Wall Key Forms - Horizontal	376.0	LF	5.91	2,034		188		$2,222

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
Wall Bulkheads	324.0	SF	25.88	7,494		891		$8,385
Overfloew-42" DIP Wall Pipe 1'-8" at Reservoir	1.0	EA	344.63	325		20		$345
RW-48" DIP Wall Pipe 1'-8" at Reservoir	1.0	EA	344.63	325		20		$345
6000 PSI Concrete	452.7	CY	196.98			89,170		$89,170
Boxouts 24sf/ea	2.0	EA	172.31	325		20		$345
Rebar Rack Misc Walls	688.0	LF	6.92	4,244		516		$4,760
500 - Columns								
Sack & Patch Vertical - V2 - Point and Patch	1,713.8	SF	1.82	3,028		86		$3,114
Pour Columns with Pump	33.0	CY	60.86	1,249			759	$2,008
6000 PSI Concrete	33.0	CY	196.98			6,499		$6,499
Column Form 8-16' HT	1,713.5	SF	11.78	17,615		2,570		$20,185
605 - Deck (Reservoir)								
Hatches 5'x5' at Reservoir	2.0	EA	432.84	866				$866
Hatches 7'x5' at Reservoir	3.0	EA	432.84	1,299				$1,299
Waterstop 6" PVC	798.0	LF	11.49	5,181		3,990		$9,171
Waterstop Retro	67.0	LF	78.58	2,719		2,546		$5,265
Waterstop Hydrophillic	123.0	LF	19.41	665		1,722		$2,387
Drill & Epoxy Dowel (#6,7) - Horizontal	240.0	EA	18.03	3,246		1,080		$4,326
Trowel Cement Finish	19,871.0	SF	0.58	10,609		994		$11,602
Sack & Patch Vertical - V2 - Point and Patch	574.6	SF	1.82	1,015		29		$1,044
Sack & Patch Horizontal - H1 - Standard Finish	19,967.0	SF	0.25	4,032		998		$5,031
Pour Structural Slab & Beam with Pump	50.3	CY	40.67	888			1,156	$2,045
Pour Slab & Beams with Pump	1,142.8	CY	40.68	20,203			26,285	$46,489
Form Savers #6	44.0	EA	39.05	1,190		528		$1,718
Embed Angles at Reservoir	37.0	LF	13.53	500				$500
6000 PSI Concrete	1,193.1	CY	196.98			235,018		$235,018
Grout Outlet Box Bottom in Reservoir Box Sht S-3.66	3.0	CY	259.63	404		300	75	$779
Panel Form Flat Slab Soffit 12'-18' (Main Deck)	-72.0	SF	18.60	-925		-414		($1,339)
Panel Form Flat Slab Soffit 12'-18' (Main Deck)	18,729.0	SF	19.65	260,426		107,692		$368,118
Panel Form Flat Slab Soffit 12'-18' (Boxes)	219.0	SF	31.45	5,628		1,259		$6,888
Panel Form Flat Slab Soffit 12'-18' (Boxes)	923.0	SF	31.45	23,721		5,307		$29,028
Flat Slab Reshore 12'-18'	18,948.0	SF	0.37	5,126		1,895		$7,021
Flat Slab Reshore 18'-24'	923.0	SF	0.48	350		92		$442
Drop Panel Edge Forms (Reservior 9'x9'x16" - 12ea)	574.6	SF	17.67	8,860		1,293		$10,153
Flat Slab Ordinary Beam Soffit LE 12' (Single Use)	72.0	SF	25.76	1,480		374		$1,855
Flat Slab Ordinary Beam Sides	96.0	SF	24.31	1,974		360		$2,334
Slab Edge Form	1,158.0	LF	20.24	20,832		2,606		$23,438
Keyed Construction Joint	774.0	LF	22.06	15,913		1,161		$17,074
870 - Misc. Grouting								
Grout Base Plates For Pipe Supports	15.0	EA	57.49	757		105		$862
880 - Leak Testing								
Leak Testing	1.0	LS	17,000.00				17,000	$17,000
O - Roads / Sitework				**541**		**678**		**$1,219**
900 - Concrete Repair Allowances								
5000 PSI Concrete	2.0	CY	188.98			378		$378
Form & Place Concrete Light Pole Base (Sheet D-3.01)	1.0	EA	841.05	541		300		$841
O - Splitter Box Mods				**909**		**1,134**	**138**	**$2,181**
873 - Pipe Plug - Concrete								
Pour Conc Fill in 24" at West Res Inlet/Out Chamber Pipe with Pump (Sht D-3.30) - 2 ea	6.0	CY	174.46	909			138	$1,047
5000 PSI Concrete	6.0	CY	188.98			1,134		$1,134
Z - General Requirements (both plants)				**517,394**	**273,146**	**286,427**		**$1,499,483**
Project/Field Supervision								
Assistant Project Manager (Kim Young)	42.0	WK	4,354.78	182,901				$182,901
Concrete Superintendent (Jose Vega)	41.6	WK	4,995.16	207,799				$207,799
General Carpentry								
Building Layout (Crew)	25.6	HR	63.64	1,629				$1,629
BIM / VDC Services	704.0	HR	90.00			63,360		$63,360
Concrete Washout	4,440.0	CY	3.00			13,320		$13,320
Concrete Washout Labor	4,440.0	CY	2.28	10,131				$10,131
Job Support Items								
Double Wide Trailers (Airport)	3.0	MO	1,441.00			4,323		$4,323
Tool Trailer	14.4	MO	151.78		2,186			$2,186
Storage Trailer	14.4	MO	151.78		2,186			$2,186
Motorola Radios	98.0	MO	75.00			7,350		$7,350
Water Distribution	36,816.6	MH	0.31	11,533				$11,533
Drinking Water/Cups	36,816.6	MH	0.18			6,627		$6,627
First Aid	8.0	MO	175.00			1,400		$1,400
Personal Protective Gear	36,816.6	MH	1.25			46,021		$46,021
Temp. Site Barricades-Wood Rail	1,500.0	LF	7.98	4,464		7,500		$11,964
Temp Ladders/Stairs	9.0	EA	516.51	1,049		3,600		$4,649
Fire Extinguishers	9.0	EA	150.00			1,350		$1,350
Control Logistics								
Yard Charges/Services	6.4	MO	500.00			3,200		$3,200
Rebar Protection	1.0	LS	2,800.00			2,800		$2,800
Safety Programs	36,816.6	MH	0.29			10,677		$10,677
Drug Testing	36,816.6	MH	0.12			4,418		$4,418

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
Structural Consultant	1.0	LS	3,000.00			3,000		$3,000
Equipment Cost								
Rough Terrain Crane-65 Ton	9.0	MO	27,022.40	97,889	145,313			$243,202
Crane - Move In/Out - RT	6.0	EA	2,250.00		13,500			$13,500
Small Tools	36,816.6	MH	1.50			55,225		$55,225
Concrete Equipment- Finishers	4,440.0	CY	6.00			26,640		$26,640
Forklift - Petibone 8000	11.0	MO	3,244.74		35,692			$35,692
Boom Lift	2.0	MO	3,931.16		7,862			$7,862
Scissor Lift	32.0	MO	822.10		26,307			$26,307
Compressor 175 CFM	8.0	MO	944.77		7,558			$7,558
Generator 25KW	2.0	EA	2,776.22		5,552			$5,552
Light Plants	25.6	MO	824.74		21,113			$21,113
Fuel, Oil & Parts-Equip	104,085.3	%	0.20			20,817		$20,817
Pickup Trucks Jobsite	9.6	MO	612.19		5,877			$5,877
Fuel, Oil & Parts-PU/Van/Gator	9.6	MO	500.00			4,800		$4,800
Contractor Fee @ 9%	4,694,605.3	%	0.09					$422,514
03A – Concrete & Reinforcing Total				**2,480,544**	**273,279**	**1,754,571**	**186,211**	**$5,117,120**

Chandler WRF
GMP 2
Self-Perform Concrete Ready-mix Analysis
Sunday, July 19, 2020
SALES TAX TO BE APPLIED TO PRICING:

MODIFY SALMON COLOR INPUT CELLS ONLY

Mix	*AZ Materials*	*Hanson*	*Cemex*	*Average*	*Estimate*
3,000 PSI - Sidewalks, Curbs, Gutters, Fill, Encasements	$ 147.08	$ 155.46	$ 141.53	*$ 113.85*	
5,000 PSI - All Concrete UNO	$ 188.98	$ 195.88	$ 187.83	*$ 146.35*	***$ 192.55***
6,000 PSI - Ocotillo Reservoir	$ 196.98	$ 206.88	$ 193.83	*$ 152.60*	***$ 200.55***
Grout	$ 152.84	$ 155.53	$ 155.18	*$ 118.29*	***$ 156.40***
LSUM TOTAL:	**$ 1,132,143**	**$ 1,180,670**	**$ 1,120,141**	***$ 876,884***	***$ 1,153,168***

Arizona Materials

Customer Service: 602-278-7777
Fax: 602-278-3077
3636 S 43rd Ave
Phoenix, AZ 85009

PROJECT QUOTATION

CUSTOMER:	McCarthy Building Companies, Inc.	**PROJECT:**	Chandler WRF Improvements
Contact:	Zack McDonald	Address:	Airport & Water Compass Locations
Phone:	480-262-7261	City,State,Zip:	CHANDLER, AZ, 8500
Fax:		Quote ID:	1602 (10)
Email:	zmcdonald@mccarthy.com	Total Qty:	5,900 CYD (Estimated)

Concrete Products

Qty	Description	Mix Id	Price	Comments
2900	6000 PSI W/Ash	16000	$135.50	6000 PSI .40 W/C
8	6000 PSI Flowable	16050	$138.50	6000 PSI FLOW .40 W/C
2800	MAG AAA, 5000 PSI	15004	$135.50	5000 PSI .40 W/C
8	5000 PSI, MAG AAA Flowable	15054	$138.50	5000 PSI FLOW .40 W/C
8	5000 PSI 1" Rock W/Ash	15000	$127.50	CLASS A 5000 .45 W/C
8	5000 PSI Flowable	15050	$130.50	CLASS A 5000 .45 W/C FLOW
144	MAG-A 3000 PSI	13004	$117.50	CLASS B 3000 .55 W/C
8	3000 PSI MAG A Flowable	13054	$120.50	CLASS B 3000 .55 W/C FLOW
8	2000 PSI MAG C	12004	$115.50	
8	2000 PSI, MAG C Flowable	12054	$118.50	

UTILITY RED IN 13004 & 13054, ADDS $22.00 YD
QUOTED AS 90 DEGREE MAX TEMP. IF AIR ENTRAINMENT IS REQUIRED ADD $12.00 YD
ALL CONCRETE IS QUOTED AS NON AIR ENTRAINED. ALL QUALIFYING TESTS REQUIRED OF THE CONCRETE WILL BE AT THE CONTRACTORS EXPENCE.

Add-On Products

Chilled Water : $0.00/Per Yard
Hot Water : $1.00/Per Yard
Nitro : $9.50/Per Yard

Price Increase and Quote Expiration

Concrete pricing subject to change in the event of cement / fly ash allocations and / or unanticipated cement / fly ash price increases.

Price Increase #1 : Add $8.00/CYD on 04/01/2022
All prices expire on quoted expiration date. 12/31/2022

Charges and Fees

Environmental : $/Each
Fuel Surcharges : $/Each
SHORTLOAD CHARGES : $200.00/Each

Arizona Materials accepts no responsiblity for any damage to curb and beyond curb line. It will be Buyers reponsibility to contact Arizona Materials Quality Control Department with any concrete issue/concerns within 48 hours after placement. Buyer is responsible to provide safe access to point of delivery. All materials are produced in conformance with ACI / ASTM standards. Mixes quoted below, unless otherwise stated, conform to no specific water cement ratio, minimum sack content, shrinkage, temperature requirement, or the plans and specifications of this project.
All colored concrete loads have a 3 yard minimum.
Arizona Materials cannot guarantee compressive strengths of 5000 PSI or below for loads less than 3 yards.
5000 PSI or above must be 5 yards or more to quarantee compressive strength.

Payment is due and payable on or before the 15th day of the month following to receive 2% discount. Account must be current in full to be eligible to apply discount. A service charge not to exceed the maximum allowed by law applies on unpaid invoice amounts beginning the 1st day of the month following due date and daily thereafter until paid in full. Should litigation be commenced to enforce payment, the prevailing party is entitled to reimbursement of reasonable attorney fees and court costs.

Buyer has 30 days to validate quote with P.O. , signing issued quote, or written verification.

Prepared and Submitted By:		Acceptance (void if not accepted before 05/07/2021)	
Name:	Frank Campbell	Signature	Date
Date:	04/07/2021	Print Name	
Phone:	6027217259	Title	
Fax:		Company	
Email:	fcampbell@azmatl.com		

Corporate Offices:
3636 S. 43rd Avenue
Phoenix, AZ 85009
Phone: 602-278-7777
Fax: 602-442-6905
www.arizonamaterials.net

Terms and Conditions of Sale

Additives
Hot / Chilled Water - $1.00 per cubic yard
Nitrogen Cooling - $9.50 per cubic yard
Non-Chloride Accelerator - $1.50 per unit
Recover - $2.00 per 1/2 Hour

Fiber
Micro Fiber - $6.00 per yard
Macro Fiber (Structural) - Priced as Quoted

Color
Standard Liquid Color - See mix detail for per yard pricing
Color Washout - $25.00 per load

Delivery
Fuel Surcharge - $15.00 per load
Wash Out System Buckets - $25.00 per load (requested at time of order)
Standby Charges - $1.50 per minute beyond 6 minutes per cubic yard
Short Load Charges - 6 yards or less $200.00 per load
Environmental Fee - $25.00 per load

All order backs/split loads under 11 yds on one order are subject to Short Load Charges.
Weekend Delivery - $50.00 per load
Plant Opening Charge - $500.00/hr, 4 hour minimum
Sunday / Holiday Opening - $750.00/hr, 4 hour minimum

Concrete Pricing subject to change in the event of cement / fly ash allocations and/or unanticipated cement / fly ash price increases.

All materials are produced in conformance with ACI / ASTM Standards.

Contractor is responsible to provide safe access to the point of delivery.

Arizona Materials accepts no responsibility for damages to any curb and beyond the curb line.

It is Contractors responsibility to contact Arizona Materials Quality Control Department with any

MARDIAN CONCRETE PUMPING CO.

Concrete Pump and Laser Screed Operated & Maintained Quotation

221 S. 35th Avenue
Phoenix, AZ 85009

Date: 3/19/2021
Expires: 4/18/2021

Customer Information		Job Information			
Customer Name:	McCarthy Building Co	**Job Name:**	AWRF		
Contact:	Ben Whitlock	**Location:**	Arizona Ave. & Queen Creek Rd		
Address:	6225 N. 24th Street # 200	**Address:**	905 E Queen Creek Rd.		
City/St/Zip:	Phoenix,AZ 85016	**City/St/Zip:**	Chandler AZ 85286		
Business Phone:	480-449-4700	**Start Date:**	TBD		
Business Fax:	480-449-4747	**Job Time:**	TBD		
Mobile:	602-320-7837	**Duration:**	TBD	**PO #:**	TBD
E-mail:	bwhitlock@mccarthy.com	**Work:**	General Pumping		

Directions:

Equipment Size:	17/20 Meter	31Z/32 Meter	36Z Meter	38Z/39 Meter
Boom Length:	43'-55'	87'-93'	105'	108'-115'
Minimum Rental:	N/A	N/A	N/A	N/A
Move In:	Hourly	Hourly	Hourly	Hourly
Setup:	Hourly	Hourly	Hourly	Hourly
PERMIT:	$20.00	$20.00	$20.00	$20.00
Operate:	$115.00	$120.00	$130.00	$145.00
Pump Yardage:	$2.50	$2.50	$2.50	$2.50
Screed Square Footage:	N/A	N/A	N/A	N/A
Tear Down:	Hourly	Hourly	Hourly	Hourly
Move Out:	Hourly	Hourly	Hourly	Hourly
Overtime:	$40. Per Hr after 8 Hrs	$40. Per Hr after 8 Hrs	$40. Per Hr after 8 Hrs	$40. Per Hr after 8 Hrs
Subsistence:	N/A	N/A	N/A	N/A

Special Terms:

Notes:

8% FUEL / INSURANCE SURCHARGE APPLIES TO ALL INVOICES

THE FOLLOWING TERMS AND CONDITIONS APPLY:
(1) Straight time hours are Monday-Friday before 4:00 p.m. and not exceeding 8 hours, excluding holidays. Any work performed outside of these hours will be at the customer's request and billed at the appropriate premium rate. Crews working with a double time craft shall receive double time pay. **(2)** Curfew travel restrictions are from 7:00 a.m. to 9:00 a.m. and from 4:00 p.m. to 6:00 p.m.. During these times, labor only will be charged to the customer at the Stand By rate plus overtime if applicable. **(3)** Customer agrees that all work and contractual rights shall be pursuant to the terms and conditions of the Mardian Concrete Pumping Co. ("Mardian") Short Term Lease Agreement, whether provided upon delivery or as requested by customer. **(4)** Customer agrees that it is responsible for a clear, level, and compacted surface, and for clearance of any overhead obstructions. Restricted jobsites, and site changes are all subject to additional charges. Mardian is not responsible for damage to existing street, curb, driveway, landscaping, or sidewalk due to ingress, egress, or stabilization of Mardian's equipment. **(5)** Customer agrees that it is responsible for all street closures, traffic management, barricading, and any applicable expenses and taxes. If customer requires Owner Controlled Insurance coverage or certified payroll notice must be provided to Mardian 72 hours prior to job start. **(6)** Equipment is subject to availability. **(7)** Customer agrees that this offer is accepted upon ordering the equipment and is not the entire agreement. **(8)** Where Mardian will be pumping in a remote area, Mardian will assume no responsibility, nor allow any back charge for lost time and/or materials in the event of equipment failure. **(9)** Customer agrees to have a person authorized to sign Short Term Lease Agreement on behalf of Customer be present at start of job to sign Short Term Lease Agreement. **(10)** Certified payroll required will be charged a one time fee of $150.00.

Please call with any questions. Thank you for the opportunity to quote this job.

Sale Rep. PHIL McCAIN **Mobile:** 602-980-8526
Business: **E-Mail:** PMcCAIN@MardianConcretePumping.com
Business Fax: (602) 352-8055 **Sales ID:** 378

221 S. 35th Avenue
Phoenix AZ, 85009
602-272-2671

4142 E. Tennessee
Tucson, AZ 85714
520-748-8636

2703 E. Industrial Dr.
Flagstaff, AZ 86004
928-526-4966

MARDIAN CONCRETE PUMPING CO.

Concrete Pump and Laser Screed Operated & Maintained Quotation

221 S. 35th Avenue
Phoenix, AZ 85009

Date: 3/19/2021
Expires: 4/18/2021

Customer Information		Job Information			
Customer Name:	McCarthy Building Co	**Job Name:**	AWRF		
Contact:	Ben Whitlock	**Location:**	Arizona Ave. & Queen Creek Rd		
Address:	6225 N. 24th Street # 200	**Address:**	905 E Queen Creek Rd.		
City/St/Zip:	Phoenix,AZ 85016	**City/St/Zip:**	Chandler AZ 85286		
Business Phone:	480-449-4700	**Start Date:**	TBD		
Business Fax:	480-449-4747	**Job Time:**	TBD		
Mobile:	602-320-7837	**Duration:**	TBD	**PO #:**	TBD
E-mail:	bwhitlock@mccarthy.com	**Work:**	General Pumping		

Directions:

Equipment Size:	41/42 Meter	45/47 Meter	52 Meter	56Z Meter
Boom Length:	120'-125'	135'-141'	152'	163'
Minimum Rental:	N/A	N/A	N/A	N/A
Move In:	Hourly	Hourly	Hourly	Hourly
Setup:	Hourly	Hourly	Hourly	Hourly
PERMIT:	$20.00	$20.00	$20.00	$20.00
Operate:	$155.00	$180.00	$195.00	$220.00
Pump Yardage:	$2.50	$2.75	$3.00	$3.50
Screed Square Footage:	N/A	N/A	N/A	N/A
Tear Down:	Hourly	Hourly	Hourly	Hourly
Move Out:	Hourly	Hourly	Hourly	Hourly
Overtime:	$40. Per Hr after 8 Hrs	$40. Per Hr after 8 Hrs	$40. Per Hr after 8 Hrs	$40. Per Hr after 8 Hrs
Subsistence:	N/A	N/A	N/A	N/A

Special Terms:

Notes:

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Concrete Pump and Laser Screed Operated & Maintained Quotation

221 S. 35th Avenue
Phoenix, AZ 85009

Date: 3/19/2021
Expires: 4/18/2021

Customer Information		Job Information			
Customer Name:	McCarthy Building Co	**Job Name:**	AWRF		
Contact:	Ben Whitlock	**Location:**	Arizona Ave. & Queen Creek Rd		
Address:	6225 N. 24th Street # 200	**Address:**	905 E Queen Creek Rd.		
City/St/Zip:	Phoenix,AZ 85016	**City/St/Zip:**	Chandler AZ 85286		
Business Phone:	480-449-4700	**Start Date:**	TBD		
Business Fax:	480-449-4747	**Job Time:**	TBD		
Mobile:	602-320-7837	**Duration:**	TBD	**PO #:**	TBD
E-mail:	bwhitlock@mccarthy.com	**Work:**	General Pumping		

Directions:

Equipment Size:	**Telebelt**	**61 Meter**	**63 Meter**	**65 Meter**
Boom Length:	110'	184'	191'	197'
Minimum Rental:	N/A	N/A	N/A	N/A
Move In:	Hourly	Hourly	Hourly	Hourly
Setup:	Hourly	Hourly	Hourly	Hourly
PERMIT:	N/A	$20.00	$20.00	$20.00
Operate:	$195.00	$250.00	$265.00	$295.00
Pump Yardage:	$2.75	$3.75	$4.25	$4.25
Screed Square Footage:	N/A	N/A	N/A	N/A
Tear Down:	Hourly	Hourly	Hourly	Hourly
Move Out:	Hourly	Hourly	Hourly	Hourly
Overtime:	$40. Per Hr after 8 Hrs	$40. Per Hr after 8 Hrs	$40. Per Hr after 8 Hrs	$40. Per Hr after 8 Hrs
Subsistence:	N/A	N/A	N/A	N/A

Special Terms:

Notes:

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221 S. 35th Avenue
Phoenix, AZ 85009

Date: 3/19/2021
Expires: 4/18/2021

Customer Information		Job Information			
Customer Name:	McCarthy Building Co	**Job Name:**	OWRF		
Contact:	Ben Whitlock	**Location:**	Queen Creek & Old Price Rd.		
Address:	6225 N. 24th Street # 200	**Address:**	3333 S Old Price Rd.		
City/St/Zip:	Phoenix,AZ 85016	**City/St/Zip:**	Chandler AZ 85248		
Business Phone:	480-449-4700	**Start Date:**	TBD		
Business Fax:	480-449-4747	**Job Time:**	TBD		
Mobile:	602-320-7837	**Duration:**	TBD	**PO #:**	TBD
E-mail:	bwhitlock@mccarthy.com	**Work:**	General Pumping		

Directions:

Equipment Size:	17/20 Meter	31Z/32 Meter	36Z Meter	38Z/39 Meter
Boom Length:	43'-55'	87'-93'	105'	108'-115'
Minimum Rental:	N/A	N/A	N/A	N/A
Move In:	Hourly	Hourly	Hourly	Hourly
Setup:	Hourly	Hourly	Hourly	Hourly
PERMIT:	$20.00	$20.00	$20.00	$20.00
Operate:	$115.00	$120.00	$130.00	$145.00
Pump Yardage:	$2.50	$2.50	$2.50	$2.50
Screed Square Footage:	N/A	N/A	N/A	N/A
Tear Down:	Hourly	Hourly	Hourly	Hourly
Move Out:	Hourly	Hourly	Hourly	Hourly
Overtime:	$40. Per Hr after 8 Hrs	$40. Per Hr after 8 Hrs	$40. Per Hr after 8 Hrs	$40. Per Hr after 8 Hrs
Subsistence:	N/A	N/A	N/A	N/A

Special Terms:

Notes:

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Phoenix, AZ 85009

Date: 3/19/2021
Expires: 4/18/2021

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Customer Name:	McCarthy Building Co	**Job Name:**	OWRF		
Contact:	Ben Whitlock	**Location:**	Queen Creek & Old Price Rd.		
Address:	6225 N. 24th Street # 200	**Address:**	3333 S Old Price Rd.		
City/St/Zip:	Phoenix,AZ 85016	**City/St/Zip:**	Chandler AZ 85248		
Business Phone:	480-449-4700	**Start Date:**	TBD		
Business Fax:	480-449-4747	**Job Time:**	TBD		
Mobile:	602-320-7837	**Duration:**	TBD	**PO #:**	TBD
E-mail:	bwhitlock@mccarthy.com	**Work:**	General Pumping		

Directions:

Equipment Size:	**41/42 Meter**	**45/47 Meter**	**52 Meter**	**56Z Meter**
Boom Length:	120'-125'	135'-141'	152'	163'
Minimum Rental:	N/A	N/A	N/A	N/A
Move In:	Hourly	Hourly	Hourly	Hourly
Setup:	Hourly	Hourly	Hourly	Hourly
PERMIT:	$20.00	$20.00	$20.00	$20.00
Operate:	$155.00	$180.00	$195.00	$220.00
Pump Yardage:	$2.50	$2.75	$3.00	$3.50
Screed Square Footage:	N/A	N/A	N/A	N/A
Tear Down:	Hourly	Hourly	Hourly	Hourly
Move Out:	Hourly	Hourly	Hourly	Hourly
Overtime:	$40. Per Hr after 8 Hrs	$40. Per Hr after 8 Hrs	$40. Per Hr after 8 Hrs	$40. Per Hr after 8 Hrs
Subsistence:	N/A	N/A	N/A	N/A

Special Terms:

Notes:

8% FUEL / INSURANCE SURCHARGE APPLIES TO ALL INVOICES

THE FOLLOWING TERMS AND CONDITIONS APPLY:
(1) Straight time hours are Monday-Friday before 4:00 p.m. and not exceeding 8 hours, excluding holidays. Any work performed outside of these hours will be at the customer's request and billed at the appropriate premium rate. Crews working with a double time craft shall receive double time pay. **(2)** Curfew travel restrictions are from 7:00 a.m. to 9:00 a.m. and from 4:00 p.m. to 6:00 p.m.. During these times, labor only will be charged to the customer at the Stand By rate plus overtime if applicable. **(3)** Customer agrees that all work and contractual rights shall be pursuant to the terms and conditions of the Mardian Concrete Pumping Co. ("Mardian") Short Term Lease Agreement, whether provided upon delivery or as requested by customer. **(4)** Customer agrees that it is responsible for a clear, level, and compacted surface, and for clearance of any overhead obstructions. Restricted jobsites, and site changes are all subject to additional charges. Mardian is not responsible for damage to existing street, curb, driveway, landscaping, or sidewalk due to ingress, egress, or stabilization of Mardian's equipment. **(5)** Customer agrees that it is responsible for all street closures, traffic management, barricading, and any applicable expenses and taxes. If customer requires Owner Controlled Insurance coverage or certified payroll notice must be provided to Mardian 72 hours prior to job start. **(6)** Equipment is subject to availability. **(7)** Customer agrees that this offer is accepted upon ordering the equipment and is not the entire agreement. **(8)** Where Mardian will be pumping in a remote area, Mardian will assume no responsibility, nor allow any back charge for lost time and/or materials in the event of equipment failure. **(9)** Customer agrees to have a person authorized to sign Short Term Lease Agreement on behalf of Customer be present at start of job to sign Short Term Lease Agreement. **(10)** Certified payroll required will be charged a one time fee of $150.00.

Please call with any questions. Thank you for the opportunity to quote this job.

Sale Rep. PHIL McCAIN **Mobile:** 602-980-8526
Business: **E-Mail:** PMcCAIN@MardianConcretePumping.com
Business Fax: (602) 352-8055 **Sales ID:** 378

221 S. 35th Avenue
Phoenix AZ, 85009
602-272-2671

4142 E. Tennessee
Tucson, AZ 85714
520-748-8636

2703 E. Industrial Dr.
Flagstaff, AZ 86004
928-526-4966

MARDIAN CONCRETE PUMPING CO.

Concrete Pump and Laser Screed Operated & Maintained Quotation

221 S. 35th Avenue
Phoenix, AZ 85009

Date: 3/19/2021
Expires: 4/18/2021

Customer Information		Job Information			
Customer Name:	McCarthy Building Co	**Job Name:**	OWRF		
Contact:	Ben Whitlock	**Location:**	Queen Creek & Old Price Rd.		
Address:	6225 N. 24th Street # 200	**Address:**	3333 S Old Price Rd.		
City/St/Zip:	Phoenix,AZ 85016	**City/St/Zip:**	Chandler AZ 85248		
Business Phone:	480-449-4700	**Start Date:**	TBD		
Business Fax:	480-449-4747	**Job Time:**	TBD		
Mobile:	602-320-7837	**Duration:**	TBD	**PO #:**	TBD
E-mail:	bwhitlock@mccarthy.com	**Work:**	General Pumping		

Directions:

Equipment Size:	**Telebelt**	**61 Meter**	**63 Meter**	**65 Meter**
Boom Length:	110'	184'	191'	197'
Minimum Rental:	N/A	N/A	N/A	N/A
Move In:	Hourly	Hourly	Hourly	Hourly
Setup:	Hourly	Hourly	Hourly	Hourly
PERMIT:	N/A	$20.00	$20.00	$20.00
Operate:	$195.00	$250.00	$265.00	$295.00
Pump Yardage:	$2.75	$3.75	$4.25	$4.25
Screed Square Footage:	N/A	N/A	N/A	N/A
Tear Down:	Hourly	Hourly	Hourly	Hourly
Move Out:	Hourly	Hourly	Hourly	Hourly
Overtime:	$40. Per Hr after 8 Hrs	$40. Per Hr after 8 Hrs	$40. Per Hr after 8 Hrs	$40. Per Hr after 8 Hrs
Subsistence:	N/A	N/A	N/A	N/A

Special Terms:

Notes:

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Chandler WRF Improvements Project
GMP 2 Work Category Solicited Subcontractors Summary
Work Category: **03A Concrete and Reinforcing**

Subcontractor/Supplier Name	***Status***
Tyler Reinforcing	*Recommended*
Harris Rebar	*Proposed*
CMC Rebar	*Proposed*
Sun Coast	*Proposed*
Paradise Rebar	*Declined*
Border Construction Specialties	*Declined*
Endo Steel	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **03A.1 - Concrete Reinforcing**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Tyler Reinforcing	Harris Rebar	CMC Rebar	Sun Coast	Paradise Rebar Inc.
		Joel Byko	Chad Jones	Phillippe Marcus	John Walsh	Phil Boone
		(520) 403-9383	(480) 431-7278	602-577-2495	(480) 404-2625	602-447-0839
		joel@tylerreinforcing.com	chjones@harrisrebar.com	philippe.marcus@cmc.com	jwalsh@suncoast-pt.com	philb@paradisereabar.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$879,869**	**$883,429**	**$1,337,000**	**$1,010,158**	**Declined**
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	Yes	Yes	Yes	Yes	
2	Bid Submitted on McCarthy Bid Form	Yes	Yes	Yes	Yes	
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	Yes	Pending	Yes	Yes	
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing. (The date on the letter provided should be within the last 30 days and the letter should include the status of their line of credit.)	Pending	Pending	Pending	Pending	
5	Surety Company	Merchants National	Federal Insurance	Liberty Mutual	Zurich/Fidelity	
6	Surety AM Best Rating (Must be A- or Better)	A	A++	A	A+	
7	AM Best Financial Size X($500M to $750M) or higher	VIII	XV	XV	XV	
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	Yes	Yes	Yes	Yes	
9	Bond/CDI Cost	1.295%	1.295%	1.295%	1.295%	
10	Included Insurance Requirements (Per Matrix)	Yes	Yes	Yes	Yes	
11	GL Insurance Company Name	Transportation Insurance	Zurich American	Zurich American	XL Insurance	
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	A	A+	A+	A+	
13	PRL Insurance (If required by the Front Ends)	N/A	N/A	N/A	N/A	
14	Pollution Insurance (If required by the Front Ends)	N/A	N/A	N/A	N/A	
15	Tier 1 Approved	Approved w/Conditions	Approved	Approved	Draft	
16	Tier 2 Approved	N/A	N/A	N/A	N/A	
17	Safety Items:	Yes	Yes	Yes	Yes	
18	OSHA Recordable Incident Rate (Current)	2.07	4.86	1.58	0.00	
19	Agrees to comply with PPE requirements including 100% glove policy	Yes	Yes	Yes	Yes	
20	Acknowledges updated ladder policy (platform ladders)	Yes	Yes	Yes	Yes	
21	Task Hazard Analysis included for all tasks	Yes	Yes	Yes	Yes	
22	Tie-off above 6' required	Yes	Yes	Yes	Yes	
23	Includes Hoisting for Sub's Own Work Scope	Operator Only	Operator Only	Operator Only	Operator Only	
24	Acknowledges Soils Report	N/A	N/A	N/A	N/A	
25	Acknowledges Addenda	Yes	Yes	Yes	Yes	
26	Hold Bid for 150 Days	60 Days	60 Days	10 Days	30 Days	
27	Pricing good for the duration of the project	Yes	Yes	Pending	Yes	
28	Sales Tax Included	No	No	No	No	
29	**COVID-19 Market Questions**					
30	How has your work program been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No	No	No	No	
31	Have you had any future work opportunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No	No	No	No	
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No	No	No	
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No	No	No	No	
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No	No	No	
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No	No	No	No	
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No	No	No	No	

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **03A.1 - Concrete Reinforcing**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Tyler Reinforcing	Harris Rebar	CMC Rebar	Sun Coast	Paradise Rebar Inc.
		Joel Byko	Chad Jones	Phillippe Marcus	John Walsh	Phil Boone
		(520) 403-9383	(480) 431-7278	602-577-2495	(480) 404-2625	602-447-0839
		joel@tylerreinforcing.com	chjones@harrisrebar.com	philippe.marcus@cmc.com	jwalsh@suncoast-pt.com	philb@paradisereabar.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$879,869**	**$883,429**	**$1,337,000**	**$1,010,158**	**Declined**
37	Do you have any overseas suppliers that may be impeding your supply chain?	No	No	No	No	
38						
39	Per Plans & Specifications					
40	Division 1 as it relates to this scope of work	Yes	Yes	Yes	Yes	
41	03 20 00 Concrete Reinforcement	Yes	Yes	Yes	Yes	
42	03 30 00 Cast in Place Concrete	Yes	Yes	Yes	Yes	
43	Project Summary Schedule	Yes	Yes	Yes	Yes	
	Scope of Work					
	Base Bid:	$813,335	$807,546	$1,233,399	$926,100	
44	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 03A - Reinforcing Steel in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	Yes	Yes	Yes	
45	Check to Spec completed and submitted to McCarthy	Yes	Yes	Yes	Yes	
46	1 year warranty from Final Acceptance (Aug 2023)	Yes	Pending	Pending	Pending	
47	Furnish, fabricate and install all reinforcing steel noted on project including but not limited to the following items	Yes	Yes	Yes	Yes	
48	Rebar detailing for all required shop drawings	Yes	Yes	Yes	Yes	
49	Provide dowel bars into existing concrete (epoxy and installation by others)	Yes	Yes	Excluded	Yes	
50	Rebar Couplers furnished and installed where noted in drawings (form savers not shown, required by others)	Yes	Yes	Yes	Yes	
51	Provide vertical dowel bars at all masonry walls	Yes	Yes	Yes	Yes	
52	Chairs, Stirrups, spacers and ancillary materials furnished and installed.	Yes	Yes	Yes	Yes	
53	Coordinate lap splicing with construction joints	Yes	Yes	Yes	Yes	
54	Mockups as required by specifications / front ends.	No, Ok	No, Ok	No, Ok	No, Ok	
55	Provide WWF reinforcing in decks (Mezzanine at Maintenance Building	$1,080	$673	$1,300	$1,300	
56	Provide all trim bar for openings noted on structural, architectural, mechanical, electrical, plumbing drawings	Yes	Yes	Yes	Yes	
57	Housekeeping / Cleanup of ties and other debris for a completely clean deck	Own Work	Own Work	Own Work	Own Work	
58	Cleanup of work areas	Own Work	Own Work	Own Work	Own Work	
59	Unload and inventory of furnish only FOB items	Yes	Yes	Yes	Yes	
60	Materials pricing valid through duration of scope of work	Yes - 9 Month window	Yes	Yes	Yes	
61	Dunnage, Deadman, bracing where required.	Yes	Yes	Yes	Yes	
62	Initial on site safety orientation and daily safety meeting included in cost of work.	Yes	Yes	Yes	Yes	
63	On site forklift provided by McCarthy. Coordinate shared resource with onsite staff.	$14,303	$14,303	$14,303	$14,303	
64	Provide certified operator(s) for equipment including forklift	Yes	Yes	Yes	Yes	
65	Unloading and transport of materials	Yes	Yes	Yes	Yes	
66	Pour watch on decks and representative available for inspections of all concrete elements.	Yes	$10,000	$10,000	$10,000	
67	Set rebar caps/protection (provided and maintained by McCarthy)	Yes	Yes	Yes	Yes	
68	Provide FOB jobsite unit costs for misc. dowel bar placements in slabs, decks, foundations, walls and other concrete elements	Yes	Will Provide	Yes	Will Provide	
69	*Provide craft rates*	Yes	Yes	Yes	Will Provide	
70	Provide all water and ice for own personnel on site	Yes	Yes	Yes	Yes	

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **03A.1 - Concrete Reinforcing**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

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		joel@tylerreinforcing.com	chjones@harrisrebar.com	philippe.marcus@cmc.com	jwalsh@suncoast-pt.com	philb@paradisereabar.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$879,869**	**$883,429**	**$1,337,000**	**$1,010,158**	**Declined**
71	Provide all required test reports and mill certificates for all steel reinforcing components	Yes	Yes	Yes	Yes	
72	Couplers & terminators shown in drawings	Yes	Yes	Yes	Yes	
73	Proposed Placer	AMMEX Rebar Placer	Harris Rebar	AMMEX Rebar Placer	JD Steel	
74	Total Tonnage	640 Tons	700 Tons	722 Tons	>600 Tons	
75	Projected reinforcing steel cost increases through project duration	$40,667	$40,377	$61,670	$46,305	
76	Form saver unit pricing	Yes	Will Provide	Yes	Will Provide	
77	Pricing for dowels	Yes	Will Provide	Yes	Will Provide	
78	**GMP 1 Early Concrete Reinforcment**	-$765	-$765	-$765	-$765	
79	COVID-19 Scope Items					
80	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes	Yes	Yes	Yes	
81	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes	Yes	Yes	Yes	
82	All personnel onsite must maintain 6'0" spacing between personnel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes	Yes	Yes	Yes	
83	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes	Yes	Yes	Yes	
84	All tools and equipment used must be sanitized each day.	Yes	Yes	Yes	Yes	
85	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes	Yes	Yes	Yes	
86	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes	Yes	Yes	Yes	
87	Personnel are not allowed to carpool to the site or while onsite.	Yes	Yes	Yes	Yes	
88	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the appropriate testing and quarantine protocols.	Yes	Yes	Yes	Yes	
89						
90	End of Scope					
91	Bond/CDI Cost	$11,249	$11,294	$17,093	$12,914	
	TOTAL WORK CATEGORY PACKAGE VALUE	**$879,869**	**$883,429**	**$1,337,000**	**$1,010,158**	

BID PROPOSAL

Date April 6th, 2021

Bid Proposal of * Tyler Reinforcing LLC (hereinafter called "Bidder")

a ** corporation organized and existing under the laws of the State of Arizona.

* Insert name of firm.
** Insert corporation, partnership, or individual, as applicable.

(INSERT OWNER'S ADDRESS)
TO: McCarthy Building Companies, Inc.
6225 North 24th Street, Suite 200
Phoenix, Arizona 85016

The Bidder, in compliance with your Invitation for Bids for the construction of Chandler Water Reclamation Facility Improvements having examined the Contract Documents entitled City of Chandler, Chandler WRF Improvements Project, and other related documents and being familiar with the site of the proposed work, and with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, and the progress of work to date, if any, hereby proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, perform all work, provide all services, and to construct all work in accordance with the Contract Documents set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required.

The Bidder shall attach a copy of Bidders' detailed estimate to its Bid Proposal. This estimate shall identify all quantities shown in the documents or anticipated along with corresponding labor, material and equipment pricing.

After Bid Proposals are received, tabulated, and evaluated by McCarthy, said Bidder agrees to meet with McCarthy for the purpose of determining any duplications, omissions, or mutually agreed bid adjustments. For these meetings, the Bidder agrees to provide a complete, detailed cost breakdown; a list of all sub-subcontractors proposed for use in the work; and a list of all items, materials and their manufacturers proposed for use in the work.

The Bidder, if awarded a Subcontract, agrees to commence work and to fully complete its Work in accordance with a schedule to be established in collaboration with McCarthy under the provisions of the Additional Subcontractor Conditions of the Specifications.

The Bidder acknowledges receipt of the following Addenda: 1, 2, 3, 4.

BASE BID:

The Bidder agrees to perform all Reinforcing Steel (herein insert the title of the Work Category as it appears in the Additional Subcontractor Conditions) Work for Work Category No. 03310, as described in the Contract Documents, for the Lump Sum of one million, one hundred twenty six, nine hundred fifty nine DOLLARS ($1,126,959.00).

BID BREAKDOWN:

Airport WRF Total Amount $110,824.00

- Aeration Basin $11,289.00
- Blower Piping $5,279.00
- Blower Ductbank $0.00
- Filters $46,196.00
- Maintenance Bldg $48,060.00

Ocotillo WRF Total Amount $702,514.00

- Aeration/Anoxic $15,858.00
- RAS/WAS PS $0.00
- Clarifiers 1& 2 $23,914.00
- Filters $85,593.00
- MCC Replacement $0.00
- Reservoir $577,149.00
- Roads/Sitework $0.00

Performance & Payment Bond Cost *(If Applicable)* $9,888.71

Total Subcontract Amount $1,136,847.71

The name of the proposed Bonding Company is Construction Bonding Inc.

Bond rate 0.88%

All applicable taxes, except sales and use taxes on materials and equipment which are affixed and made a part of the real estate of the Project, are included in the above Base Bid. Bidder agrees that this Bid Proposal shall be good and may not be withdrawn unless McCarthy does not send Bidder a Subcontract within one hundred ~~twenty (160) calendar days~~ ~~fifty (150) calendar days~~ after the opening date of Bid Proposals.
sixty (60) calendar days
(Amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

ALTERNATES:

The Bidder further agrees that if any or all of the Alternates listed and described below are incorporated and accepted within sixty (60) calendar days after receipt of a Subcontract from McCarthy, the Bidder will adjust its Subcontract by the amount indicated opposite the Alternates listed below.

ALTERNATE NO. 1: Filter Disc in Basin 7 Installation:

ADD the sum of $_____.

ALTERNATE NO. 2: Clarifier 3 Rehabilitation

ADD the sum of $_____.

ALTERNATE NO. 3: Sludge Holding Tank and Blower Bldg No. 2

ADD the sum of $ 300,583.00 .

ALTERNATE NO. 4: Removal/Replacement of Diffusers in 2 Aeration Basins

ADD the sum of $_____.

ALTERNATE NO. 5:_____

ADD the sum of $_____.

CHANGE ORDER RATES: (Add separate sheet as needed)

Markup % (on rates and material): 15% .

Position: General Superintendent Rate: $78.45 .

Position: General Foreman Rate: $71.15 .

Equipment: _____ Rate: _____.

Equipment: _____ Rate: _____.

SAFETY RECORDS

The Bidder certifies to the following Experience Modification Rates (EMR) and Incidence Rates for the three (3) most recent years:

	Year 2018	Year 2019	Year 2020
1. Compensation Experience Modification Rate:	0.86	0.80	0.78
2. Incidence Rate:			
(a) Number of hours employees worked in the year.	63,201	95,978	96,689
(b) Number of cases defined as recordable, from the OSHA Form 300 Log.	0	0	0
(c) Total Recordable Incidence Rate = (b) x (200,000 hours) / Hours Worked (a)	0	0	0

The Bidder understands that McCarthy reserves the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

SELECT AS APPROPRIATE

☐ The Bidder has completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program; OR

☑ The Bidder has not completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program because the Bidder has provided the Form and all such information to McCarthy in the past 12 months for the following project:

U of A Applied Research Bldg. Project, which bid on: March 25, 2021.

RESPONSIVE BID REQUIREMENTS:

DO NOT ENCLOSE YOUR STANDARD TERMS AND CONDITIONS

If any exceptions are taken to the requirements of this Proposal form, attach a separate sheet listing those exceptions, stating the sections and paragraphs and the specific exception.	(initials)
In submitting this proposal, the Bidder certifies that this bid is valid for ~~150~~ 60 calendar days.	(initials)
In submitting this Proposal as described herein, we agree to complete the work in accordance with the included Preliminary Construction Sequence.	(initials)
In submitting this Proposal, the Bidder certifies that all cost for extended warranties to start on the date of Substantial Completion is included.	(initials)
In submitting this proposal as described herein, we confirm that we have received, reviewed and agree to all commercial terms stated in the McCarthy Subcontract and Purchase Order Agreement. Any exception taken to the commercial terms stated in these Agreements must be listed on a separate sheet noting the article or paragraph and the specific exception. ***Bidders attached Standard Terms and Conditions will not be acknowledged or accepted as part of any given bid.***	(initials)
In submitting this proposal as described herein, the Bidder certifies that this bid is coordinated based on a complete set of documents and that there will be no claims for change order based on the assertion that the Bidder did not have a complete set of Bidding Documents.	(initials)
In submitting this proposal, the Bidder certifies that they have included all spare parts, training, O & M Manuals, shop drawings and administration costs as associated to comply with the requirements of the specifications and as listed for their scope of work.	(initials)
A bid will be considered non-responsive if the Subcontractor Pre-Qualification Form is not completed as part of the Bid Form **(or on file at McCarthy office)**.	(initials)
The Bidder, by submitting their bid, represents that they have read and understand the scope requirements of the Bidding Documents.	(initials)
The Bidder certifies that any proposed materials in this scope of work meet or exceeds the requirements stated in the specifications unless noted otherwise within this proposal.	(initials)
The bidder certifies that the price listed in this bid is a firm Price through the final delivery of the materials proposed herein, and that no material escalation will be accepted as part of this proposal.	(initials)

Within fifteen (10) days after receipt by the Bidder from McCarthy of the Subcontract or Purchase Order, the Bidder will execute and return to McCarthy said Subcontract or Purchase Order and if notified from McCarthy that Bidder is not to be enrolled in McCarthy's Contractor Default Insurance Program, deliver to McCarthy Performance and Labor and Material Payment Bonds for the Subcontract or a Supply Contract Bond for the Purchase Order, or the difference between the amount of the bid and such larger amount for which McCarthy may subcontract with another party to perform the work covered by said bid, together with all court costs, all attorney fees and all other expense of recovery, all of which shall not exceed the Bid Security attached in the amount of 15% of the bid, will become the property of McCarthy. The bonds shall name McCarthy as Obligee.

If an Individual:

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Partnership:

Authorized Signature: _____

Name (print): _____

Email: _____

Authorized Signature: _____

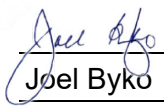
Name (print): _____

Email: _____

Business Address: _____

_____

If a Corporation:

Authorized Signature: 

Name (print): Joel Byko

Email: Joel@TylerReinforcing.com

Title: V.P

Business Address: 321 S. 27th Avenue

Phoenix, AZ 85009

Telephone 520-403-9383 cell

Contractor License Number: AZ ROC 296786

General Liability Insurance Carrier (not the agent): BOK Financial Insurance

*Please attach a sample certificate of insurance and current W9 form to your bid.

Tyler Reinforcing LLC

PO Box 6520 (602) 269-5900
Phoenix, AZ 85005
Lic No: AZ ROC #296786

Proposal No: **210322.1**
Proposal Date: 4/6/2021

This proposal is valid for 30 days from date shown above.

BID PROPOSAL

SECTION I- GENERAL INFORMATION

Proposal to: **Bidding Contractors**
Attn: **Estimating Dept.**
Engineer: **Wilson Engineers**

Project Name: **Chandler WRF Improvements - GMP 02**
Ref. No.: WW1901.201
Two Locations
Chandler, AZ
Owner: **City of Chandler**

Drwgs □uoted: **per Sheet Index on G-2 & G-3 Agency Review dated 03/2021**

Specs:

Addenda: **1, 2, 3**

SECTION II- SCOPE OF WORK

Concrete Deformed Reinforcing Steel Detailed, Furnished □ Installed per ACI □ CRSI Standards.

SECTION III- PRICES

Bid Item	Description	Material	Labor	Total
	AWRF Air Piping Supports	$3,255.00	$2,024.00	$5,279.00
	AWRF Filters	$27,837.00	$17,594.00	$45,431.00
*******	***AWRF Filters Infill***	***$470.00***	***$295.00***	***$765.00***
	AWRF Aeration Basin	$6,920.00	$4,369.00	$11,289.00
	OWRF Anoxic Basin	$9,721.00	$6,137.00	$15,858.00
	OWRF Clarifiers 1 □ 2	$14,653.00	$9,261.00	$23,914.00
	OWRF Filters	$52,541.00	$33,052.00	$85,593.00
	OWRF Reservoir	$354,894.00	$222,255.00	$577,149.00
	OWRF Sludge Holding Tank	$180,761.00	$113,449.00	$294,210.00
	OWRF Blower Building	$3,905.00	$2,468.00	$6,373.00
	AWRF Maintenance Building	$29,460.00	$18,600.00	$48,060.00
	OWRF Clarifier 3 Option	$7,327.00	$4,631.00	$11,958.00
	AWRF Maintenance Building 6x6-W2.9 at Me:	$640.00	$440.00	$1,080.00
	Performance □ Payment Bond Cost	$9,888.71	FOB	$9,888.71

Taxes are E□CLUDED from prices shown. **Total Reinforcing Items= $1,136,847.71**

SECTION IV- SPECIAL CONDITIONS, EXCLUSIONS AND/OR CLARIFICATIONS FOR THIS PROJECT

1 Prices are based on a Start Date of not later than _____ and shall remain valid through _____. Any rebar shipped AND/OR installed after that date will be subject to an increase _____/Ton every ___ months.
2 **Exclusions: masonry, site work**
3
4
5
6
7
8
9
10 Above prices based on NO RETENTION for contracts of $50,000 or less.

SECTION V- CONTRACTOR TO PROVIDE AT NO COST TO SELLER

1	X	All lines, grades, racks, forms, layout and rigid templates accurately in place before installation, except those forms or other materials that will hinder the installation.
2	X	Firm, level, subgrade at elevation shown on drawings including all levels, datum lines, elevations, openings and dowel outs for concrete &/or masonry.
3	X	Clear access roads & ramps for unloading of trailer/truck deliveries to within 50 feet of point of installation, and reasonable storage and lay-down areas.
4	X	Cages for drilled piers, shafts, caissons, and light pole standards will be tied and stockpiled by Subcontractor.
5	X	Suitable equipment fully operated for hoisting/lowering reinforcing steel, personnel, wire mesh, etc, including unloading trucks, staging of reinforcing to points of installation (into foundations, and onto elevated decks, etc) setting columns, wall cages and/or any other pre-tied assemblies including power placing of individual bars as required.
6	X	Copies of all contract documents in quantities as reasonably requested.
7	X	Parking area and/or cost of parking for field crews and provide area for jobsite office including utility hookup.
8	X	Furnish design information, location of pour joints and construction schedules in sufficient time to allow for the preparation and approval of detail drawings plus a minimum of seven (7) working days for fabrication and delivery. 48 hours notice is required for cancellation of previously scheduled deliveries and two (2) weeks notice of job requirements.
9	X	This proposal is based on pouring the walls and top slabs in all reinforced concrete box culverts monolithically.
10	X	24 hour notice for workman at jobsite and placement to be done on normal 8 hour shift excluding weekends and holidays.

SECTION VI- STANDARD EXCLUSIONS BY SELLER & FURNISHED BY BUYER

1	X	Cost of Inspections, crane inspections, testing, bonds, permits, penalties or Liquidated Damages.
2	X	Inserts, sleeves, rubatex, water stops, smooth dowels and /or dowel baskets, galvanized or epoxy coated dowels, threaded rebar, stud rails and placing of stud rails.
3	X	Cleaning, cutting, straightening, locating or rework of existing reinforcing steel, reinforcing extending from piles, or precast
4	X	Cutting, drilling of holes, grouting, field bending or dry-packing of reinforcing steel.
5	X	Burning, cutting, or drilling of structural steel/miscellaneous iron to pass reinforcing steel.
6	X	Protection and/or cleaning of others work, covering, painting, greasing or wrapping of reinforcing steel or smooth dowels.
7	X	Rebar Safety Caps or devices for covering rebar ends.
8	X	All welding and rebar welded to structural/ miscellaneous iron.
9	X	Blocking, chairing, wrapping and/or pulling of welded wire fabric.
10	X	All dead men, cables, labor and engineering of system for guying of rebar, if required.
11	X	Cleaning of tie wire clippings, tags and other spoils from work areas, cost of dumpster and composite crew cleanup, except as mutually agreed.
12	X	Lines, grades, steel racks, templates, scaffolding, safety rails, work platforms & ramps, sanitary facilities and jobsite access to drinking water.
13	X	Removal, grinding &/or patching of staples, nails, bolts and/or any other device used for the placement of concrete reinforcing accessories.
14	X	Reinforcing for Anchor Points (and the Anchor Points) for Shotcrete, Precast, Closure Pours, Precast Connections and Prestressing Items.
15	X	Sand Plated Chairs.
16	X	Test bars and test couplers (except those specifically called out in specs)
17	X	Adequate power and lighting when necessary.
18	X	Cost of reworking or replacing reinforcing steel damaged or lost due to flood, actions of buyer, other subcontractors or other acts of God.
19	X	Blocks, inspection tubes, wheels or spacers for clearances in drilled shafts or caissons.
20	X	Tie wire, accessories and field placing aids for F.O.B. materials.
21	X	Prevailing Wage Rates or Job Specific Labor Agreement Rates. Proposal based on Open Shop wages.
22	X	Design Engineering, Engineer stamping of drawings, Field Measurements and As-Built drawings.
23	X	Sitework, Masonry Rebar, Mock Ups, MSE Walls, Electrical Duct Bank, Equipment Pads, Pipe Encasement &/or Supports. (Unless specifically stated as included)
24	X	Supply & Installation of reinforcing for stair landings and treads.
25	X	Layout of TOW, TOF, EOW, expansion/construction joints, corners, doorways, blockouts and/or openings of any kind and Masonry Dowels.
26	X	Separate Pour Watchman, Fire Watchman, Safety Manager, QC Mgr, Traffic Control or Onsite Security.
27	X	Trim reinforcing for openings, penetrations, and inserts not specifically located on Structural Drawings.
28	X	Double handling costs, including costs to transport material from an unreasonably located area.
29	X	Unloading, handling &/or setting of FOB materials (including Prebuilt Drilled Shaft Cages).
30	X	Dust control, Storm Water management and/or similar eviromental programs.
31	X	Third party invoicing processing fees or enrollment in third party invoicing services.
32	X	Re-Detailing of shop drawings & reviewing/processing of changes will be at $65.00/Hr.
33	X	Build Information Modeling (BIM), 3D Modeling and similar, unless specifically stated otherwise.
34	X	Non-standard work week and/or special work hours. (This bid proposal based on M-F, 8hr/workday, daylight hours, unless specifically stated otherwise.)

Chandler WRF Improvements Project
GMP 2 Work Category Solicited Subcontractors Summary
Work Category: **04A Masonry**

Subcontractor/Supplier Name	***Status***
Denny Clark Masonry & Concrete	*Recommended*
Stone Cold Masonry	*Proposed*
Alta Vista Masonry	*Declined*
GV Masonry	*Declined*
Sun Valley Masonry	*Declined*
Avila Masonry	*Declined*
Straight Arrow Contracting	*Declined*
Superior Masonry	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **04A - Masonry**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

COMPANY INFORMATION		Denny Clark Masonry and Concrete	Stone Cold Masonry	Alta Vista Masonry	GV Masonry	Sun Valley Masonry
		Denny Clark	Ron Maroney	Phil Insalaco	Gary Vickers	Todd Nessler
		480-664-6367	623-385-7111	602-300-2260	602-574-1777	602-943-6106
		denny@dennyclarkmasonryconcrete.com	ron@stonecoldmasonry.com	phil@avmasonry.com	gvmasonry@aol.com	toddnessler@svmasonry.com
TOTAL WORK CATEGORY PACKAGE VALUE		**$6,335**	**$8,123**	**No Bid**	**No Bid**	**Declined**
MCCARTHY SUBCONTRACT & FRONT END TERMS						
1	Compliant with McCarthy Front Ends	Yes	Yes			
2	Bid Submitted on McCarthy Bid Form	Yes	Yes			
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	Yes	Yes			
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing.	Yes				
5	Surety Company	Granite RE, Inc	Hartford			
6	Surety AM Best Rating (Must be A- or Better)	Yes	Yes			
7	AM Best Financial Size X($500M to $750M) or higher	Yes	Yes			
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	Yes	Yes			
9	Bond/CDI Cost	3.000%	2.758%			
10	Included Insurance Requirements (Per Matrix)	Yes	Yes			
11	GL Insurance Company Name	Federated Mutual Insurance Company	Amerisure			
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	Yes	Yes			
13	PRL Insurance (If required by the Front Ends)	N/A	N/A			
14	Pollution Insurance (If required by the Front Ends)	Yes	Yes			
15	Tier 1 Approved	Yes	Submitted			
16	Tier 2 Approved	N/A	N/A			
17	Safety Items:	Yes	Yes			
18	OSHA Recordable Incident Rate (Current)	0.79	0.64			
19	Agrees to comply with PPE requirements including 100% glove policy	Yes	Yes			
20	Acknowledges updated ladder policy (platform ladders)	Yes	Yes			
21	Task Hazard Analysis included for all tasks	Yes	Yes			
22	Tie-off above 6' required	Yes	Yes			
23	Includes Hoisting for Sub's Own Work Scope	Yes	Yes			
24	Acknowledges Soils Report	Yes	N/A			
25	Acknowledges Addenda	Yes	Yes			
26	Hold Bid for 150 Days	Yes	Yes			
27	Pricing good for the duration of the project	N/A	N/A			
28	Sales Tax Included	No	No			
29	**COVID-19 Market Questions**					
30	How has your workprogram been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No	5%			
31	Have you had any future work oppurtunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No	3%			
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No			
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No	No			
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No			
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No	No			

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **04A - Masonry**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Denny Clark Masonry and Concrete	Stone Cold Masonry	Alta Vista Masonry	GV Masonry	Sun Valley Masonry
		Denny Clark	Ron Maroney	Phil Insalaco	Gary Vickers	Todd Nessler
		480-664-6367	623-385-7111	602-300-2260	602-574-1777	602-943-6106
		denny@dennyclarkmasonryconcrete.com	ron@stonecoldmasonry.com	phil@avmasonry.com	gvmasonry@aol.com	toddnessler@svmasonry.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$6,335**	**$8,123**	**No Bid**	**No Bid**	**Declined**
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	Superlite	No			
37	Do you have any overseas suppliers that may be impeding your supply chain?	No	No			
38						
39	Per Plans & Specifications	Yes	Yes			
40	Division 1 as it relates to this scope of work	Yes	Yes			
41	03200 - Concrete Reinforcement	Yes	Yes			
42	03600 - Grout	Yes	Yes			
43	04820 - Reinforced Unit Masonry Assemblies	Yes	Yes			
Scope of Work						
Base Bid:		$6,150	$7,905			
44	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 04A - Masonry, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	Yes			
45	Check to Spec completed and submitted to McCarthy	N/A	N/A			
46	1 year warranty from Final Acceptance (Aug 2023)	Yes	Yes			
47	Water Repellant used in Masonry Veneer	Yes	Yes			
48	CMU Control Joints as required	Yes	Yes			
49	Installation of Steel Lintels at Wall Openings (Material by 05A)	Yes	Yes			
50	Shoring for Lintels/Bond Beams	Yes	Yes			
51	Anchor, Ties, and Metal Accessories	Yes	Yes			
52	Delivery, Storage, and Handling of Material	Yes	Yes			
53	Masonry Waste Disposal	Yes	Yes			
54	Preparing, Pointing & Cleaning as required	Yes	Yes			
55	Trash and debris clean up as required	Yes	Yes			
56	Trash removal from job site	Yes	Yes			
57	Masonry Shop Drawings	Yes	Yes			
58	Testing and Inspection Cost	N/A	N/A			
59	Hot & Cold Weather Protection/Requirements	Yes	Yes			
60	Sales Tax and Permit Fees	N/A	N/A			
61	Efflorescence Removal after initial Cleaning	Yes	Yes			
62	Mobilization	Yes	Yes			
63	Scaffolding to complete work	Yes	Yes			
64	Material to match existing buildings	Yes	Yes			
65	Shipping shall be FOB jobsite	Yes	Yes			
66	Separate deliveries to AWRF and OWRF	Yes	Yes			
67	Unloading & storage	Yes	Yes			
68	COVID-19 Scope Items					
69	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes	Yes			

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **04A - Masonry**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Denny Clark Masonry and Concrete	Stone Cold Masonry	Alta Vista Masonry	GV Masonry	Sun Valley Masonry
		Denny Clark	Ron Maroney	Phil Insalaco	Gary Vickers	Todd Nessler
		480-664-6367	623-385-7111	602-300-2260	602-574-1777	602-943-6106
		denny@dennyclarkmasonryconcrete.com	ron@stonecoldmasonry.com	phil@avmasonry.com	gvmasonry@aol.com	toddnessler@svmasonry.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$6,335**	**$8,123**	**No Bid**	**No Bid**	**Declined**
70	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes	Yes			
71	All personnel onsite must maintain 6'0" spacing between personel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes	Yes			
72	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes	Yes			
73	All tools and equipment used must be sanitzed each day.	Yes	Yes			
74	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes	Yes			
75	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes	Yes			
76	Personnel are not allowed to carpool to the site or while onsite.	No	Yes			
77	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the apropriate testing and quarantine protocols.	Yes	Yes			
78						
79	End of Scope					
80	Bond/CDI Cost	$185	$218			
	TOTAL WORK CATEGORY PACKAGE VALUE	**$6,335**	**$8,123**			

BID PROPOSAL

Date 04/21/2021

Bid Proposal of * Denny Clark Masonry & Concrete (hereinafter called "Bidder")

a ** Corporation LLC organized and existing under the laws of the State of

_____.

* Insert name of firm.
** Insert corporation, partnership, or individual, as applicable.

(INSERT OWNER'S ADDRESS)
TO: McCarthy Building Companies, Inc.
6225 North 24th Street, Suite 200
Phoenix, Arizona 85016

The Bidder, in compliance with your Invitation for Bids for the construction of Chandler Water Reclamation Facility Improvements having examined the Contract Documents entitled City of Chandler, Chandler WRF Improvements Project, and other related documents and being familiar with the site of the proposed work, and with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, and the progress of work to date, if any, hereby proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, perform all work, provide all services, and to construct all work in accordance with the Contract Documents set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required.

The Bidder shall attach a copy of Bidders' detailed estimate to its Bid Proposal. This estimate shall identify all quantities shown in the documents or anticipated along with corresponding labor, material and equipment pricing.

After Bid Proposals are received, tabulated, and evaluated by McCarthy, said Bidder agrees to meet with McCarthy for the purpose of determining any duplications, omissions, or mutually agreed bid adjustments. For these meetings, the Bidder agrees to provide a complete, detailed cost breakdown; a list of all sub-subcontractors proposed for use in the work; and a list of all items, materials and their manufacturers proposed for use in the work.

The Bidder, if awarded a Subcontract, agrees to commence work and to fully complete its Work in accordance with a schedule to be established in collaboration with McCarthy under the provisions of the Additional Subcontractor Conditions of the Specifications.

The Bidder acknowledges receipt of the following Addenda: 1-4

_____.

BASE BID:

The Bidder agrees to perform all 4000 CSI Codes (masonry) (herein insert the title of the Work Category as it appears in the Additional Subcontractor Conditions) Work for Work Category No. _____, as described in the Contract Documents, for the Lump Sum of Eighty Nine Thousand four hundred fifty five dollars/00 DOLLARS ($ 89,455.00).

BID BREAKDOWN:

Airport WRF Total Amount $ 83,305.00

- Aeration Basin $ _____
- Blower Piping $ _____
- Blower Ductbank $ _____
- Filters $ _____
- Maintenance Bldg $ 83,305.00

Ocotillo WRF Total Amount $ 6,150.00

- Aeration/Anoxic $ _____
- RAS/WAS PS $ _____
- Clarifiers 1& 2 $ _____
- Filters $ _____
- MCC Replacement $ _____
- Reservoir $ _____
- Roads/Sitework $ _____
- Infills/Cinkels # 6,150

Performance & Payment Bond Cost *(If Applicable)* $ 3% ?

Total Subcontract Amount $ 89,455.00

The name of the proposed Bonding Company is Granite RE, INC

Bond rate 3 %

All applicable taxes, except sales and use taxes on materials and equipment which are affixed and made a part of the real estate of the Project, are included in the above Base Bid. Bidder agrees that this Bid Proposal shall be good and may not be withdrawn unless McCarthy does not send Bidder a Subcontract within one hundred ~~twenty (160) calendar days~~ fifty (150) calendar days after the opening date of Bid Proposals.

(Amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

ALTERNATES:

The Bidder further agrees that if any or all of the Alternates listed and described below are incorporated and accepted within sixty (60) calendar days after receipt of a Subcontract from McCarthy, the Bidder will adjust its Subcontract by the amount indicated opposite the Alternates listed below.

ALTERNATE NO. 1: Filter Disc in Basin 7 Installation:

ADD the sum of $ N/C .

ALTERNATE NO. 2: Clarifier 3 Rehabilitation

ADD the sum of $ _____ .

ALTERNATE NO. 3: Sludge Holding Tank and Blower Bldg No. 2

ADD the sum of $ 83,305.00 .

ALTERNATE NO. 4: Removal/Replacement of Diffusers in 2 Aeration Basins

ADD the sum of $ _____ .

ALTERNATE NO. 5: _____

ADD the sum of $ _____ .

CHANGE ORDER RATES: (Add separate sheet as needed)

Markup % (on rates and material): 10%.

Position: Foreman Rate: 46.55 .

Position: Mason Rate: 39.90 .

Equipment: Tender Rate: 30.59 .

Equipment: Operator Rate: 33.25 .

SAFETY RECORDS

The Bidder certifies to the following Experience Modification Rates (EMR) and Incidence Rates for the three (3) most recent years:

	Year 2018	Year 2019	Year 2020
1. Compensation Experience Modification Rate:	1.21	1.13	.79
2. Incidence Rate:			
(a) Number of hours employees worked in the year.	117469	124800	119098
(b) Number of cases defined as recordable, from the OSHA Form 300 Log.	0	0	0
(c) Total Recordable Incidence Rate = (b) x (200,000 hours) / Hours Worked (a)	0	0	0

The Bidder understands that McCarthy reserves the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

SELECT AS APPROPRIATE

☑ The Bidder has completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program; OR

☐ The Bidder has not completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program because the Bidder has provided the Form and all such information to McCarthy in the past 12 months for the following project:

_____ Project, which bid on: _____.

RESPONSIVE BID REQUIREMENTS:

DO NOT ENCLOSE YOUR STANDARD TERMS AND CONDITIONS

If any exceptions are taken to the requirements of this Proposal form, attach a separate sheet listing those exceptions, stating the sections and paragraphs and the specific exception.	DC (initials)
In submitting this proposal, the Bidder certifies that this bid is valid for 150 calendar days.	D. (initials)
In submitting this Proposal as described herein, we agree to complete the work in accordance with the included Preliminary Construction Sequence.	DC (initials)
In submitting this Proposal, the Bidder certifies that all cost for extended warranties to start on the date of Substantial Completion is included.	DC (initials)
In submitting this proposal as described herein, we confirm that we have received, reviewed and agree to all commercial terms stated in the McCarthy Subcontract and Purchase Order Agreement. Any exception taken to the commercial terms stated in these Agreements must be listed on a separate sheet noting the article or paragraph and the specific exception. ***Bidders attached Standard Terms and Conditions will not be acknowledged or accepted as part of any given bid.***	AL (initials)
In submitting this proposal as described herein, the Bidder certifies that this bid is coordinated based on a complete set of documents and that there will be no claims for change order based on the assertion that the Bidder did not have a complete set of Bidding Documents.	DC (initials)
In submitting this proposal, the Bidder certifies that they have included all spare parts, training, O & M Manuals, shop drawings and administration costs as associated to comply with the requirements of the specifications and as listed for their scope of work.	DC (initials)
A bid will be considered non-responsive if the Subcontractor Pre-Qualification Form is not completed as part of the Bid Form **(or on file at McCarthy office)**.	DC (initials)
The Bidder, by submitting their bid, represents that they have read and understand the scope requirements of the Bidding Documents.	DC (initials)
The Bidder certifies that any proposed materials in this scope of work meet or exceeds the requirements stated in the specifications unless noted otherwise within this proposal.	DC (initials)
The bidder certifies that the price listed in this bid is a firm Price through the final delivery of the materials proposed herein, and that no material escalation will be accepted as part of this proposal.	DC (initials)

Within fifteen (10) days after receipt by the Bidder from McCarthy of the Subcontract or Purchase Order, the Bidder will execute and return to McCarthy said Subcontract or Purchase Order and if notified from McCarthy that Bidder is not to be enrolled in McCarthy's Contractor Default Insurance Program, deliver to McCarthy Performance and Labor and Material Payment Bonds for the Subcontract or a Supply Contract Bond for the Purchase Order, or the difference between the amount of the bid and such larger amount for which McCarthy may subcontract with another party to perform the work covered by said bid, together with all court costs, all attorney fees and all other expense of recovery, all of which shall not exceed the Bid Security attached in the amount of 15% of the bid, will become the property of McCarthy. The bonds shall name McCarthy as Obligee.

If an Individual:

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Partnership:

Authorized Signature: _____

Name (print): _____

Email: _____

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Corporation:

Authorized Signature: [signature]

Name (print): Denny Clark

Email: Denny@DennyClarkmasonryConcrete.com

Title: owner

Business Address: 3025 E. Campbell Rd

Gilbert AZ 85234

Telephone 480 664 6367

Contractor License Number: 161118 + 239713

General Liability Insurance Carrier (not the agent): Federated

*Please attach a sample certificate of insurance and current W9 form to your bid.

Chandler WRF Improvements Project
GMP 2 Work Category Solicited Subcontractors Summary
Work Category: **05A Structural Steel**

Subcontractor/Supplier Name	***Status***
Revolution	*Recommended*
Able Steel Fab	*Declined*
Gray Wolf	*Declined*
OLT Fabrication	*Declined*
W&W Structural	*Declined*
Schuff Steel Company	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **05A - Structural Steel**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Revolution	Able Steel Fab	Gray Wolf	OLT Fabrication	W&W Structural
		Jarrod Goodman	Devin Sunbury	Greg Leavitt	Terry Hembree	Colton Malenfant
		623-980-4180	480-663-6946	480-718-1091	480-276-4841	480-966-9427
		jarrod@revolutionindustrial.com	dsunbury@ablesteel.com	greg.leavitt@graywolf.com	terry@oltfab.com	colton@w-ws.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$642,403**	**Declined**	**Declined**	**Declined**	**Declined**
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	Yes				
2	Bid Submitted on McCarthy Bid Form	Yes				
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	Yes				
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing.	Yes				
5	Surety Company	Old Republic				
6	Surety AM Best Rating (Must be A- or Better)	A+				
7	AM Best Financial Size X($500M to $750M) or higher	Yes				
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	Yes				
9	Bond/CDI Cost	1.186%				
10	Included Insurance Requirements (Per Matrix)	Yes				
11	GL Insurance Company Name	Crest Insurance				
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	A+				
13	PRL Insurance (If required by the Front Ends)	Yes				
14	Pollution Insurance (If required by the Front Ends)	N/A				
15	Tier 1 Approved	Yes				
16	Tier 2 Approved	N/A				
17	Safety Items:	Yes				
18	OSHA Recordable Incident Rate (Current)	.8				
19	Agrees to comply with PPE requirements including 100% glove policy	Yes				
20	Acknowledges updated ladder policy (platform ladders)	Yes				
21	Task Hazard Analysis included for all tasks	Yes				
22	Tie-off above 6' required	Yes				
23	Includes Hoisting for Sub's Own Work Scope	Yes				
24	Acknowledges Soils Report	N/A				
25	Acknowledges Addenda	Yes				
26	Hold Bid for 150 Days	Yes				
27	Pricing good for the duration of the project	N/A				
28	Sales Tax Included	N/A				
29	**COVID-19 Market Questions**					
30	How has your workprogram been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No				
31	Have you had any future work oppurtunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No				
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No				
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No				
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No				
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No				
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	Longer Lead Times				
37	Do you have any overseas suppliers that may be impeding your supply chain?	No				
38						

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **05A - Structural Steel**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Revolution	Able Steel Fab	Gray Wolf	OLT Fabrication	W&W Structural
		Jarrod Goodman	Devin Sunbury	Greg Leavitt	Terry Hembree	Colton Malenfant
		623-980-4180	480-663-6946	480-718-1091	480-276-4841	480-966-9427
		jarrod@revolutionindustrial.com	dsunbury@ablesteel.com	greg.leavitt@graywolf.com	terry@oltfab.com	colton@w-ws.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$642,403**	**Declined**	**Declined**	**Declined**	**Declined**
39	Per Plans & Specifications	Yes				
40	Division 1 as it relates to this scope of work	Yes				
41	03600 – Grout	Yes				
42	05051 – Anchor Bolts, Toggle Bolts, and Concrete Inserts	Yes				
43	05120 – Structural Steel and Framing	Yes				
44	05500 – Metal Fabrications	Yes				
45	05510 – Metal Stairs	Yes				
46	05521 – Aluminum Handrail	Yes				
47	05530 – Aluminum Grating	Yes				
48	05532 – Aluminum Checkered Plate	Yes				
49	09900 – Painting	Yes				
50	13121 – Metal Canopies	Yes				
	Scope of Work					
	Base Bid:	$619,828				
51	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 05A - Structural Steel, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes				
52	Check to Spec completed and submitted to McCarthy	N/A				
53	1 year warranty from Final Acceptance (Aug 2023)	Yes				
54	Cost to meet project insurance requirements	$30,000				
55	On-site verifications of dimensions	Yes				
56	Fabrication of structural steel to be performed by Category II AISC Certified Plant.	Yes				
57	Shop Primer and field touch up primer in accordance to spec 09900 Painting	Yes				
58	Corrosion Protection for all aluminum surfaces in contact with grout, concrete, masonry, wood, or dissimilar metals per spec to be NSF61 approved.	Yes				
59	Fall protection	Yes				
60	Steel lintels for AWRF & OWRF blower buildings	Yes				
61	Install of angle to masonry walls	Yes				
62	Metal decking	Yes				
63	Flex closure strips for decking	Yes				
64	Ridge and valley plates	Yes				
65	All equipment as required for hoisting and setting material	Yes				
66	Special Inspections as required	Yes				
67	Metal canopy removal and replacement over disc filters at AWRF	Yes				
68	Filter Crane Rail Framing at AWRF Filters	Yes				
69	Canopy at OWRF Disc Filters	Yes				
70	Corrugated metal structure at OWRF Reservoir	Yes				
71	Provide lifting lugs for proper installation	Yes				
72	Provide structural and anchorage calculation sealed by a registered structural engineer in the state of Arizona	Yes				
73	Shipping shall be FOB jobsite	Yes				
74	Separate deliveries to AWRF and OWRF	Yes				

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **05A - Structural Steel**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Revolution	Able Steel Fab	Gray Wolf	OLT Fabrication	W&W Structural
		Jarrod Goodman	Devin Sunbury	Greg Leavitt	Terry Hembree	Colton Malenfant
		623-980-4180	480-663-6946	480-718-1091	480-276-4841	480-966-9427
		jarrod@revolutionindustrial.com	dsunbury@ablesteel.com	greg.leavitt@graywolf.com	terry@oltfab.com	colton@w-ws.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$642,403**	**Declined**	**Declined**	**Declined**	**Declined**
75	Unloading & storage	Yes				
76	**GMP 1 Early Canopy Removal**	-$14,955				
77	COVID-19 Scope Items					
78	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes				
79	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes				
80	All personnel onsite must maintain 6'0" spacing between personel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes				
81	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes				
82	All tools and equipment used must be sanitzed each day.	Yes				
83	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes				
84	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes				
85	Personnel are not allowed to carpool to the site or while onsite.	Yes				
86	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the apropriate testing and quarantine protocols.	Yes				
87						
88	End of Scope					
89	Bond/CDI Cost	$7,530				
	TOTAL WORK CATEGORY PACKAGE VALUE	**$642,403**				

BID PROPOSAL

Date April 22nd 2021

Bid Proposal of * Revolution Industrial (hereinafter called "Bidder")

a ** Corportion organized and existing under the laws of the State of

Arizona.

* Insert name of firm.
** Insert corporation, partnership, or individual, as applicable.

(INSERT OWNER'S ADDRESS)
TO: McCarthy Building Companies, Inc.
6225 North 24th Street, Suite 200
Phoenix, Arizona 85016

The Bidder, in compliance with your Invitation for Bids for the construction of Chandler Water Reclamation Facility Improvements having examined the Contract Documents entitled City of Chandler, Chandler WRF Improvements Project, and other related documents and being familiar with the site of the proposed work, and with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, and the progress of work to date, if any, hereby proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, perform all work, provide all services, and to construct all work in accordance with the Contract Documents set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required.

The Bidder shall attach a copy of Bidders' detailed estimate to its Bid Proposal. This estimate shall identify all quantities shown in the documents or anticipated along with corresponding labor, material and equipment pricing.

After Bid Proposals are received, tabulated, and evaluated by McCarthy, said Bidder agrees to meet with McCarthy for the purpose of determining any duplications, omissions, or mutually agreed bid adjustments. For these meetings, the Bidder agrees to provide a complete, detailed cost breakdown; a list of all sub-subcontractors proposed for use in the work; and a list of all items, materials and their manufacturers proposed for use in the work.

The Bidder, if awarded a Subcontract, agrees to commence work and to fully complete its Work in accordance with a schedule to be established in collaboration with McCarthy under the provisions of the Additional Subcontractor Conditions of the Specifications.

The Bidder acknowledges receipt of the following Addenda: One through Four.

BASE BID:

The Bidder agrees to perform all Structural steel and misc. metals (herein insert the title of the Work Category as it appears in the Additional Subcontractor Conditions) Work for Work Category No. 05B, as described in the Contract Documents, for the Lump Sum of Seven hundred twenty three thousand four hundred and sixty four DOLLARS ($723,464.00).

BID BREAKDOWN:

Airport WRF Total Amount $

- Aeration Basin $77,774.45
- Blower Piping $175,688.68
- Blower Ductbank $51,849.63
- Filters $ N/A
- Maintenance Bldg $ N/A

Ocotillo WRF Total Amount $

Project Insurance Requirement Cost Adder- Split between WC 05A and 05B = $30,000/ea. See below for back email.

- Aeration/Anoxic $418,151.23
- RAS/WAS PS $ N/A
- Clarifiers 1& 2 $ N/A
- Filters $ N/A
- MCC Replacement $ N/A
- Reservoir $ N/A
- Roads/Sitework $ N/A

Performance & Payment Bond Cost *(If Applicable)* $108,519.60

Total Subcontract Amount $831,983.60

The name of the proposed Bonding Company is Old Republic Surety Companyt

Bond rate 15 %

All applicable taxes, except sales and use taxes on materials and equipment which are affixed and made a part of the real estate of the Project, are included in the above Base Bid. Bidder agrees that this Bid Proposal shall be good and may not be withdrawn unless McCarthy does not send Bidder a Subcontract within one hundred ~~twenty (160) calendar days~~ fifty (150) calendar days after the opening date of Bid Proposals.

(Amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

ALTERNATES:

The Bidder further agrees that if any or all of the Alternates listed and described below are incorporated and accepted within sixty (60) calendar days after receipt of a Subcontract from McCarthy, the Bidder will adjust its Subcontract by the amount indicated opposite the Alternates listed below.

ALTERNATE NO. 1: Filter Disc in Basin 7 Installation:

ADD the sum of $ N/A .

ALTERNATE NO. 2: Clarifier 3 Rehabilitation

ADD the sum of $ N/A .

ALTERNATE NO. 3: Sludge Holding Tank and Blower Bldg No. 2

ADD the sum of $ N/A .

ALTERNATE NO. 4: Removal/Replacement of Diffusers in 2 Aeration Basins

ADD the sum of $ N/A .

ALTERNATE NO. 5: _____

ADD the sum of $ N/A .

CHANGE ORDER RATES: (Add separate sheet as needed)

Markup % (on rates and material): Please see attached RI 2021 Rate sheet .

Position: N/A Rate: N/A .

Position: N/A Rate: N/A .

Equipment: N/A Rate: N/A .

Equipment: N/A Rate: N/A .

SAFETY RECORDS

The Bidder certifies to the following Experience Modification Rates (EMR) and Incidence Rates for the three (3) most recent years:

	Year 2018	Year 2019	Year 2020
1. Compensation Experience Modification Rate:			.80
2. Incidence Rate:			
(a) Number of hours employees worked in the year.			
(b) Number of cases defined as recordable, from the OSHA Form 300 Log.			
(c) Total Recordable Incidence Rate = (b) x (200,000 hours) / Hours Worked (a)			

The Bidder understands that McCarthy reserves the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

SELECT AS APPROPRIATE

☒ The Bidder has completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program; OR

☐ The Bidder has not completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program because the Bidder has provided the Form and all such information to McCarthy in the past 12 months for the following project:

_____ Project, which bid on: _____.

RESPONSIVE BID REQUIREMENTS:

DO NOT ENCLOSE YOUR STANDARD TERMS AND CONDITIONS

If any exceptions are taken to the requirements of this Proposal form, attach a separate sheet listing those exceptions, stating the sections and paragraphs and the specific exception.	IZ (initials)
In submitting this proposal, the Bidder certifies that this bid is valid for 150 calendar days.	IZ (initials)
In submitting this Proposal as described herein, we agree to complete the work in accordance with the included Preliminary Construction Sequence.	IZ (initials)
In submitting this Proposal, the Bidder certifies that all cost for extended warranties to start on the date of Substantial Completion is included.	IZ (initials)
In submitting this proposal as described herein, we confirm that we have received, reviewed and agree to all commercial terms stated in the McCarthy Subcontract and Purchase Order Agreement. Any exception taken to the commercial terms stated in these Agreements must be listed on a separate sheet noting the article or paragraph and the specific exception. ***Bidders attached Standard Terms and Conditions will not be acknowledged or accepted as part of any given bid.***	IZ (initials)
In submitting this proposal as described herein, the Bidder certifies that this bid is coordinated based on a complete set of documents and that there will be no claims for change order based on the assertion that the Bidder did not have a complete set of Bidding Documents.	IZ (initials)
In submitting this proposal, the Bidder certifies that they have included all spare parts, training, O & M Manuals, shop drawings and administration costs as associated to comply with the requirements of the specifications and as listed for their scope of work.	IZ (initials)
A bid will be considered non-responsive if the Subcontractor Pre-Qualification Form is not completed as part of the Bid Form **(or on file at McCarthy office)**.	IZ (initials)
The Bidder, by submitting their bid, represents that they have read and understand the scope requirements of the Bidding Documents.	IZ (initials)
The Bidder certifies that any proposed materials in this scope of work meet or exceeds the requirements stated in the specifications unless noted otherwise within this proposal.	IZ (initials)
The bidder certifies that the price listed in this bid is a firm Price through the final delivery of the materials proposed herein, and that no material escalation will be accepted as part of this proposal.	IZ (initials)

Within fifteen (10) days after receipt by the Bidder from McCarthy of the Subcontract or Purchase Order, the Bidder will execute and return to McCarthy said Subcontract or Purchase Order and if notified from McCarthy that Bidder is not to be enrolled in McCarthy's Contractor Default Insurance Program, deliver to McCarthy Performance and Labor and Material Payment Bonds for the Subcontract or a Supply Contract Bond for the Purchase Order, or the difference between the amount of the bid and such larger amount for which McCarthy may subcontract with another party to perform the work covered by said bid, together with all court costs, all attorney fees and all other expense of recovery, all of which shall not exceed the Bid Security attached in the amount of 15% of the bid, will become the property of McCarthy. The bonds shall name McCarthy as Obligee.

If an Individual:

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Partnership:

Authorized Signature: Chris May - MANAGING PARTNER

Name (print): CHRIS MAY

Email: chris@revolutionindustrial.com

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Corporation:

Authorized Signature: _____

Name (print): _____

Email: _____

Title: _____

Business Address: _____

_____

Telephone _____

Contractor License Number: 272318

General Liability Insurance Carrier (not the agent): Crest Insurance Group

*Please attach a sample certificate of insurance and current W9 form to your bid.

Revolution INDUSTRIAL

5858 W. Riggs Rd. • Chandler, AZ 85226
P.O. Box 51420 • Phoenix, AZ 85076

www.revolutionindustrial.com

P: (480) 993-6699 • F: (480) 718-7656

Proposal #20-0357 R1

Thursday, April 22, 2021

Revolution Industrial is pleased to present our proposal for:

Client: McCarthy Building Companies

Client Contact: Michael Jones - Estimator

Project: Chandler WRF Improvements – GMP 02

This scope of work includes: Structural fabrication and erection per 2021.03.15_WRF Improvements_Agency Review Drawings, Addendum 1 through 4.

Structural Steel

- Removal and reinstallation of AWRF Filter basin Canopy – 10.26 Tons
- Crane Rail Framing at AWRF Filters – 2.88 Tons
- New Canopy at OWRF Filter Basin – 12.33 Tons
- Sludge holding tank stairs – 3.52 Tons.
- Roof Framing at sludge blower building – 5.07 Tons.

Our price for this scope of work is as follows:

1. Lump Sum Price of - $743,464.00
    a. Breakout per attached McCarthy Bid form and Front Ends Documents
2. Taxes Excluded

Clarifications:

- All work to be performed according to OSHA and site-specific safety regulations.
    - COVID – 19 precautions per CDC guidelines. Site specific guidelines not identified in the bid package may increase total duration and result in a change order.
- Quote valid for 150 days from date on proposal.
- Confined space work is considered non-permitted.
- McCarthy responsible for provided access and egress and all air monitoring.
- Includes one mobilization per scope (structural, and misc. metals). Additional mobilization will incur a change order.
- Bond and Bid bond rate are spread across both scope areas evenly. Selection of only one scope will affect rate and may result in a change order.
- 30% of contract value will be billed upon contract award for mobilization and to procure materials.
- OWRF Aeration Basins Pipe support (6/S-15) Max height 4’. Assumed 6’ height per M-3.02.
- Pre-Job Notification:
  Owner/Contractor needs to be aware that Revolution Industrial routinely files preliminary notices on projects solely to protect Revolution Industrial’s rights in case of dispute or non-payment. This is done to fulfill state requirements allowing us to protect our legal rights.

Exclusions:

1. Any items not identified or sized or details not shown or details shown but not cut on the drawings
2. Miscellaneous steel not specifically called out.
3. FRP Grating

This proposal is the sole property of Revolution Industrial. The contents herein are strictly confidential and are supplied on the understanding that they will be held confidentially and not disclosed to third parties without the prior written consent of Revolution Industrial. (© 2015)

4. All steel and misc. metal associated with the maintenance building.
5. Any and all pipe straps
6. Drill and epoxy of steel hardware at new concrete.
7. Spiral Staircases
8. Mechanical pipe support unless specifically noted above.
9. Excavation or concrete infill of bollards.
10. Permits.
11. Sales, use and gross receipts taxes
12. Demolition and / or removal of existing material, finish or fireproofing to obtain access.
13. Cost of inspection and testing.
14. Participating in liquidated damages
15. Rebar & mesh
16. Concrete inserts
17. All concrete work, grout & placing of same, core drilling and etc.
18. Opening frames or mechanical supports (except where specifically shown on structural drawings)
19. Burglar bars @ opening frames.
20. Stair nosings
21. Wrought iron fence and gates
22. Ornamental metals (aluminum, brass, bronze, glass rail, wrought iron & etc.)
23. Field welding of rebar.
24. Field welding other than listed.
25. Sheet metal 15 gauge & lighter.
26. Metal sash and/or mullions
27. Glass stops
28. Wire mesh partitions & accessories
29. Expansion joint covers
30. Unistrut
31. Back up bars for other trades
32. Pipe sleeves for other trades
33. All non-ferrous materials
34. Anchor bolts for others trades
35. Masonry anchors or ties
36. Bolts other than steel to steel & steel to concrete or masonry
37. Seam welding of metal deck
38. Flashing, gutters and downspouts
39. Sump pans
40. Cutting of deck at mechanical openings
41. Installation of the insulation @ acoustical deck
42. Shoring of any kind
43. Chain link fence and gates
44. Signage post and post sleeves
45. All wood products and materials
46. All Simpson products
47. Panelized wooden roof system and all accessories
48. Standing seam metal roof system and all accessories
49. Field measuring and surveying.
50. Galvanizing
51. Finish painting.
52. Any field painting including touch-up of structural, miscellaneous & metal decking.
53. All structural calculations and engineering costs.

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54. Any item not specifically included in this proposal.
55. Grouting of steel base plates.

Sincerely,

Jarrod Goodman – Project Manager
C: 623.980.4180
jarrod@revolutionindustrial.com

Isaac Zornes - Estimator
C:602.245.2008
Izornes@revolutionindustrial.com

This proposal is the sole property of Revolution Industrial. The contents herein are strictly confidential and are supplied on the understanding that they will be held confidentially and not disclosed to third parties without the prior written consent of Revolution Industrial. (© 2015)

Jones, Michael

From: Issac Zornes <izornes@revolutionindustrial.com>
Sent: Wednesday, April 28, 2021 1:37 PM
To: Jones, Michael
Subject: RE: Labor for Concrete Embedded Metal - Chandler WRF

The structural scope includes the 3M PRL insurance but is missing the add of 60K for the 5M CGL insurance till 2023.
If awarded just structural – 60K add.
If awarded Structural and Misc. Metals – 60K add.
If awarded only Misc. metals – 78K add.

The 3M PRL insurance till 2023 was an 18K carry in the last updated structural proposal.

Thank you

Isaac Zornes | Estimator
(602) 245-2008
Izornes@revolutionindustrial.com

From: Jones, Michael <MJones@McCarthy.com>
Sent: Wednesday, April 28, 2021 1:21 PM
To: Issac Zornes <izornes@revolutionindustrial.com>
Subject: RE: Labor for Concrete Embedded Metal - Chandler WRF

One more question. Will the $78,000 for insurance coverage cost the same whether you are awarded one or two scopes of work? If you won both there were be a deduct on both scopes?

Thanks,

Michael Jones
Project Estimator
McCarthy Building Companies, Inc.
6225 N. 24th Street, STE 200 | Phoenix, AZ 85016
M 480-392-9157

From: Issac Zornes <izornes@revolutionindustrial.com>
Sent: Wednesday, April 28, 2021 11:30 AM
To: Jones, Michael <MJones@McCarthy.com>
Subject: RE: Labor for Concrete Embedded Metal - Chandler WRF

Chandler WRF Improvements Project
GMP 2 Work Category Solicited Subcontractors Summary
Work Category: **05B Misc. Metals**

Subcontractor/Supplier Name	***Status***
Revolution Industrial	*Recommended*
McCarthy Building Company	*Proposed*
Blue Dot Steel & Supply	*Declined*
Diversified Metal Fabrication	*Declined*
Anderson Steel Supply Inc.	*Declined*
Caliente Ironworks	*Declined*
OLT Fabrication	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **05B - Miscellaneous Metals**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Revolution Industrial	McCarthy/SH Engineering	Blue Dot Steel & Supply	Diversified Metal Fabrication	Anderson Steel Supply, Inc.
		Jarrod Goodman	Eric Fields	Erin Rios	Carrie Boldt	Richard McGivern
		(623) 980-4180	(602) 819-4375	(480) 894-0760	(480) 892-7700	(406) 761-4354
		jarrod@revolutionindustrial.com	Efields@McCarthy.com	erin@bluedotsteel.com	cboldt@dm-fab.com	rmcgivern@andersonsteel.net
	TOTAL WORK CATEGORY PACKAGE VALUE	**$863,923**	**$960,301**	**Declined**	**Declined**	**Declined**
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	Yes	Yes			
2	Bid Submitted on McCarthy Bid Form	Yes	Yes			
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	Yes	Yes			
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing. (The date on the letter provided should be within the last 30 days and the letter should include the status of their line of credit.)	Yes	Yes			
5	Surety Company	Old Repubic	Allianz-Starr			
6	Surety AM Best Rating (Must be A- or Better)	A+	A+			
7	AM Best Financial Size X($500M to $750M) or higher	Yes	Yes			
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	Yes	Yes			
9	Bond/CDI Cost	1.200%	1.295%			
10	Included Insurance Requirements (Per Matrix)	Yes	Yes			
11	GL Insurance Company Name	Crest Insurance	Allianz-Starr			
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	A+	A+			
13	PRL Insurance (If required by the Front Ends)	Yes	Yes			
14	Pollution Insurance (If required by the Front Ends)	N/A	Yes			
15	Tier 1 Approved	Yes	Yes			
16	Tier 2 Approved	N/A	Yes			
17	Safety Items:	Yes	Yes			
18	OSHA Recordable Incident Rate (Current)	.8	0.39			
19	Agrees to comply with PPE requirements including 100% glove policy	Yes	Yes			
20	Acknowledges updated ladder policy (platform ladders)	Yes	Yes			
21	Task Hazard Analysis included for all tasks	Yes	Yes			
22	Tie-off above 6' required	Yes	Yes			
23	Includes Hoisting for Sub's Own Work Scope	Yes	Yes			
24	Acknowledges Soils Report	N/A	N/A			
25	Acknowledges Addenda	Yes	Yes			
26	Hold Bid for 150 Days	Yes	Yes			
27	Pricing good for the duration of the project	N/A	N/A			
28	Sales Tax Included	N/A	N/A			
29	**COVID-19 Market Questions**					
30	How has your workprogram been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No	No			
31	Have you had any future work oppurtunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No	No			
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No			
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No	No			
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No			
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No	No			
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	Longer Lead Times	No			
37	Do you have any overseas suppliers that may be impeding your supply chain?	No	No			

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **05B - Miscellaneous Metals**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Revolution Industrial	McCarthy/SH Engineering	Blue Dot Steel & Supply	Diversified Metal Fabrication	Anderson Steel Supply, Inc.
		Jarrod Goodman	Eric Fields	Erin Rios	Carrie Boldt	Richard McGivern
		(623) 980-4180	(602) 819-4375	(480) 894-0760	(480) 892-7700	(406) 761-4354
		jarrod@revolutionindustrial.com	Efields@McCarthy.com	erin@bluedotsteel.com	cboldt@dm-fab.com	rmcgivern@andersonsteel.net
	TOTAL WORK CATEGORY PACKAGE VALUE	**$863,923**	**$960,301**	**Declined**	**Declined**	**Declined**
38						
39	Per Plans & Specifications	Yes	Yes			
40	Division 1 as it relates to this scope of work	Yes	Yes			
41	03600 – Grout	Yes	Yes			
42	05051 – Anchor Bolts, Toggle Bolts, and Concrete Inserts	Yes	Yes			
43	05500 – Metal Fabrications	Yes	Yes			
44	05510 – Metal Stairs	Yes	Yes			
45	05521 – Aluminum Handrail	Yes	Yes			
46	05530 – Aluminum Grating	Yes	Yes			
47	05532 – Aluminum Checkered Plate	Yes	Yes			
48	09900 – Painting	Yes	Yes			
Scope of Work						
Base Bid:		$892,294	$1,018,192			
49	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 05B - Miscellaneous Metals, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	Yes			
50	Check to Spec completed and submitted to McCarthy	N/A	N/A			
51	1 year warranty from Final Acceptance (Aug 2023)	Yes	Yes			
52	On-site verifications of dimensions	Yes	Yes			
53	Shop Primer and field touch up primer in accordance to spec 09900 Painting	Yes	Yes			
54	Corrosion Protection for all aluminum surfaces in contact with grout, concrete, masonry, wood or dissimilar metals per spec to be NSF61 approved.	Yes	Yes			
55	6" dia x 8' long bollards	Yes	Yes			
56	Stair details, loadings, connections, materials and design calculations prepared, signed and sealed by Registered Professional Engineer licensed in the State of Arizona	Yes	Yes			
57	Provide Aluminum Handrail and Railings by a single firm	Yes	Yes			
58	Calculations for complete structural analysis of handrail and railing systems including calculations showing compliance with system performance to be prepared, signed and sealed by a Registered Professional Engineer licensed in the State of Arizona.	Yes	Yes			
59	Provide all anchor bolts for base plates	Yes	Yes			
60	Drill and epoxy anchors where required	Yes	Yes			
61	Provide all Ladders per latest issue of OSHA/ANSI A14.3, Section 1910.27. and applicable building code standards	Yes	Yes			
62	OSHA approved fall protection on all ladder systems	Yes	Yes			
63	Floor Access Hatches to be double doored with aluminum safety grating	Yes	Yes			
64	Safety railing for side of hatches not protected once grating is opened	Yes	Yes			
65	Blower pipe supports	Yes	Yes			
66	Steel supports for Filter Basin platforms	Yes	Yes			
67	Metal stairs at Filters, Anoxic Basins, Clarifiers	Yes	Yes			
68	SS Baffle/Hood at OWRF Anoxic Basin	Yes	Yes			
69	Aluminum grating (including supports, anchors)	Yes	Yes			

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **05B - Miscellaneous Metals**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Revolution Industrial	McCarthy/SH Engineering	Blue Dot Steel & Supply	Diversified Metal Fabrication	Anderson Steel Supply, Inc.
		Jarrod Goodman	Eric Fields	Erin Rios	Carrie Boldt	Richard McGivern
		(623) 980-4180	(602) 819-4375	(480) 894-0760	(480) 892-7700	(406) 761-4354
		jarrod@revolutionindustrial.com	Efields@McCarthy.com	erin@bluedotsteel.com	cboldt@dm-fab.com	rmcgivern@andersonsteel.net
	TOTAL WORK CATEGORY PACKAGE VALUE	**$863,923**	**$960,301**	**Declined**	**Declined**	**Declined**
70	Swing safety gates	Yes	Yes			
71	Aluminum checkered plate	Yes	Yes			
72	Epoxy for Anchors	Yes	Yes			
73	Relocate metal canopy at OWRF Chlorine Contact Basin	Yes	Yes			
74	Five-year warranty for access hatches	Yes	Yes			
75	Ackowledge Q&A Log	Yes	Yes			
76	Provide structural and anchorage calculation sealed by a registered structural engineer in the state of Arizona	Yes	Yes			
77	All metallic surfaces (including pipe, supports, and enclosure) shall be primed per the requirements of the 09900 - Painting	Yes	Yes			
78	Shipping shall be FOB jobsite	Yes	Yes			
79	Separate deliveries for AWRF and OWRF	Yes	Yes			
80	Deduct for Metal stairs at Maintenance Building	-$68,614	-$63,727			
81	Cost for Project Required Insurance	$30,000	N/A			
82	Unloading & storage	Yes	Yes			
83	COVID-19 Scope Items					
84	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes	Yes			
85	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes	Yes			
86	All personnel onsite must maintain 6'0" spacing between personel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes	Yes			
87	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes	Yes			
88	All tools and equipment used must be sanitzed each day.	Yes	Yes			
89	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes	Yes			
90	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes	Yes			
91	Personnel are not allowed to carpool to the site or while onsite.	Yes	Yes			
92	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the apropriate testing and quarantine protocols.	Yes	Yes			
93						
94	End of Scope					
95	Bond/CDI Cost	$10,243	$5,836			
	TOTAL WORK CATEGORY PACKAGE VALUE	**$863,923**	**$960,301**			

BID PROPOSAL

Date April 9th 2021

Bid Proposal of * Revolution Industrial (hereinafter called "Bidder")

a ** Corporation organized and existing under the laws of the State of

Arizona.

* Insert name of firm.
** Insert corporation, partnership, or individual, as applicable.

(INSERT OWNER'S ADDRESS)
TO: McCarthy Building Companies, Inc.
6225 North 24th Street, Suite 200
Phoenix, Arizona 85016

The Bidder, in compliance with your Invitation for Bids for the construction of Chandler Water Reclamation Facility Improvements having examined the Contract Documents entitled City of Chandler, Chandler WRF Improvements Project, and other related documents and being familiar with the site of the proposed work, and with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, and the progress of work to date, if any, hereby proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, perform all work, provide all services, and to construct all work in accordance with the Contract Documents set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required.

The Bidder shall attach a copy of Bidders' detailed estimate to its Bid Proposal. This estimate shall identify all quantities shown in the documents or anticipated along with corresponding labor, material and equipment pricing.

After Bid Proposals are received, tabulated, and evaluated by McCarthy, said Bidder agrees to meet with McCarthy for the purpose of determining any duplications, omissions, or mutually agreed bid adjustments. For these meetings, the Bidder agrees to provide a complete, detailed cost breakdown; a list of all sub-subcontractors proposed for use in the work; and a list of all items, materials and their manufacturers proposed for use in the work.

The Bidder, if awarded a Subcontract, agrees to commence work and to fully complete its Work in accordance with a schedule to be established in collaboration with McCarthy under the provisions of the Additional Subcontractor Conditions of the Specifications.

The Bidder acknowledges receipt of the following Addenda: One through four

.

BASE BID:

The Bidder agrees to perform all Structural steel and misc. metals (herein insert the title of the Work Category as it appears in the Additional Subcontractor Conditions) Work for Work Category No. 05B, as described in the Contract Documents, for the Lump Sum of One million three hundred thousand five hundred and eighty nine DOLLARS ($1,300,589.00).

BID BREAKDOWN:

Airport WRF Total Amount $

- Aeration Basin $78,667.85.
- Blower Piping $100,957.25.
- Blower Ductbank $123,647.95.
- Filters $ N/A.
- Maintenance Bldg $ N/A.

Ocotillo WRF Total Amount $

Project Insurance Requirement Cost Adder- Split between WC 05A and 05B = $30,000/ea. See below for back email.

- Aeration/Anoxic $997,315.95.
- RAS/WAS PS $ N/A.
- Clarifiers 1& 2 $ N/A.
- Filters $ N/A..
- MCC Replacement $ N/A..
- Reservoir $ N/A..
- Roads/Sitework $ N/A..

Performance & Payment Bond Cost *(If Applicable)* $15,000.00

Total Subcontract Amount $1,300,589.00

The name of the proposed Bonding Company is Old Republic Surety Company

Bond rate 15 %

All applicable taxes, except sales and use taxes on materials and equipment which are affixed and made a part of the real estate of the Project, are included in the above Base Bid. Bidder agrees that this Bid Proposal shall be good and may not be withdrawn unless McCarthy does not send Bidder a Subcontract within one hundred ~~twenty (160) calendar days~~ fifty (150) calendar days after the opening date of Bid Proposals.

(Amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

ALTERNATES:

The Bidder further agrees that if any or all of the Alternates listed and described below are incorporated and accepted within sixty (60) calendar days after receipt of a Subcontract from McCarthy, the Bidder will adjust its Subcontract by the amount indicated opposite the Alternates listed below.

ALTERNATE NO. 1: Filter Disc in Basin 7 Installation:

ADD the sum of $ N/A .

ALTERNATE NO. 2: Clarifier 3 Rehabilitation

ADD the sum of $ N/A .

ALTERNATE NO. 3: Sludge Holding Tank and Blower Bldg No. 2

ADD the sum of $ N/A .

ALTERNATE NO. 4: Removal/Replacement of Diffusers in 2 Aeration Basins

ADD the sum of $ N/A .

ALTERNATE NO. 5: _____

ADD the sum of $ N/A .

CHANGE ORDER RATES: (Add separate sheet as needed)

Markup % (on rates and material): Please see attached RI 2021 Rate sheet .

Position: N/A Rate: N/A .

Position: N/A Rate: N/A .

Equipment: N/A Rate: N/A .

Equipment: N/A Rate: N/A .

SAFETY RECORDS

The Bidder certifies to the following Experience Modification Rates (EMR) and Incidence Rates for the three (3) most recent years:

	Year 2018	Year 2019	Year 2020
1. Compensation Experience Modification Rate:			.80
2. Incidence Rate:			
(a) Number of hours employees worked in the year.			
(b) Number of cases defined as recordable, from the OSHA Form 300 Log.			
(c) Total Recordable Incidence Rate = (b) x (200,000 hours) / Hours Worked (a)			

The Bidder understands that McCarthy reserves the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

SELECT AS APPROPRIATE

☒ The Bidder has completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program; OR

☐ The Bidder has not completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program because the Bidder has provided the Form and all such information to McCarthy in the past 12 months for the following project:

_____ Project, which bid on: _____.

RESPONSIVE BID REQUIREMENTS:

DO NOT ENCLOSE YOUR STANDARD TERMS AND CONDITIONS

If any exceptions are taken to the requirements of this Proposal form, attach a separate sheet listing those exceptions, stating the sections and paragraphs and the specific exception.	IZ (initials)
In submitting this proposal, the Bidder certifies that this bid is valid for 150 calendar days.	IZ (initials)
In submitting this Proposal as described herein, we agree to complete the work in accordance with the included Preliminary Construction Sequence.	IZ (initials)
In submitting this Proposal, the Bidder certifies that all cost for extended warranties to start on the date of Substantial Completion is included.	IZ (initials)
In submitting this proposal as described herein, we confirm that we have received, reviewed and agree to all commercial terms stated in the McCarthy Subcontract and Purchase Order Agreement. Any exception taken to the commercial terms stated in these Agreements must be listed on a separate sheet noting the article or paragraph and the specific exception. ***Bidders attached Standard Terms and Conditions will not be acknowledged or accepted as part of any given bid.***	IZ (initials)
In submitting this proposal as described herein, the Bidder certifies that this bid is coordinated based on a complete set of documents and that there will be no claims for change order based on the assertion that the Bidder did not have a complete set of Bidding Documents.	IZ (initials)
In submitting this proposal, the Bidder certifies that they have included all spare parts, training, O & M Manuals, shop drawings and administration costs as associated to comply with the requirements of the specifications and as listed for their scope of work.	IZ (initials)
A bid will be considered non-responsive if the Subcontractor Pre-Qualification Form is not completed as part of the Bid Form **(or on file at McCarthy office)**.	IZ (initials)
The Bidder, by submitting their bid, represents that they have read and understand the scope requirements of the Bidding Documents.	IZ (initials)
The Bidder certifies that any proposed materials in this scope of work meet or exceeds the requirements stated in the specifications unless noted otherwise within this proposal.	IZ (initials)
The bidder certifies that the price listed in this bid is a firm Price through the final delivery of the materials proposed herein, and that no material escalation will be accepted as part of this proposal.	IZ (initials)

Within fifteen (10) days after receipt by the Bidder from McCarthy of the Subcontract or Purchase Order, the Bidder will execute and return to McCarthy said Subcontract or Purchase Order and if notified from McCarthy that Bidder is not to be enrolled in McCarthy's Contractor Default Insurance Program, deliver to McCarthy Performance and Labor and Material Payment Bonds for the Subcontract or a Supply Contract Bond for the Purchase Order, or the difference between the amount of the bid and such larger amount for which McCarthy may subcontract with another party to perform the work covered by said bid, together with all court costs, all attorney fees and all other expense of recovery, all of which shall not exceed the Bid Security attached in the amount of 15% of the bid, will become the property of McCarthy. The bonds shall name McCarthy as Obligee.

If an Individual:

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Partnership:

Authorized Signature: Chris May - MANAGING PARTNER

Name (print): CHRIS MAY

Email: chris@revolutionindustrial.com

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Corporation:

Authorized Signature: _____

Name (print): _____

Email: _____

Title: _____

Business Address: _____

_____

Telephone _____

Contractor License Number: 272318

General Liability Insurance Carrier (not the agent): Crest Insurance Group

*Please attach a sample certificate of insurance and current W9 form to your bid.

Revolution INDUSTRIAL

5858 W. Riggs Rd. • Chandler, AZ 85226
P.O. Box 51420 • Phoenix, AZ 85076

www.revolutionindustrial.com

P: (480) 993-6699 • F: (480) 718-7656

Proposal #20-0357

Friday, April 9, 2021

Revolution Industrial is pleased to present our proposal for:

Client: MchCarthy Building Companies

Client Contact: Michael Jones - Estimator

Project: Chandler WRF Improvements – GMP 02

This scope of work includes: Structural and misc. metals per 2021.03.15_WRF Improvements_Agency Review Drawings, Addendum 1 through 4.

Structural Steel

- Removal and reinstallation of AWRF Filter basin Canopy – 10.26 Tons
- Crane Rail Framing at AWRF Filters – 2.88 Tons
- New Canopy at OWRF Filter Basin – 12.33 Tons
- Sludge holding tank stairs – 3.52 Tons.
- Roof Framing and decking at sludge blower building – 5.07 Tons.
- Relocating OWRF Canopy – 9.78

Misc Metals

- AWRF Blower Pipe Supports – 13.83 Tons
- OWRF Pipe Supports – 5.16 Tons
- Filter Basin Platform Metal Frames – 4.07 Tons
- Handrails and Guard railing – 983.25 LF
- Access hatches – 12 Count
- Aluminum Ladders – 10 Count
- Aluminum grating – 750 SF
- Bollards – 6 Count

Our price for this scope of work is as follows:

1. Lump Sum Price of - $1,300,589.00
    a. Structural Steel - $719,020.00
    b. Misc. Metals - $581,569.00
    c. Breakout per attached McCarthy Bid form and Front Ends Documents
2. Taxes Excluded (Taxes to be included if tax exemption not provided)

Clarifications:

- All work to be performed according to OSHA and site-specific safety regulations.
    - COVID – 19 precautions per CDC guidelines. Site specific guidelines not identified in the bid package may increase total duration and result in a change order.
- Quote valid for 150 days from date on proposal.
- Confined space work is considered non-permitted.
- McCarthy responsible for provided access and egress and all air monitoring.

This proposal is the sole property of Revolution Industrial. The contents herein are strictly confidential and are supplied on the understanding that they will be held confidentially and not disclosed to third parties without the prior written consent of Revolution Industrial. (© 2015)

- Includes one mobilization per scope (structural, and misc. metals). Additional mobilization will incur a change order.
- Bond and Bid bond rate are spread across both scope areas evenly. Selection of only one scope will affect rate and may result in a change order.
- 30% of contract value will be billed upon contract award for mobilization and to procure materials.
- OWRF Aeration Basins Pipe support (6/S-15) Max height 4'. Assumed 6' height per M-3.02.
- Pre-Job Notification:
  Owner/Contractor needs to be aware that Revolution Industrial routinely files preliminary notices on projects solely to protect Revolution Industrial's rights in case of dispute or non-payment. This is done to fulfill state requirements allowing us to protect our legal rights.

Exclusions:

1. Any items not identified or sized or details not shown or details shown but not cut on the drawings
2. Any items shown or called for on civil, mechanical, plumbing, electrical, or landscape drawings.
3. Miscellaneous steel not specifically called out.
4. FRP Grating
5. All steel and misc. metal associated with the maintenance building.
6. Any and all pipe straps
7. Drill and epoxy of steel hardware at new concrete.
8. Spiral Staircases
9. Mechanical pipe support unless specifically noted above.
10. Excavation or concrete infill of bollards.
11. Permits.
12. Sales, use and gross receipts taxes
13. Demolition and / or removal of existing material, finish or fireproofing to obtain access.
14. Cost of inspection and testing.
15. Participating in liquidated damages
16. Rebar & mesh
17. Concrete inserts
18. All concrete work, grout & placing of same, core drilling and etc.
19. Opening frames or mechanical supports (except where specifically shown on structural drawings)
20. Burglar bars @ opening frames.
21. Stair nosings
22. Wrought iron fence and gates
23. Ornamental metals (aluminum, brass, bronze, glass rail, wrought iron & etc.)
24. Field welding of rebar.
25. Field welding other than listed.
26. Sheet metal 15 gauge & lighter.
27. Metal sash and/or mullions
28. Glass stops
29. Wire mesh partitions & accessories
30. Expansion joint covers
31. Unistrut
32. Back up bars for other trades
33. Pipe sleeves for other trades
34. All non-ferrous materials
35. Anchor bolts for others trades
36. Masonry anchors or ties

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37. Bolts other than steel to steel & steel to concrete or masonry
38. Seam welding of metal deck
39. Flashing, gutters and downspouts
40. Sump pans
41. Cutting of deck at mechanical openings
42. Installation of the insulation @ acoustical deck
43. Shoring of any kind
44. Chain link fence and gates
45. Signage post and post sleeves
46. All wood products and materials
47. All Simpson products
48. Panelized wooden roof system and all accessories
49. Standing seam metal roof system and all accessories
50. Field measuring and surveying.
51. Galvanizing
52. Finish painting.
53. Any field painting including touch-up of structural, miscellaneous & metal decking.
54. All structural calculations and engineering costs.
55. Any item not specifically included in this proposal.
56. Grouting of steel base plates.

Sincerely,

Jarrod Goodman – Project Manager
C: 623.980.4180
jarrod@revolutionindustrial.com

Isaac Zornes - Estimator
C:602.245.2008
Izornes@revolutionindustrial.com

This proposal is the sole property of Revolution Industrial. The contents herein are strictly confidential and are supplied on the understanding that they will be held confidentially and not disclosed to third parties without the prior written consent of Revolution Industrial. (© 2015)

Chandler WRF Improvements Project
GMP 2 Work Category Solicited Subcontractors Summary
Work Category: **06A Carpentry**

Subcontractor/Supplier Name	***Status***
Best Holdings Group	*Recommended*
Request Manufacturing	*Proposed*
MGC Inc	*Declined*
Pete King	*Declined*
Arch Millwork Design	*Declined*
Isec, Inc.	*Declined*
MKB Construction	*Declined*
Performance Contracting	*Declined*
Red Built	*Declined*
Sunstate Installations	*Declined*
Torcom	*Declined*
Western Millwork	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **06A - Carpentry**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

COMPANY INFORMATION		**Best Holdings Group DBA Maplewood Cabinetry**	Request Manufacturing Inc.	MGC Inc	Pete King	Arch. Millwork Design Inc.
		David Dieffenbach	Shannon McLaine	Jeff Rea	Zach King	Bruce Transon
		623-516-1800	602-618-5455	505-379-7408	602-944-4441	623-777-8912
		david@maplewoodcabinetry.com	shannan@requestaz.com	jrea@mgcinc.net	pete@pkcaz.com	bruce.transon@amd-sw.com
TOTAL WORK CATEGORY PACKAGE VALUE		**$2,809**	**$4,514**	**Declined**	**Declined**	**Declined**
MCCARTHY SUBCONTRACT & FRONT END TERMS						
1	Compliant with McCarthy Front Ends	Yes	Yes			
2	Bid Submitted on McCarthy Bid Form	Yes	Yes			
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	N/A	N/A			
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing.	3/1/2021	2/24/2021			
5	Surety Company	N/A	N/A			
6	Surety AM Best Rating (Must be A- or Better)	N/A	N/A			
7	AM Best Financial Size X($500M to $750M) or higher	Yes	N/A			
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	N/A	N/A			
9	Bond/CDI Cost	1.295%	1.295%			
10	Included Insurance Requirements (Per Matrix)	Yes	Yes			
11	GL Insurance Company Name	Massachusetts Bay	Sentinel Insurance Co.			
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	A+	A+			
13	PRL Insurance (If required by the Front Ends)	N/A	N/A			
14	Pollution Insurance (If required by the Front Ends)	N/A	N/A			
15	Tier 1 Approved	Yes with Cond.	Yes			
16	Tier 2 Approved	N/A	N/A			
17	Safety Items:	Yes	Yes			
18	OSHA Recordable Incident Rate (Current)	1.03	0.87			
19	Agrees to comply with PPE requirements including 100% glove policy	Yes	Yes			
20	Acknowledges updated ladder policy (platform ladders)	Yes	Yes			
21	Task Hazard Analysis included for all tasks	Yes	Yes			
22	Tie-off above 6' required	Yes	Yes			
23	Includes Hoisting for Sub's Own Work Scope	Yes	Yes			
24	Acknowledges Soils Report	N/A	N/A			
25	Acknowledges Addenda	Yes	Yes			
26	Hold Bid for 150 Days	Yes	Yes			
27	Pricing good for the duration of the project	N/A	N/A			
28	Sales Tax Included	No	No			
29	**COVID-19 Market Questions**					
30	How has your workprogram been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No	No			
31	Have you had any future work oppurtunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No	No			
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No			
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No	No			
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No			
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No	No			

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **06A - Carpentry**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Best Holdings Group DBA Maplewood Cabinetry	Request Manufacturing Inc.	MGC Inc	Pete King	Arch. Millwork Design Inc.
		David Dieffenbach	Shannon McLaine	Jeff Rea	Zach King	Bruce Transon
		623-516-1800	602-618-5455	505-379-7408	602-944-4441	623-777-8912
		david@maplewoodcabinetry.com	shannan@requestaz.com	jrea@mgcinc.net	pete@pkcaz.com	bruce.transon@amd-sw.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$2,809**	**$4,514**	**Declined**	**Declined**	**Declined**
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No	No			
37	Do you have any overseas suppliers that may be impeding your supply chain?	No	No			
38						
39	Per Plans & Specifications	Yes	Yes			
40	Division 1 as it relates to this scope of work	Yes	Yes			
41	05051 Anchor Bolts, Toggle Bolts, and Concrete Inserts	Yes	Yes			
42	06100 Rough Carpentry	By WC 09A	By WC 09A			
43	06410 Architectural Wood Casework	Yes	Yes			
Scope of Work						
Base Bid:		$2,500	$4,183			
44	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 06A-Carpentry, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Cabinetry Only	Cabinetry Only			
45	Check to Spec completed and submitted to McCarthy	Yes	Yes			
46	1 year warranty from Final Acceptance (Aug 2023)	Yes	Yes			
47	**Airport WRF Site - Maintenance Building**					
48	Rough Carpentry In-Wall Blocking for Plumbing Fixtures and Accessories - coordinate with respective trades (Drywall package) for inwall blocking by others	By WC 09A	By WC 09A			
49	Blocking to be coordinated with MEP Trades as required	By WC 09A	By WC 09A			
50	All Casework in Maintenance Building including Countertops and Hardware - all blocking by Interior Drywall/Framing scope 09A	Yes	Yes			
51	Comply with code for fire retardant requirements	Yes	Yes			
52	Provide all anchors and epoxy required for the installation	Yes	Yes			
53	Shipping shall be FOB jobsite	Yes	Yes			
53	Unloading & storage	Yes	Yes			
54	Cover and Protect through Substantial Completion	$273	$273			
55	COVID-19 Scope Items					
56	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes	Yes			
57	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes	Yes			
58	All personnel onsite must maintain 6'0" spacing between personel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes	Yes			
59	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes	Yes			
60	All tools and equipment used must be sanitzed each day.	Yes	Yes			
61	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes	Yes			

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **06A - Carpentry**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Best Holdings Group DBA Maplewood Cabinetry	Request Manufacturing Inc.	MGC Inc	Pete King	Arch. Millwork Design Inc.
		David Dieffenbach	Shannon McLaine	Jeff Rea	Zach King	Bruce Transon
		623-516-1800	602-618-5455	505-379-7408	602-944-4441	623-777-8912
		david@maplewoodcabinetry.com	shannan@requestaz.com	jrea@mgcinc.net	pete@pkcaz.com	bruce.transon@amd-sw.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$2,809**	**$4,514**	**Declined**	**Declined**	**Declined**
62	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes	Yes			
63	Personnel are not allowed to carpool to the site or while onsite.	Yes	Yes			
64	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the apropriate testing and quarantine protocols.	Yes	Yes			
65						
66	End of Scope					
67	Bond/CDI Cost	$36	$58			
	TOTAL WORK CATEGORY PACKAGE VALUE	**$2,809**	**$4,514**			

BID PROPOSAL

Date March 29th, 2021

Bid Proposal of * Best Holdings Group, d.b.a Maplewood Cabinetry (hereinafter called "Bidder")

a ** corporation organized and existing under the laws of the State of

Arizona.

* Insert name of firm.
** Insert corporation, partnership, or individual, as applicable.

(INSERT OWNER'S ADDRESS)
TO: McCarthy Building Companies, Inc.
6225 North 24th Street, Suite 200
Phoenix, Arizona 85016

The Bidder, in compliance with your Invitation for Bids for the construction of Chandler Water Reclamation Facility Improvements having examined the Contract Documents entitled City of Chandler, Chandler WRF Improvements Project, and other related documents and being familiar with the site of the proposed work, and with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, and the progress of work to date, if any, hereby proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, perform all work, provide all services, and to construct all work in accordance with the Contract Documents set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required.

The Bidder shall attach a copy of Bidders' detailed estimate to its Bid Proposal. This estimate shall identify all quantities shown in the documents or anticipated along with corresponding labor, material and equipment pricing.

After Bid Proposals are received, tabulated, and evaluated by McCarthy, said Bidder agrees to meet with McCarthy for the purpose of determining any duplications, omissions, or mutually agreed bid adjustments. For these meetings, the Bidder agrees to provide a complete, detailed cost breakdown; a list of all sub-subcontractors proposed for use in the work; and a list of all items, materials and their manufacturers proposed for use in the work.

The Bidder, if awarded a Subcontract, agrees to commence work and to fully complete its Work in accordance with a schedule to be established in collaboration with McCarthy under the provisions of the Additional Subcontractor Conditions of the Specifications.

The Bidder acknowledges receipt of the following Addenda: Addendum 1, Addendum 2, and Addendum 3.

BASE BID:

The Bidder agrees to perform all Carpentry (Architectural Wood Casework only) (herein insert the title of the Work Category as it appears in the Additional Subcontractor Conditions) Work for Work Category No. 6A, as described in the Contract Documents, for the Lump Sum of Two-thousand, five-hundred DOLLARS ($2,500.00).

BID BREAKDOWN:

Airport WRF Total Amount $2,500.00

- Aeration Basin $0.00
- Blower Piping $0.00
- Blower Ductbank $0.00
- Filters $0.00
- Maintenance Bldg $2,500.00

Ocotillo WRF Total Amount $0.00

- Aeration/Anoxic $0.00
- RAS/WAS PS $0.00
- Clarifiers 1& 2 $0.00
- Filters $0.00
- MCC Replacement $0.00
- Reservoir $0.00
- Roads/Sitework $0.00

~~Sludge Holding/Blwr Bldg $_____.~~

Performance & Payment Bond Cost *(If Applicable)* $N/A

Total Subcontract Amount $2,500.00

The name of the proposed Bonding Company is N/A

Bond rate N/A %

All applicable taxes, except sales and use taxes on materials and equipment which are affixed and made a part of the real estate of the Project, are included in the above Base Bid. Bidder agrees that this Bid Proposal shall be good and may not be withdrawn unless McCarthy does not send Bidder a Subcontract within one hundred twenty (160) calendar days after the opening date of Bid Proposals.

(Amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

ALTERNATES:

The Bidder further agrees that if any or all of the Alternates listed and described below are incorporated and accepted within sixty (60) calendar days after receipt of a Subcontract from McCarthy, the Bidder will adjust its Subcontract by the amount indicated opposite the Alternates listed below.

ALTERNATE NO. 1: Filter Disc in Basin 7 Installation:

ADD the sum of $ 0.00 .

ALTERNATE NO. 2: Clarifier 3 Rehabilitation

ADD the sum of $ 0.00 .

ALTERNATE NO. 3: Sludge Holding Tank and Blower Bldg No. 2

ADD the sum of $ 0.00 .

ALTERNATE NO. 4: Removal/Replacement of Diffusers in 2 Aeration Basins

ADD the sum of $ 0.00 .

ALTERNATE NO. 5: _____

ADD the sum of $ 0.00 .

CHANGE ORDER RATES: (Add separate sheet as needed)

Markup % (on rates and material): 20% .

Position: Project / Install Manager Rate: 150.00 .

Position: Installer Rate: 75.00 .

Equipment: _____ Rate: _____ .

Equipment: _____ Rate: _____ .

SAFETY RECORDS

The Bidder certifies to the following Experience Modification Rates (EMR) and Incidence Rates for the three (3) most recent years:

	Year 2018	Year 2019	Year 2020
1. Compensation Experience Modification Rate:	0.75	0.70	1.03
2. Incidence Rate:			
(a) Number of hours employees worked in the year.	47,772	44,289	45,447
(b) Number of cases defined as recordable, from the OSHA Form 300 Log.	1	3	3
(c) Total Recordable Incidence Rate =	4.19	13.55	13.20

$$\frac{\text{(b) x (200,000 hours)}}{\text{Hours Worked (a)}}$$

The Bidder understands that McCarthy reserves the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

SELECT AS APPROPRIATE

☒ The Bidder has completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program; OR

☐ The Bidder has not completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program because the Bidder has provided the Form and all such information to McCarthy in the past 12 months for the following project:

_____ Project, which bid on: _____.

RESPONSIVE BID REQUIREMENTS:

DO NOT ENCLOSE YOUR STANDARD TERMS AND CONDITIONS

If any exceptions are taken to the requirements of this Proposal form, attach a separate sheet listing those exceptions, stating the sections and paragraphs and the specific exception.	DMD (initials)
In submitting this proposal, the Bidder certifies that this bid is valid for 150 calendar days.	DMD (initials)
In submitting this Proposal as described herein, we agree to complete the work in accordance with the included Preliminary Construction Sequence.	DMD (initials)
In submitting this Proposal, the Bidder certifies that all cost for extended warranties to start on the date of Substantial Completion is included.	DMD (initials)
In submitting this proposal as described herein, we confirm that we have received, reviewed and agree to all commercial terms stated in the McCarthy Subcontract and Purchase Order Agreement. Any exception taken to the commercial terms stated in these Agreements must be listed on a separate sheet noting the article or paragraph and the specific exception. ***Bidders attached Standard Terms and Conditions will not be acknowledged or accepted as part of any given bid.***	DMD (initials)
In submitting this proposal as described herein, the Bidder certifies that this bid is coordinated based on a complete set of documents and that there will be no claims for change order based on the assertion that the Bidder did not have a complete set of Bidding Documents.	DMD (initials)
In submitting this proposal, the Bidder certifies that they have included all spare parts, training, O & M Manuals, shop drawings and administration costs as associated to comply with the requirements of the specifications and as listed for their scope of work.	DMD (initials)
A bid will be considered non-responsive if the Subcontractor Pre-Qualification Form is not completed as part of the Bid Form **(or on file at McCarthy office)**.	DMD (initials)
The Bidder, by submitting their bid, represents that they have read and understand the scope requirements of the Bidding Documents.	DMD (initials)
The Bidder certifies that any proposed materials in this scope of work meet or exceeds the requirements stated in the specifications unless noted otherwise within this proposal.	DMD (initials)

The bidder certifies that the price listed in this bid is a firm Price through the final delivery of the materials proposed herein, and that no material escalation will be accepted as part of this proposal.	DMD (initials)

Within fifteen (10) days after receipt by the Bidder from McCarthy of the Subcontract or Purchase Order, the Bidder will execute and return to McCarthy said Subcontract or Purchase Order and if notified from McCarthy that Bidder is not to be enrolled in McCarthy's Contractor Default Insurance Program, deliver to McCarthy Performance and Labor and Material Payment Bonds for the Subcontract or a Supply Contract Bond for the Purchase Order, or the difference between the amount of the bid and such larger amount for which McCarthy may subcontract with another party to perform the work covered by said bid, together with all court costs, all attorney fees and all other expense of recovery, all of which shall not exceed the Bid Security attached in the amount of 15% of the bid, will become the property of McCarthy. The bonds shall name McCarthy as Obligee.

If an Individual:

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Partnership:

Authorized Signature: _____

Name (print): _____

Email: _____

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Corporation:

Authorized Signature: David Dieffenbach Digitally signed by David Dieffenbach Date: 2021.03.29 13:39:53-07'00'

Name (print): David Dieffenbach

Email: David@maplewoodcabinetry.com

Title: _____

Business Address: 21241 North 23rd Avenue, Suite 9

Phoenix, AZ 85027

Telephone (623) 516-1800

Contractor License Number: 188894

General Liability Insurance Carrier (not the agent): Hanover

*Please attach a sample certificate of insurance and current W9 form to your bid.

Maplewood Cabinetry

21241 N. 23rd Ave.
Ste # 9
Phoenix, AZ 85027

AZ Contractors License
ROC 188894 & ROC 195151

Office Phone: 623-516-1800
Fax: 623-516 1823

McCarthy Building Companies, Inc.
6225 N. 24th Street
Phoenix, AZ 85016

3/29/2021

Proposal

Estimate #	Rep	Terms
18110	DMD	Net 30

Plan Date	Revisions
03/12/2021	

Project
CHANDLER WRF IMPROVEMENTS

Qty/Ft.	Description
	Design, Build and Install Custom Cabinetry per the Contract and approved Shop Drawings
	Proposal Based on Agency Review Set dated 03/12/2021
	AWRF MAINTENANCE BUILDING
	BREAK ROOM 102: Section A / A-1.86
3	Handicap Sink Base with Integral Toe Kick
2.5	PLam Base Cab. 34" to 36" x 24" with 1 Drawer & 1 Door
5.5	PLam Countertop 24" Deep, Scribed or 4" Backsplash
2.5	PLam Wall Cabinet 30" x 12"
3	PLam Wall Cabinet 18" x 12"
	PLam, Cabinets: Finish Selections TBD
	PLam, Countertop: Finish Selections TBD
	EXCLUSIONS: Demolition or Repair of Existing Millwork or Cabinetry, Plumbing and electrical components, in wall blocking, steel, solid surface materials unless spelled out above, 0.3 mil PVC edges, painting, finishing, trim, installation of materials provided by others, demolition of existing ,+ lifting, hoisting, phasing, AWI and LEEDS certification, LEEDS (green) products as well as chain of custody requirements NIC unless specified, after hours or weekend installations, any items not specified above.
	QUALIFICATIONS: 100 lb. full extension ball bearing drawer system or as specified in bid documents, Salice or equal 110 degree hinges, 4" brushed chrome wire pulls, Custom Grade flush overlay cabinet construction with line bore for shelf pin installation, particle board cabinet components with white melamine interiors, Standard Selection Plastic Laminate exteriors and self edge countertops with 0.5 Mil PVC at door, drawer and panel edges. (Colors to be determined) Price is good for 45 days from date of quote and if the project begins within 90 days from date of quote.
	Please call with any questions or revisions.
	Thank You, David Dieffenbach (602) 418-8105 Cell Phone

Subtotal	$2,500.00
Sales Tax (0.0%)	$0.00
Total	$2,500.00

Chandler WRF Improvements Project
GMP 2 Work Category Solicited Subcontractors Summary
Work Category: **06B Fiberglass Fabrications**

Subcontractor/Supplier Name	***Status***
Fibergate Composite Structures	*Recommended*
Grating Systems	*Proposed*
Fiberglass Fabricators	*Declined*
Geo Supply	*Declined*
Grating Pacific	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **06B - Fiberglass Fabrications**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Fibergrate	Grating Systems	Fiberglass Fabricators	Strongwell	Grating Pacific
		Scott Elderworth	Garrett Gibson	Anthony Capo	Andy Waadevig	Allen Figueroa
		(623) 256-3614	(801) 621-4243	(401) 231-3552	(507) 867-1216	(623) 936-9200
		selderworth@fibergrate.com	garett@gratingsystems.com	acapo@fibfab.com	awaadevig@strongwell.com	afigueroa@gratingpacific.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$42,734**	**$47,212**	**Declined**	**No Bid**	**Declined**
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	No	No			
2	Bid Submitted on McCarthy Bid Form	Waiting	No			
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	N/A	N/A			
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing. (The date on the letter provided should be within the last 30 days and the letter should include the status of their line of credit.)	N/A	N/A			
5	Surety Company	N/A	N/A			
6	Surety AM Best Rating (Must be A- or Better)	N/A	N/A			
7	AM Best Financial Size X($500M to $750M) or higher	N/A	N/A			
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	N/A	N/A			
9	Bond/CDI Cost	3.500%	1.295%			
10	Included Insurance Requirements (Per Matrix)	Waiting	No			
11	GL Insurance Company Name	Starr Surplus Lines Insurnace Company	No			
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	Yes	No			
13	PRL Insurance (If required by the Front Ends)	Waiting	No			
14	Pollution Insurance (If required by the Front Ends)	N/A	N/A			
15	Tier 1 Approved	Yes	No			
16	Tier 2 Approved	N/A	N/A			
17	Safety Items:					
18	OSHA Recordable Incident Rate (Current)	N/A	N/A			
19	Agrees to comply with PPE requirements including 100% glove policy	N/A	N/A			
20	Acknowledges updated ladder policy (platform ladders)	N/A	N/A			
21	Task Hazard Analysis included for all tasks	N/A	N/A			
22	Tie-off above 6' required	N/A	N/A			
23	Includes Hoisting for Sub's Own Work Scope	N/A	N/A			
24	Acknowledges Soils Report	N/A	N/A			
25	Acknowledges Addenda	Waiting	Yes			
26	Hold Bid for 150 Days	No	5 Days			
27	Pricing good for the duration of the project	No	No			
28	Sales Tax Included	No	No			
29	**COVID-19 Market Questions**					
30	How has your work program been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	N/A	N/A			
31	Have you had any future work opportunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	N/A	N/A			
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	N/A	N/A			
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	N/A	N/A			
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	N/A	N/A			
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	N/A	N/A			
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	N/A	N/A			

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **06B - Fiberglass Fabrications**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Fibergrate	Grating Systems	Fiberglass Fabricators	Strongwell	Grating Pacific
		Scott Elderworth	Garrett Gibson	Anthony Capo	Andy Waadevig	Allen Figueroa
		(623) 256-3614	(801) 621-4243	(401) 231-3552	(507) 867-1216	(623) 936-9200
		selderworth@fibergrate.com	garett@gratingsystems.com	acapo@fibfab.com	awaadevig@strongwell.com	afigueroa@gratingpacific.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$42,734**	**$47,212**	**Declined**	**No Bid**	**Declined**
37	Do you have any overseas suppliers that may be impeding your supply chain?	N/A	N/A			
38						
39	Per Plans & Specifications	Yes	Yes			
40	Division 1 as it relates to this scope of work	Yes	Yes			
41	06600 - Fiberglass Fabrications	Yes	Yes			
	Scope of Work					
	Base Bid:	$10,976	$15,190			
42	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 06B - Fiberglass Fabrications, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes - Fab Only	Yes - Fab Only			
43	Check to Spec completed and submitted to McCarthy	N/A	N/A			
44	1 year warranty from Final Acceptance (Aug 2023)	Yes	Yes			
45	FRP effluent weir plates at AWRF and OWRF Filters (PlastiFab)	$17,928	$17,928			
46	Grating at Disc Filter Observation Platforms	Yes	Yes			
47	Grating at Reservoirs	Yes	Yes			
48	Samples for FRP grating	$120	$120			
49	On-site verification of dimensions - Grating and Weirs	$4,500	$4,500			
50	All supports and related hardware for grating	Yes	Yes			
51	All related hardware for weir plates	Yes	Yes			
52	Shop drawings	Yes	Yes			
53	Design calculations signed and sealed by a Professional Engineer registered in the State of Arizona.	$2,500	$2,500			
54	Installation of all FRP items per scope	In WC 11K	In WC 11K			
55	Shipping shall be FOB jobsite	$1,200	$1,500			
56	Unloading & storage	$370	$370			
57	Spare Parts per Spec 06600 - 2.9A	$1,500	$1,500			
58	Escalation to meet 150 Days Bid Validity - McCarthy Plug	$2,195	$3,000			
59	COVID-19 Scope Items					
60	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	N/A	N/A			
61	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	N/A	N/A			
62	All personnel onsite must maintain 6'0" spacing between personnel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	N/A	N/A			
63	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	N/A	N/A			
64	All tools and equipment used must be sanitized each day.	N/A	N/A			
65	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	N/A	N/A			
66	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	N/A	N/A			
67	Personnel are not allowed to carpool to the site or while onsite.	N/A	N/A			

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **06B - Fiberglass Fabrications**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Fibergrate	Grating Systems	Fiberglass Fabricators	Strongwell	Grating Pacific
		Scott Elderworth	Garrett Gibson	Anthony Capo	Andy Waadevig	Allen Figueroa
		(623) 256-3614	(801) 621-4243	(401) 231-3552	(507) 867-1216	(623) 936-9200
		selderworth@fibergrate.com	garett@gratingsystems.com	acapo@fibfab.com	awaadevig@strongwell.com	afigueroa@gratingpacific.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$42,734**	**$47,212**	**Declined**	**No Bid**	**Declined**
68	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the appropriate testing and quarantine protocols.	N/A	N/A			
69						
70	End of Scope					
71	Bond/CDI Cost	$1,445	$604			
	TOTAL WORK CATEGORY PACKAGE VALUE	**$42,734**	**$47,212**			

Fibergrate Composite Structures Inc

5151 Beltline Rd, Suite 1212 ~ Dallas, TX 75254 USA ~ T: 800-527-4043 ~ F: 972-250-1530

Quote No.54326 Quote Type: Fab Per Approval (original)

Bid Type: Firm

Customer: McCarthy Building Companies, Inc
Address: 6225 N 24TH STREET
PHOENIX, AZ 85016

Date: April 26, 2021
Phone: 480-449-4700
Fax: (480) 449-4747

Opportunity: City of Chandler
Location: Chandler, AZ.

Fibergrate appreciates the opportunity to bid on your FRP requirement, and offers the following quotation for your consideration.

Fibergrate is an ISO-9001:2008 certified manufacturer and is one of the original pioneers in the FRP fabrication industry, having invented fiberglass molded grating in 1965. With more than 50 years of experience in FRP fabrications , Fibergrate has the experience and capabilities necessary to design, manufacture , and fabricate the materials for your project to ensure that the assembly at the jobsite will proceed smoothly.

Fibergrate continues its commitment as a leader in the FRP market. All of the FRP products and solutions offered in this quotation are heavy metal safe. If you have any questions about heavy metals in FRP products or how they can affect your business, our communities and our environment, please go to our website (www.fibergrate.com) or contact your local Fibergrate Representative.

All material take-offs were derived from request received via email on 4/26/21. No FRP specification section was available at the time of this quotation.

MATERIALS of CONSTRUCTION:

Vi-Corr® 2" deep 2" square mesh molded grating with meniscus surface, color dark gray.

Non-Domestic 316 Stainless Steel Hardware

SCOPE of WORK:

Fibergrate® will provide the following:

Line Item 1 (AWRF):

- (5) areas of 2" deep molded grating measuring approximately 3' x 10'.
- (50) grating hold down clip assemblies.

NOTE

- This line item is to ship to 905 E Queen Creek Rd. Chandler, AZ 85286.

Option 1 for Line Item 1 (AWRF):

- (1) area of 2" deep molded grating measuring approximately 3' x 10'.
- (10) grating hold down clip assemblies.

NOTE

- This option is to ship with line item 1 to 905 E Queen Creek Rd. Chandler, AZ 85286.

Line Item 2 (OWRF):

- (4) areas of 2" deep molded grating measuring approximately 3' x 10'.

- (40) grating hold down clip assemblies.

NOTE

- This line item is to ship to 3315 South Old Price Rd. Chandler, AZ 85248.

Option 1 for Line Item 2 (OWRF):

- (1) area of 2" deep molded grating measuring approximately 3' x 10'.
- (10) grating hold down clip assemblies.
- This option is to ship with line item 2 to 3315 South Old Price Rd. Chandler, AZ 85248.

NOTES:

Fibergrate reserves the right to a final review of it's quotation prior to accepting a purchase order.

This quotation allows for three (3) sets of Approval & Erection drawings, additional drawings are available at an additional cost of $5.00 per sheet.

Fibergrate's standard fabrication and manufacturing tolerances will apply as follows:

1.) Cut grating = + 1/8" / - 5/16".
2.) Cut grating may have open or unequal stub bars.
3.) No specifications for design or products were provided with request for quote.
4.) Design criteria and products used in this quotation are per Fibergrate design standards.
5.) No design calculations are included with the quotation.
6.) Design calculations are available with projects requiring approval drawings at an additional charge.
7.) Fibergrate Composite Structures has a manufacturing facility in Stephenville, TX.
8.) Grating will be attached to the structure using provided hold down clip assemblies.
9.) This quotation is based upon customer providing AutoCad drawings to Fibergrate before approval drawings can be started.
10.) All grating notches and penetrations shown on the contract drawing are included in this quotation.
11.) All grating notches and penetrations not shown can be provided at additional cost.
12.) Visit www.fibergrate.com for Company history, literature, catalogs, specifications and product information.

EXCLUSIONS:(to be provided by others)

Anchor bolts (including concrete screws used in conjunction with grating hold down clips), installation, field measurements and any other items not specifically included in the above described "Scope of Work" are to be provided by others.

PRICING:

Fibergrate will provide prefabricated materials per this quotation for the amount of:

Line Item 1 (AWRF):	**$5,439.00**	(USD) (tax NOT included)
Option 1 for Line Item 1 (AWRF):	**$942.00**	(USD) (tax NOT included)
Line Item 2 (OWRF):	**$4,595.00**	(USD) (tax NOT included)
Option 1 for Line Item 2 (OWRF):	**$942.00**	(USD) (tax NOT included)

Freight Included in Total Quoted Price for delivery to zip code Chandler.

Freight Included based on One Complete Shipment.

Multiple shipments will result in additional charges to be determined at time of request. Executed change orders will be required prior to release of materials for shipment.

TERMS OF DELIVERY:

Terms of Delivery: FOB Point of Origin

SUBMITTAL REVISIONS: Submittal revisions due to customer requested changes will be billed at a rate of $60/HR for any additional drafting and/or engineering.

QUOTE VALIDITY: This quotation is firm for acceptance within thirty (30) days from the Bid Date.

SHIPMENT: Prices are firm for shipment within six (6) months of date of receipt of order. After six (6) months, prices may escalate per the Producer Price Index (PPI) for Finished Goods as reported at www.bls.gov/ppi. Price will be adjusted at quarterly intervals per the PPI until material shipment. Executed change orders will be required prior to release of materials for shipment.

ESTIMATED DELIVERY:

(Lead times to be determined upon receipt of a purchase order.)

Fibergrate Territory Manager:	Scott Elderworth E-Mail: selderworth@fibergrate.com Tel: 623-256-3614
Fibergrate Field Sales Manager:	West USA House, Brad Gornik E-Mail: bgornik@fibergrate.com Tel: 214-498-5530
This quotation was prepared by:	RDM

Terms of Payment: net 30

Fibergrate Composite Structures terms and conditions govern this quote. [x] See attached.

Chandler WRF Improvements Project
GMP 2 Work Category Solicited Subcontractors Summary
Work Category: **07B Sealants/Thermal Protection**

Subcontractor/Supplier Name	***Status***
RTI Sealants	*Recommended*
Innovative Contractor	*Proposed*
Rite Way Thermal	*Declined*
Den-Mark Specialty	*Declined*
Firestop Southwest	*Declined*
Arizona Stucco Systems	*Declined*
Canyon Plastering & Drywall	*Declined*
Diversified Interiors	*Declined*
M & J Caulking and Waterproofing	*Declined*
Mirage Plastering Inc.	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **07B - Sealants/Thermal Protection**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	RTI Sealants	Innovative Contractor	Rite Way Thermal	Den-Mark Specialty	Firestop Southwest
		Jorge Luquin	Clinton Trauter	Michael Sandvig	Travis Rice	Doug Tyser
		757-977-8088	602-888-0470	480-686-8432	602-431-1350	402-676-1254
		george@rtisealants.com	estimating@icontractorsolutions.com	msandvig@rwtusa.com	travis@denmarkconst.com	dougt@firestopsouthwest.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$11,024**	**$16,014**	**No Bid**	**No Bid**	**No Bid**
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	Yes	Yes			
2	Bid Submitted on McCarthy Bid Form	Yes	Yes			
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	Waiting	No			
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing.	N/A	N/A			
5	Surety Company	Atlantic Specialty Insurance Co.	Travelers			
6	Surety AM Best Rating (Must be A- or Better)	A+	N/A			
7	AM Best Financial Size X($500M to $750M) or higher	Yes	N/A			
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	N/A	N/A			
9	Bond/CDI Cost	2.000%	1.500%			
10	Included Insurance Requirements (Per Matrix)	Yes	No			
11	GL Insurance Company Name	Burlington Insurance Company	EMC			
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	Yes	No			
13	PRL Insurance (If required by the Front Ends)	N/A	N/A			
14	Pollution Insurance (If required by the Front Ends)	Yes	No			
15	Tier 1 Approved	Yes	Draft			
16	Tier 2 Approved	N/A	N/A			
17	Safety Items:	Yes	No			
18	OSHA Recordable Incident Rate (Current)	2.37	No			
19	Agrees to comply with PPE requirements including 100% glove policy	Yes	No			
20	Acknowledges updated ladder policy (platform ladders)	Yes	No			
21	Task Hazard Analysis included for all tasks	Yes	No			
22	Tie-off above 6' required	Yes	No			
23	Includes Hoisting for Sub's Own Work Scope	N/A	N/A			
24	Acknowledges Soils Report	N/A	N/A			
25	Acknowledges Addenda	Yes	Yes			
26	Hold Bid for 150 Days	120 days	30 days			
27	Pricing good for the duration of the project	Yes	No			
28	Sales Tax Included	$199	No			
29	**COVID-19 Market Questions**					
30	How has your work program been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No				
31	Have you had any future work opportunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No				
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No				
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No				
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No				
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No				
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	Unknown				

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **07B - Sealants/Thermal Protection**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	RTI Sealants	Innovative Contractor	Rite Way Thermal	Den-Mark Specialty	Firestop Southwest
		Jorge Luquin	Clinton Trauter	Michael Sandvig	Travis Rice	Doug Tyser
		757-977-8088	602-888-0470	480-686-8432	602-431-1350	402-676-1254
		george@rtisealants.com	estimating@icontractorsolutions.com	msandvig@rwtusa.com	travis@denmarkconst.com	dougt@firestopsouthwest.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$11,024**	**$16,014**	**No Bid**	**No Bid**	**No Bid**
37	Do you have any overseas suppliers that may be impeding your supply chain?	No				
38						
39	Per Plans & Specifications	Yes				
40	Division 1 as it relates to this scope of work	Yes				
41	07840 – Firestopping	Yes				
42	07900 – Joint Sealers	Yes				
	Scope of Work					
	Base Bid:	$3,549	$21,040	$0		
43	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 07B - Sealants/Thermal Protection, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	No			
44	Check to Spec completed and submitted to McCarthy	N/A	N/A			
45	1 year warranty from Final Acceptance (Aug 2023)	Yes	No			
46	All control joints and expansion joints	$97	No			
47	All concrete-to-concrete joints	$377	Yes			
48	Firestopping	$945	No			
49	All penetrations resolving the AWRF Maintenance Building, and OWRF RAS/WAS pump station from being watertight	Yes	No			
50	Around doors and other openings	$553	Yes			
51	Building openings	Yes	Yes			
52	Five-year warranty from Substantial Completion	Manufacturers	No			
53	Materials as required for firestopping assemblies	Yes	Yes			
54	Shipping shall be FOB jobsite (AWRF & OWRF)	Yes	No			
55	AWRF & OWRF Mobilizations	$1,000	Yes			
56	Unloading & storage	N/A	N/A			
57	Batt insulation (Covered by other WC)	N/A	-$6,058			
58	Sidewalk expansion joints (Covered by other WC)	N/A	-$2,468			
59	Safety Manager	$592	N/A			
60	Misc Sealants	$3,500	$3,500.00			
61	COVID-19 Scope Items					
62	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes				
63	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes				
64	All personnel onsite must maintain 6'0" spacing between personnel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes				
65	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes				
66	All tools and equipment used must be sanitized each day.	Yes				
67	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes				

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **07B - Sealants/Thermal Protection**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	RTI Sealants	Innovative Contractor	Rite Way Thermal	Den-Mark Specialty	Firestop Southwest
		Jorge Luquin	Clinton Trauter	Michael Sandvig	Travis Rice	Doug Tyser
		757-977-8088	602-888-0470	480-686-8432	602-431-1350	402-676-1254
		george@rtisealants.com	estimating@icontractorsolutions.com	msandvig@rwtusa.com	travis@denmarkconst.com	dougt@firestopsouthwest.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$11,024**	**$16,014**	**No Bid**	**No Bid**	**No Bid**
68	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	N/A				
69	Personnel are not allowed to carpool to the site or while onsite.	Yes				
70	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the appropriate testing and quarantine protocols.	Yes				
71						
72	End of Scope					
73	Bond/CDI Cost	$212	$0	$0	$0	$0
	TOTAL WORK CATEGORY PACKAGE VALUE	**$11,024**	**$16,014**	**$0**	**$0**	**$0**

RTI SEALANT SPECIALISTS, INC

1102 E Sage Brush Street
Gilbert, AZ 85286
Office (480) 635-1200
Fax (480) 635-9414
estimating@rtisealants.com

April 7, 2021
Pricing valid for 90 days

CONTACT	PROJECT
McCarthy Building Companies ATTN: Michael Jones	Chandler WRF Improvements - GWP 2
6225 North 24th Street, STE: 200	3315 South Old Price Road
Phoenix, AZ 85016	Chandler, AZ USA
480.392.9157	
mjones@mccarthy.com	jfk

RTI SEALANT SPECIALISTS INC SUBMITS THE FOLLOWING PROPOSAL:

Per □Addendum No. 1, 2, □ 3, □ Plans Dated: 03/2021□ and □Spec Info Dated: 03/2021□

Division 07 Base Bid			Product		Amount
078400	**Firestopping**				
AWRF Maintenance Bldg		TOW/BOW 1hr	Hilti CP 606		
			078400 Subtotal	**$**	**2,049.00**
079200	**Joint Sealant**				
AWRF Maintenance Bldg		Alum. Window Frames	Sika 2cNS Urethane		
AWRF Maintenance Bldg		Hollow Metal Door Frames	Sika 2cNS Urethane		
OWRF Sludge Holding Tank Blower Bldg		Alum. Louver Frames	Sika 2cNS Urethane		
OWRF Sludge Holding Tank Blower Bldg		CMU Wall Vertical CJ's	Sika 2cNS Urethane		
OWRF Sludge Holding Tank Blower Bldg		Hollow Metal Door Frames	Sika 2cNS Urethane		
			079200 Subtotal	**$**	**1,500.00**
			Base Bid Total	**$**	**3,549.00**

Excluded Items:
Material Prices are subject to 20% Increase on availability & Based on actual building construction schedule start date & as to project established completion date.
Inspections and Testing.
Responsibility for Vapor Transmission and ASR Failures.
Protection of Work.
Gaps larger than those depicted per Plans and Specifications.
MEP Penetrations not included.
Any item(s) not included in the Base Proposal. Deviations from above will be subject to a written change order.
Credit for Wrap Insurance. Bond not included. Retainer not to exceed 10%
Excessive delays resulting in more than 2 trips per scope/phase could be subject to an additional cost to this proposal. A change in the price of labor, material, or equipment of more than 5% between the date of this proposal and the date of installation shall warrant an equitable adjustment in the subcontractor price.
Any textura or billing app fees are not included and could be subject to an additional cost to this proposal.
Any additional endorsements above and beyond the provided insurance could be subject to an additional cost to this proposal.

RTI SEALANT SPECIALISTS, INC

1102 E Sage Brush Street
Gilbert, AZ 85286
Office (480) 635-1200
Fax (480) 635-9414
estimating@rtisealants.com

April 7, 2021
Pricing valid for 90 days

CONTACT	PROJECT
McCarthy Building Companies ATTN: Michael Jones	Chandler WRF Improvements - GWP 2
6225 North 24th Street, STE: 200	3315 South Old Price Road
Phoenix, AZ 85016	Chandler, AZ USA
480.392.9157	
mjones@mccarthy.com	jfk

All work to be performed off scaffolding provided by others. If scaffolding is not provided then rental equipment will need to be added to base bid. Rental amount to be added for this project is listed below:

Rental Equipment Subtotal **$** **725.00**

PAYMENT TERMS

1. As a deposit, 50□ of the value of the Total Contract Price is due upon project acceptance.
2. Progress payment Invoices will be submitted for the percentage of the contract completed.
3. Payment terms Due Upon Receipt.
4. Past due invoices will be subject to a 2□ per month finance charge.

Acceptance of Proposal / Contract: The terms, scope of work, specifications and conditions included herein are accepted and RTI Sealant Specialist Inc is authorized to do the work as specified. All payments will be made as outlined above.

RTI Sealant Specialist, Inc:

By:_____
Name:_____
Title: _____
Date:_____

Owner/Owner Agent:

By:_____
Name:_____
Title: _____
Date:_____

Chandler WRF Improvements Project

GMP 2 Work Category Solicited Subcontractors Summary

Work Category: **08A Metal Doors Frames & Hardware**

Subcontractor/Supplier Name	***Status***
Walters & Wolf	*Recommended*
Kelley Bros	*Proposed*
Industrial Corrosion Products	*Proposed*
DH Pace Company	*Declined*
D8 Commercial Doors	*Declined*
Ken Watson Corporation	*Declined*
LaForce, LLC	*Declined*
Noding Doors, Inc.	*Declined*
Amercian Direct	*Declined*
Isec Inc.	*Declined*
The Hallgren Co.	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **08A - Metal Doors, Frames, Hardware**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

COMPANY INFORMATION		**Walters & Wolf**	Kelley Bros	Ind. Corrosion Products	DH PACE	Ken Watson
		Jeff Aglialoro	Dawn Graves	Bob Hook	Jeff Woodring	Joe Johnson
		480-705-6810	602-254-5967	918-557-2042	480-483-1813	623-869-7900
		jaglialoro@waltersandwolf.com	dgraves@kelleybros.com	bobhook79@gmail.com	jeff.woodring@dhpace.com	jjohnson@kenwatsoncorp.com
TOTAL WORK CATEGORY PACKAGE VALUE		**$31,482**	**$32,892**	**$50,361**	**No Bid**	**No Bid**
MCCARTHY SUBCONTRACT & FRONT END TERMS						
1	Compliant with McCarthy Front Ends	Yes	Yes	No		
2	Bid Submitted on McCarthy Bid Form	Yes	Yes	No		
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	Yes	Yes	No		
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing.	2/10/2021	2/26/2021	N/A		
5	Surety Company	N/A	N/A	N/A		
6	Surety AM Best Rating (Must be A- or Better)	N/A	N/A	N/A		
7	AM Best Financial Size X($500M to $750M) or higher	N/A	N/A	N/A		
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	N/A	N/A	N/A		
9	Bond/CDI Cost	1.000%	1.200%	1.229%		
10	Included Insurance Requirements (Per Matrix)	Yes	Yes	No		
11	GL Insurance Company Name	Arch Insurance Company	Cincinnati Insurance Company	N/A		
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	A+	A+	N/A		
13	PRL Insurance (If required by the Front Ends)	N/A	N/A	N/A		
14	Pollution Insurance (If required by the Front Ends)	N/A	N/A	N/A		
15	Tier 1 Approved	Yes	Yes	No		
16	Tier 2 Approved	N/A	N/A	N/A		
17	Safety Items:	Yes	Yes	Yes		
18	OSHA Recordable Incident Rate (Current)	0.53	1.54	N/A		
19	Agrees to comply with PPE requirements including 100% glove policy	Yes	Yes	N/A		
20	Acknowledges updated ladder policy (platform ladders)	Yes	Yes	N/A		
21	Task Hazard Analysis included for all tasks	Yes	Yes	N/A		
22	Tie-off above 6' required	Yes	Yes	N/A		
23	Includes Hoisting for Sub's Own Work Scope	Yes	Yes	N/A		
24	Acknowledges Soils Report	N/A	N/A	N/A		
25	Acknowledges Addenda	Yes	Yes	N/A		
26	Hold Bid for 150 Days	Yes	Yes	Yes		
27	Pricing good for the duration of the project	N/A	N/A	N/A		
28	Sales Tax Included	No	No	No		
	COVID-19 Market Questions					
29	How has your workprogram been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No	No	No		
30	Have you had any future work oppurtunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No	No	No		
31	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No	No		
32	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No	No	No		
33	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No	No		
34	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No	No	No		
35	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No	No	No		
36	Do you have any overseas suppliers that may be impeding your supply chain?	No	No	No		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **08A - Metal Doors, Frames, Hardware**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Walters & Wolf	Kelley Bros	Ind. Corrosion Products	DH PACE	Ken Watson
		Jeff Aglialoro	Dawn Graves	Bob Hook	Jeff Woodring	Joe Johnson
		480-705-6810	602-254-5967	918-557-2042	480-483-1813	623-869-7900
		jaglialoro@waltersandwolf.com	dgraves@kelleybros.com	bobhook79@gmail.com	jeff.woodring@dhpace.com	jjohnson@kenwatsoncorp.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$31,482**	**$32,892**	**$50,361**	**No Bid**	**No Bid**
37	Per Plans & Specifications	Yes	Yes	Yes		
38	Division 1 as it relates to this scope of work	Yes	Yes	Yes		
39	08110 - Steel Doors and Frames	Yes	Yes	Yes		
40	08120 - Aluminum Doors and Frames	Yes	Yes	Yes		
41	08211 - Flush Wood Doors	Yes	Yes	Yes		
42	08710 - Door Hardware	Yes	Yes	Yes		
43	09900 - Painting	Yes	Yes	Yes		
	Scope of Work					
	Base Bid:	$28,370	$29,702	$49,750		
44	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 08A - Metal Doors, Frames, Hardware, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	Yes	Furnish ONLY		
45	Check to Spec completed and submitted to McCarthy	Yes	Yes	No		
46	1 year warranty from Final Acceptance (Aug 2023)	Yes	Yes	Yes		
47	**Airport WRF Site - Maintenance Building**					
48	All Interior Mandoors per drawing A-1.82 and door scehdule on A-1.88	Yes	Yes	Yes		
49	All Exterior Mandoors per drawing A1.82 and door schedule on A-1.88	Yes	Yes	Yes		
49	Furnish of Door Frames per bid documents	Yes	Yes	Yes		
50	Furnish W06 HM Window Frame	In WC 08B	In WC 08B	No		
51	Installation of Door Frames for Interior Walls	By WC 09A	By WC 09A	No		
52	Installation of Door Frames for Exterior Walls	By WC 13B	By WC 13B	No		
53	Furnish and Install Glazing in Doors	By WC 08B	By WC 08B	No		
54	Include caulking for doors	Yes	Yes	No		
55	Grout Door Frames (Qty: 14)	$2,800	$2,800	No		
56	Include weather stripping as required	Yes	Yes	No		
57	Temporary Keys for construction	Yes	Yes	Yes		
58	Final Keys	Yes	Yes	Yes		
59	Door Finish: Factory primed, field finished by Work Category 09E - Paintings and Coatings	Yes	Yes	Yes		
60	Final Cleaning as required	Yes	Yes	No		
61	Protect products from damage until substantial completion	Yes	Yes	No		
62	Shipping shall be FOB jobsite	Yes	Yes	Yes		
63	Unloading & storage	Yes	Yes	No		
64	Temporary protection & enclosure	Yes	Yes	No		
65	Preventative maintenance	Yes	Yes	No		
66	Spare Parts per the Specifications	Yes	Yes	Yes		
67	Additional Warranty - 2 years per specification section 08211	Yes	Yes	Yes		
	COVID-19 Scope Items					
68	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes	Yes	Yes		
69	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes	Yes	N/A		
70	All personnel onsite must maintain 6'0" spacing between personel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes	Yes	N/A		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **08A - Metal Doors, Frames, Hardware**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	**Walters & Wolf**	Kelley Bros	Ind. Corrosion Products	DH PACE	Ken Watson
		Jeff Aglialoro	Dawn Graves	Bob Hook	Jeff Woodring	Joe Johnson
		480-705-6810	602-254-5967	918-557-2042	480-483-1813	623-869-7900
		jaglialoro@waltersandwolf.com	dgraves@kelleybros.com	bobhook79@gmail.com	jeff.woodring@dhpace.com	jjohnson@kenwatsoncorp.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$31,482**	**$32,892**	**$50,361**	**No Bid**	**No Bid**
71	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes	Yes	N/A		
72	All tools and equipment used must be sanitzed each day.	Yes	Yes	N/A		
73	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes	Yes	N/A		
74	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes	Yes	N/A		
75	Personnel are not allowed to carpool to the site or while onsite.	Yes	Yes	N/A		
76	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the apropriate testing and quarantine protocols.	Yes	Yes	N/A		
77	End of Scope					
78	Bond/CDI Cost	$312	$390	$611		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$31,482**	**$32,892**	**$50,361**		

08-19-2014 Rev.
Front Ends

BID PROPOSAL

Date 4-13-21

Bid Proposal of * WALTERS & WOLF (hereinafter called "Bidder")

a ** CORPORATION organized and existing under the laws of the State of ARIZONA.

* Insert name of firm.
** Insert corporation, partnership, or individual, as applicable.

(INSERT OWNER'S ADDRESS)
TO: McCarthy Building Companies, Inc.
6225 North 24th Street, Suite 200
Phoenix, Arizona 85016

The Bidder, in compliance with your Invitation for Bids for the construction of Chandler Water Reclamation Facility Improvements having examined the Contract Documents entitled City of Chandler, Chandler WRF Improvements Project, and other related documents and being familiar with the site of the proposed work, and with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, and the progress of work to date, if any, hereby proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, perform all work, provide all services, and to construct all work in accordance with the Contract Documents set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required.

The Bidder shall attach a copy of Bidders' detailed estimate to its Bid Proposal. This estimate shall identify all quantities shown in the documents or anticipated along with corresponding labor, material and equipment pricing.

After Bid Proposals are received, tabulated, and evaluated by McCarthy, said Bidder agrees to meet with McCarthy for the purpose of determining any duplications, omissions, or mutually agreed bid adjustments. For these meetings, the Bidder agrees to provide a complete, detailed cost breakdown; a list of all sub-subcontractors proposed for use in the work; and a list of all items, materials and their manufacturers proposed for use in the work.

The Bidder, if awarded a Subcontract, agrees to commence work and to fully complete its Work in accordance with a schedule to be established in collaboration with McCarthy under the provisions of the Additional Subcontractor Conditions of the Specifications.

The Bidder acknowledges receipt of the following Addenda: _____

_____.

BASE BID:

The Bidder agrees to perform all _____ (herein insert the title of the Work Category as it appears in the Additional Subcontractor Conditions) Work for Work Category No. _____, as described in the Contract Documents, for the Lump Sum of _____ _____ DOLLARS ($ 47,458.00).

BID BREAKDOWN:

Airport WRF Total Amount $_____

- Aeration Basin $_____.
- Blower Piping $_____.
- Blower Ductbank $_____.
- Filters $_____.
- Maintenance Bldg $ 28,370.00
- ADD/ALT #3 19,088.00

Ocotillo WRF Total Amount $ 47,458.00

- Aeration/Anoxic $_____.
- RAS/WAS PS $_____.
- Clarifiers 1& 2 $_____.
- Filters $_____..
- MCC Replacement $_____..
- Reservoir $_____..
- Roads/Sitework $_____..

Performance & Payment Bond Cost *(If Applicable)* $ N/A

Total Subcontract Amount $ 47,458.00

The name of the proposed Bonding Company is ANDREINI AND COMPANY

Bond rate 1 %

All applicable taxes, except sales and use taxes on materials and equipment which are affixed and made a part of the real estate of the Project, are included in the above Base Bid. Bidder agrees that this Bid Proposal shall be good and may not be withdrawn unless McCarthy does not send Bidder a Subcontract within one hundred ~~twenty (160) calendar days~~ fifty (150) calendar days after the opening date of Bid Proposals.

(Amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

ALTERNATES:

The Bidder further agrees that if any or all of the Alternates listed and described below are incorporated and accepted within sixty (60) calendar days after receipt of a Subcontract from McCarthy, the Bidder will adjust its Subcontract by the amount indicated opposite the Alternates listed below.

ALTERNATE NO. 1: Filter Disc in Basin 7 Installation:

ADD the sum of $_____.

ALTERNATE NO. 2: Clarifier 3 Rehabilitation

ADD the sum of $_____.

ALTERNATE NO. 3: Sludge Holding Tank and Blower Bldg No. 2

ADD the sum of $_____.

ALTERNATE NO. 4: Removal/Replacement of Diffusers in 2 Aeration Basins

ADD the sum of $_____.

ALTERNATE NO. 5:_____

ADD the sum of $_____.

CHANGE ORDER RATES: (Add separate sheet as needed)

Markup % (on rates and material): 15%.

Position: _____ Rate: _____.

Position: _____ Rate: _____.

Equipment: _____ Rate: _____.

Equipment: _____ Rate: _____.

SAFETY RECORDS

The Bidder certifies to the following Experience Modification Rates (EMR) and Incidence Rates for the three (3) most recent years:

	Year 2018	Year 2019	Year 2020
1. Compensation Experience Modification Rate:	.88	.84	.81
2. Incidence Rate:			
(a) Number of hours employees worked in the year.	390,398	486,252	282,870
(b) Number of cases defined as recordable, from the OSHA Form 300 Log.	0	4	0
(c) Total Recordable Incidence Rate = (b) x (200,000 hours) / Hours Worked (a)	.51	1.65	.53

The Bidder understands that McCarthy reserves the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

SELECT AS APPROPRIATE

☒ The Bidder has completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program; OR

☐ The Bidder has not completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program because the Bidder has provided the Form and all such information to McCarthy in the past 12 months for the following project:

_____ Project, which bid on: _____.

RESPONSIVE BID REQUIREMENTS:

DO NOT ENCLOSE YOUR STANDARD TERMS AND CONDITIONS

If any exceptions are taken to the requirements of this Proposal form, attach a separate sheet listing those exceptions, stating the sections and paragraphs and the specific exception.	JA (initials)
In submitting this proposal, the Bidder certifies that this bid is valid for 150 calendar days.	JA (initials)
In submitting this Proposal as described herein, we agree to complete the work in accordance with the included Preliminary Construction Sequence.	JA (initials)
In submitting this Proposal, the Bidder certifies that all cost for extended warranties to start on the date of Substantial Completion is included.	JA (initials)
In submitting this proposal as described herein, we confirm that we have received, reviewed and agree to all commercial terms stated in the McCarthy Subcontract and Purchase Order Agreement. Any exception taken to the commercial terms stated in these Agreements must be listed on a separate sheet noting the article or paragraph and the specific exception. ***Bidders attached Standard Terms and Conditions will not be acknowledged or accepted as part of any given bid.***	JA (initials)
In submitting this proposal as described herein, the Bidder certifies that this bid is coordinated based on a complete set of documents and that there will be no claims for change order based on the assertion that the Bidder did not have a complete set of Bidding Documents.	JA (initials)
In submitting this proposal, the Bidder certifies that they have included all spare parts, training, O & M Manuals, shop drawings and administration costs as associated to comply with the requirements of the specifications and as listed for their scope of work.	JA (initials)
A bid will be considered non-responsive if the Subcontractor Pre-Qualification Form is not completed as part of the Bid Form **(or on file at McCarthy office)**.	JA (initials)
The Bidder, by submitting their bid, represents that they have read and understand the scope requirements of the Bidding Documents.	JA (initials)
The Bidder certifies that any proposed materials in this scope of work meet or exceeds the requirements stated in the specifications unless noted otherwise within this proposal.	JA (initials)
The bidder certifies that the price listed in this bid is a firm Price through the final delivery of the materials proposed herein, and that no material escalation will be accepted as part of this proposal.	JA (initials)

Within fifteen (10) days after receipt by the Bidder from McCarthy of the Subcontract or Purchase Order, the Bidder will execute and return to McCarthy said Subcontract or Purchase Order and if notified from McCarthy that Bidder is not to be enrolled in McCarthy's Contractor Default Insurance Program, deliver to McCarthy Performance and Labor and Material Payment Bonds for the Subcontract or a Supply Contract Bond for the Purchase Order, or the difference between the amount of the bid and such larger amount for which McCarthy may subcontract with another party to perform the work covered by said bid, together with all court costs, all attorney fees and all other expense of recovery, all of which shall not exceed the Bid Security attached in the amount of 15% of the bid, will become the property of McCarthy. The bonds shall name McCarthy as Obligee.

If an Individual:

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Partnership:

Authorized Signature: _____

Name (print): _____

Email: _____

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Corporation:

Authorized Signature: 

Name (print): JEFF AGLIACORO

Email: JAGLIACORO@WALTERSANDWOLF.COM

Title: SALES

Business Address: 889 N. COLORADO ST.

GILBERT, AZ 85233

Telephone 480 705-6810

Contractor License Number: ROC 212169

General Liability Insurance Carrier (not the agent): ARCH INS.

*Please attach a sample certificate of insurance and current W9 form to your bid.

Walters & Wolf
Construction Specialties

April 21, 2021

Proposal #1804 R1

Craig Nagel
McCarthy Building Companies
6225 N 24th St.
Suite 200
Phoenix, AZ 852016

via email – 1 page total
cnagel@mccarthy.com

Re: Chandler WRF Improvements – GMP 02 Chandler, AZ

We are pleased to submit the following proposal for doors, frames, and hardware on the aforementioned project. This proposal is based on plans dated 3/2021 by Wilson Engineers.

SCOPE: Furnish and install doors, frames, and hardware. (Excludes grouting and installation of HM welded frames).

METAL FRAMES: BASE BID Total (14) Hollow Metal Welded Frames 30x68
**Alt #3 Total (4) Hollow Metal Welded Frames 3 singles, 1 pr. with transom*

METAL DOORS: BASE BID Total (8) Hollow Metal Doors 6 @ 30x68 NVL, 2 @ 30x68 Flush
** Alt #3 Total (6) Hollow Metal Doors 2 Singles with louvers, 1 pr. with Louvers, 1 pr. with removable transom panel, 1 single NVL*

WOOD DOORS: BASE BID Total (6) Marshfield, PL Slice White Maple Stain and Clear Coat

FINISH HARDWARE: BASE BID 4 ea. HDWE Group A, 2 ea. HDWE Groups C, D, E, F & G.
**Alt #3 1 ea. HDWE Groups A & C, 2 ea. HDWE Group B*

TOTAL PRICE, MAINTENANCE BLDG FURNISHED AND INSTALLED - $28,370.00

ADD/W06: Furnish 10'x3' HMF BL , Furnish and Install 10'x3' IG clear temp glass + $$1,416.00

****ADD/ALT #3: Blower Building see above for material descriptions + $19,088.00***

Qualifications:
Excludes bond if required
Work to be completed during normal business hours
Excludes line and low voltage wiring
Excludes Aluminum Exterior Windows
Hollow Metal Welded Frames FOB jobsite

Thank you for the opportunity to bid on this project, we look forward to working with you.

Jeff Aglialoro

Chandler WRF Improvements Project

GMP 2 Work Category Solicited Subcontractors Summary

Work Category: **08B Glass & Glazing**

Subcontractor/Supplier Name	***Status***
SGSI Glass & Glazing	*Recommended*
Carlson Glass Inc.	*Proposed*
Giroux Glass Inc.	*Proposed*
Azteca Glass Inc.	*Declined*
Aluglas	*Declined*
Desert Breeze Glass LLC	*Declined*
Coyote Glass LLC	*Declined*
Walters & Wolf	*Declined*
Milam Glass Co.	*Declined*
Suntech Glass Inc.	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **08B - Glass & Glazing**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

COMPANY INFORMATION		SGSI Glass & Glazing	Carlson Glass	Giroux Glass & Glazing	Azteca Glass Inc	Desert Breeze Glass LLC
		Tim Meadors	Zach Pletcher	Duane Stanley	Billy Skaggs	Cathryn Curcio
		623-847-4900	602-292-5616	702-375-7905	602-252-7597	480-752-8191
		tim.meadors@sgsiglass.com	zach@carlsonglass.com	dstanley@girouxglass.com	billy@aztecaglass.com	support@desertbreezeglass.com
TOTAL WORK CATEGORY PACKAGE VALUE		**$12,103**	**$20,713**	**$22,926**	**No Bid**	**No Bid**
MCCARTHY SUBCONTRACT & FRONT END TERMS						
1	Compliant with McCarthy Front Ends	Yes	Yes	Yes		
2	Bid Submitted on McCarthy Bid Form	Yes	Yes	Yes		
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	Yes	Yes	Yes		
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing.	2/17/2021	1/21/2021	1/11/2021		
5	Surety Company	N/A	N/A	N/A		
6	Surety AM Best Rating (Must be A- or Better)	N/A	N/A	N/A		
7	AM Best Financial Size X($500M to $750M) or higher	N/A	N/A	N/A		
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	N/A	N/A	N/A		
9	Bond/CDI Cost -	2.900%	1.750%	2.000%		
10	Included Insurance Requirements (Per Matrix)	Yes	Yes	Yes		
11	GL Insurance Company Name	Westfield Insurance Co.	Employers Mutual Casualty Company	Executive Risk Indemnity Inc		
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	A	A+	A++		
13	PRL Insurance (If required by the Front Ends)	N/A	N/A	N/A		
14	Pollution Insurance (If required by the Front Ends)	Yes	Yes	Yes		
15	Tier 1 Approved	Yes	Yes	Yes		
16	Tier 2 Approved	N/A	N/A	N/A		
17	Safety Items:					
18	OSHA Recordable Incident Rate (Current)	6.12	0.66	0.75		
19	Agrees to comply with PPE requirements including 100% glove policy	Yes	Yes	Yes		
20	Acknowledges updated ladder policy (platform ladders)	Yes	Yes	Yes		
21	Task Hazard Analysis included for all tasks	Yes	Yes	Yes		
22	Tie-off above 6' required	Yes	Yes	Yes		
23	Includes Hoisting for Sub's Own Work Scope	Yes	Yes	Yes		
24	Acknowledges Addenda	Yes	Yes	Yes		
25	Hold Bid for 150 Days	Yes	Yes	Yes		
26	Pricing good for the duration of the project	N/A	N/A	N/A		
27	Sales Tax Included	No	No	No		
28	**COVID-19 Market Questions**					
29	How has your workprogram been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No	No	No		
30	Have you had any future work oppurtunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No	No	No		
31	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No	No		
32	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No	No	No		
33	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No	No		
34	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No	No	No		
35	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No	No	No		
36	Do you have any overseas suppliers that may be impeding your supply chain?	No	No	No		
37						

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **08B - Glass & Glazing**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	SGSI Glass & Glazing	Carlson Glass	Giroux Glass & Glazing	Azteca Glass Inc	Desert Breeze Glass LLC
		Tim Meadors	Zach Pletcher	Duane Stanley	Billy Skaggs	Cathryn Curcio
		623-847-4900	602-292-5616	702-375-7905	602-252-7597	480-752-8191
		tim.meadors@sgsiglass.com	zach@carlsonglass.com	dstanley@girouxglass.com	billy@aztecaglass.com	support@desertbreezeglass.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$12,103**	**$20,713**	**$22,926**	**No Bid**	**No Bid**
38	Per Plans & Specifications	Yes	Yes	Yes		
39	Division 1 as it relates to this scope of work	Yes	Yes	Yes		
40	08800 Glazing	Yes	Yes	Yes		
41	08120 Aluminum Doors & Frames	Yes	Yes	Yes		
42	08511 Aluminum Windows	Yes	Yes	Yes		
Scope of Work						
Base Bid:		$9,647	$17,957	$20,660		
43	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 08B - Glass & Glazing, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	Yes	Yes		
44	Check to Spec completed and submitted to McCarthy	Yes	Yes	Yes		
45	1 year warranty from Final Acceptance (Aug 2023)	Yes	Yes	Yes		
46	**Airport WRF Site - Maintenance Building**					
46	Furnish & Install - Windows W01, W02, W03, W04, W05 as shown on drawings A1.82 and Window Schedule A-1.88	Yes	Yes	Yes		
47	Furnish & Install - Window W06 as shown on drawings A1.82 and Window Schedule A-1.88	$1,416	Yes	$1,416		
48	Include with all Windows furnished Framing and Hardware	Yes	Yes	Yes		
48	Glazing per Door Schedule on A-1.88 for Doors D02, D03, D04, D05, D08 and D11 per schedule	Yes	Yes	Yes		
49	Coordination with Work Category 13B for Exterior Windows and structural framed openings	Yes	Yes	Yes		
55	Coordination with Work Category 09A for Interior Windows and structural framed openings	Yes	Yes	Yes		
56	Coordination with Work Category 08A for all Glazing	Yes	Yes	Yes		
57	Shipping shall be FOB jobsite	Yes	Yes	Yes		
58	Unloading & storage	Yes	Yes	Yes		
59	Temporary protection & enclosure	$400	$400	$400		
60	Additional Warranty per Spec - 5 Year warranty per section 1.5C in section 08511	$299	$2,000	Yes		
61	COVID-19 Scope Items					
62	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	TBD	Yes	Yes		
63	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	TBD	Yes	Yes		
64	All personnel onsite must maintain 6'0" spacing between personel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	TBD	Yes	Yes		
65	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	TBD	Yes	Yes		
66	All tools and equipment used must be sanitzed each day.	TBD	Yes	Yes		
67	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	TBD	Yes	Yes		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **08B - Glass & Glazing**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	SGSI Glass & Glazing	Carlson Glass	Giroux Glass & Glazing	Azteca Glass Inc	Desert Breeze Glass LLC
		Tim Meadors	Zach Pletcher	Duane Stanley	Billy Skaggs	Cathryn Curcio
		623-847-4900	602-292-5616	702-375-7905	602-252-7597	480-752-8191
		tim.meadors@sgsiglass.com	zach@carlsonglass.com	dstanley@girouxglass.com	billy@aztecaglass.com	support@desertbreezeglass.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$12,103**	**$20,713**	**$22,926**	**No Bid**	**No Bid**
68	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	TBD	N/A	N/A		
69	Personnel are not allowed to carpool to the site or while onsite.	TBD	Yes	Yes		
70	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the apropriate testing and quarantine protocols.	TBD	Yes	Yes		
71						
72	End of Scope					
73	Bond/CDI Cost	$341	$356	$450		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$12,103**	**$20,713**	**$22,926**		

BID PROPOSAL

Date A-14-21

Bid Proposal of * SGSI Glass (hereinafter called "Bidder")

a ** Corporation organized and existing under the laws of the State of

_____.

(INSERT OWNER'S ADDRESS)
TO: McCarthy Building Companies, Inc.
6225 North 24th Street, Suite 200
Phoenix, Arizona 85016

The Bidder, in compliance with your Invitation for Bids for the construction of Chandler Water Reclamation Facility Improvements having examined the Contract Documents entitled City of Chandler, Chandler WRF Improvements Project, and other related documents and being familiar with the site of the proposed work, and with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, and the progress of work to date, if any, hereby proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, perform all work, provide all services, and to construct all work in accordance with the Contract Documents set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required.

The Bidder shall attach a copy of Bidders' detailed estimate to its Bid Proposal. This estimate shall identify all quantities shown in the documents or anticipated along with corresponding labor, material and equipment pricing.

After Bid Proposals are received, tabulated, and evaluated by McCarthy, said Bidder agrees to meet with McCarthy for the purpose of determining any duplications, omissions, or mutually agreed bid adjustments. For these meetings, the Bidder agrees to provide a complete, detailed cost breakdown; a list of all sub-subcontractors proposed for use in the work; and a list of all items, materials and their manufacturers proposed for use in the work.

The Bidder, if awarded a Subcontract, agrees to commence work and to fully complete its Work in accordance with a schedule to be established in collaboration with McCarthy under the provisions of the Additional Subcontractor Conditions of the Specifications.

The Bidder acknowledges receipt of the following Addenda: 03/2021 Drawings

_____.

BASE BID:

The Bidder agrees to perform all Section 8 Glass & Glazing (herein insert the title of the Work Category as it appears in the Additional Subcontractor Conditions) Work for Work Category No. 8, as described in the Contract Documents, for the Lump Sum of Nine thousand six hundred forty seven & 00/100 DOLLARS ($ 9,647.00).

BID BREAKDOWN:

Airport WRF Total Amount $_____

- Aeration Basin $_____.
- Blower Piping $_____.
- Blower Ductbank $_____.
- Filters $_____.
- Maintenance Bldg $ 9,647.00.

Ocotillo WRF Total Amount $ 9647.00

- Aeration/Anoxic $_____.
- RAS/WAS PS $_____.
- Clarifiers 1& 2 $_____.
- Filters $_____..
- MCC Replacement $_____..
- Reservoir $_____..
- Roads/Sitework $_____..

Performance & Payment Bond Cost *(If Applicable)* $ 272.00

Total Subcontract Amount $_____

The name of the proposed Bonding Company is Merchants Bonding

Bond rate 2.9 %

All applicable taxes, except sales and use taxes on materials and equipment which are affixed and made a part of the real estate of the Project, are included in the above Base Bid. Bidder agrees that this Bid Proposal shall be good and may not be withdrawn unless McCarthy does not send Bidder a Subcontract within one hundred ~~twenty (160) calendar days~~ fifty (150) calendar days after the opening date of Bid Proposals.

(Amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

ALTERNATES:

The Bidder further agrees that if any or all of the Alternates listed and described below are incorporated and accepted within sixty (60) calendar days after receipt of a Subcontract from McCarthy, the Bidder will adjust its Subcontract by the amount indicated opposite the Alternates listed below.

SELECT AS APPROPRIATE

☑ The Bidder has completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program; OR

☐ The Bidder has not completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program because the Bidder has provided the Form and all such information to McCarthy in the past 12 months for the following project:

_____ Project, which bid on: _____.

RESPONSIVE BID REQUIREMENTS:

DO NOT ENCLOSE YOUR STANDARD TERMS AND CONDITIONS

If any exceptions are taken to the requirements of this Proposal form, attach a separate sheet listing those exceptions, stating the sections and paragraphs and the specific exception.	(initials)
In submitting this proposal, the Bidder certifies that this bid is valid for 150 calendar days.	(initials)
In submitting this Proposal as described herein, we agree to complete the work in accordance with the included Preliminary Construction Sequence.	(initials)
In submitting this Proposal, the Bidder certifies that all cost for extended warranties to start on the date of Substantial Completion is included.	(initials)
In submitting this proposal as described herein, we confirm that we have received, reviewed and agree to all commercial terms stated in the McCarthy Subcontract and Purchase Order Agreement. Any exception taken to the commercial terms stated in these Agreements must be listed on a separate sheet noting the article or paragraph and the specific exception. ***Bidders attached Standard Terms and Conditions will not be acknowledged or accepted as part of any given bid.***	(initials)
In submitting this proposal as described herein, the Bidder certifies that this bid is coordinated based on a complete set of documents and that there will be no claims for change order based on the assertion that the Bidder did not have a complete set of Bidding Documents.	(initials)
In submitting this proposal, the Bidder certifies that they have included all spare parts, training, O & M Manuals, shop drawings and administration costs as associated to comply with the requirements of the specifications and as listed for their scope of work.	(initials)
A bid will be considered non-responsive if the Subcontractor Pre-Qualification Form is not completed as part of the Bid Form **(or on file at McCarthy office)**.	(initials)
The Bidder, by submitting their bid, represents that they have read and understand the scope requirements of the Bidding Documents.	(initials)
The Bidder certifies that any proposed materials in this scope of work meet or exceeds the requirements stated in the specifications unless noted otherwise within this proposal.	(initials)
The bidder certifies that the price listed in this bid is a firm Price through the final delivery of the materials proposed herein, and that no material escalation will be accepted as part of this proposal.	(initials)

ALTERNATE NO. 1: Filter Disc in Basin 7 Installation:

ADD the sum of $_____.

ALTERNATE NO. 2: Clarifier 3 Rehabilitation

ADD the sum of $_____.

ALTERNATE NO. 3: Sludge Holding Tank and Blower Bldg No. 2

ADD the sum of $_____.

ALTERNATE NO. 4: Removal/Replacement of Diffusers in 2 Aeration Basins

ADD the sum of $_____.

ALTERNATE NO. 5:_____

ADD the sum of $_____.

CHANGE ORDER RATES: (Add separate sheet as needed)

Markup % (on rates and material): _____.

Position: General Superintendent Rate: 74.50 PH.

Position: Lead / Foreman Rate: 74.50 PH.

Equipment: Journeyman Glazer Rate: 68.42 PH.

Equipment: _____ Rate: _____.

SAFETY RECORDS

The Bidder certifies to the following Experience Modification Rates (EMR) and Incidence Rates for the three (3) most recent years:

	Year 2018	Year 2019	Year 2020
1. Compensation Experience Modification Rate:	1.12	.76	.77
2. Incidence Rate:			
(a) Number of hours employees worked in the year.	26,029	30,528	32,683
(b) Number of cases defined as recordable, from the OSHA Form 300 Log.	0	0	0
(c) Total Recordable Incidence Rate = (b) x (200,000 hours) / Hours Worked (a)	0	0	0

The Bidder understands that McCarthy reserves the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

Within fifteen (10) days after receipt by the Bidder from McCarthy of the Subcontract or Purchase Order, the Bidder will execute and return to McCarthy said Subcontract or Purchase Order and if notified from McCarthy that Bidder is not to be enrolled in McCarthy's Contractor Default Insurance Program, deliver to McCarthy Performance and Labor and Material Payment Bonds for the Subcontract or a Supply Contract Bond for the Purchase Order, or the difference between the amount of the bid and such larger amount for which McCarthy may subcontract with another party to perform the work covered by said bid, together with all court costs, all attorney fees and all other expense of recovery, all of which shall not exceed the Bid Security attached in the amount of 15% of the bid, will become the property of McCarthy. The bonds shall name McCarthy as Obligee.

If an Individual:

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Partnership:

Authorized Signature: _____

Name (print): _____

Email: _____

Authorized Signature: _____

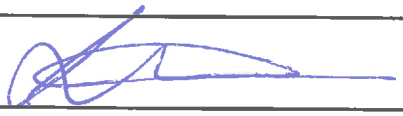
Name (print): _____

Email: _____

Business Address: _____

_____

If a Corporation:

Authorized Signature: 

Name (print): Tim Meadors

Email: tim.meadors@sgsiglass.com

Title: V.P. Operations

Business Address: 2350 W. Union Hills Ste. 145

Phx. Az. 85027

Telephone 623-847-4900

Contractor License Number: ROC 267581 L65 A2

General Liability Insurance Carrier (not the agent): Westfield Ins. Co.

*Please attach a sample certificate of insurance and current W9 form to your bid.

SGSI GLASS & GLAZING

2350 W. Union Hills Rd, Phoenix, AZ 85027 623.847.4900 X102 FAX 623.847.5001
Contractors license: AZ 267581 L-65 0075820 C8 NV

PROPOSAL

Date:	**4.29.21**
To:	McCarthy Building Companies
Attention:	
Address	6225 N. 24th St.
Phx, AZ	
Telephone:	480.449.4700
Direct	480.828.1202
Email:	

Project Name	Chandler WRF
Project Address:	Chandler
Proposal Number:	Revision 4.29.21
From:	Tim Meadors
E-mail	Tim.meadors@sgsiglass.com

PROPOSAL DESCRIPTION

Glass and glazing only in doors by others 1 type A transom, 4 type C and 6 type B.	
Supply and install 5 windows W-1 thru W-5 Clear anodized class 1 with Tinted low E glass. Includes perimeter sealant. Window will not meet the U-value .33	
Glass and glazing only in W-6 hollow metal frame by others.	
All exterior is qualified as □ □Clear, Bronze or Gray with Solarban 60 on # 2. □ □air space □ □clear	
All interior doors shall have □ □clear tempered.	
W-6 shall be glazed with □ □Clear. □ □air space □ □clear	$9,375.00
Add for 5-year warranty to windows.	$299.00
Alternate to supply and install 1 piece of □ □clear tempered at D03 Door at the Blower Building at the Ocotillo site for Alternate 3	$218.00
Bond 2.9□	$287.00
Specific Exclusions: PE stamp U.O.N, Water Testing U.O.N. Bond, Sunshades, Parking Garage Glass. Field measuring.Mirrors, Glass Handrails.Skylights. Mock Up	
Standard Exclusions: Bond, Glass Shelves, Desk Tops, Case Glass, Sales Tax, Attic Stock, Mirrors, Skylights, Fire Safing, Insulation, Handrails, Embeds, Gypsum Adaptors. Protection and Cleaning after Installation, Trash Containers to be provided by the General Contractor or Owner, Aluminum and Glass not listed in sections above, and Electrical Hardware. Sunshades. Automatic Doors and Operators and Mockups, U.O.N.	

(***THIS PROPOSAL MAY BE WITHDRAWN BY SGSI GLASS &GLAZING IF NOT ACCEPTED WITHIN (30) DAYS)***

Chandler WRF Improvements Project

GMP 2 Work Category Solicited Subcontractors Summary

Work Category: **08D Overhead Coiling Doors**

Subcontractor/Supplier Name	***Status***
Miner Corporation	*Recommended*
DH Pace Company Inc.	*Proposed*
Cookson Door Sales of Arizona	*Proposed*
Wayne-Dalton	*Proposed*
Nationserve Garage Door	*Declined*
Quality Overhead Door	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **08D - Overhead Coiling Doors**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Miner Corp	Cookson	D.H. Pace	Wayne Dalton	
		Keven Cross	Mark Montgomery	Darrin Mitchell	Larry Bagan	
		602-426-1200	480-589-6784	602-721-8461	520-279-4553	
		kcross@minercorp.com	mark.montgomery@cooksonaz.com	Darrin.Mitchell@dhpace.com	lbagan@wayne-dalton.com	
	TOTAL WORK CATEGORY PACKAGE VALUE	**$32,721**	**$44,547**	**$48,125**	**Incomplete Bid**	
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	Yes	Yes	No	No	
2	Bid Submitted on McCarthy Bid Form	Yes	Yes	No	No	
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	No	No	Yes	No	
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing.	4/5/2021	4/15/2021	1/8/2021	No	
5	Surety Company	Liberty Mutual	Travelers	Cinncinati Insurance Co	No	
6	Surety AM Best Rating (Must be A- or Better)	A XV	A++	A+	No	
7	AM Best Financial Size X($500M to $750M) or higher	N/A	N/A	N/A	N/A	
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	N/A	N/A	N/A	N/A	
9	Bond/CDI Cost	2.500%	2.500%	1.295%	1.295%	
10	Included Insurance Requirements (Per Matrix)	Yes	Yes	Yes	No	
11	GL Insurance Company Name	Travelers Prop Cas Co of Amer	Travelers	Zurich American Insurance	No	
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	A++	A++	A+	No	
13	PRL Insurance (If required by the Front Ends)	N/A	N/A	N/A	N/A	
14	Pollution Insurance (If required by the Front Ends)	N/A	N/A	N/A	N/A	
15	Tier 1 Approved	Yes	Yes	Yes	No	
16	Tier 2 Approved	N/A	N/A	N/A	N/A	
17	Safety Items:	Yes	Yes	Yes	Yes	
18	OSHA Recordable Incident Rate (Current)	0.95	1.13	2.95	No	
19	Agrees to comply with PPE requirements including 100% glove policy	Yes	Yes	Yes	No	
20	Acknowledges updated ladder policy (platform ladders)	Yes	Yes	Yes	No	
21	Task Hazard Analysis included for all tasks	Yes	Yes	Yes	No	
22	Tie-off above 6' required	Yes	Yes	Yes	No	
23	Includes Hoisting for Sub's Own Work Scope	Yes	Yes	Yes	No	
24	Acknowledges Soils Report	N/A	N/A	N/A	N/A	
25	Acknowledges Addenda	Yes	Yes	Yes	No	
26	Hold Bid for 150 Days	Yes	Yes	Yes	No	
27	Pricing good for the duration of the project	N/A	N/A	N/A	N/A	
28	Sales Tax Included	No	No	No	No	
29	**COVID-19 Market Questions**					
30	How has your workprogram been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	5% -Minor Projects	No	TBD	TBD	
31	Have you had any future work oppurtunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	3% - Due to owner	No	TBD	TBD	
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No	TBD	TBD	
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No	No	TBD	TBD	
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No	TBD	TBD	
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No	No	TBD	TBD	
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No	No	TBD	TBD	

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **08D - Overhead Coiling Doors**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Miner Corp	Cookson	D.H. Pace	Wayne Dalton	
		Keven Cross	Mark Montgomery	Darrin Mitchell	Larry Bagan	
		602-426-1200	480-589-6784	602-721-8461	520-279-4553	
		kcross@minercorp.com	mark.montgomery@cooksonaz.com	Darrin.Mitchell@dhpace.com	lbagan@wayne-dalton.com	
	TOTAL WORK CATEGORY PACKAGE VALUE	**$32,721**	**$44,547**	**$48,125**	**Incomplete Bid**	
37	Do you have any overseas suppliers that may be impeding your supply chain?	No	No	TBD	TBD	
38						
39	Per Plans & Specifications	Yes	Yes	Yes	No	
40	Division 1 as it relates to this scope of work	Yes	Yes	Yes	No	
41	08331 Overhead Coiling Doors	Yes	Yes	Yes	Yes	
42	08710 Door Hardware	Yes	Yes	Yes	Yes	
43	09900 Painting	Yes	Yes	Yes	Yes	
Scope of Work						
Base Bid:		$31,473	$34,960	$42,010	$26,514	
44	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 08D - Overhead Coiling Doors, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	No	No	No	
45	Check to Spec completed and submitted to McCarthy	Yes	No	No	No	
46	1 year warranty from Final Acceptance (Aug 2023)	Yes	Yes	Yes	Yes	
47	**Airport WRF Maintenance Building**					
48	Exterior Overhead Doors D01, D06 & D07 per Drawing A1.82 and Door Scehdule A-1.88	Yes	Yes	Yes	Yes	
48	Interior Overhead Door D18 per Drawing A1.82 and Door Schedule A-1.88	Yes	Yes	Yes	Yes	
49	Includes Electrical Connections from Motor to Control Stations and Eye Sensor	Yes	$5,000	$5,000	$5,000	
50	Coordinate exterior door submittals with Work Category 13B for design framed openings - Install Frames	Yes	$3,000	Yes	Yes	
51	Coordinate with Work Category 09A for Interior Openings	Yes	Yes	Yes	Yes	
51	Includes 2 mobilizations	$450	$500	$500	$500	
52	Shipping shall be FOB jobsite	Yes	Yes	Yes	Yes	
53	Unloading & storage	Yes	Yes	Yes	Yes	
53	Temporary protection & enclosure	Yes	Yes	Yes	Yes	
54	Bid Valid for 150 Days	Yes	Yes	Yes	$10,000	
55	COVID-19 Scope Items					
56	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes	Yes	TBD	TBD	
57	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes	Yes	TBD	TBD	
58	All personnel onsite must maintain 6'0" spacing between personel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes	Yes	TBD	TBD	
59	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes	Yes	TBD	TBD	
60	All tools and equipment used must be sanitzed each day.	Yes	Yes	TBD	TBD	
61	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes	Yes	TBD	TBD	
62	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	N/A	N/A	N/A	N/A	

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **08D - Overhead Coiling Doors**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Miner Corp	Cookson	D.H. Pace	Wayne Dalton	
		Keven Cross	Mark Montgomery	Darrin Mitchell	Larry Bagan	
		602-426-1200	480-589-6784	602-721-8461	520-279-4553	
		kcross@minercorp.com	mark.montgomery@cooksonaz.com	Darrin.Mitchell@dhpace.com	lbagan@wayne-dalton.com	
	TOTAL WORK CATEGORY PACKAGE VALUE	**$32,721**	**$44,547**	**$48,125**	**Incomplete Bid**	
63	Personnel are not allowed to carpool to the site or while onsite.	Yes	Yes	TBD	TBD	
64	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the apropriate testing and quarantine protocols.	Yes	Yes	TBD	TBD	
65						
66	End of Scope					
67	Bond/CDI Cost	$798	$1,087	$615	$544	
	TOTAL WORK CATEGORY PACKAGE VALUE	**$32,721**	**$44,547**	**$48,125**	**$42,558**	

BID PROPOSAL

Date 04/14/21

Bid Proposal of * Miner of Arizona (hereinafter called "Bidder")

a ** Limited Partnership organized and existing under the laws of the State of

_____.

* Insert name of firm.
** Insert corporation, partnership, or individual, as applicable.

(INSERT OWNER'S ADDRESS)
TO: McCarthy Building Companies, Inc.
6225 North 24th Street, Suite 200
Phoenix, Arizona 85016

The Bidder, in compliance with your Invitation for Bids for the construction of Chandler Water Reclamation Facility Improvements having examined the Contract Documents entitled City of Chandler, Chandler WRF Improvements Project, and other related documents and being familiar with the site of the proposed work, and with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, and the progress of work to date, if any, hereby proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, perform all work, provide all services, and to construct all work in accordance with the Contract Documents set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required.

The Bidder shall attach a copy of Bidders' detailed estimate to its Bid Proposal. This estimate shall identify all quantities shown in the documents or anticipated along with corresponding labor, material and equipment pricing.

After Bid Proposals are received, tabulated, and evaluated by McCarthy, said Bidder agrees to meet with McCarthy for the purpose of determining any duplications, omissions, or mutually agreed bid adjustments. For these meetings, the Bidder agrees to provide a complete, detailed cost breakdown; a list of all sub-subcontractors proposed for use in the work; and a list of all items, materials and their manufacturers proposed for use in the work.

The Bidder, if awarded a Subcontract, agrees to commence work and to fully complete its Work in accordance with a schedule to be established in collaboration with McCarthy under the provisions of the Additional Subcontractor Conditions of the Specifications.

The Bidder acknowledges receipt of the following Addenda: 1 - 4

_____.

BASE BID:

The Bidder agrees to perform all Overhead Coiling Door (herein insert the title of the Work Category as it appears in the Additional Subcontractor Conditions) Work for Work Category No. _____, as described in the Contract Documents, for the Lump Sum of _____ DOLLARS ($ 37,466.00).

BID BREAKDOWN:

Airport WRF Total Amount $_____

- Aeration Basin $_____.
- Blower Piping $_____.
- Blower Ductbank $_____.
- Filters $_____.
- Maintenance Bldg $_____.

Ocotillo WRF Total Amount $_____

- Aeration/Anoxic $_____.
- RAS/WAS PS $_____.
- Clarifiers 1& 2 $_____.
- Filters $_____..
- MCC Replacement $_____..
- Reservoir $_____..
- Roads/Sitework $_____..

Performance & Payment Bond Cost *(If Applicable)* $ 936.65

Total Subcontract Amount $ 38,402.65

The name of the proposed Bonding Company is Hylant

Bond rate 2.5 %

All applicable taxes, except sales and use taxes on materials and equipment which are affixed and made a part of the real estate of the Project, are included in the above Base Bid. Bidder agrees that this Bid Proposal shall be good and may not be withdrawn unless McCarthy does not send Bidder a Subcontract within one hundred ~~twenty (160) calendar days~~ fifty (150) calendar days after the opening date of Bid Proposals.

(Amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

ALTERNATES:

The Bidder further agrees that if any or all of the Alternates listed and described below are incorporated and accepted within sixty (60) calendar days after receipt of a Subcontract from McCarthy, the Bidder will adjust its Subcontract by the amount indicated opposite the Alternates listed below.

ALTERNATE NO. 1: Filter Disc in Basin 7 Installation:

ADD the sum of $_____.

ALTERNATE NO. 2: Clarifier 3 Rehabilitation

ADD the sum of $_____.

ALTERNATE NO. 3: Sludge Holding Tank and Blower Bldg No. 2

ADD the sum of $_____.

ALTERNATE NO. 4: Removal/Replacement of Diffusers in 2 Aeration Basins

ADD the sum of $_____.

ALTERNATE NO. 5:_____

ADD the sum of $_____.

CHANGE ORDER RATES: (Add separate sheet as needed)

Markup % (on rates and material): 10%.

Position: Installer Rate: $78.00.

Position: Laborer Rate: $60.00.

Equipment: _____ Rate: _____.

Equipment: _____ Rate: _____.

SAFETY RECORDS

The Bidder certifies to the following Experience Modification Rates (EMR) and Incidence Rates for the three (3) most recent years:

	Year 2018	Year 2019	Year 2020
1. Compensation Experience Modification Rate:	1.33	1.02	0.95
2. Incidence Rate:			
(a) Number of hours employees worked in the year.	1738573	1744112	1727445
(b) Number of cases defined as recordable, from the OSHA Form 300 Log.	29	32	29
(c) Total Recordable Incidence Rate = (b) x (200,000 hours) / Hours Worked (a)	3.34	3.67	3.36

The Bidder understands that McCarthy reserves the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

SELECT AS APPROPRIATE

☒ The Bidder has completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program; OR

☐ The Bidder has not completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program because the Bidder has provided the Form and all such information to McCarthy in the past 12 months for the following project:

_____ Project, which bid on: _____.

RESPONSIVE BID REQUIREMENTS:

DO NOT ENCLOSE YOUR STANDARD TERMS AND CONDITIONS

If any exceptions are taken to the requirements of this Proposal form, attach a separate sheet listing those exceptions, stating the sections and paragraphs and the specific exception.	KC (initials)
In submitting this proposal, the Bidder certifies that this bid is valid for 150 calendar days.	KC (initials)
In submitting this Proposal as described herein, we agree to complete the work in accordance with the included Preliminary Construction Sequence.	KC (initials)
In submitting this Proposal, the Bidder certifies that all cost for extended warranties to start on the date of Substantial Completion is included.	N/A (initials)
In submitting this proposal as described herein, we confirm that we have received, reviewed and agree to all commercial terms stated in the McCarthy Subcontract and Purchase Order Agreement. Any exception taken to the commercial terms stated in these Agreements must be listed on a separate sheet noting the article or paragraph and the specific exception. ***Bidders attached Standard Terms and Conditions will not be acknowledged or accepted as part of any given bid.***	KC (initials)
In submitting this proposal as described herein, the Bidder certifies that this bid is coordinated based on a complete set of documents and that there will be no claims for change order based on the assertion that the Bidder did not have a complete set of Bidding Documents.	KC (initials)
In submitting this proposal, the Bidder certifies that they have included all ~~spare parts~~, training, O & M Manuals, shop drawings and administration costs as associated to comply with the requirements of the specifications and as listed for their scope of work.	KC (initials)
A bid will be considered non-responsive if the Subcontractor Pre-Qualification Form is not completed as part of the Bid Form **(or on file at McCarthy office)**.	KC (initials)
The Bidder, by submitting their bid, represents that they have read and understand the scope requirements of the Bidding Documents.	KC (initials)
The Bidder certifies that any proposed materials in this scope of work meet or exceeds the requirements stated in the specifications unless noted otherwise within this proposal.	KC (initials)
The bidder certifies that the price listed in this bid is a firm Price through the final delivery of the materials proposed herein, and that no material escalation will be accepted as part of this proposal.	(initials)

Within fifteen (10) days after receipt by the Bidder from McCarthy of the Subcontract or Purchase Order, the Bidder will execute and return to McCarthy said Subcontract or Purchase Order and if notified from McCarthy that Bidder is not to be enrolled in McCarthy's Contractor Default Insurance Program, deliver to McCarthy Performance and Labor and Material Payment Bonds for the Subcontract or a Supply Contract Bond for the Purchase Order, or the difference between the amount of the bid and such larger amount for which McCarthy may subcontract with another party to perform the work covered by said bid, together with all court costs, all attorney fees and all other expense of recovery, all of which shall not exceed the Bid Security attached in the amount of 15% of the bid, will become the property of McCarthy. The bonds shall name McCarthy as Obligee.

If an Individual:

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Partnership:

Authorized Signature: _____

Name (print): _____

Email: _____

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Corporation:

Authorized Signature: _____

Name (print): _____

Email: _____

Title: _____

Business Address: _____

_____

Telephone _____

Contractor License Number: _____

General Liability Insurance Carrier (not the agent): _____

*Please attach a sample certificate of insurance and current W9 form to your bid.

Proposal

Date: 4/15/21 Rev2

PREPARED FOR:	PREPARED BY:
McCarthy Building Companies **Attn: Craig Nagel** **913-424-9630** **cnagel@mccarthy.com** **Re: City of Chandler WRF**	**Keven Cross** **1156 W. Southern Ave #101** **Tempe, AZ 85282** **Office: 602-426-1200** **Cell: 602-741-3934** **kcross@minercorp.com**

Qty	Size	Description	Qty Price
2	14' x 14'	Cornell ESD20 Insulated Coiling Service Door • 24ga / 24ga Galvanized Steel Slats • Baked Enamel Finish (Manufacturer's Standard Colors) • Structural Steel Angle Guides – Powder Coat Finish • Polyurethane Foam Insulation R-8.0 • 20 PSF Wind Load Design • 1/2 HP Electric Motor Operator • Photo Safety Eyes Bottom Safety Edge	**$18,214.00**
1	8' x 8'	Cornell ESD20 Insulated Coiling Service Door • 24ga / 24ga Galvanized Steel Slats • Baked Enamel Finish (Manufacturer's Standard Colors) • Structural Steel Angle Guides – Powder Coat Finish • Polyurethane Foam Insulation R-8.0 • 20 PSF Wind Load Design • 1/2 HP Electric Motor Operator • Photo Safety Eyes Bottom Safety Edge	**$4,752.00**
1	8' x 8'	Cornell ERD10 Coiling Fire Door • 22ga Galvanized Curtain • Baked Enamel Finish (Manufacturer's Standard Colors) • Structural Steel Angle Guides – Powder Coat Finish • 3 Hour Rated UL Labeled • Automatic Release Device Ties Into Bldg Alarm • 1/2 HP Electric Motor Operator • Photo Safety Eyes Bottom Safety Edge	**$5,388.00**
1	10' x 10'	Cornell ESD20 Insulated Coiling Service Door • 24ga / 24ga Galvanized Steel Slats • Baked Enamel Finish (Manufacturer's Standard Colors) • Structural Steel Angle Guides – Powder Coat Finish • Polyurethane Foam Insulation R-8.0 • 20 PSF Wind Load Design • 1/2 HP Electric Motor Operator • Photo Safety Eyes Bottom Safety Edge	**$5,993.00**
5	Above	Miner To Supply Low oltage Control Wiring (EMT Conduit, Std Wire Terminations)	**$3,119.00**
5	Above	Mechanical Installation	***Included***
5	Above	Shipping Handling	***Included***
		TOTAL	**$37,466.00**

Nagel, Craig

From: Keven Cross <kcross@minercorp.com>
Sent: Thursday, April 22, 2021 10:37 AM
To: Nagel, Craig
Subject: RE: Chandler WRF - Request for revisions to proposal & bid form

Follow Up Flag: Follow up
Flag Status: Flagged

1. Do you have all of the sealing around the doors? – There is vinyl jamb seal at each side, brush header seal & combo bottom seal/safety edge
2. Does your adder for Electrical include the photo eye sensor? – Photo eyes are included with each door cost. Our LV wiring includes us handling the photo eyes, safety edge & push buttons (basically everything for the operators except incoming power).
3. Do you have multiple mobilizations with your proposal? If not can you get me an adder?
    a. Two for the base bid Maintenance Building – Add $450 for added mobilization (this is more for us to rent additional lifts than actual mobilization).
    b. One for the Alt 3 Blower Building – Add $350 for added mobilization (this is more for us to rent additional lifts than actual mobilization).
4. On your scope sheet items 30 and 31 – Covid related questions with 5% and 3% delays/impacts.
    a. What projects were those on? Commercial due to owner work stoppage or other reasons? – Early on we had two projects that were shut down for a week or so to clean because someone on the site contracted Covid. We have had one project (Lifetime Fitness) that was on hold for two months last year but then came back on line and finished. There have been a couple that were bid but not awarded that were put on hold. Honestly, I had more projects in 2020 than in 2019 and 2021 is starting off extremely busy so all in all I'm not seeing a negative effect (yet).
5. On your scope sheet items 36 and 37 – Covid related questions with issues with suppliers and impacts to supply chains.
    a. What kind of issues have you experienced? Lead time delays? – Major lead time delays on certain items. Doors went from an average 5 week lead time to 8-10 weeks. Loading dock equipment went from around 8 weeks to 20+ weeks.

Keven Cross
Account Executive New Construction
Miner Southwest
Mobile: 602.741.3934
Fax: 602-426-0104
www.minercorp.com



From: Nagel, Craig <CNagel@McCarthy.com>
Sent: Tuesday, April 20, 2021 7:32 AM

Chandler WRF Improvements Project

GMP 2 Work Category Solicited Subcontractors Summary

Work Category: **09A Drywall**

Subcontractor/Supplier Name	***Status***
Pete King Construction	*Recommended*
The Berg Group	*Proposed*
Canyon Plastering & Drywall	*Proposed*
Cactus Drywall	*Declined*
CDS Framing	*Declined*
E&K of Phoenix	*Declined*
Extreme Drywall Concepts LLC	*Declined*
MKB Construction Inc.	*Declined*
NKW Inc.	*Declined*
PCI	*Declined*
SEC Drywall LLC	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: 09A - Drywall

GMP Date: 5/4/2021 Rev 6/21/2021

Recommended

	COMPANY INFORMATION	Pete King Construction	The Berg Group	Canyon Drywall & Plastering	PCI	CDS
		Todd Fife	Drew Christy	John Caroll	Brandon Propp	Brad Fenner
		602-390-4304	623-308-4130	602-803-3605	602-793-9296	602-258-0073
		todd@pkcaz.com	dchristy@berggroup.us	john@canyonplastering.com	brandon.propp@pcg.com	brad@cdsframing.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$119,345**	**$151,512**	**$154,945**	**No Bid**	**No Bid**
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	Yes	Yes	No		
2	Bid Submitted on McCarthy Bid Form	Yes	Yes	No		
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	N/A	N/A	N/A		
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing.	3/1/2021	4/1/2021	4/7/2020		
5	Surety Company	Ohio Casualty Insurance Co.	North American Specialty Insurance Co	RLI		
6	Surety AM Best Rating (Must be A- or Better)	A	A+	A+		
7	AM Best Financial Size X($500M to $750M) or higher	N/A	N/A	N/A		
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	N/A	N/A	N/A		
9	Bond/CDI Cost	1.295%	1.295%	1.295%		
10	Included Insurance Requirements (Per Matrix)	Yes	Yes	No		
11	GL Insurance Company Name	United Speciality Insurance Co.	Zurich American Insurance Co	Need Insurance Cert		
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	A	A+	No		
13	PRL Insurance (If required by the Front Ends)	N/A	N/A	N/A		
14	Pollution Insurance (If required by the Front Ends)	Yes	Yes	TBD		
15	Tier 1 Approved	Yes	Yes	No		
16	Tier 2 Approved	N/A	N/A	N/A		
17	Safety Items:	Yes	Yes	Yes		
18	OSHA Recordable Incident Rate (Current)	2.78	2.19	4.00		
19	Agrees to comply with PPE requirements including 100% glove policy	Yes	Yes	TBD		
20	Acknowledges updated ladder policy (platform ladders)	Yes	Yes	TBD		
21	Task Hazard Analysis included for all tasks	Yes	yes	TBD		
22	Tie-off above 6' required	Yes	Yes	TBD		
23	Includes Hoisting for Sub's Own Work Scope	Yes	Yes	TBD		
24	Acknowledges Soils Report	Yes	Yes	TBD		
25	Acknowledges Addenda	Yes	Yes	TBD		
26	Hold Bid for 150 Days	Yes	Yes	No		
27	Pricing good for the duration of the project	N/A	N/A	N/A		
28	Sales Tax Included	No	No	No		
29	**COVID-19 Market Questions**					
30	How has your workprogram been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	Yes - Commercial job delays	Yes - commercial job delays	TBD		
31	Have you had any future work oppurtunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No	Unknown	TBD		
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No	TBD		
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No	No	TBD		
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No	TBD		
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No	No	TBD		
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	Yes - Lead times	Yes - Lead times	TBD		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **09A - Drywall**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Pete King Construction	The Berg Group	Canyon Drywall & Plastering	PCI	CDS
		Todd Fife	Drew Christy	John Caroll	Brandon Propp	Brad Fenner
		602-390-4304	623-308-4130	602-803-3605	602-793-9296	602-258-0073
		todd@pkcaz.com	dchristy@berggroup.us	john@canyonplastering.com	brandon.propp@pcg.com	brad@cdsframing.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$119,345**	**$151,512**	**$154,945**	**No Bid**	**No Bid**
37	Do you have any overseas suppliers that may be impeding your supply chain?	No	No	TBD		
38						
39	Per Plans & Specifications	Yes	Yes	No		
40	Division 1 as it relates to this scope of work	Yes	Yes	No		
41	05051 Anchor Bolts, Toggle Bolts, and Concrete Inserts	Yes	Yes	No		
42	06100 Rough Carpentry	Yes	Yes	No		
43	07900 - Joint Sealants	Yes	Yes	No		
44	09260 - Gypsum Board Assemblies	Yes	Yes	Yes		
	Scope of Work					
	Base Bid:	$115,289	$147,045	$63,260		
45	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 09A - Drywall, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	Yes	No		
46	Check to Spec completed and submitted to McCarthy	Yes	Yes	No		
47	1 year warranty from Final Acceptance (Aug 2023)	Yes	Yes	Yes		
48	**Airport WRF Maintenance Building**					
49	Open Office 101 North & East Exterior Walls - Furring and Drywall per details. Include all framing required for Doors and windows	Yes	Yes	Yes		
50	Open Office 101 West Wall - Metal Stud framed wall with drywall on both sides	Yes	Yes	Yes		
51	Open Office 101 South Wall - Metal Stud framed wall with drywall on both sides and insulation. Include all framing needed for Window W06	Yes	Yes	Yes		
52	Break 102 North Wall - Furring and Drywall per details. Include all framing for window W04	Yes	Yes	Yes		
53	Break 102 East & West Walls - Metal Stud framed wall with drywall on both sides	Yes	Yes	Yes		
54	Break 102 South Wall - Metal Stud framed wall with drywall on both sides and insulation. Include all necessary inwall rough carpentry for MEP trades and Casework	Yes	Yes	$950		
55	Hall 103 North Wall - Furring and Drywall per details. Include all framing for Door D04	Yes	Yes	Yes		
56	Hall 103 East and West Walls - Metal Stud framed wall with drywall on both sides. Include all framing for doors D09 and D10	Yes	Yes	Yes		
57	Hall 103 - South Wall - Metal Stud framed wall with drywall on both sides. Include all framing for Door D08	Yes	Yes	Yes		
58	Office 104 North & East Walls - Metal Stud framed with drywall on both sides	Yes	Yes	Yes		
59	Office 104 South Wall - Metal Stud framed with drywall on both sides with Insulation. Include inwall blocking as needed for Service Sink on outside of wall	Yes	Yes	$950		
60	Office 104 West Wall - Metal stud framed with drywall on one side with Insulation and Wetboard on W Locker room side	Yes	Yes	Yes		
61	Office 105 North Wall - Furring and Drywall per details. Include all framing for Window W05	Yes	Yes	Yes		
62	Office 105 East & South Walls - Metal Stud framed walls with drywall on both sides	Yes	Yes	Yes		
63	Office 105 West Wall - Metal Stud framed wall with drywall on one side with Insulation. Womens Restroom side to be Wetboard type material.	Yes	Yes	Yes		
64	Corridor 106 North, East and West Walls - Metal Stud framed wall with drywall on both sides and insulation. Include all framing for door openings D13 & D15	Yes	Yes	Yes		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: 09A - Drywall

GMP Date: 5/4/2021 Rev 6/21/2021

Recommended

	COMPANY INFORMATION	Pete King Construction	The Berg Group	Canyon Drywall & Plastering	PCI	CDS
		Todd Fife	Drew Christy	John Caroll	Brandon Propp	Brad Fenner
		602-390-4304	623-308-4130	602-803-3605	602-793-9296	602-258-0073
		todd@pkcaz.com	dchristy@berggroup.us	john@canyonplastering.com	brandon.propp@pcg.com	brad@cdsframing.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$119,345**	**$151,512**	**$154,945**	**No Bid**	**No Bid**
64	Corridor 106 South Wall - Metal Stud framed wall with drywall on both sides and insulation. Include framed opening as shown	Yes	Yes	Yes		
65	Corridor 106 Ceiling - Suspended Hard Lid Ceiling in Corridor	Yes	Yes	$3,500		
66	M Lockers 107 All Walls - Metal Stud framed wall with drywall on both sides and insulation. Include framed openings as shown. Include inwall blocking as required for locker installation by packaeg 10A	Yes	Yes	$950		
66	M Lockers 107 - Suspended Hard Lid Ceiling	Yes	Yes	$4,850		
57	M Restroom 108 All Walls - Metal Stud framed wall with drywall on both sides and insulation. Include framed openings as shown. Include inwall blocking as required for locker installation by packaeg 10A	Yes	Yes	$2,550		
58	M Restroom 108 Ceiling - Suspended Hard Lid Ceiling in Restroom by Drywall. Include all necessary framing and connections required including one location for aboveceiling MEP access	Yes	Yes	$6,250		
59	W Lockers 109 All Walls - Metal Stud framed wall with drywall on both sides and insulation. Include framed openings as shown. Include inwall blocking as required for locker installation by packaeg 10A	Yes	Yes	$950		
59	W Lockers 109 - Suspended Hard Lid Ceiling	Yes	Yes	$4,960		
60	W Restroom 110 All Walls - Metal Stud framed wall with drywall on both sides and insulation. Include framed openings as shown. Include inwall blocking as required for locker installation by packaeg 10A	Yes	Yes	$950		
61	M Restroom 110 Ceiling - Suspended Hard Lid Ceiling in Restroom by Drywall. Include all necessary framing and connections required including one location for aboveceiling MEP access	Yes	Yes	$6,250		
62	Tool Storage 111 North & West Walls - Furring and Drywall per details	Yes	Yes	Yes		
63	Tool Storage 111 East Wall - Metal Stud framed drywall on both sides with Insulation	Yes	Yes	Yes		
64	Workshop 112 North Wall - Metal Stud framed drywall on both sides with insulation. Include all inwall blocking as needed for MEP and other wall secured items	Yes	Yes	$950		
65	Lube Oil Storage 113 West Wall - Furring and Drywall per details	Yes	Yes	Yes		
66	Lube Oil Storage 113 North, East & South Walls - Metal Stud framed with drywall and insulation - 1 hour fire rating for this room. Inlcude all framed openings for Doors D17 & D18. Include all blocking for MEP trades as required	Yes	Yes	$950		
67	Storage 114 North Wall - Metal Stud with drywall on both sides. Include framed opening for Dust Curtain. Dust Curtain by others.	Yes	Yes	Yes		
68	Mezzanine M01 West Wall - Metal Stud with drywall on both sides. Include framed opening for Door D19	Yes	Yes	Yes		
69	Storage M02 North and West Walls - Furring with Drywall per details. Coordinate and install inwall blocking as needed for storage racks	Yes	Yes	$950		
70	Storage M02 East and South Walls - Metal Stud with drywall on both sides	Yes	Yes	Yes		
71	Coordinate with other Work Category's to include all inwall blocking required for the Maintenance Building Interior Walls	Yes	Yes	$550		
72	Shipping shall be FOB jobsite	Yes	Yes	Yes		
73	Unloading & storage	Yes	Yes	Yes		
74	Temporary protection & final touchup	$2,530	$2,530	$2,530		
74	Safety	Yes	Yes	$14,860		
75	Cost Escalation for 150 Bid Validity	Yes	Yes	$35,805		
76	COVID-19 Scope Items					
77	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes	Yes	TBD		
78	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes	Yes	TBD		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **09A - Drywall**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Pete King Construction	The Berg Group	Canyon Drywall & Plastering	PCI	CDS
		Todd Fife	Drew Christy	John Caroll	Brandon Propp	Brad Fenner
		602-390-4304	623-308-4130	602-803-3605	602-793-9296	602-258-0073
		todd@pkcaz.com	dchristy@berggroup.us	john@canyonplastering.com	brandon.propp@pcg.com	brad@cdsframing.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$119,345**	**$151,512**	**$154,945**	**No Bid**	**No Bid**
79	All personnel onsite must maintain 6'0" spacing between personel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes	Yes	TBD		
80	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes	Yes	TBD		
81	All tools and equipment used must be sanitzed each day.	Yes	Yes	TBD		
82	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes	Yes	TBD		
83	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes	Yes	TBD		
84	Personnel are not allowed to carpool to the site or while onsite.	Yes	Yes	TBD		
85	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the apropriate testing and quarantine protocols.	Yes	Yes	TBD		
86						
87	End of Scope					
88	Bond/CDI Cost	$1,526	$1,937	$1,981		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$119,345**	**$151,512**	**$154,945**		

BID PROPOSAL

Date 4/19/2021

Bid Proposal of * Pete King Construction (hereinafter called "Bidder")

a ** Corporation organized and existing under the laws of the State of AZ.

* Insert name of firm.
** Insert corporation, partnership, or individual, as applicable.

(INSERT OWNER'S ADDRESS)
TO: McCarthy Building Companies, Inc.
6225 North 24th Street, Suite 200
Phoenix, Arizona 85016

The Bidder, in compliance with your Invitation for Bids for the construction of Chandler Water Reclamation Facility Improvements having examined the Contract Documents entitled City of Chandler, Chandler WRF Improvements Project, and other related documents and being familiar with the site of the proposed work, and with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, and the progress of work to date, if any, hereby proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, perform all work, provide all services, and to construct all work in accordance with the Contract Documents set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required.

The Bidder shall attach a copy of Bidders' detailed estimate to its Bid Proposal. This estimate shall identify all quantities shown in the documents or anticipated along with corresponding labor, material and equipment pricing.

After Bid Proposals are received, tabulated, and evaluated by McCarthy, said Bidder agrees to meet with McCarthy for the purpose of determining any duplications, omissions, or mutually agreed bid adjustments. For these meetings, the Bidder agrees to provide a complete, detailed cost breakdown; a list of all sub-subcontractors proposed for use in the work; and a list of all items, materials and their manufacturers proposed for use in the work.

The Bidder, if awarded a Subcontract, agrees to commence work and to fully complete its Work in accordance with a schedule to be established in collaboration with McCarthy under the provisions of the Additional Subcontractor Conditions of the Specifications.

The Bidder acknowledges receipt of the following Addenda: 1-4.

BASE BID:

The Bidder agrees to perform all Metal Stud, Drywall, ~~Paint~~ (herein insert the title of the Work Category as it appears in the Additional Subcontractor Conditions) Work for Work Category No. _____, as described in the Contract Documents, for the Lump Sum of Eighty thousand four hundred thirty-six. DOLLARS ($ 80,436).

BID BREAKDOWN:

Airport WRF Total Amount $_____

- Aeration Basin $_____
- Blower Piping $_____
- Blower Ductbank $_____
- Filters $_____
- Maintenance Bldg $ 80,436

Ocotillo WRF Total Amount $_____

- Aeration/Anoxic $_____
- RAS/WAS PS $_____
- Clarifiers 1& 2 $_____
- Filters $_____
- MCC Replacement $_____
- Reservoir $_____
- Roads/Sitework $_____

Performance & Payment Bond Cost *(If Applicable)* $_____

Total Subcontract Amount $_____

The name of the proposed Bonding Company is Ohio Casualty

Bond rate 1 %

All applicable taxes, except sales and use taxes on materials and equipment which are affixed and made a part of the real estate of the Project, are included in the above Base Bid. Bidder agrees that this Bid Proposal shall be good and may not be withdrawn unless McCarthy does not send Bidder a Subcontract within one hundred ~~twenty (160) calendar days~~ fifty (150) calendar days after the opening date of Bid Proposals.

(Amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

ALTERNATES:

The Bidder further agrees that if any or all of the Alternates listed and described below are incorporated and accepted within sixty (60) calendar days after receipt of a Subcontract from McCarthy, the Bidder will adjust its Subcontract by the amount indicated opposite the Alternates listed below.

ALTERNATE NO. 1: Filter Disc in Basin 7 Installation:

ADD the sum of $_____.

ALTERNATE NO. 2: Clarifier 3 Rehabilitation

ADD the sum of $_____.

ALTERNATE NO. 3: Sludge Holding Tank and Blower Bldg No. 2

ADD the sum of $_____.

ALTERNATE NO. 4: Removal/Replacement of Diffusers in 2 Aeration Basins

ADD the sum of $_____.

ALTERNATE NO. 5: Batt insulation in interior walls

ADD the sum of $ 6,306.

CHANGE ORDER RATES: (Add separate sheet as needed)

Markup % (on rates and material): 15%.

Position: All Rate: $55.00.

Position: _____ Rate: _____.

Equipment: _____ Rate: _____.

Equipment: _____ Rate: _____.

SAFETY RECORDS

The Bidder certifies to the following Experience Modification Rates (EMR) and Incidence Rates for the three (3) most recent years:

	Year 2018	Year 2019	Year 2020
1. Compensation Experience Modification Rate:	.49	.50	.51
2. Incidence Rate:			
(a) Number of hours employees worked in the year.	462	447	469
(b) Number of cases defined as recordable, from the OSHA Form 300 Log.	20	11	13
(c) Total Recordable Incidence Rate = (b) x (200,000 hours) / Hours Worked (a)	4.35	2.54	2.78

The Bidder understands that McCarthy reserves the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

SELECT AS APPROPRIATE

☑ The Bidder has completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program; OR

☐ The Bidder has not completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program because the Bidder has provided the Form and all such information to McCarthy in the past 12 months for the following project:

_____ Project, which bid on: _____.

RESPONSIVE BID REQUIREMENTS:

DO NOT ENCLOSE YOUR STANDARD TERMS AND CONDITIONS

If any exceptions are taken to the requirements of this Proposal form, attach a separate sheet listing those exceptions, stating the sections and paragraphs and the specific exception.	TF (initials)
In submitting this proposal, the Bidder certifies that this bid is valid for 150 calendar days. See Alternate	TF (initials)
In submitting this Proposal as described herein, we agree to complete the work in accordance with the included Preliminary Construction Sequence.	TF (initials)
In submitting this Proposal, the Bidder certifies that all cost for extended warranties to start on the date of Substantial Completion is included.	TF (initials)
In submitting this proposal as described herein, we confirm that we have received, reviewed and agree to all commercial terms stated in the McCarthy Subcontract and Purchase Order Agreement. Any exception taken to the commercial terms stated in these Agreements must be listed on a separate sheet noting the article or paragraph and the specific exception. ***Bidders attached Standard Terms and Conditions will not be acknowledged or accepted as part of any given bid.***	TF (initials)
In submitting this proposal as described herein, the Bidder certifies that this bid is coordinated based on a complete set of documents and that there will be no claims for change order based on the assertion that the Bidder did not have a complete set of Bidding Documents.	TF (initials)
In submitting this proposal, the Bidder certifies that they have included all spare parts, training, O & M Manuals, shop drawings and administration costs as associated to comply with the requirements of the specifications and as listed for their scope of work.	TF (initials)
A bid will be considered non-responsive if the Subcontractor Pre-Qualification Form is not completed as part of the Bid Form **(or on file at McCarthy office)**.	TF (initials)
The Bidder, by submitting their bid, represents that they have read and understand the scope requirements of the Bidding Documents.	TF (initials)
The Bidder certifies that any proposed materials in this scope of work meet or exceeds the requirements stated in the specifications unless noted otherwise within this proposal.	TF (initials)
The bidder certifies that the price listed in this bid is a firm Price through the final delivery of the materials proposed herein, and that no material escalation will be accepted as part of this proposal.	TF (initials)

Within fifteen (10) days after receipt by the Bidder from McCarthy of the Subcontract or Purchase Order, the Bidder will execute and return to McCarthy said Subcontract or Purchase Order and if notified from McCarthy that Bidder is not to be enrolled in McCarthy's Contractor Default Insurance Program, deliver to McCarthy Performance and Labor and Material Payment Bonds for the Subcontract or a Supply Contract Bond for the Purchase Order, or the difference between the amount of the bid and such larger amount for which McCarthy may subcontract with another party to perform the work covered by said bid, together with all court costs, all attorney fees and all other expense of recovery, all of which shall not exceed the Bid Security attached in the amount of 15% of the bid, will become the property of McCarthy. The bonds shall name McCarthy as Obligee.

If an Individual:

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Partnership:

Authorized Signature: _____

Name (print): _____

Email: _____

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Corporation:

Authorized Signature: _____

Name (print): Pete King

Email: todd@PKCAZ.com

Title: estimator

Business Address: _____

_____

Telephone 602-944-4441

Contractor License Number: _____

General Liability Insurance Carrier (not the agent): United Specialty Insurance Company

*Please attach a sample certificate of insurance and current W9 form to your bid.

PETE KING CONSTRUCTION COMPANY
P.O. BOX 82970 • PHOENIX, AZ 85071-2970 • 11040 NORTH 19TH AVE. • (602) 944-4441 • FAX (602) 943-4876

April 6, 2021

McCarthy
Tel:
Fax:
Attn: Estimating

Pete King Construction is hereby submitting the following **Bid** on

Chandler WRF Improvements

Our **PROPOSAL** to cover the scope and spec sections listed below is: **$ 80,436**

Light Gauge Metal Studs - 54000
Gypsum Board - 09250

ALTERNATES

FRP at Service Sink	$	650
Add for Batt insulation at interior walls (not at furring)	$	6,306
Cost to hold bid for 150 days	$	27,897

Our bond rate is 1% and our Bid Limit is: Unlimited
We have seen NO addenda on this project. This bid is based on plans dated: 03.01.21

We appreciate the opportunity to bid this project with you. If there are any questions or concerns, please contact me at: 602-944-4441 or 602-390-4304.

Sincerely,

Todd Fife
Estimator

Bid is void in 30 days!!

PETE KING CONSTRUCTION COMPANY
P.O. BOX 82970 • PHOENIX, AZ 85071-2970 • 11040 NORTH 19TH AVE. • (602) 944-4441 • FAX (602) 943-4876

Pete King Construction - Scope of work for: **Chandler WRF Improvements**

We include: **Light gauge metal framing & drywall**

* Framing of interior walls and ceilings with drywall per plans
* 5/8" moisture resistant gypsum at wet walls
* Gypsum finish to be smooth
* Furring on all prefabricated exterior walls

We exclude: Bonds, Permits, Wood products, Insulation Products and "Z" Furring, Engineering, Shop Drawings, Fire Caulk, Firestops, concrete finishes, specialty coatings, paint

Chandler WRF Improvements Project

GMP 2 Work Category Solicited Subcontractors Summary

Work Category: **09B Tile & Resilient Flooring**

Subcontractor/Supplier Name	***Status***
Envision Flooring LLC	*Recommended*
Creative Design Flooring	*Proposed*
Wholesale Flooring	*Proposed*
SKF Tile & Stone	*Proposed*
Continental Flooring Co. Inc.	*Declined*
Desert Mountain Tile & Marble	*Declined*
Scuderi Tile Contractors Inc.	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **09B - Tile & Resillent Flooring**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	**Envision Flooring**	Creative Design Flooring	Wholesale Floors LLC	SKF Tile & Stone	Berg Group
		Robert Ramsey	Kaylee Girard	Brett Dominguez	Faithie Ekbundit	Drew Christy
		602-708-3882	480-443-3905	602-502-9030	602-710-7778	623-308-4130
		robertr@envisionflooringllc.com	kaylee.girard@creativedesignflooring.com	brett@wholesalefloors.com	bids@skftile.com	dchristy@berggroup.us
	TOTAL WORK CATEGORY PACKAGE VALUE	**$14,556**	**$21,885**	**$24,582**	**Incomplete**	**Incomplete**
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	Yes	Yes	No		
2	Bid Submitted on McCarthy Bid Form	Yes	Yes	No		
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	N/A	N.A	N/A		
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing.	1/25/2021	1/26/2021	2/8/2021		
5	Surety Company	Hartford Accident & Indemnity	CBIC	Berkley Insurance Co		
6	Surety AM Best Rating (Must be A- or Better)	A+	A+	A+		
7	AM Best Financial Size X($500M to $750M) or higher	N/A	N/A	N/A		
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	N/A	N/A	N/A		
9	Bond/CDI Cost	1.295%	1.295%	1.295%		
10	Included Insurance Requirements (Per Matrix)	Yes	Yes	Yes		
11	GL Insurance Company Name	Selective Insurance	Ohio Security Insurance	Continental Insurance Co		
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	A	A	A		
13	PRL Insurance (If required by the Front Ends)	N/A	N/A	N/A		
14	Pollution Insurance (If required by the Front Ends)	N/A	N/A	N/A		
15	Tier 1 Approved	Yes	Yes	Yes		
16	Tier 2 Approved	N/A	N/A	N/A		
17	Safety Items:	Yes	Yes	Yes		
18	OSHA Recordable Incident Rate (Current)	0.92	1.04	2.32		
19	Agrees to comply with PPE requirements including 100% glove policy	Yes	Yes	Yes		
20	Acknowledges updated ladder policy (platform ladders)	Yes	Yes	Yes		
21	Task Hazard Analysis included for all tasks	Yes	Yes	Yes		
22	Tie-off above 6' required	Yes	Yes	Yes		
23	Includes Hoisting for Sub's Own Work Scope	Yes	Yes	Yes		
24	Acknowledges Soils Report	N/A	N/A	N/A		
25	Acknowledges Addenda	Yes	Yes	Yes		
26	Hold Bid for 150 Days	Yes	Yes	Yes		
27	Pricing good for the duration of the project	N/A	N/A	N/A		
28	Sales Tax Included	No	No	No		
29	**COVID-19 Market Questions**					
30	How has your workprogram been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No	No	No		
31	Have you had any future work oppurtunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No	No	No		
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No	No		
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No	No	No		
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No	No		
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No	No	No		
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No	No	No		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **09B - Tile & Resillent Flooring**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	**Envision Flooring**	Creative Design Flooring	Wholesale Floors LLC	SKF Tile & Stone	Berg Group
		Robert Ramsey	Kaylee Girard	Brett Dominguez	Faithie Ekbundit	Drew Christy
		602-708-3882	480-443-3905	602-502-9030	602-710-7778	623-308-4130
		robertr@envisionflooringllc.com	kaylee.girard@creativedesignflooring.com	brett@wholesalefloors.com	bids@skftile.com	dchristy@berggroup.us
	TOTAL WORK CATEGORY PACKAGE VALUE	**$14,556**	**$21,885**	**$24,582**	**Incomplete**	**Incomplete**
37	Do you have any overseas suppliers that may be impeding your supply chain?	No	No	No		
38						
39	Per Plans & Specifications	Yes	Yes	Yes		
40	Division 1 as it relates to this scope of work	Yes	yes	Yes		
40	09300 Tiling	Yes	Yes	Yes		
41	09650 - Resilient Flooring	Yes	Yes	Yes		
Scope of Work						
Base Bid:		$13,770	$21,005	$23,668		
42	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 09B - Tile & Resillent Flooring, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	Yes	Yes		
43	Check to Spec completed and submitted to McCarthy	Yes	Yes	Yes		
44	1 year warranty from Final Acceptance (Aug 2023)	Yes	Yes	Yes		
45	**Airport WRF Maintenance Building**					
46	All Floor and Wall Tiling per drawings and finish schedule on drawing A-1.88	Yes	Yes	Yes		
46	All 4" Rubber Base per drawings and finish schedule on drawing A-1.88	Yes	Yes	Yes		
47	Sealing of the Concrete Floors included complete	Yes	Yes	Yes		
48	Maintenace Materials as called out in 09300 1.3C - Extra Tile and materials - 1% or no less than 10 of each type	Yes	Yes	Yes		
49	Verify and examine subfloor and wall surfaces and walk and document condition with Construction Manager prior to starting installation	Yes	Yes	Yes		
50	Shipping shall be FOB jobsite	Yes	Yes	Yes		
51	Unloading & storage	Yes	Yes	Yes		
52	Temporary protection & Final Cleaning	$600	$600	$600		
53	Spare Parts per the Specifications	Yes	Yes	Yes		
54	COVID-19 Scope Items					
55	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes	Yes	Yes		
56	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes	Yes	Yes		
57	All personnel onsite must maintain 6'0" spacing between personel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes	Yes	Yes		
58	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes	Yes	Yes		
59	All tools and equipment used must be sanitzed each day.	Yes	Yes	Yes		
60	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes	Yes	Yes		
61	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	N/A	N/A	N/A		
62	Personnel are not allowed to carpool to the site or while onsite.	Yes	Yes	Yes		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **09B - Tile & Resillent Flooring**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	**Envision Flooring**	Creative Design Flooring	Wholesale Floors LLC	SKF Tile & Stone	Berg Group
		Robert Ramsey	Kaylee Girard	Brett Dominguez	Faithie Ekbundit	Drew Christy
		602-708-3882	480-443-3905	602-502-9030	602-710-7778	623-308-4130
		robertr@envisionflooringllc.com	kaylee.girard@creativedesignflooring.com	brett@wholesalefloors.com	bids@skftile.com	dchristy@berggroup.us
	TOTAL WORK CATEGORY PACKAGE VALUE	**$14,556**	**$21,885**	**$24,582**	**Incomplete**	**Incomplete**
63	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the apropriate testing and quarantine protocols.	Yes	Yes	Yes		
64						
65	End of Scope					
66	Bond/CDI Cost	$186	$280	$314		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$14,556**	**$21,885**	**$24,582**		

BID PROPOSAL

Date 4-6-21

Bid Proposal of * 14,635.29 (hereinafter called "Bidder")

a ** Envision Flooring organized and existing under the laws of the State of AZ.

* Insert name of firm.
** Insert corporation, partnership, or individual, as applicable.

(INSERT OWNER'S ADDRESS)
TO: McCarthy Building Companies, Inc.
6225 North 24th Street, Suite 200
Phoenix, Arizona 85016

The Bidder, in compliance with your Invitation for Bids for the construction of Chandler Water Reclamation Facility Improvements having examined the Contract Documents entitled City of Chandler, Chandler WRF Improvements Project, and other related documents and being familiar with the site of the proposed work, and with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, and the progress of work to date, if any, hereby proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, perform all work, provide all services, and to construct all work in accordance with the Contract Documents set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required.

The Bidder shall attach a copy of Bidders' detailed estimate to its Bid Proposal. This estimate shall identify all quantities shown in the documents or anticipated along with corresponding labor, material and equipment pricing.

After Bid Proposals are received, tabulated, and evaluated by McCarthy, said Bidder agrees to meet with McCarthy for the purpose of determining any duplications, omissions, or mutually agreed bid adjustments. For these meetings, the Bidder agrees to provide a complete, detailed cost breakdown; a list of all sub-subcontractors proposed for use in the work; and a list of all items, materials and their manufacturers proposed for use in the work.

The Bidder, if awarded a Subcontract, agrees to commence work and to fully complete its Work in accordance with a schedule to be established in collaboration with McCarthy under the provisions of the Additional Subcontractor Conditions of the Specifications.

The Bidder acknowledges receipt of the following Addenda: 1 — 4

BASE BID:

The Bidder agrees to perform all Tile & Resilient (herein insert the title of the Work Category as it appears in the Additional Subcontractor Conditions) Work for Work Category No. _____, as described in the Contract Documents, for the Lump Sum of Fourteen Thousand Six Hundred Thirty Five 29/100 DOLLARS ($ 14,635.29).

BID BREAKDOWN:

Airport WRF Total Amount $_____

Cost Proposal below shows break out cost for Maintenance Bldg to be 13,770.30 Total cost in bid form is shown with alternate.

- Aeration Basin $_____
- Blower Piping $_____
- Blower Ductbank $_____
- Filters $_____
- Maintenance Bldg $_____

Ocotillo WRF Total Amount $_____

- Aeration/Anoxic $_____
- RAS/WAS PS $_____
- Clarifiers 1& 2 $_____
- Filters $_____
- MCC Replacement $_____
- Reservoir $_____
- Roads/Sitework $_____

Performance & Payment Bond Cost *(If Applicable)* $_____

Total Subcontract Amount $_____

The name of the proposed Bonding Company is Bowdy & Williams

Bond rate 1.25 %

All applicable taxes, except sales and use taxes on materials and equipment which are affixed and made a part of the real estate of the Project, are included in the above Base Bid. Bidder agrees that this Bid Proposal shall be good and may not be withdrawn unless McCarthy does not send Bidder a Subcontract within one hundred ~~twenty (160) calendar days~~ fifty (150) calendar days after the opening date of Bid Proposals.

(Amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

ALTERNATES:

The Bidder further agrees that if any or all of the Alternates listed and described below are incorporated and accepted within sixty (60) calendar days after receipt of a Subcontract from McCarthy, the Bidder will adjust its Subcontract by the amount indicated opposite the Alternates listed below.

ALTERNATE NO. 1: Filter Disc in Basin 7 Installation:

ADD the sum of $_____.

ALTERNATE NO. 2: Clarifier 3 Rehabilitation

ADD the sum of $_____.

ALTERNATE NO. 3: Sludge Holding Tank and Blower Bldg No. 2

ADD the sum of $_____.

ALTERNATE NO. 4: Removal/Replacement of Diffusers in 2 Aeration Basins

ADD the sum of $_____.

ALTERNATE NO. 5:_____

ADD the sum of $_____.

CHANGE ORDER RATES: (Add separate sheet as needed)

Markup % (on rates and material): 5%

Position: Foreman Rate: 35

Position: Journeyman Rate: 30

Equipment: _____ Rate: _____

Equipment: _____ Rate: _____

SAFETY RECORDS

The Bidder certifies to the following Experience Modification Rates (EMR) and Incidence Rates for the three (3) most recent years:

	Year 2018	Year 2019	Year 2020	21
1. Compensation Experience Modification Rate:	1	1	0.92	0.92
2. Incidence Rate:				
(a) Number of hours employees worked in the year.			52,500	
(b) Number of cases defined as recordable, from the OSHA Form 300 Log.	0	0	0	0
(c) Total Recordable Incidence Rate = (b) x (200,000 hours) / Hours Worked (a)	0	0	0	0

The Bidder understands that McCarthy reserves the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

SELECT AS APPROPRIATE

☒ The Bidder has completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program; OR

☐ The Bidder has not completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program because the Bidder has provided the Form and all such information to McCarthy in the past 12 months for the following project:

_____ Project, which bid on: _____.

RESPONSIVE BID REQUIREMENTS:

DO NOT ENCLOSE YOUR STANDARD TERMS AND CONDITIONS

If any exceptions are taken to the requirements of this Proposal form, attach a separate sheet listing those exceptions, stating the sections and paragraphs and the specific exception.	(initials)
In submitting this proposal, the Bidder certifies that this bid is valid for 150 calendar days.	(initials)
In submitting this Proposal as described herein, we agree to complete the work in accordance with the included Preliminary Construction Sequence.	(initials)
In submitting this Proposal, the Bidder certifies that all cost for extended warranties to start on the date of Substantial Completion is included.	(initials)
In submitting this proposal as described herein, we confirm that we have received, reviewed and agree to all commercial terms stated in the McCarthy Subcontract and Purchase Order Agreement. Any exception taken to the commercial terms stated in these Agreements must be listed on a separate sheet noting the article or paragraph and the specific exception. ***Bidders attached Standard Terms and Conditions will not be acknowledged or accepted as part of any given bid.***	(initials)
In submitting this proposal as described herein, the Bidder certifies that this bid is coordinated based on a complete set of documents and that there will be no claims for change order based on the assertion that the Bidder did not have a complete set of Bidding Documents.	(initials)
In submitting this proposal, the Bidder certifies that they have included all spare parts, training, O & M Manuals, shop drawings and administration costs as associated to comply with the requirements of the specifications and as listed for their scope of work.	(initials)
A bid will be considered non-responsive if the Subcontractor Pre-Qualification Form is not completed as part of the Bid Form **(or on file at McCarthy office).**	(initials)
The Bidder, by submitting their bid, represents that they have read and understand the scope requirements of the Bidding Documents.	(initials)
The Bidder certifies that any proposed materials in this scope of work meet or exceeds the requirements stated in the specifications unless noted otherwise within this proposal.	(initials)
The bidder certifies that the price listed in this bid is a firm Price through the final delivery of the materials proposed herein, and that no material escalation will be accepted as part of this proposal.	(initials)

Within fifteen (10) days after receipt by the Bidder from McCarthy of the Subcontract or Purchase Order, the Bidder will execute and return to McCarthy said Subcontract or Purchase Order and if notified from McCarthy that Bidder is not to be enrolled in McCarthy's Contractor Default Insurance Program, deliver to McCarthy Performance and Labor and Material Payment Bonds for the Subcontract or a Supply Contract Bond for the Purchase Order, or the difference between the amount of the bid and such larger amount for which McCarthy may subcontract with another party to perform the work covered by said bid, together with all court costs, all attorney fees and all other expense of recovery, all of which shall not exceed the Bid Security attached in the amount of 15% of the bid, will become the property of McCarthy. The bonds shall name McCarthy as Obligee.

If an Individual:

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Partnership:

Authorized Signature: _____

Name (print): _____

Email: _____

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Corporation:

Authorized Signature: [signature]

Name (print): Robert Adams

Email: RobertA@ENVISIONFlooringLLC.com

Title: Sales Mgr

Business Address: 21241 N. 73rd Ste 5

PHX AZ 85027

Telephone 602 708 3882

Contractor License Number: ROC 304308 CR 8

General Liability Insurance Carrier (not the agent): Hartford

*Please attach a sample certificate of insurance and current W9 form to your bid.

Proposal

Envision Flooring LLC
21241 N 23rd Ave
Suite 5
Phoenix AZ 85027
623-444-8447 623-594-1809

Proposal# 11380
Customer PO
Contract #
Date 4/6/2021
Sales Person1 Robert Ramsey
Sales Person 2

Acct # 61
For: 480-449-4700 Fax

McCarthy Building Companies Inc
6225 N 24th St #200
Phoenix, AZ 85016-2037

Job Site:

Chandler WRF AWRF
Chandler Water Reclamation Facility
Chandler, AZ

Type	Quantity	Product Description / Labor Description	Color / Item # / Area	Price	Total
Concrete					
Labor	5884 SF	SC-1 Sealed Concrete / TBD	vo comp 20	$0.63	$3,706.92
Notes	Color/Description: SC-1 Sealed Concrete / TBD Style/Item Name: SC-1 Sealed Concrete / TBD UnitPrice: 0.00 Unit:				
Ceramic Tile					
Materials	290 SF	Floor Tile / Figured DalTile / TBD Figured 12x24	Astronomy 12 x 24	$2.13	$617.70
Labor	290 SF	Install - Floor Tile to 24"		$4.11	$1,191.90
Notes	Color/Description: Floor Tile / Figured DalTile / TBD Figured 12x24 Style/Item Name: Floor Tile / Figured DalTile / TBD Figured 12x24 UnitPrice: 0.00 Unit:				
Ceramic Tile					
Materials	566 SF	Wall Tile / Figured DalTile / TBD Figured 12x24	Astronomy 12 x 24	$2.13	$1,205.58
Labor	566 SF	Install - Wall Tile Straight to 24"		$5.38	$3,045.08
Notes	Color/Description: Wall Tile / Figured DalTile / TBD Figured 12x24 Style/Item Name: Wall Tile / Figured DalTile / TBD Figured 12x24 UnitPrice: 0.00 Unit:				
VCT					
Materials	945 SF	VCT-1 Composition Tile / TBD	Standard Excelon	$1.14	$1,077.30
Labor	945 SF	Install - Vct		$0.38	$359.10
Notes	Color/Description: VCT-1 Composition Tile / TBD Style/Item Name: VCT-1 Composition Tile / TBD UnitPrice: 0.00 Unit:				
Adhesive					
Materials	2 EA	Adhesives	Eco 373 Pressure Sensitive 4 Gallon	$94.84	$189.68
Transition					
Materials	18.91 FT	Concrete to VCT / TBD		$4.12	$77.91
Notes	Color/Description: Concrete to VCT Style/Item Name: Concrete to VCT / TBD UnitPrice: 0.00 Unit:				

Continuation For: McCarthy Building Companies Inc, Proposal# 11380

Type	Quantity	Product Description Labor Description	Color / Item # Area	Price	Total

Information

Prefab showers. As per plans and specs

Total

Labor	$8,914.30
Materials	$4,856.00
Contract Total	$13,770.30
Sales Tax	
Grand Total	**$13,770.30**
Deposit Date ____ Ck# ____	

This Proposal is valid for 30 days.

EXCLUDES: Joint Filler, demolition, furniture moving, major floor prep, floor leveling, concrete grinding, moisture tests, special equipment rental, protection from other trades, dust control, vacuuming, final cleaning, grout/tile sealing, cleaning and waxing of any floor, attic stock, bonding expenses, weekend and/or after hours work, on site dumpster, existing adhesive scraping and all applicable taxes, unless otherwise noted above

Buyer _____ *Date* _____ *Seller* _____ *Date* _____

Proposal

Envision Flooring LLC
21241 N 23rd Ave
Suite 5
Phoenix AZ 85027
623-444-8447 623-594-1809

Proposal# 11381
Customer PO
Contract #
Date 4/6/2021
Sales Person1 Robert Ramsey
Sales Person 2

Acct # 61
For: 480-449-4700 Fax

McCarthy Building Companies Inc
6225 N 24th St #200
Phoenix, AZ 85016-2037

Job Site:

Chander OWRF
Chandler Water Reclamation Facility
Improvements
Chandler, AZ

Type	Quantity	Product Description / Labor Description	Color / Item # / Area	Price	Total
Concrete					
Labor	1373SF	sealed concrete		$0.63	$864.99
Notes	Color/Description: SC-1 Sealed Concrete Style/Item Name: SC-1 Sealed Concrete UnitPrice: 0.00 Unit:				

Information

No Base

ALTERNATE 3- ONLY

Total

Labor	$864.99
Materials	$0.00
Contract Total	$864.99
Sales Tax	
Grand Total	$864.99
Deposit Date Ck#	

This Proposal is valid for 30 days.
EXCLUDES: Joint Filler, demolition, furniture moving, major floor prep, floor leveling, concrete grinding, moisture tests, special equipment rental, protection from other trades, dust control, vacuuming, final cleaning, grout/tile sealing, cleaning and waxing of any floor, attic stock, bonding expenses, weekend and/or after hours work, on site dumpster, existing adhesive scraping and all applicable taxes, unless otherwise noted above

Buyer _____ *Date* _____ *Seller* _____ *Date* _____

Chandler WRF Improvements Project

GMP 2 Work Category Solicited Subcontractors Summary

Work Category: **09C Suspended Acoustical Ceilings**

Subcontractor/Supplier Name	***Status***
Barrett Homes	*Recommended*
T-P Acoustics Inc.	*Proposed*
The Berg Group	*Proposed*
E&K of Phoenix	*Declined*
MKB Construction Inc.	*Declined*
PCI	*Declined*
Sunset Acoustics	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **09C - Suspended Acoustical Ceilings**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Barret-Homes Contractors	Pena Acoustics LLC	T-P Acoustics Inc	E&K of Phoenix	MKB Construction Inc.
		Steve Kraemer	Jose Pena	Kim DeBacco	Barry Sklenar	Cameron Geske
		602-269-2348	623-271-8257	602-390-0452	602-962-6265	602-509-9369
		steve.kraemer@barret-homes.com	jpena@penaacoustics.com	kim@tpacousticsinc.com	barry.sklenar@e-kco.com	cgeske@mkbc.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$6,815**	**$6,972**	**$12,855**	**Declined**	**Declined**
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	Yes	Yes	Yes		
2	Bid Submitted on McCarthy Bid Form	Yes	Yes	Yes		
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	N/A	N/A	N/A		
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing. (The date on the letter provided should be within the last 30 days and the letter should include the status of their line of credit.)	3/31/2021	8/26/2020	5/26/2020		
5	Surety Company	Merchants Bonding Company	Western National Mutual	Western Surety		
6	Surety AM Best Rating (Must be A- or Better)	A	A+	A		
7	AM Best Financial Size X($500M to $750M) or higher	N/A	N/A	N/A		
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	N/A	N/A	N/A		
9	Bond/CDI Cost	1.295%	1.295%	1.295%		
10	Included Insurance Requirements (Per Matrix)	Yes	Yes	Yes		
11	GL Insurance Company Name	Selective Fire and Casualty Company	Union Insurance Co	Hartford Fire Insurance CO		
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	A	A+	A+		
13	PRL Insurance (If required by the Front Ends)	N/A	N/A	N/A		
14	Pollution Insurance (If required by the Front Ends)	N/A	N/A	N/A		
15	Tier 1 Approved	Yes	Yes	Yes		
16	Tier 2 Approved	N/A	N/A	N/A		
17	Safety Items:	Yes	Yes	Yes		
18	OSHA Recordable Incident Rate (Current)	0.93	0.69	4.02 - 2019		
19	Agrees to comply with PPE requirements including 100% glove policy	Yes	Yes	Yes		
20	Acknowledges updated ladder policy (platform ladders)	Yes	Yes	Yes		
21	Task Hazard Analysis included for all tasks	Yes	Yes	Yes		
22	Tie-off above 6' required	Yes	Yes	Yes		
23	Includes Hoisting for Sub's Own Work Scope	Yes	Yes	Yes		
24	Acknowledges Soils Report	N/A	N/A	N/A		
25	Acknowledges Addenda	Yes	Yes	Yes		
26	Hold Bid for 150 Days	Yes	Yes	Yes		
27	Pricing good for the duration of the project	N/A	N/A	N/A		
28	Sales Tax Included	No	No	No		
29	**COVID-19 Market Questions**					
30	How has your workprogram been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No	No	No		
31	Have you had any future work oppurtunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No	No	No		
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No	No		
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No	No	No		
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No	No		
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No	No	No		
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No	No	No		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **09C - Suspended Acoustical Ceilings**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Barret-Homes Contractors	Pena Acoustics LLC	T-P Acoustics Inc	E&K of Phoenix	MKB Construction Inc.
		Steve Kraemer	Jose Pena	Kim DeBacco	Barry Sklenar	Cameron Geske
		602-269-2348	623-271-8257	602-390-0452	602-962-6265	602-509-9369
		steve.kraemer@barret-homes.com	jpena@penaacoustics.com	kim@tpacousticsinc.com	barry.sklenar@e-kco.com	cgeske@mkbc.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$6,815**	**$6,972**	**$12,855**	**Declined**	**Declined**
37	Do you have any overseas suppliers that may be impeding your supply chain?	No	No	No		
38						
39	Per Plans & Specifications	Yes	Yes	Yes		
40	Division 1 as it relates to this scope of work	Yes	Yes	Yes		
41	09511 Acoustical Ceilings	Yes	Yes	Yes		
Scope of Work						
Base Bid:		$5,528	$5,683	$7,095		
42	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 09C - Suspended Acoustical Ceilings, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	Yes	Yes		
43	Check to Spec completed and submitted to McCarthy	Yes	Yes	Yes		
44	1 year warranty from Final Acceptance (Aug 2023)	Yes	Yes	Yes		
45	**Airport WRF Maintenance Building**					
46	Acoustical Ceiling Furnish and Install complete per Finish schedule on drawing A-1.88 inclusive of Rooms 101, 102, 103, 104, 105 & 106	Yes	Yes	Yes		
47	Coordinate with Work Category 09A	Yes	Yes	Yes		
47	Shipping shall be FOB jobsite	Yes	Yes	Yes		
48	Safety	Yes	Yes	$4,560		
48	Drop/touchup & QC touchups	$1,200	$1,200	$1,200		
49	Unloading & storage	Yes	Yes	Yes		
50	COVID-19 Scope Items					
51	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes	Yes	Yes		
52	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes	Yes	Yes		
53	All personnel onsite must maintain 6'0" spacing between personel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes	Yes	Yes		
54	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes	Yes	Yes		
55	All tools and equipment used must be sanitzed each day.	Yes	Yes	Yes		
56	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes	Yes	Yes		
57	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes	Yes	Yes		
58	Personnel are not allowed to carpool to the site or while onsite.	Yes	Yes	Yes		
59	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the apropriate testing and quarantine protocols.	Yes	Yes	Yes		
60						
61	End of Scope					
62	Bond/CDI Cost	$87	$89	$0		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$6,815**	**$6,972**	**$12,855**		

BID PROPOSAL

Date 4/5/21

Bid Proposal of * Barrett-Homes Contractors (hereinafter called "Bidder")

a ** Corporation organized and existing under the laws of the State of AZ.

* Insert name of firm.
** Insert corporation, partnership, or individual, as applicable.

(INSERT OWNER'S ADDRESS)
TO: McCarthy Building Companies, Inc.
6225 North 24th Street, Suite 200
Phoenix, Arizona 85016

The Bidder, in compliance with your Invitation for Bids for the construction of Chandler Water Reclamation Facility Improvements having examined the Contract Documents entitled City of Chandler, Chandler WRF Improvements Project, and other related documents and being familiar with the site of the proposed work, and with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, and the progress of work to date, if any, hereby proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, perform all work, provide all services, and to construct all work in accordance with the Contract Documents set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required.

The Bidder shall attach a copy of Bidders' detailed estimate to its Bid Proposal. This estimate shall identify all quantities shown in the documents or anticipated along with corresponding labor, material and equipment pricing.

After Bid Proposals are received, tabulated, and evaluated by McCarthy, said Bidder agrees to meet with McCarthy for the purpose of determining any duplications, omissions, or mutually agreed bid adjustments. For these meetings, the Bidder agrees to provide a complete, detailed cost breakdown; a list of all sub-subcontractors proposed for use in the work; and a list of all items, materials and their manufacturers proposed for use in the work.

The Bidder, if awarded a Subcontract, agrees to commence work and to fully complete its Work in accordance with a schedule to be established in collaboration with McCarthy under the provisions of the Additional Subcontractor Conditions of the Specifications.

The Bidder acknowledges receipt of the following Addenda: #1-3.

BASE BID:

The Bidder agrees to perform all Acoustical Ceilings (herein insert the title of the Work Category as it appears in the Additional Subcontractor Conditions) Work for Work Category No. 9C, as described in the Contract Documents, for the Lump Sum of Five Thousand Five Hundred and twenty eight DOLLARS ($ 5,528.00).

BID BREAKDOWN:

Airport WRF Total Amount $_____

- Aeration Basin $_____.
- Blower Piping $_____.
- Blower Ductbank $_____.
- Filters $_____.
- Maintenance Bldg $_____.

Ocotillo WRF Total Amount $_____

- Aeration/Anoxic $_____.
- RAS/WAS PS $_____.
- Clarifiers 1& 2 $_____.
- Filters $_____..
- MCC Replacement $_____..
- Reservoir $_____..
- Roads/Sitework $_____..

~~Sludge Holding/Blwr Bldg $_____.~~

Performance & Payment Bond Cost *(If Applicable)* $_____

Total Subcontract Amount $_____

The name of the proposed Bonding Company is Merchants Bonding Co. (Mutual)

Bond rate 1.5 %

All applicable taxes, except sales and use taxes on materials and equipment which are affixed and made a part of the real estate of the Project, are included in the above Base Bid. Bidder agrees that this Bid Proposal shall be good and may not be withdrawn unless McCarthy does not send Bidder a Subcontract within one hundred twenty (160) calendar days after the opening date of Bid Proposals.

(Amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

ALTERNATES:

The Bidder further agrees that if any or all of the Alternates listed and described below are incorporated and accepted within sixty (60) calendar days after receipt of a Subcontract from McCarthy, the Bidder will adjust its Subcontract by the amount indicated opposite the Alternates listed below.

ALTERNATE NO. 1: Filter Disc in Basin 7 Installation:

ADD the sum of $_____.

ALTERNATE NO. 2: Clarifier 3 Rehabilitation

ADD the sum of $_____.

ALTERNATE NO. 3: Sludge Holding Tank and Blower Bldg No. 2

ADD the sum of $_____.

ALTERNATE NO. 4: Removal/Replacement of Diffusers in 2 Aeration Basins

ADD the sum of $_____.

ALTERNATE NO. 5:_____

ADD the sum of $_____.

CHANGE ORDER RATES: (Add separate sheet as needed)

Markup % (on rates and material): _____.

Position: _____ Rate: _____.

Position: _____ Rate: _____.

Equipment: _____ Rate: _____.

Equipment: _____ Rate: _____.

SAFETY RECORDS

The Bidder certifies to the following Experience Modification Rates (EMR) and Incidence Rates for the three (3) most recent years:

	Year 2018	Year 2019	Year 2020
1. Compensation Experience Modification Rate:	.67	.65	.93
2. Incidence Rate:			
(a) Number of hours employees worked in the year.	142,498	121,855	108,532
(b) Number of cases defined as recordable, from the OSHA Form 300 Log.	1	1	0
(c) Total Recordable Incidence Rate =	1.4	1.6	0

(b) x (200,000 hours)
Hours Worked (a)

The Bidder understands that McCarthy reserves the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

SELECT AS APPROPRIATE

☐ The Bidder has completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program; OR

☐ The Bidder has not completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program because the Bidder has provided the Form and all such information to McCarthy in the past 12 months for the following project:

Completed online 3/30/21 Project, which bid on: _____.

RESPONSIVE BID REQUIREMENTS:

DO NOT ENCLOSE YOUR STANDARD TERMS AND CONDITIONS

If any exceptions are taken to the requirements of this Proposal form, attach a separate sheet listing those exceptions, stating the sections and paragraphs and the specific exception.	(initials)
In submitting this proposal, the Bidder certifies that this bid is valid for 150 calendar days.	(initials)
In submitting this Proposal as described herein, we agree to complete the work in accordance with the included Preliminary Construction Sequence.	(initials)
In submitting this Proposal, the Bidder certifies that all cost for extended warranties to start on the date of Substantial Completion is included.	(initials)
In submitting this proposal as described herein, we confirm that we have received, reviewed and agree to all commercial terms stated in the McCarthy Subcontract and Purchase Order Agreement. Any exception taken to the commercial terms stated in these Agreements must be listed on a separate sheet noting the article or paragraph and the specific exception. ***Bidders attached Standard Terms and Conditions will not be acknowledged or accepted as part of any given bid.***	(initials)
In submitting this proposal as described herein, the Bidder certifies that this bid is coordinated based on a complete set of documents and that there will be no claims for change order based on the assertion that the Bidder did not have a complete set of Bidding Documents.	(initials)
In submitting this proposal, the Bidder certifies that they have included all spare parts, training, O & M Manuals, shop drawings and administration costs as associated to comply with the requirements of the specifications and as listed for their scope of work.	(initials)
A bid will be considered non-responsive if the Subcontractor Pre-Qualification Form is not completed as part of the Bid Form **(or on file at McCarthy office)**.	(initials)
The Bidder, by submitting their bid, represents that they have read and understand the scope requirements of the Bidding Documents.	(initials)
The Bidder certifies that any proposed materials in this scope of work meet or exceeds the requirements stated in the specifications unless noted otherwise within this proposal.	(initials)

The bidder certifies that the price listed in this bid is a firm Price through the final delivery of the materials proposed herein, and that no material escalation will be accepted as part of this proposal.	SK (initials)

Within fifteen (10) days after receipt by the Bidder from McCarthy of the Subcontract or Purchase Order, the Bidder will execute and return to McCarthy said Subcontract or Purchase Order and if notified from McCarthy that Bidder is not to be enrolled in McCarthy's Contractor Default Insurance Program, deliver to McCarthy Performance and Labor and Material Payment Bonds for the Subcontract or a Supply Contract Bond for the Purchase Order, or the difference between the amount of the bid and such larger amount for which McCarthy may subcontract with another party to perform the work covered by said bid, together with all court costs, all attorney fees and all other expense of recovery, all of which shall not exceed the Bid Security attached in the amount of 15% of the bid, will become the property of McCarthy. The bonds shall name McCarthy as Obligee.

If an Individual:

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Partnership:

Authorized Signature: _____

Name (print): _____

Email: _____

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Corporation:

Authorized Signature: Steve Kraemer

Name (print): Steve Kraemer

Email: Steve.Kraemer@Barrett-Homes.com

Title: Project Manager

Business Address: PO Box 27310

Phoenix, AZ 85061

Telephone 602-269-2348

Contractor License Number: 069958

General Liability Insurance Carrier (not the agent): Selective Insurance

*Please attach a sample certificate of insurance and current W9 form to your bid.

Barrett-Homes Contractors
P.O. Box 27310
Phoenix, AZ 85061-7310
Phone: 602-269-2348
Fax: 602-269-0844

Serving Arizona Since 1950

Licenses
ROC070687
ROC069958
ROC069959
ROC072334

"Bid Proposal"

Date:	**4/5/2021**
Company:	**McCarthy Construction**
Attention:	**Estimating**
Job Name:	**Chandler WRF Improvements**
From:	Steve Kraemer
Plans Dated:	**3/2021**
Addendum Seen:	**0**
Delta #:	**0**
Section/Work Scope:	Acoustical Ceilings

Base Bid: **$5,528.00**

Base Bid Qualifications:

- Furnish and install Armstrong 15/16 steel white grid with 2x4 # 815 Fissured tegular tile as ACT-1 shown on A-1.83.
- Includes installation per local code for seismic design category B as listed in the structural notes.
- Project designated as new construction with a signed 5005 form exempting the subcontractor from the TPT tax.

2 each 12-gauge slack wires at lights are included for 2x4' recessed lights only. These wires are to be tied to the lights by others.

*This bid is good for 30 days.
BHC Bid #:233

BHC Standard Exclusions: Seismic bracing for Zones C, D or E, Lateral Bracing, 45-degree splay wires, Compression Posts, Perimeter Wires, Sales Tax, Payment/Performance Bond & Permits.

Project Specific Exclusions: Insulation to be by others. Any and all wall treatments.

The above is based upon the utilization of a mutually agreeable contract

Chandler WRF Improvements Project
GMP 2 Work Category Solicited Subcontractors Summary
Work Category: **09E - Painting and Coatings**

Subcontractor/Supplier Name	***Status***
Penington Painting Company	*Recommended*
Revolution Industrial	*Proposed*
AIMS	*Proposed*
Murphy Industrial Coating	*Declined*
PPS	*Declined*
A-O Painting	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: 09E - Paintings and Coatings

GMP Date: 5/4/2021 Rev 6/21/2021

Recommended

	COMPANY INFORMATION	PPC	Revolution Industrial	AIMS	Murphy Industrial Coating	PPS
		Craig Paris	Don Smith	Tim Wilcox	Gilles Bussieres	Tony Bodzioney
		480-588-7751	480-347-5065	480-486-9365	480-981-0185	480-825-2413
		craigp@teamppc.com	dsmith@revolutionindustrial.com	twilcox@aimscompanies.com	gilles@murphy.ac	tbodz@ppsphx.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$347,253**	**$420,473**	**$858,178**	**Declined**	**Declined**
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	Yes	Yes	Yes		
2	Bid Submitted on McCarthy Bid Form	Yes	Yes	Yes		
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	Yes	Yes	Yes		
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing.	Yes	Yes	No		
5	Surety Company	North American	Old Republic	Argonaut		
6	Surety AM Best Rating (Must be A- or Better)	A+	A+	A-		
7	AM Best Financial Size X($500M to $750M) or higher	Yes	Yes	Yes		
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	Yes	Yes	Yes		
9	Bond/CDI Cost	2.000%	1.440%	2.000%		
10	Included Insurance Requirements (Per Matrix)	Yes	Yes	Yes		
11	GL Insurance Company Name	First Liberty	StarNet	Amerisure		
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	A	A+	A		
13	PRL Insurance (If required by the Front Ends)	No	No	No		
14	Pollution Insurance (If required by the Front Ends)	Yes	Yes	Yes		
15	Tier 1 Approved	Approved	Submitted	Draft		
16	Tier 2 Approved	N/A	N/A	N/A		
17	Safety Items:	Yes	Yes	Yes		
18	OSHA Recordable Incident Rate (Current)	0.61	0.00	.45		
19	Agrees to comply with PPE requirements including 100% glove policy	Yes	Yes	Yes		
20	Acknowledges updated ladder policy (platform ladders)	Yes	Yes	Yes		
21	Task Hazard Analysis included for all tasks	Yes	Yes	Yes		
22	Tie-off above 6' required	Yes	Yes	Yes		
23	Includes Hoisting for Sub's Own Work Scope	Yes	Yes	No		
24	Acknowledges Soils Report	N/A	N/A	N/A		
25	Acknowledges Addenda	Yes	Yes	Yes		
26	Hold Bid for 150 Days	Yes	Yes	Yes		
27	Pricing good for the duration of the project	Yes	Yes	Yes		
28	Sales Tax Included	N/A	N/A	N/A		
29	**COVID-19 Market Questions**					
30	How has your work program been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No	No	0%		
31	Have you had any future work opportunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No	No	0%		
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No	No		
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No	No	No		
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No	No		
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No	No	No		
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	Yes - there is a national epoxy raw supply shortage	No	No		
37	Do you have any overseas suppliers that may be impeding your supply chain?	Yes - see above	No	No		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **09E - Paintings and Coatings**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	PPC	Revolution Industrial	AIMS	Murphy Industrial Coating	PPS
		Craig Paris	Don Smith	Tim Wilcox	Gilles Bussieres	Tony Bodzioney
		480-588-7751	480-347-5065	480-486-9365	480-981-0185	480-825-2413
		craigp@teamppc.com	dsmith@revolutionindustrial.com	twilcox@aimscompanies.com	gilles@murphy.ac	tbodz@ppsphx.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$347,253**	**$420,473**	**$858,178**	**Declined**	**Declined**
38						
39	Per Plans & Specifications	Yes	Yes	Yes		
40	Division 1 as it relates to this scope of work	Yes	Yes	Yes		
41	Spec Section 09900	Yes	Yes	Yes		
42	Spec Section 09900.1	Yes	Yes	Yes		
43	Spec Section 09920	By WC 02B	By WC 02B	By WC 02B		
44	Spec Section 09921	Yes	Yes	Yes		
Scope of Work						
Base Bid:		$265,552	$400,287	$786,821		
45	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 09E - Painting and Coatings in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	Yes	Yes		
46	Check to Spec completed and submitted to McCarthy	N/A	N/A	N/A		
47	1 year warranty from Final Acceptance (Aug 2023)	Yes	Yes	Yes		
48	Surface Preparation and Coatings as required in 09900.	Yes	Yes	Yes		
49	Areas to be Coated but are not limited to:	Yes	Yes	Yes		
50	All exposed process mechanical piping (Excluding SS, Bronze and High Temp Pipe)	Yes	Yes	Yes		
51	Exterior/Interior Doors and Frames	Yes	Yes	Yes		
52	Exposed CMU- Interior (AWRF- Blower Building CMU patches)	Yes	Yes	Yes- only some		
53	Exposed Structural Steel	Yes	Yes	Yes		
54	AWRF- Maintenance Bldg. Steel/Bridge Crane beams	Yes	Yes	Yes		
55	AWRF- Filters Monorail Steel	Yes	Yes	No		
56	AWRF- Touchup at Filters existing Canopy	Yes	Yes	No		
57	AWRF/OWRF- Pipe Supports	$12,960	Yes	Yes		
58	OWRF- Filter Canopy and Monorail	Yes	Yes	No		
59	Sprinkler Fire Pipe , including Primer	$20,770	$24,345	$19,500		
60	RAS WAS floor prep and coatings during 2 month shut down	Yes	Yes	Yes		
61	Architectural finishes at AWRF- Maintenance Bldg.	Yes	Yes	Yes		
62	Electrical Conduit	Yes	No	Yes		
63	HVAC ductwork	Yes	No	Yes		
64	Bollards	Yes	Yes	Yes		
65	Clarifier 1 & 2 Walkway Beams	Yes	Yes	Yes		
66	Multiple Mobilizations	Yes	Yes	3 Only		
67	AWRF- Maintenance Bldg. Under Deck Coating	N/A	-$45,158	N/A		
68	Concrete Surface Prep where coating are to be applied	Yes	Yes	Yes- Standard only		
69	Temp protection and enclosure of work area	Yes	Yes	Yes		
70	Cleaning and Prep prior to coating	Yes	Yes	Some		
71	Tlock repair at Manhole tie in	$2,373	$2,373	$2,373		
72	Vapor Barrier for RAS WAS floor	$6,132	No	No		
73	Inspections of all items primed by others	Yes	No	Yes		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **09E - Paintings and Coatings**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	PPC	Revolution Industrial	AIMS	Murphy Industrial Coating	PPS
		Craig Paris	Don Smith	Tim Wilcox	Gilles Bussieres	Tony Bodzioney
		480-588-7751	480-347-5065	480-486-9365	480-981-0185	480-825-2413
		craigp@teamppc.com	dsmith@revolutionindustrial.com	twilcox@aimscompanies.com	gilles@murphy.ac	tbodz@ppsphx.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$347,253**	**$420,473**	**$858,178**	**Declined**	**Declined**
74	Provide floor protection and cleanup required for this scope of work	Yes	Yes	Yes		
75	Mock ups as a part of work	Yes	Yes	Yes		
76	Pipe Identification Markers	Yes	Yes	No		
77	Manholes per Spec 09920	By WC 02B	By WC 02B	By WC 02B		
78	Independent 3rd Party NACE Inspections	$7,125	$7,125	$7,125		
79	Touch up prior to Final turn over	Yes	Yes	No		
80	After hours work	$10,532	$10,532	$10,532		
81	Repair of Shop Coatings done by T&M	Yes	No	No		
82	Additional surface preparation	$15,000	$15,000	$15,000		
83	Coating Manufacture	Tnemec and PPG	?	Tnemec		
84	COVID-19 Scope Items					
85	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes	Yes	Yes		
86	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes	Yes	Yes		
87	All personnel onsite must maintain 6'0" spacing between personnel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes	Yes	Yes		
88	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes	Yes	Yes		
89	All tools and equipment used must be sanitized each day.	Yes	Yes	Yes		
90	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes	Yes	Yes		
91	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes	Yes	Yes		
92	Personnel are not allowed to carpool to the site or while onsite.	Yes	Yes	Yes		
93	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the appropriate testing and quarantine protocols.	Yes	Yes	Yes		
94						
95	Alternate Price: Blasting/Repriming all pre-primed units (Not included in total above)	$300,000	$300,000	$300,000		
96	Alternate Price: Slope RAS/WAS prior to coatings (Not in Total)	$19,414	$19,414	$19,414		
97	End of Scope					
98	Bond/CDI Cost	$6,809	$5,969	$16,827		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$347,253**	**$420,473**	**$858,178**		

Penington Painting Company

SOUTHWEST REGION
6313 West Commonwealth Place
Chandler, Arizona 85226

NORTHWEST REGION
22757 72nd Ave. South E-100
Kent, WA 98032

TOLL FREE: 844-209-5149
FAX: 844-209-5150
teamppc.com

PROPOSAL (R1)

To:	MCCARTH□ BUILDING COMPANIES	Date:	April 21, 2021
Attention:	Nicole Azuri	Office:	Industrial
Address:	6225 N. 24th Street Phoenix, AZ 85016		

JOB NAME	JOB ADDRESS
City of Chandler WRF No. W1901.201	Multiple Locations, Chandler, AZ

PROPOSAL SUMMARY	AMOUNT
09900 Painting:	265,552

Base Bid Amount	265,552
Alternates	
Add Alt. No. 1: Filter Disc in Basin 7	4,082
Add Alt. No. 2: Clarifier 3 Non-Submerged Steel	4,346
Add Alt. No. 3: Sludge Holding Tanks and Blower Bldg. No. 2	41,595
Add Alt. No. 4: Removal/Replacement of Diffusers in 2 Aeration Basins	0
Add Alt. No. 5: Sloping of RAS floor to drain prior to 09921 Resinous Flooring	19,414
Add Alt. No. 6: Coating large air blower and OWRF Aerations basin pipe supports	12,960
Add Alt. No. 7: Prime and paint fire suppression piping at Maintenance Building	20,770
Add Alt. No. 8: Prime and paint fire suppression piping at Sludge Holding Blower Building	5,027
Total □□□□□□	**$373,746**

Thank you for your interest in ***Penington Painting Company*** for your painting □ coating needs. We are pleased to present the following bid for ***City of Chandler WRF No. W1901.201,*** based on plans and specifications dated ***March 2021,*** and subject to the following inclusions, exclusions and qualifications:

INCLUSIONS

1 Interior/exterior painting per plans and specs
2 Painting and labeling of all piping (blasting and priming of above ground piping by others)
3 Intermediate and topcoats of all new steel (Blasting and priming by others)
4 Architectural painting
5 09921 Resinous Flooring

EXCLUSIONS

1 Blasting and painting of all Clarifier submerged materials per □□A #32
2 Intermediate and topcoats of PEMB steel structure, all to be shop primed per □□A #73
3 Specification 09920 in its entirety
4 Touch-up of trade damage

QUALIFICATIONS

1 This proposal is valid for 150 days from the above date
2 Payments for completed work shall conform to all Arizona Prompt Payment Statues

Please contact me directly with any questions or further clarification you may need. Thank you again and we look forward to the possibility of becoming a member of your team and part of the successful completion of the City of Chandler WRF No. W1901.201 project.

Sincerely,

Craig Paris

□ice President Craigp@TeamPPC.com

6313 W. Commonwealth Place, Chandler, AZ 85226□Main: 480-588-7751□www.TeamPPC.com□ROC202733

Leading our industry SINCE 2004

Chandler WRF Improvements Project

GMP 2 Work Category Solicited Subcontractors Summary

Work Category: **10A Identification Devices & Misc. Specialties**

Subcontractor/Supplier Name	***Status***
Mobile Fire Extinguishers Inc.	*Proposed*
Norcon Industries Inc.	*Proposed*
Beach Products	*Proposed*
Ind. Corrosion Products	*Proposed*
Fastsigns Goodyear	*Proposed*
PCI	*Proposed*
Sunset Acoustics	*Proposed*
AIS Industrial Supply	*Proposed*
Arizona Warehouse Equipment	*Proposed*
Bird Barrier	*Proposed*
Freedom Showers	*Proposed*
IAC Acoustics Inc	*Proposed*
MH Storage	*Proposed*
Grainger	*Proposed*
McMaster Carr	*Proposed*
Eckel Sound Wall Panels	*Proposed*
Partitions and Accessories	*Declined*
Busy Blinds LLC	*Declined*
Interstate Interior Systems Inc	*Declined*
Mountain State Specialities	*Declined*
Penco Products	*Declined*
Trademark Visual	*Declined*
Dave Scott & Associates	*Declined*
Inter-Co Inc.	*Declined*
Sierra Sign & Service Inc.	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: 10A - Identification Devices & Misc. Specialities

GMP Date: 5/4/2021 Rev 6/21/2021

Recommended

	COMPANY INFORMATION	Misc. Vendors				
	TOTAL WORK CATEGORY PACKAGE VALUE	**$99,901**	**$0**	**$0**	**$0**	**$0**
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	Yes				
2	Bid Submitted on McCarthy Bid Form	No				
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	N/A				
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing.	N/A				
5	Surety Company	N/A				
6	Surety AM Best Rating (Must be A- or Better)	N/A				
7	AM Best Financial Size X($500M to $750M) or higher	N/A				
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	N/A				
9	Bond/CDI Cost	1.295%				
10	Included Insurance Requirements (Per Matrix)	N/A				
11	GL Insurance Company Name	N/A				
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	N/A				
13	PRL Insurance (If required by the Front Ends)	N/A				
14	Pollution Insurance (If required by the Front Ends)	N/A				
15	Tier 1 Approved	N/A				
16	Tier 2 Approved	N/A				
17	Safety Items:	Yes				
18	OSHA Recordable Incident Rate (Current)	N/A				
19	Agrees to comply with PPE requirements including 100% glove policy	Yes				
20	Acknowledges updated ladder policy (platform ladders)	Yes				
21	Task Hazard Analysis included for all tasks	Yes				
22	Tie-off above 6' required	Yes				
23	Includes Hoisting for Sub's Own Work Scope	Yes				
24	Acknowledges Soils Report	Yes				
25	Acknowledges Addenda	Yes				
26	Hold Bid for 150 Days	Yes				
27	Pricing good for the duration of the project	Yes				
28	Sales Tax Included	Yes				
29	**COVID-19 Market Questions**					
30	How has your workprogram been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No				
31	Have you had any future work oppurtunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No				
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No				
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No				
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No				
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No				
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No				
37	Do you have any overseas suppliers that may be impeding your supply chain?	No				
38						

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: 10A - Identification Devices & Misc. Specialities

GMP Date: 5/4/2021 Rev 6/21/2021

Recommended

	COMPANY INFORMATION	**Misc. Vendors**				
	TOTAL WORK CATEGORY PACKAGE VALUE	**$99,901**	**$0**	**$0**	**$0**	**$0**
39	Per Plans & Specifications	Yes				
40	Division 1 as it relates to this scope of work	Yes				
41	10400 - Equipment Identification Plates	Yes				
42	10425 - Signs	Yes				
43	10511 - Metal Lockers	Yes				
44	10523 - Fire Protection Specialties	Yes				
45	10670 - Metal Storage Shelving	Yes				
46	10800 - Toilet, Bath and Laundry Accessories	Yes				
44	10825 - Plastic Dust Curtains	Yes				
45	11301 - Residential Appliances	Yes				
46	12492 - Horizontal Louver Blinds	Yes				
Scope of Work						
Base Bid:		$81,964				
48	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 10A - Identification Devices & Misc. Specialities, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes				
49	Check to Spec completed and submitted to McCarthy	Yes				
50	1 year warranty from Final Acceptance (Aug 2023)	Yes				
51	**Ocotillo WRF Site**					
52	50 Warning type signs per Section 10400 - Ocotillo and Airport combined	Yes				
53	**Airport WRF Maintenance Building**					
54	Signs per specs	Yes				
55	Eagle Eye bird control device with four propeller bird deterent locations	Yes				
56	Fire-Extinguishers - Qty 3	Yes				
57	Storage Room 114 - Storage Racks 4'x8'x10' - Qty 17	Yes				
58	Storage Room 114 - Storage Racks 4'x6'x10' - Qty 4	Yes				
59	Dust Curtain 12'x12' between Workshop area and Storage room 114	Yes				
60	PPE Cabinets as shown on drawing A-1.82 in Workshop Area 112 on East Wall	Yes				
61	Metal Lockers in Rooms 107 & 109 per plans and specs	By Owner				
62	Locker Room 107 & 109 Benches	By Owner				
63	Mens Restroom Bathroom Accessories including Lavatory Mirror, Paper tower dispenser, Water closet grab bars, shower grab bars & Toilet paper dispenser, soap dispenser, seat cover dispenser	Yes				
64	Womens Restroom Bathroom Accessories including Lavatory Mirror, Paper tower dispenser, Water closet grab bars, shower grab bars & Toilet paper dispenser, soap dispenser, seat cover dispenser	Yes				
64	Shower Stall Insert Kits - Shower Plumbing items by others	Yes				
65	Kitchen Appliances per section 11301 in Room 102 including Refrigerator, Ice Maker and Microwave	By Owner				
65	Storage Racks in Room M02 - 1'x3'x6' - Qty 21	Yes				
66	Chain Link Ceiling Grid Tool Room	Yes				
66	Horizontal Slat style Louver Blinds for Windows W01 through W06	Yes				
66	115 V Cord Reel Drops	Yes				

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **10A - Identification Devices & Misc. Specialities**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Misc. Vendors				
	TOTAL WORK CATEGORY PACKAGE VALUE	**$99,901**	**$0**	**$0**	**$0**	**$0**
67	Splash Blocks	Yes				
67	Shipping shall be FOB jobsite	Yes				
67	Unloading & storage	Yes				
68	Escalation	$12,295				
68	Preventative maintenance & Final Clean	$4,365				
68	Spare Parts per the Specifications	Yes				
69	COVID-19 Scope Items					
69	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes				
69	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes				
70	All personnel onsite must maintain 6'0" spacing between personel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes				
71	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes				
72	All tools and equipment used must be sanitzed each day.	Yes				
73	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes				
74	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes				
75	Personnel are not allowed to carpool to the site or while onsite.	Yes				
76	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the apropriate testing and quarantine protocols.	Yes				
77						
78	End of Scope					
79	Bond/CDI Cost	$1,277				
	TOTAL WORK CATEGORY PACKAGE VALUE	**$99,901**				

10A Specialties								
Item Description	Takeoff Qty	Unit	Labor Total $	Material Total $	Equip Total $	Sub Total $	Total $	Sub/Vendor
Shower Insert Kit	1	Ea.	$ 873	$ 3,500			**$ 4,373**	FreedomShowers.com
Mirror	1	Ea.	$ 109			$ 2,775	**$ 2,884**	Beach Products
Soap Dispenser	1	Ea.	$ 55				**$ 55**	Beach Products
Toilet Paper Dispenser	1	Ea.	$ 55				**$ 55**	Beach Products
Paper Towel Dispenser	1	Ea.	$ 55				**$ 55**	Beach Products
Grab Bars - WC	3	Ea.	$ 55				**$ 55**	Beach Products
Shower Insert Kit	1	Ea.	$ 873	$ 3,500			**$ 4,373**	FreedomShowers.com
Mirror	1	Ea.	$ 109				**$ 109**	Beach Products
Soap Dispenser	1	Ea.	$ 55				**$ 55**	Beach Products
Toilet Paper Dispenser	1	Ea.	$ 55				**$ 55**	Beach Products
Paper Towel Dispenser	1	Ea.	$ 55				**$ 55**	Beach Products
Grab Bars - WC	3	Ea.	$ 109				**$ 109**	Beach Products
Bench	1	Ea.	$ -	$ -			**$ -**	Owner F&I
Lockers	10	Ea.	$ -	$ -			**$ -**	Owner F&I
Bench	1	Ea.	$ -	$ -			**$ -**	Owner F&I
Lockers	10	Ea.	$ -	$ -			**$ -**	Owner F&I
Microwave	1	Ea.	$ -	$ -			**$ -**	Owner F&I
Icemaker	1	Ea.	$ -	$ -			**$ -**	Owner F&I
Refrigerator	1	Ea.	$ -	$ -			**$ -**	Owner F&I
Louver type Window Blinds	6	Ea.	$ 55			$ 1,092	**$ 1,147**	Floorever Interiors
1'x3'x'6' Storage Racks	23	Ea.	$ 218			$ 14,360	**$ 14,578**	Arizona Warehouse Equipment
Chain Link Ceiling Grid	140	Ea.	$ 873	$ 3,704			**$ 4,577**	McMaster Carr
PPE Cabinets	6	Ea.	$ 328				**$ 328**	Arizona Warehouse Equipment
2A-20BC Fire Extinguishers	2	Ea.	$ 109	$ 214			**$ 323**	Mobile Fire Extinguishers
115 Volt Cord Reel Drops	2	Ea.	$ 109	$ 1,090			**$ 1,200**	Grainger
Dust Curtain - 12'x12'	1	Ea.	$ 655	$ 1,540			**$ 2,195**	Industrial Corrosion Products
2A-20BC Fire Extinguisher	1	Ea.	$ 109	$ 107			**$ 216**	Mobile Fire Extinguishers
4'x8'x10' Storage Racks	17	Ea.	$ 2,184	$ 14,234			**$ 16,418**	Material Handling and Storage Inc.
4'x6'x10' Storage Racks	4	Ea.	$ 873				**$ 873**	
Eagle Eye Bird Devices	2	Ea.	$ 437	$ 876			**$ 1,312**	Eagle Eye
Eagle Pro-Peller Bird scare devices	4	Ea.	$ 437	$ -			**$ 437**	Eagle Eye
Splash Blocks	4	Ea.	$ 218	$ 200			**$ 418**	Lowes/Home Depot
Room and Exit Signs	17	Ea.	$ 873	$ 4,786			**$ 5,659**	Good Year/Grainger
Both OWRF & AWRF Site and Entrance	59	Ea.	$ 6,551	$ 13,500			**$ 20,051**	Good Year/Grainger
TOTAL	**329**		**$ 16,486**	**$ 47,251**			**$ 81,964**	

Freedom ADA Roll-In Shower 62" x 32"



Model APF6232BF5PLR

62 7/16" x 32 1/4" x 79"

5-piece for remodeling

1" barrier free threshold with pre-leveled and reinforced shower base for easy installation

1 molded soap/foot ledge

Durable, luxurious and easy to clean applied acrylic with tile pattern

Fully reinforced backing in walls offers strength and easy installation of accessories

Accessories available: Grab bars, folding shower seat, collapsible water retainer, weighted shower curtain and rod, slide bar with handheld shower, pressure balance valve, caulkless drain

Shower shown with available accessories
Shower stall comes standard in white
Made in America

Right drain shown
Lifetime Limited Warranty

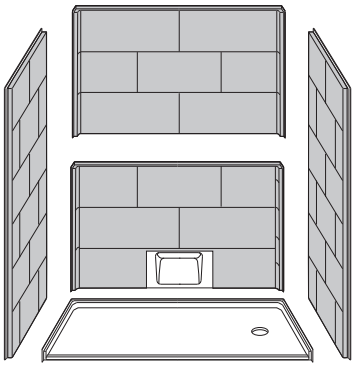
Shower is ADA compliant when installed with available ADAAG accessories.

FREEDOM SHOWERS

MODEL: APF6232BF5PLR
Freedom ADA Roll-In Shower
Submittal Data

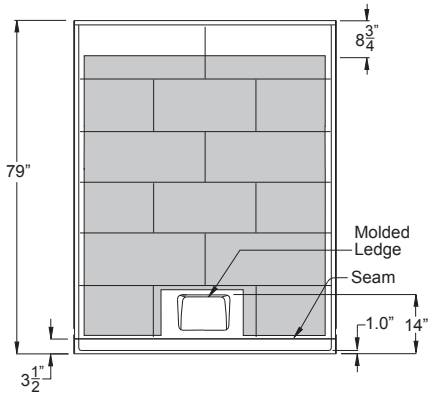
Product Features

- 62 7/16" x 32 1/4" x 79"
- Interior Dimension: 60 1/16" x 74"
- 5-piece for remodeling
- 1" Barrier free threshold with pre-leveled and reinforced shower base for easy installation
- 1 Molded soap/foot ledge
- Fully reinforced backing on walls
- Durable, luxurious and easy to clean applied acrylic with tile pattern
- Textured slip-resistant floor
- Left or right drain location



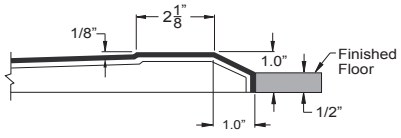
Code Compliance

- ADA
- IPC International Plumbing Code
- UPC Uniform Plumbing Code
- ANSI Z124.2 Standards for Plastic Showers
- NAHB
- HUD
- FHA
- CSA

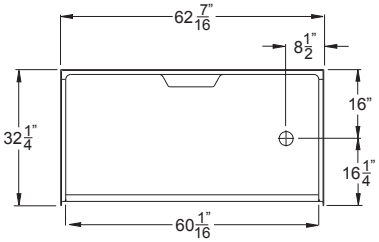


Optional Accessories (Installed at job site)

- Collapsible Water Retainer
- Folding Shower Seat
- Caulkless Drain
- Grab Bars
- Shower Rod and Curtain
- Pressure Balance Valve with hand-held Shower and Slide Bar



THRESHOLD VIEW

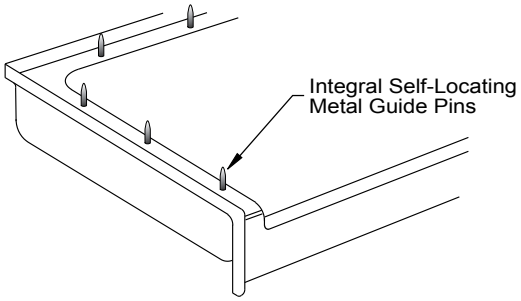


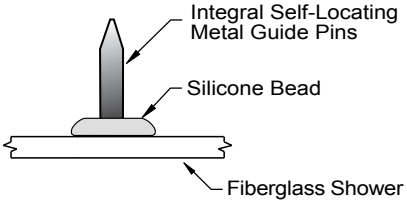
Made in America

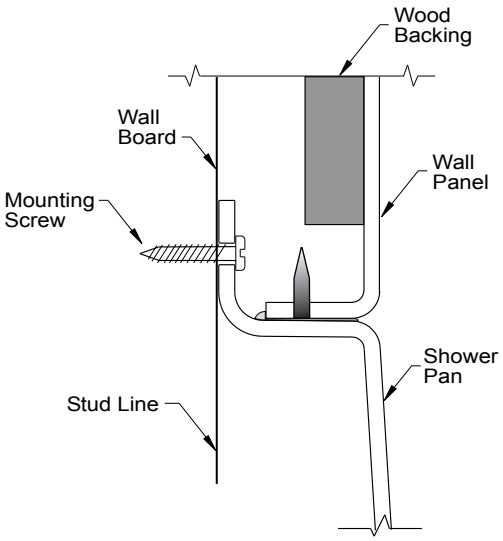
Due to the nature of the materials, dimensions may vary +- 1/2".

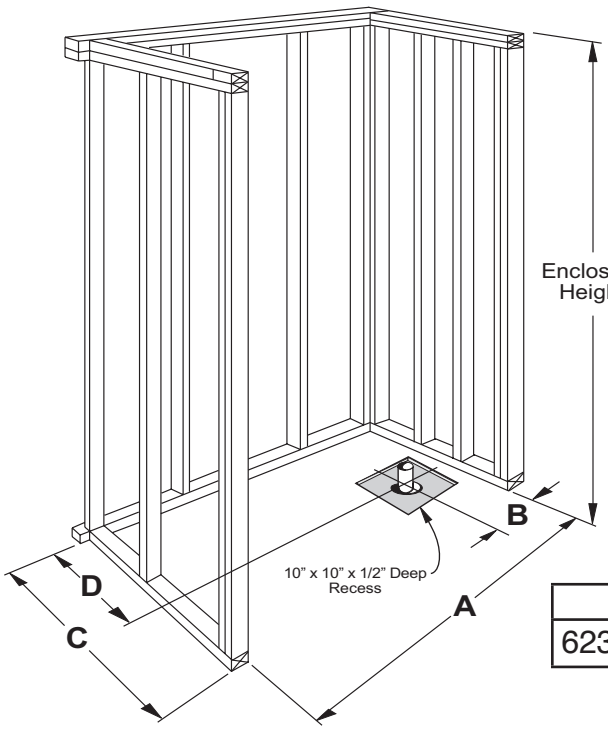
FREEDOM SHOWERS

MODEL: APF6232BF5PLR
Freedom ADA Roll-In Shower
Submittal Data - Installation









	A	B	C	D
6232 5P	62 11/16"	8 9/16"	32 1/4"	16"

Made in America

Due to the nature of the materials, dimensions may vary +- 1/2".

P.O. Box 14468 Phoenix, AZ 85063
Phone (602) 272-6754 • Fax (602) 272-6797
www.beachproductsonline.com

QUOTATION

PROJECT: **CHANDLER WRF**

DATE: 04/07/2021
REF NO. 020054.PB

STANDARD EXCLUSIONS:
Taxes, Bond, Backing, Caulking & Cut-Outs.

ACKNOWLEDGE 4 ADDENDUM

SCOPE OF WORK:

RESTROOM ACCESSORIES

BRADLEY

(2) 812-001 18	GRAB BAR		
(4) 812-001 24	GRAB BAR		
(2) 812-001 36	GRAB BAR		
(2) 812-001 42	GRAB BAR		
(2) 812-001 48	GRAB BAR		
(2) 5263	TOILET PAPER DISP.		
(2) 781 1836	FRAMED MIRROR		
(2) 250-15	TOWEL DISP. (NO WASTE)	**FURNISHED & INSTALLED....**	**$1,010.00**
		ADD TAX....	**$35.51**
		ADD TO INCLUDE (2) RECESSED TOWEL/WASTE IN LIEU OF 250-15 (MODEL 235)....	**$1,630.00**
		ADD TAX....	**$42.39**
		ADD TO INCLUDE (2) SEAT COVER DISPENSERS, MODEL 5831....	**$90.00**
		ADD TAX....	**$1.88**
		ADD TO INCLUDE (1) NAPKIN DISPOSAL, MODEL 4781-11....	**$45.00**
		ADD TAX....	**$1.70**

LOCKERS

PENCO PRODUCTS (STANDARD COLORS)

(10) FRAMES, 12X18X72, DOUBLE TIER, SLOPE HOODS, 4" ZEE BASE, FINISHED ENDS

(2) 42X20 BENCHES WITH PEDESTALS	**FURNISHED & INSTALLED....**	**$5,570.00**
**EXCLUDES BUILT-IN LOCK BOXES	**ADD TAX....**	**$296.27**

FIRE PROTECTION ACCESSORIES

J.L. INDUSTRIES

(3) COS 5E	FIRE EXTINGUISHERS W/ TAGS, RATED 3A-40BC W/ J-HOOKS		
		FURNISHED & INSTALLED....	**$250.00**
		ADD TAX....	**$10.32**

Payment to be made as follows: **NET 30 W/ APPROVED CREDIT**

Note: This proposal may be withdrawn by us if not accepted by: **05/07/2021**

S:\Estimating\Correspondence\Quotes\020054.PB.xls

Authorized Signature *Paul Berry*

Arizona Warehouse Equip.

4570 N Oraibi Pl.
Tucson, AZ 85749

Estimate

Date	Estimate #
4/19/2021	5600

Name / Address
McCarthy Building Companies Craig Nagel 7930 Sante Fe Dr #200 Overland Park KS 66204

Terms	Project

Description	Qty	Rate	Total
New shelving for Mezzanine area (30) beaded front posts (14) Back Angle Posts (16) T posts (30) side sway braces (19 Back sways Braces (117) Extra Heavy Duty Shelves 12x36 (60) foot plates	1	4,200.00	4,200.00T
Installation and assembly for shelving	1	1,280.00	1,280.00
Freight for shelving FOB Apapka FL	1	1,100.00	1,100.00
Dura Tough All-Welded Heavy Duty Combination Cabinet Classic 4 shelves	6	975.00	5,850.00T
Freight FOB Memphis TN	1	1,950.00	1,950.00
Quote is valid for 30 days. Expires 5-20-2021	1	0.00	0.00

Price is valid for 30 days

Subtotal	$14,380.00
Sales Tax (6.1%)	$613.05
Total	$14,993.05

Signature _____

Phone #	Fax #
520-886-8863	

McMASTER-CARR

Quotation

562-692-5911
562-695-2323 (fax)
la.sales@mcmaster.com

McCarthy Building Co Inc
1901 Olinghouse Rd
Wadsworth NV 89442

Quote 67053

Date 4/26/21

Line		Product	Quantity	Available	Price	Total
1	6719T182	Wire Partition, Hinged Door Panel, 10 Feet High x 4 Feet Wd, Swings Left	1 each	today (ships via freight)	395.26 each	395.26
2	6719T165	10 Feet High x 5 Feet Wd Wall Panel for Wire Partition	6 each	today (ships via freight)	169.29 each	1,015.74
3	6719T163	10 Feet High x 3 Feet Wd Wall Panel for Wire Partition	2 each	today (ships via freight)	140.28 each	280.56
4	6719T247	10 Feet High Right-Angle Corner Post for Wire Partition	4 each	today (ships via freight)	36.01 each	144.04
5	6719T262	10 Feet High Line Post for Wire Partition	2 each	today (ships via freight)	80.11 each	160.22
6	6719T155	Wire Partition, Hardware Kit for 10 Feet and 12 Feet High Panel	8 each	today	8.50 each	68.00
7	6719T201	Wire Partition, Shoe	9 each	today	5.88 each	52.92
8	6719T222	6 Feet Top Cap Railing for Wire Partition	7 each	today	23.04 each	161.28
9	6719T761	5 ft x 10 ft Roof Panel for Wire Partition	2 each	today (ships via freight)	195.27 each	390.54
10	6719T117	Wire Partition, Wall Angle for 10 Feet High Complete Partition	4 each	today (ships via freight)	38.46 each	153.84

Merchandise prices good through 5/26/21.

Merchandise $2,822.40

Applicable shipping charges and tax will be added.

Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department.

Mobile Fire Extinguisher, Inc.

610 N. Eckhoff Street
Orange, CA 92868
Phone: 714-940-0771 Fax#: 7149400781
Fed Tax ID: 33-0445577

QUOTATION

#: Q2210401-01

Section: 10523

QUOTE ISSUED TO:

MCCARTHY BUILDING CO., INC.

20401 S.W. BIRCH ST. #300
NEWPORT BEACH CA 92660
Phone#: 949.851.8383 949.756.6841

SHIPPING TO:

CHANDLER WRF IMPROVEMENTS

CHANDLER AZ

In accordance with your request, we are pleased to submit the following quotation subject to the terms and conditions noted below. This quote is good for 60 days from the quote date.

QUOTE DATE	YOUR ORDER #	SECTION	ENTERED BY	PAYMENT TERMS	SHIPPED VIA
4/1/2021		10523	Tyler Sommers-Smith	Net 30 days	UPS

Quantity	Item #	Description	Tax	Price	Amount
6	500	Amerex, 5 lb. 2A10BC UL Rated Fire Extinguisher	☑	$48.50	$291.00
6	BL105	Sign, Fire Extinguisher Inside, Self Adhesive Vinyl, 4"x4" red/white	☑	$3.50	$21.00
6	99G	JL Ind, White, Galvanized Steel, Full Break Acrylic Panel with Cylinder Lock, Classic Series, Surface Mounted Cabinet	☑	$55.00	$330.00

Unless specifically itemized, product installation is not included in the above quotation.

SPECIAL NOTES:

QUOTE IS PER PLAN NOTES AND LOCATIONS.

FURNISH F.O.B. JOBSITE - NO INSTALL.

SUBTOTAL:	**$642.00**
FREIGHT:	$140.00
0.00% TAX:	$0.00
OTHER TAX:	$0.00
OTHER:	$0.00
TOTAL:	**$782.00**

Nagel, Craig

From: Brian Harms <brian@mhstorage.com>
Sent: Friday, April 23, 2021 5:22 PM
To: Nagel, Craig
Subject: Re: Chandler WRF Airport Facility - Maintenance Building - Storage Shelving

Hey Craig,

Here is your budgetary pricing on your pallet rack and shelving requirements:

Materials to make 13 bays 8' wide with 2 beam levels
2 bays 12' wide with 2 beam levels

Pallet Rack manufactured by Hannibal FOB Southern California

QTY 18 Uprights 10' x 42" Deep 14 Gauge All welded frames
QTY 52 8' x 2-1/2" Face 16 Gauge Beams 2,212 lb capacity per pair
QTY 144" x 5" Face 14 Gauge Beams 4,613 lb capacity per pair
QTY 64 Wire Decks 42" Deep x 46" Wide 2,500 lb capacity

Shelving manufactured by Western Pacific FOB Southern California
QTY 21 36" Wide x 12" Deep x 6' Tall Shelving Units with 6 Solid Shelf levels

Total cost for materials Budgetary Price **$11,734**
Freight is additional - billed at cost
Seismic anchors are additional

Once you get further towards constructing the project, we can get the pricing dialed in. I based the pallet rack off quick ship pricing and I imagine
steel should settle down in the next 6 to 8 months.

Let me know if you have any questions.

To your success,

Brian Harms
Material Handling & Storage, Inc.
(480) 773-1118
brian@mhstorage.com

http://www.mhstorage.com

MHS
Material Handling & Storage, Inc.

On Wed, Apr 21, 2021 at 6:30 AM Nagel, Craig <CNagel@mccarthy.com> wrote:

> Brian,
>
> At this time we need to make some assumptions for our pricing.
>
> For the weight figure the heaviest item on a pallet would be a pump motor which could weigh up to 400 lbs.
>
> Let's go with the standard 42" depth and combine the racks around the doorway for a 12' length instead of the 8' and 6'.
>
> Hope that helps answer your questions to get me some budgets this week. We also are submitting these questions to the owner but it may be a few days before they respond.
>
> Email me or call my cell phone if you need anything else to pull together a number for me.
>
> Thanks for your help,

Craig Nagel

Sr. Estimator

McCarthy Building Companies, Inc.
7930 Santa Fe Drive, Suite 200 | Overland Park, KS 66204
Direct: 913-202-7017

Mobile: 913-424-9630

mccarthy.com

LinkedIn | Twitter | Facebook | YouTube

From: Nagel, Craig
Sent: Monday, April 19, 2021 8:56 PM
To: brian@mhstorage.com
Subject: Chandler WRF Airport Facility - Maintenance Building - Storage Shelving

Brian,

Jeff Clarkson gave me your contact information to see if you could provide some pricing for the storage shelves we have at the Chandler Airport WRF project.

There are 4 – 4' deep x 6' wide x 10' tall

19 – 4' x 8' x 10'

23 – 1' x 3' x 6'

Take a look at the specs attached and the layout drawing and give me a call in the morning if you have a few minutes to discuss.

Craig Nagel

Sr. Estimator

McCarthy Building Companies, Inc.
7930 Santa Fe Drive, Suite 200 | Overland Park, KS 66204
Direct: 913-202-7017

Mobile: 913-424-9630

mccarthy.com

LinkedIn | Twitter | Facebook | YouTube

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Airport Water Reclamation Facility (PARTIAL)

McCarthy Building Companies, Inc.
1341 Rock Hill Road
St. Louis, MO 63124
United States

Craig Nagel
Sr. Estimator
cnagel@mccarthy.com
913-202-7017

Reference: 20210330-110825583
Quote created: March 30, 2021
Quote expires: June 28, 2021
Quote created by: Matthew Eargle
matt.eargle@birdbarrier.com

Products & Services

Item & Description	SKU	Quantity	Unit Price	Total
Eagle Eye Wind Kit (Gold) EE-1WS deprecated in favor of EE-1WG	ee-1wg-4	1	$264.05	$264.05
EE Propeller (Silver)	ee-pps-4	6	$96.30	$577.80
Eagle Eye Extension Pole	ee-xp6-4	2	$16.90	$33.80

Subtotals

One-time subtotal	$875.65

Total $875.65

Questions? Contact me

Matthew Eargle
matt.eargle@birdbarrier.com

Bird Barrier America, Inc.
20925 Chico Street
Carson, CA 90746
US

Ocotillo Site (PARTIAL)

McCarthy Building Companies, Inc.
1341 Rock Hill Road
St. Louis, MO 63124
United States

Craig Nagel
Sr. Estimator
cnagel@mccarthy.com
913-202-7017

Reference: 20210330-111228718
Quote created: March 30, 2021
Quote expires: June 28, 2021
Quote created by: Matthew Eargle
matt.eargle@birdbarrier.com

Products & Services

Item & Description	SKU	Quantity	Unit Price	Total
Eagle Eye Wind Kit (Gold) EE-1WS deprecated in favor of EE-1WG	ee-1wg-4	1	$264.05	$264.05
EE Propeller (Silver)	ee-pps-4	1	$96.30	$96.30
Eagle Eye Extension Pole	ee-xp6-4	1	$16.90	$16.90

Subtotals

One-time subtotal	$377.25

Total $377.25

Questions? Contact me

Matthew Eargle
matt.eargle@birdbarrier.com

Bird Barrier America, Inc.
20925 Chico Street
Carson, CA 90746
US

FASTSIGNS
More than fast. More than signs.

600 N Bullard Ave
Suite 7
Goodyear, AZ 85338
(623) 536-0575

More than fast. More than signs. ®
fastsigns.com/456

ESTIMATE
EST-44308

Payment Terms: Cash Customer

Created Date: 3/25/2021

DESCRIPTION: Chandler WRF Improvements

Bill To: McCarthy Building Companies, Inc.
6225 North 24th Street
Suite 200
Phoenix, AZ 85016-2037
US

Pickup At: FASTSIGNS Goodyear
600 N Bullard Ave
Suite 7
Goodyear, AZ 85338
US

Requested By: Craig Nagel
Email: cnagel@mccarthy.com
Work Phone: 913-424-9630

Salesperson: Yolanda Ross
Entered By: Yolanda Ross

NO.	Product Summary	QTY	UNIT PRICE	AMOUNT
1	**Self Luminous Exit Signs - Single Sided**	7	$597.88	$4,185.16
1.1	**Custom Product - S -** **Part Qty:** 1 **Width:** 1.00" **Height:** 1.00" **Text:** Illumination Technology Tritium gas is a form of hydrogen, which naturally illuminates the color green when placed in glass tubes and mixed with a phospohorous chemical. Construction Self Luminous Exit Signs feature tritium gas that is enclosed within shatter-proof borosilicate glass tubes. The tubes are then enclosed within an impact-resistant thermoplastic housing that features a clear polycarbonate faceplate which is 1/8" thick. The sign is sealed by a tamper-proof, snap together design that protects it from vandalism while providing a sturdy enclosure. Maintenance building x7 Blower building x4			
2	**Self Luminous Exit Signs - Double Sided**	7	$1,191.28	$8,338.96

2.1	**Custom Product - S -** **Part Qty:** 1 **Width:** 1.00" **Height:** 1.00" **Text:** Illumination Technology Tritium gas is a form of hydrogen, which naturally illuminates the color green when placed in glass tubes and mixed with a phospohorous chemical. Construction Self Luminous Exit Signs feature tritium gas that is enclosed within shatter-proof borosilicate glass tubes. The tubes are then enclosed within an impact-resistant thermoplastic housing that features a clear polycarbonate faceplate which is 1/8" thick. The sign is sealed by a tamper-proof, snap together design that protects it from vandalism while providing a sturdy enclosure. Maintenance building x7 Blower building x4			
3	**ADA Signs (x12) - Room Signs (Braille)**	12	$54.83	$657.96
3.1	**ADA Signage -** **Part Qty:** 1 **Width:** 8.00" **Height:** 5.00" **Text:** Room 101 - Open Room 102 - Break Room 104 - Office Room 105 - Office Room 107 - Mens Locker Room 109 - Womens Locker Room 113 - Lube Oil Storage Room M02 - Storage Room 101 - Blower Room Room 102 - Electrical Room			
4	**ADA Signs (x2) 6" x 9" Restroom (Braille)**	2	$79.835	$159.67
4.1	**ADA Signage -** **Part Qty:** 1 **Width:** 6.00" **Height:** 9.00" **Text:** Room 108 - Mens Restroom Room 110 - Womens Restroom			
5	**ADA Signs (x57) 14" x 10" (Braille) - Notice, Danger, Caution, Safety Signs**	57	$187.7932	$10,704.21

5.1	**ADA Signage -** **Part Qty:** 1 **Width:** 14.00" **Height:** 10.00" **Text:** 14" x 10" mix of Notice, Danger, Caution and Safety Signs x50 14" x 10" Caution Non-Potable Water - Do Not Drink x5 14" x 10" Hot Surface Do Not Touch x1 7" x 3.5" Hot Surface Do Not Touch x1 Price and size may changed once text is confirmed per the ADA requirements for signs.			
6	**Printed Polymetal 14" x 10" (x57) - Notice, Danger, Caution, Safety Signs**	57	$19.0196	$1,084.12
6.1	**Polymetal 3mm -** **Part Qty:** 1 **Width:** 14.00" **Height:** 10.00" **Sides:** 1 **Text:** Mix of : Danger signs, Caution, Notice and Safety Signs x50 Caution: Non-Potable Water , Do Not Drink x5 Hot Surface Do Not Touch x2			
7	**Metal 1/2" letters for Front Entrance - 5" tall - Airport Water Reclamation Facility**	1	$2,269.73	$2,269.73
7.1	**Custom Product - S -** **Part Qty:** 45 **Width:** 5.00" **Height:** 5.00" **Text:** 1/2" Painted Aluminum 5" tall Pattern City of Chandler Airport Water Reclamation Facility			
8	**Metal 1/2" letters for Front Entrance - 5" tall - Ocotillo Water Reclamation Facility**	1	$2,315.58	$2,315.58

8.1	**Custom Product - S -** **Part Qty:** 46 **Width:** 5.00" **Height:** 5.00" **Text:** 1/2" Painted Aluminum 5" tall Pattern City of Chandler Ocotillo Water Reclamation Facility			
9	**Installation - TBD**	1	$0.00	$0.00
9.1	**Install - S -** **Text:** Installation to be determined			

Subtotal:	$29,715.39
Taxes:	$2,644.67
Grand Total:	$32,360.06

Signature: _____ **Date:** _____

Nagel, Craig

From: jas@eckelusa.com
Sent: Thursday, April 22, 2021 8:13 AM
To: Nagel, Craig
Subject: RE: Chandler Arizona Waste Facility Project - Sound absorbent wall panels

Craig,

You would be safe to use $15/SF for custom panels.

Thanks,
Jim

From: Nagel, Craig <CNagel@McCarthy.com>
Sent: Thursday, April 22, 2021 9:09 AM
To: jas@eckelusa.com
Subject: RE: Chandler Arizona Waste Facility Project - Sound absorbent wall panels

Can you give me a rough idea of what it could cost to provide custom panels vs standard?
I can work on the panel layout but thought that might be worth waiting till I get better direction from the owner.

Craig Nagel
Sr. Estimator
McCarthy Building Companies, Inc.
7930 Santa Fe Drive, Suite 200 | Overland Park, KS 66204
Direct: 913-202-7017
Mobile: 913-424-9630
mccarthy.com
LinkedIn | Twitter | Facebook | YouTube

From: jas@eckelusa.com <jas@eckelusa.com>
Sent: Thursday, April 22, 2021 7:58 AM
To: Nagel, Craig <CNagel@McCarthy.com>
Subject: RE: Chandler Arizona Waste Facility Project - Sound absorbent wall panels

Craig,

We supply the mounting brackets but not whatever anchor is needed to attach the brackets to the wall. We don't do panel layouts, so if you can give me the quantity and sizes of panels needed I can price those.

Thanks,
Jim

From: Nagel, Craig <CNagel@McCarthy.com>
Sent: Thursday, April 22, 2021 8:19 AM

Chandler WRF Improvements Project

GMP 2 Work Category Solicited Subcontractors Summary

Work Category: **11C Vertical Turbine**

Subcontractor/Supplier Name	***Status***
JCH	*Recommended*
Hennesy Mechanical Sales	*Proposed*
Phoenix Pump - ABS Sulzer	*Declined*
Capital Pump	*Declined*
DXP	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **11C - Vertical Turbine Pumps**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	JCH	Hennesy Mech Sales	Capital Pump & Equipment	DXP	Phoenix Pumps Inc
		Ed Martin	Jeff Pals	Will Swartz	Caitlin Petty	Sam McFadden
		(602) 243-0585	602-996-9408	(480) 626-5257	480-243-2081	(602) 726-8470
		egm@jchinc.com	Jeff@hennesymech.com	wswartz@cpepumps.com	caitlin.petty@dxpe.com	smcfadden@phoenixpumps.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$152,913**	**$93,235**	**NO BID**	**NO BID**	**NO BID**
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	Yes	Yes			
2	Bid Submitted on McCarthy Bid Form	Yes	Yes			
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	No	Yes			
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing.	No	No			
5	Surety Company	Cincinnati Casualty Co	Merchants Bonding Co			
6	Surety AM Best Rating (Must be A- or Better)	Yes	Yes			
7	AM Best Financial Size X($500M to $750M) or higher	Yes	Yes			
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	Yes	Yes			
9	Bond/CDI Cost	1.295%	2.600%			
10	Included Insurance Requirements (Per Matrix)	Yes	Yes			
11	GL Insurance Company Name	Cincinnati Casualty Co	Colony Insurance Co			
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	Yes	Yes			
13	PRL Insurance (If required by the Front Ends)	No	No			
14	Pollution Insurance (If required by the Front Ends)	No	No			
15	Tier 1 Approved	Yes	Yes			
16	Tier 2 Approved	N/A	N/A			
17	Safety Items:	N/A	N/A			
18	OSHA Recordable Incident Rate (Current)	N/A	N/A			
19	Agrees to comply with PPE requirements including 100% glove policy	N/A	N/A			
20	Acknowledges updated ladder policy (platform ladders)	N/A	N/A			
21	Task Hazard Analysis included for all tasks	N/A	N/A			
22	Tie-off above 6' required	N/A	N/A			
23	Includes Hoisting for Sub's Own Work Scope	N/A	N/A			
24	Acknowledges Soils Report	N/A	N/A			
25	Acknowledges Addenda	Yes	Yes			
26	Hold Bid for 150 Days	Yes	Yes			
27	Pricing good for the duration of the project	Yes	Yes			
28	Sales Tax Excluded	Yes	Yes			
29	**COVID-19 Market Questions**					
30	How has your work program been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No	No			
31	Have you had any future work opportunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No	No			
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No			
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No	No			
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No			
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No	No			
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No	No			
37	Do you have any overseas suppliers that may be impeding your supply chain?	No	No			

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **11C - Vertical Turbine Pumps**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	JCH	Hennesy Mech Sales	Capital Pump & Equipment	DXP	Phoenix Pumps Inc
		Ed Martin	Jeff Pals	Will Swartz	Caitlin Petty	Sam McFadden
		(602) 243-0585	602-996-9408	(480) 626-5257	480-243-2081	(602) 726-8470
		egm@jchinc.com	Jeff@hennesymech.com	wswartz@cpepumps.com	caitlin.petty@dxpe.com	smcfadden@phoenixpumps.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$152,913**	**$93,235**	**NO BID**	**NO BID**	**NO BID**
38						
39	Per Plans & Specifications	Yes	Yes			
40	Division 1 as it relates to this scope of work	Yes	Yes			
41	Spec Section 01300 - Submittals	Yes	Yes			
42	Spec Section - 01640 Materials and Equipment	Yes	Yes			
43	Spec Section - 01650 Starting of Systems	Yes	Yes			
44	Spec Section - 03600 - Grout	Yes	Yes			
45	Spec Section - 05051 - Anchor Bolts, Toggle Bolts, and Concrete Inserts	Yes	Yes			
46	Spec Section - 09900 - Painting	Yes	Yes			
47	Spec Section - 10400 - Equipment Identification Plates	Yes	Yes			
48	Spec Section - 11295 Hydraulic Valves	Yes	Yes			
49	Spec Section - 11310 - Vertical Turbine Pump	Yes	Yes			
50	Spec Section - 13447 - Electric Motor Actuators	Yes	Yes			
51	Spec Section - 15990 - Testing, Adjusting and Balancing	Yes	Yes			
52	Spec Section - 16161 - Control Panels	Yes	Yes			
53	Spec Section - 16225 - Electric Motors 250 Hp or Less	Yes	Yes			
Scope of Work						
Base Bid:		$147,700	$88,679			
54	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 11C-Vertical Turbine Pumps, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	Yes			
55	Check to Spec completed and submitted to McCarthy	Yes	No			
56	1 year warranty from Final Acceptance (Aug 2023); 5 Year Warranty on Motor	Yes	$750			
57	Unit of Responsibility for pump can, pump, and motor	Yes	Yes			
58	Approved motor manufacturer per spec 16225	Yes	Yes			
59	Pre-Installation inspection prior to pump install	Yes	Yes			
60	Provide suction bell with anti vortex baffles and strainer	Yes	No			
61	Provide vanes cast into bowl	Yes	Yes			
62	Discharge vent	Yes	Yes			
63	Provide 3/4" drain	By WC 15A	By WC 15A			
64	Axial Flow Impeller type	Yes	Yes			
65	Shop tests to be witnessed by Registered Professional Engineer and provide sealed copies of pump curves. Submittal to be approved before shipment	Yes	Yes			
66	Approved Manufacturer	Cascade	Fairbanks Morse			
67	Pump to handle water between 35 and 115 degrees Fahrenheit	Yes	Yes			
68	Provide equipment safety guards as specified in Section 15050	Yes	Yes			
69	Provide PMP-419-006 (Mixed Liquor Return)	Yes	Yes			
70	Pump rated for 8500 GPM at 18' of head and 79% minimum efficiency	Yes	Yes			
71	Motor to be 460 Volt/3 Phase/60 Hz & TEFC Enclosure	Yes	Yes			
72	Source Testing to be Performance Level 2 and Noise Test Level 1 Per Spec	Yes	Yes			

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **11C - Vertical Turbine Pumps**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	JCH	Hennesy Mech Sales	Capital Pump & Equipment	DXP	Phoenix Pumps Inc
		Ed Martin	Jeff Pals	Will Swartz	Caitlin Petty	Sam McFadden
		(602) 243-0585	602-996-9408	(480) 626-5257	480-243-2081	(602) 726-8470
		egm@jchinc.com	Jeff@hennesymech.com	wswartz@cpepumps.com	caitlin.petty@dxpe.com	smcfadden@phoenixpumps.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$152,913**	**$93,235**	**NO BID**	**NO BID**	**NO BID**
73	Performance Test - Performance Level 1, Vibration Level 2, Noise Level 1 per specification	$2,500	Yes			
74	Provide spare parts per specification 11310	Yes	Yes			
75	Provide all oil/lubrication required for pre-start up	Yes	Yes			
76	Testing of coating to be performed at jobsite arrival	Yes	Yes			
77	Field testing per section 3.3 of specification 11310	Yes	Yes			
78	Provide lifting lugs for proper installation	Yes	Yes			
79	Provide all anchors and epoxy required for the installation of the equipment	$800	$1,500			
80	All metallic surfaces (including pipe, supports, and enclosure) shall be primed per the requirements of the 09900 - Painting	Yes	Yes			
81	Shipping shall be FOB jobsite	Yes	Yes			
76	O&M's per specification section 01781	Yes	Yes			
77	Training: Minimum 1 Trip for 4 hours (Not Including Travel Time)	Yes	Yes			
78	Performance testing: Per Spec 11310 - Vertical Turbine Pumps (Shop Tests)	Yes	Yes			
79	Startup days/trips included: Minimum 2 trips and 4 (8) Hour days (Not Including Travel Time)	Yes	Yes			
80	Cost per additional day/trip: 1 Trip for 1 (8 HR) Day	$1,200/8 hr. day	No			
81	COVID-19 Scope Items					
82	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes	Yes			
83	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes	Yes			
84	All personnel onsite must maintain 6'0" spacing between personnel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes	Yes			
85	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes	Yes			
86	All tools and equipment used must be sanitized each day.	Yes	Yes			
87	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes	Yes			
88	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes	Yes			
89	Personnel are not allowed to carpool to the site or while onsite.	Yes	Yes			
90	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the appropriate testing and quarantine protocols.	Yes	Yes			
91						
92	End of Scope					
93	Bond/CDI Cost	$1,913	$2,306			
	TOTAL WORK CATEGORY PACKAGE VALUE	**$152,913**	**$93,235**			

Cascade meets the specifications 100% while the Fairbanks model does not meeting the specification requirement of a 20" column and discharge, and is providing a 16".

BID PROPOSAL

Date APRIL, 7, 2021

Bid Proposal of * JAMES,COOKE AND HOBSON, INC. (hereinafter called "Bidder")

a ** CORPORATION organized and existing under the laws of the State of

TEXAS.

* Insert name of firm.
** Insert corporation, partnership, or individual, as applicable.

(INSERT OWNER'S ADDRESS)
TO: McCarthy Building Companies, Inc.
6225 North 24th Street, Suite 200
Phoenix, Arizona 85016

The Bidder, in compliance with your Invitation for Bids for the construction of Chandler Water Reclamation Facility Improvements having examined the Contract Documents entitled City of Chandler, Chandler WRF Improvements Project, and other related documents and being familiar with the site of the proposed work, and with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, and the progress of work to date, if any, hereby proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, perform all work, provide all services, and to construct all work in accordance with the Contract Documents set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required.

The Bidder shall attach a copy of Bidders' detailed estimate to its Bid Proposal. This estimate shall identify all quantities shown in the documents or anticipated along with corresponding labor, material and equipment pricing.

After Bid Proposals are received, tabulated, and evaluated by McCarthy, said Bidder agrees to meet with McCarthy for the purpose of determining any duplications, omissions, or mutually agreed bid adjustments. For these meetings, the Bidder agrees to provide a complete, detailed cost breakdown; a list of all sub-subcontractors proposed for use in the work; and a list of all items, materials and their manufacturers proposed for use in the work.

The Bidder, if awarded a Subcontract, agrees to commence work and to fully complete its Work in accordance with a schedule to be established in collaboration with McCarthy under the provisions of the Additional Subcontractor Conditions of the Specifications.

The Bidder acknowledges receipt of the following Addenda: 4

.

BASE BID:

The Bidder agrees to perform all SECTIONS 15441,11311.1, 11314, 11310,11371 AND 11375 11217 (herein insert the title of the Work Category as it appears in the Additional Subcontractor Conditions) Work for Work Category No. _____, as described in the Contract Documents, for the Lump Sum of ONE MILLION ONE HUNDRED NINETY TWO THOUSAND SEVEN HUNDRED TWENTY EIGHT DOLLARS ($ 1,192,728.00).

BID BREAKDOWN:

Airport WRF Total Amount $_____

- Aeration Basin $ 348,460.00 FINE BUBBLE AERATION
- Blower Piping $_____.
- Blower Ductbank $_____.
- Filters $ 33,488.00 SUMP PUMPS .
- Maintenance Bldg $_____.

Ocotillo WRF Total Amount $_____

- Aeration/Anoxic $ 147,700.00 IMLR PUMP .
- RAS/WAS PS $ 318,731.00 RAS AND WAS PUMPS .
- Clarifiers 1& 2 $_____.
- Filters $ 22,325.00 SUMP PUMPS ..
- MCC Replacement $_____..
- Reservoir $ 3,266.00 SAMPLE PUMP ..
- Roads/Sitework $_____..

Performance & Payment Bond Cost *(If Applicable)* $_____

Total Subcontract Amount $_____

The name of the proposed Bonding Company is _____

Bond rate _____%

All applicable taxes, except sales and use taxes on materials and equipment which are affixed and made a part of the real estate of the Project, are included in the above Base Bid. Bidder agrees that this Bid Proposal shall be good and may not be withdrawn unless McCarthy does not send Bidder a Subcontract within one hundred ~~twenty (160) calendar days~~ fifty (150) calendar days after the opening date of Bid Proposals.

(Amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

ALTERNATES:

The Bidder further agrees that if any or all of the Alternates listed and described below are incorporated and accepted within sixty (60) calendar days after receipt of a Subcontract from McCarthy, the Bidder will adjust its Subcontract by the amount indicated opposite the Alternates listed below.

ALTERNATE NO. 1: Filter Disc in Basin 7 Installation:

ADD the sum of $_____.

ALTERNATE NO. 2: Clarifier 3 Rehabilitation

ADD the sum of $_____.

ALTERNATE NO. 3: Sludge Holding Tank and Blower Bldg No. 2

83,572.00 COARSE BUBBLE AERATION

ADD the sum of $ 235,186.00 BLOWERS .

ALTERNATE NO. 4: Removal/Replacement of Diffusers in 2 Aeration Basins

ADD the sum of $ 174,230.00 FINE BUBBLE 2 BASINS ONLY

ALTERNATE NO. 5:_____

ADD the sum of $_____.

CHANGE ORDER RATES: (Add separate sheet as needed)

Markup % (on rates and material): _____.

Position: _____ Rate: _____.

Position: _____ Rate: _____.

Equipment: _____ Rate: _____.

Equipment: _____ Rate: _____.

SAFETY RECORDS

The Bidder certifies to the following Experience Modification Rates (EMR) and Incidence Rates for the three (3) most recent years:

	Year 2018	Year 2019	Year 2020
1. Compensation Experience Modification Rate:			
2. Incidence Rate:			
(a) Number of hours employees worked in the year.			
(b) Number of cases defined as recordable, from the OSHA Form 300 Log.			
(c) Total Recordable Incidence Rate = (b) x (200,000 hours) / Hours Worked (a)			

The Bidder understands that McCarthy reserves the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

SELECT AS APPROPRIATE

☒ The Bidder has completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program; OR

☐ The Bidder has not completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program because the Bidder has provided the Form and all such information to McCarthy in the past 12 months for the following project:

_____ Project, which bid on: _____.

RESPONSIVE BID REQUIREMENTS:

DO NOT ENCLOSE YOUR STANDARD TERMS AND CONDITIONS

If any exceptions are taken to the requirements of this Proposal form, attach a separate sheet listing those exceptions, stating the sections and paragraphs and the specific exception.	EM (initials)
In submitting this proposal, the Bidder certifies that this bid is valid for 150 calendar days.	EM (initials)
In submitting this Proposal as described herein, we agree to complete the work in accordance with the included Preliminary Construction Sequence.	EM (initials)
In submitting this Proposal, the Bidder certifies that all cost for extended warranties to start on the date of Substantial Completion is included.	(initials)
In submitting this proposal as described herein, we confirm that we have received, reviewed and agree to all commercial terms stated in the McCarthy Subcontract and Purchase Order Agreement. Any exception taken to the commercial terms stated in these Agreements must be listed on a separate sheet noting the article or paragraph and the specific exception. ***Bidders attached Standard Terms and Conditions will not be acknowledged or accepted as part of any given bid.***	(initials)
In submitting this proposal as described herein, the Bidder certifies that this bid is coordinated based on a complete set of documents and that there will be no claims for change order based on the assertion that the Bidder did not have a complete set of Bidding Documents.	EM (initials)
In submitting this proposal, the Bidder certifies that they have included all spare parts, training, O & M Manuals, shop drawings and administration costs as associated to comply with the requirements of the specifications and as listed for their scope of work.	EM (initials)
A bid will be considered non-responsive if the Subcontractor Pre-Qualification Form is not completed as part of the Bid Form **(or on file at McCarthy office)**.	EM (initials)
The Bidder, by submitting their bid, represents that they have read and understand the scope requirements of the Bidding Documents.	EM (initials)
The Bidder certifies that any proposed materials in this scope of work meet or exceeds the requirements stated in the specifications unless noted otherwise within this proposal.	EM (initials)
The bidder certifies that the price listed in this bid is a firm Price through the final delivery of the materials proposed herein, and that no material escalation will be accepted as part of this proposal.	EM (initials)

Within fifteen (10) days after receipt by the Bidder from McCarthy of the Subcontract or Purchase Order, the Bidder will execute and return to McCarthy said Subcontract or Purchase Order and if notified from McCarthy that Bidder is not to be enrolled in McCarthy's Contractor Default Insurance Program, deliver to McCarthy Performance and Labor and Material Payment Bonds for the Subcontract or a Supply Contract Bond for the Purchase Order, or the difference between the amount of the bid and such larger amount for which McCarthy may subcontract with another party to perform the work covered by said bid, together with all court costs, all attorney fees and all other expense of recovery, all of which shall not exceed the Bid Security attached in the amount of 15% of the bid, will become the property of McCarthy. The bonds shall name McCarthy as Obligee.

If an Individual:

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Partnership:

Authorized Signature: _____

Name (print): _____

Email: _____

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Corporation:

Authorized Signature: *Edward Martin*

Name (print): *Edward Martin*

Email: *egm@jchinc.com*

Title: *ITS Sales Engineer*

Business Address: *3501 e. Broadway Road*

Phoenix, AZ. 85040

Telephone *(602) 243-0585*

Contractor License Number: _____

General Liability Insurance Carrier (not the agent): *Cincinati Casualty Co.*

*Please attach a sample certificate of insurance and current W9 form to your bid.

Sales Engineers / Process Equipment

JAMES, COOKE & HOBSON, INC.

3501 E Broadway Rd, Phoenix, AZ.85040
Phone: 602-586-1439
Fax: 602-276-5402
E-mail: egm@jchinc.com

MARCH. 24, 2021
REVISED

To: McCARTHY CONSTRUCTION

Attn: KIM
Ph:

Quotation #: 081320-1EGM
Job Name: CHANDLER WRF
Location: CHANDLER, AZ
Quotation by: ED MARTIN

Unless otherwise stated: Prices are firm for 30 days from bid date, payment terms are NET 30 DAYS from shipment. Interest shall accrue at 1.5% per month on past due amounts per month. Any taxes are additional. **Items included are only listed below.** Please review carefully

QTY	DESCRIPTION	TOTAL
	SPECIFICATION SECTION 11311.1 – SUBMERSIBLE DRY PIT PUMPS	
3	FLYGT MODEL NT3301 SUBMERSIBLE DRY PIT SEWAGE PUMPS WITH 85HP, 460V-3PH MOTOR, 60 FEET OF POWER CABLE, FLS/MINI-CAS SEAL FAILURE AND STATOR TEMPERATURE MONITOR, HI-CHROME HARD IRON IMPELLER AND IMPELLER WEAR PLATE, IMPELLER CODE 624, CAST IRON PUMP STAND	
3	12" X 14" LONG RADIUR SUCTION ELBOW WITH 6" CLEAN OUT	
3	SPARE PARTS: BASIC REPAIR KITS INCLUDING (1) SET OF MECHANICAL SEALS, (1) SET OF BEARINGS AND (1) SET OF "O" RINGS, (1) IMPELLER WEAR PLATE.	

THE TOTAL NET ESTIMATED PRICE F.O.B. FACTORY WITH FREIGHT ALLOWED TO THE JOB SITE IS.....$288,901.00

SPECIFICATION SECTION 11314 – END SUCTION CENTRIFUGAL PUMPS
WAS PUMPS

QTY	
2	FLYGT CONCERTOR 6020 MODEL NZ100 SUBMERSIBLE PUMP WITH 7.5HP, 460V-3PH MOTOR, INTEGRAL VFD, 60 FEET OF POWER CABLE, FLS, HI-CHROME HARD IRON IMPELLER AND IMPELLER WEAR PLATE, 4" SUCTION AND DISCHARGE.
2	Z STAND WITH SERVICE CART AND RAIL
2	SPARE PARTS: BASIC REPAIR KIT

THE TOTAL NET ESTIMATED PRICE F.O.B. FACTORY WITH FREIGHT ALLOWED TO THE JOB SITE IS.....$29,830.00

Cont.

SPECIFICATION SECTION 11310 – VERTICAL TURBINE PUMPS
PUMP TAG NO. PMP-419-006

CAPACITY 8500 GPM HEAD 18 FEET

1 CASCADE MODEL 16AF-1 STAGE AXIAL FLOW PUMP WITH 20" DIAMETER ABOVE BASE DISCHARGE FLANGE WATER FLUSH LUBRICATION, STAINLESS STEEL COUPLING GUARDS, 316SS FASTENERS, 416SS LINE SHAFT 416SS LINE SHAFT BOLTED COUPLINGS, MECHANICAL SEAL, ALUMINUM BRONZE IMPELLER, STAINLESS STEEL FLUSH LINE TO THE SUCTION BOWL BEARING, ROUND BASE PLATE, FOUR PIECE COUPLING, SPECIAL PAINT, AND ALL ITEMS PER ORIGINAL CASCADE DESIGN AND MATERIALS OF CONSTRUCTION.

1 60HP, 900RPM, 460V-3PH VERTICAL SOLID SHAFT ELECTRIC MOTOR WITH TEFC ENCLOSURE, PREMIUM EFFICIENT DESIGN, WINDING THERMOSTATS, INVERTER DUTY,

1 FACTORY PERFORMANCE TEST

1 SPARE PARTS: (1) SET OF LINE SHAFT BEARINGS, (1) MECHANICAL SEAL, (1) SET OF MOTOR BEARINGS

THE TOTAL NET ESTIMATED PRICE F.O.B. FACTORY WITH FREIGHT ALLOWED TO THE JOB SITE IS……..$147,700.00

SPECIFICATION SECTION 11371 – POSITIVE DISPLACEMENT BLOWERS

QTY

3 KAESER ROTARY BLOWER MODEL COM-PAK HB950C, 175HP POSITIVE DISPLACEMENT BLOWER PACKAGE WITH SOUND ENCLOSURE W/ VENT FAN, INLET SILENCER W/FILTER (GRADE G4), OIL DRAINS W/BALL VALVES, V-BELT DRIVE W/ AUTOMATIC BELT TENSIONER, IP 55 TEFC INVERTER DUTY DRIVE MOTOR (NPE), DISCHARGE SILENCER, PRESSURE RELIEF VALVE, VIBRATION ISOLATORS, FLEXIBLE CONNECTOR ON THE DISCHARGE, FLAP STYLE CHECK VALVE (PLATE), DISCHARGE TEMPERATURE GAUGE W/SWITCH, DISCHARGE PRESSURE GAUGE, INLET FILTER DIFFERENTIAL PRESSURE GAUGE, INLET FILTER DIFFERENTIAL PRESSURE SWITCH, OIL LEVEL SWITCH, BEARING GREASE, OMEGA BLOWER 220 SYNTHETIC OIL AND (3) SPARE INLET FILTERS. REQUIRES CONTROLS.

THE TOTAL NET PRICE F.O.B. FACTORY WITH FREIGHT ALLOWED TO THE JOB SITE IS……..$235,186.00

SPECIFICATION SECTION 15441 SUMP PUMPS
AWRF – SG-001-FB, SG-002-FP AND SG-003-FB
OWRF - SG-004-FB AND SG-005-FB

QTY

5 FLYGT NS3085 SUBMERSIBLE SOLIDS HANDLING PUMPS WITH 2.2HP, 460V-3PH MOTOR 50 FEET OF POWER CABLE, FLS/MINI-CAS SEAL FAILURE AND STATOR TEMPERATURE MONITOR, HI-CHROME HARD IRON IMPELLER AND IMPELLER WEAR PLATE, IMPELLER CODE 463

5 SIMPLEX CONTROL PANELS WITH NEMA 4X NON-METALLIC ENCLOSURE

15 FLYGT ENM-10 LEVEL SWITCHES

5 STAINLESS STEEL FLOAT BRACKETS

THE TOTAL NET PRICE F.O.B. FACTORY WITH FREIGHT ALLOWED TO THE JOB SITE IS……$55,813.00

SPECIFICATION SECTION 11217 SAMPLE PUMPS

QTY

1 GOULDS SELF PRIMING SHALLOW WELL JET PUMP J+, MODEL J10 CAPABLE OF 25 FEET OF SUCTION LIFT AND 10 FEET DISCARGE WITH 1HP, 115V-1PH MOTOR.

THE TOTAL NET PRICE F.O.B. FACTORY WITH FREIGHT ALLOWED TO THE JOB SITE IS……..$3,266.00

Cont.

SPECIFICATION SECTION - 11375 AERATION SYSTEMS AND 11376 COARSE BUBBLE AERATION SYSTEM

MANUFACTURER – XYLEM SANITAIRE

SEE ATTACHED SANITAIRE PROPOSAL

FINE BUBBLE AERATION $348,460.00
COARSE BUBBLE AERATON $83,572.00

TOTAL LUMP SUM …….$1,192,728.00

NOTES:

- **The above price is firm for 150 days. After such time it may be subject to review. Shipment has been estimated at Approx. 12 - 14 weeks for submersible pumps and +/- 23 weeks for vertical turbine pump after receipt of purchase order and/or approved submittal drawings.**
- **Price includes: Freight to the job site off loaded by-others. Submittal drawings and start-up supervision and Manufactures standard Warranties.**
- **Prices do not include: Sales tax**
- **Thank you for this opportunity to be of service. If you have any questions regarding this quotation or any other matter, Please do not hesitate to call.**

Chandler WRF Improvements Project

GMP 2 Work Category Solicited Subcontractors Summary

Work Category: **11D Mixers**

Subcontractor/Supplier Name	***Status***
Invent	*Recommended*
No other bidders per City request.	

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **11D - Submersible Mixers**

GMP Date: **5/4/2021 Rev 6/21/2021**

		Recommended					
COMPANY INFORMATION		**Invent**	*Sole Source				
		Marcel Huijboom	per specifications				
		(201) 248-6724					
		mhuijboom@invent-et.com					
TOTAL WORK CATEGORY PACKAGE VALUE		**$317,719**					
MCCARTHY SUBCONTRACT & FRONT END TERMS							
1	Compliant with McCarthy Front Ends	Yes					
2	Bid Submitted on McCarthy Bid Form	Yes					
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	No					
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing.	No					
5	Surety Company	No					
6	Surety AM Best Rating (Must be A- or Better)	N/A					
7	AM Best Financial Size X($500M to $750M) or higher	N/A					
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	N/A					
9	Bond/CDI Cost	1.295%					
10	Included Insurance Requirements (Per Matrix)	Yes					
11	GL Insurance Company Name	Hartford Fire Insurance Co.					
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	Yes					
13	PRL Insurance (If required by the Front Ends)	Yes					
14	Pollution Insurance (If required by the Front Ends)	N/A					
15	Tier 1 Approved	No					
16	Tier 2 Approved	N/A					
17	Safety Items:	N/A					
18	OSHA Recordable Incident Rate (Current)	N/A					
19	Agrees to comply with PPE requirements including 100% glove policy	N/A					
20	Acknowledges updated ladder policy (platform ladders)	N/A					
21	Task Hazard Analysis included for all tasks	N/A					
22	Tie-off above 6' required	N/A					
23	Includes Hoisting for Sub's Own Work Scope	N/A					
24	Acknowledges Soils Report	N/A					
25	Acknowledges Addenda	Yes					
26	Hold Bid for 150 Days	Yes					
27	Pricing good for the duration of the project	Yes					
28	Sales Tax Excluded	Yes					
29	**COVID-19 Market Questions**						
30	How has your work program been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No					
31	Have you had any future work opportunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No					
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No					
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No					
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No					
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No					
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No					
37	Do you have any overseas suppliers that may be impeding your supply chain?	No					

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **11D - Submersible Mixers**

GMP Date: **5/4/2021 Rev 6/21/2021**

		Recommended					
COMPANY INFORMATION		**Invent**	*Sole Source				
		Marcel Huijboom	per specifications				
		(201) 248-6724					
		mhuijboom@invent-et.com					
TOTAL WORK CATEGORY PACKAGE VALUE		**$317,719**					
38							
39	Per Plans & Specifications	Yes					
40	Division 1 as it relates to this scope of work	Yes					
41	Spec Section 03600 - Grout	Yes					
42	Spec Section 05051 - Anchor Bolts, Toggle Bolts, & Concrete Inserts	Yes					
43	Spec Section 09900 - Painting	Yes					
44	Spec Section 10400 - Equipment Identification Plates	Yes					
45	Spec Section 11221 - Submersible Mixers and Accessories	Yes					
46	Spec Section 13447 - Electric Motor Actuators	Yes					
47	Spec Section 16161 - Control Panels	Yes					
48	Spec Section 16225 - Electric Motors 250 Hp or Less	Yes					
Scope of Work							
Base Bid:		$312,600					
49	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 11D-Submersible Mixers, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes					
50	Check to Spec completed and submitted to McCarthy	Yes					
51	1 year warranty from Final Acceptance (Aug 2023)	$17,800					
52	(8) New submersible mixers; Includes dry installed, heavy-duty speed reducer, electric motor, baseplate, shaft, and mixer body	Yes					
53	Reuse (8) existing mounting bases	No					
54	Unit of Responsibility for proper coordination with bases	Yes					
55	Specification Guarantee, Section 1.4 D in Spec Manufacturer responsible to correct any deficiencies as maybe necessary at no additional cost	No					
56	Mounting frames & brackets	Yes					
57	Anchor bolts	Yes					
58	Level 3: Equipment Performance Testing	Yes					
59	Independent Vibration Testing - Level 3	Yes					
60	Noise Test: Level 3	Yes					
61	Mixer Body& Shaft to be FRP or 316 stainless; pitched blad to be composite or SST ASTM A276, Type 316	Yes					
62	Bolted connections to be 316 SST	Yes					
63	Motor to be 5 HP, 460/60Hz/3 Phase	Yes					
64	All components to be coated per spec 09900-Painting	Yes					
65	Written factory test report before shipment including: 1. Mixer body, motor rating, and electrical connection checked 2. Mixers to be vacuum tested to establish sealing integrity 3. Mixers to be run to determine correct shaft rotation, thrust direction, and power consumption 4. Mixers to be inspected for oil seepage/water infiltration, insulation, defects, and motor resistance	Yes					
66	Furnish all necessary oil and grease required prior to operation	Yes					
67	4 Hours of Maintenance Training Included	Yes					
68	4 Hours of Operations Training Included	Yes					
69	Provide Motor Factory tests per Section 1.2C in Spec 16225	Yes					

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **11D - Submersible Mixers**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Invent	*Sole Source			
		Marcel Huijboom	per specifications			
		(201) 248-6724				
		mhuijboom@invent-et.com				
	TOTAL WORK CATEGORY PACKAGE VALUE	**$317,719**				
70	Provide 5 year warranty for motor	Yes				
71	Provide lifting eye on motor if more than 50 lbs.	Yes				
72	Perform field testing on motor per section 4.2 in spec 16225	Yes				
73	Provide controls as shown on P&ID I-3.02; Disconnect, LCP, High Temp sensor	Yes				
74	Provide lifting lugs for proper installation	Yes				
75	Provide all anchors and epoxy required for the installation of the equipment	Yes				
76	All metallic surfaces (including pipe, supports, and enclosure) shall be primed per the requirements of the 09900 - Painting	Yes				
77	Shipping shall be FOB jobsite	Yes				
78	Preventative maintenance procedures	Yes				
79	O&M's per specification section 01781	Yes				
80	Spare Parts & Special tools per the Specifications	Yes				
81	Manufactures Services	Yes				
82	Startup days/trips included: Minimum 2 Site Visits and 3 (8) hour days. Not including travel time.	Yes				
83	Cost per additional trip for 2 (8) Hour Days	$4,600/Trip 2 Days				
84	Cost per additional day while technician is on site	$1,100/Day				
85	**GMP 1 Early Submittal**	-$16,743				
86	COVID-19 Scope Items					
87	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes				
88	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes				
89	All personnel onsite must maintain 6'0" spacing between personnel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes				
90	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes				
91	All tools and equipment used must be sanitized each day.	Yes				
92	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes				
93	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes				
94	Personnel are not allowed to carpool to the site or while onsite.	Yes				
95	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the appropriate testing and quarantine protocols.	Yes				
96						
97	End of Scope					
98	Bond/CDI Cost	$4,062				
	TOTAL WORK CATEGORY PACKAGE VALUE	**$317,719**				

Only one vendor was solicited per specifications and city.

Offer-No.: **IET-1912012-HCM-Rev02**

Date: **April 06, 2021**

Submitted to: **Mc Carthy Contractors**

Project: **City of Chandler, Ocotillo WWTP,**

Section 11221 – Hyperbolic Mixers

Budget Proposal 90%



INVENT Environmental Technologies Inc.
By: Ing. Marcel Huijboom

218 Little Falls Road, Units 7 & 8
Cedar Grove, NJ 07009

Tel: 973 571 2223
Cell: 201 248 6724
Http://www.invent-et.com

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1 Exception and Remarks on the 90% Specification

1.1 Remarks to Sections 11221

Chapter 11221-1.5-A-4
Shop detailed drawings will not be provided as they are not relevant for the project.

Chapter 11221-2.5-C
INVENT normally supplies Electric motors of SEW Eurodrive, these reliable electric motors will be a combined motor gearbox of reliable design.
>> **INVENT** will propose a deduct for the use of the standard SEW motor gearbox combination.

Chapter 11221-2.5-D
The Motor Gearbox will be supplied factory coating .

Chapter 11221-2.5-E
The INVENT Mixers will not have Bearing Housing.

Chapter 11221-2.5-F
The **INVENT** Mixers will not have a Mixer assembly mounting Bracket included. The Mixers will be supplied including a base plate.

Chapter 11221-2.5-G
The **INVENT** Mixers will not have a Mounting Frame included.

Chapter 11221-2.6-A
The Motor Gearbox will be supplied factory coating .

Chapter 11221-2.7-C
Rotation and rotational direction can only be checked on site.

Chapter 11221-3.3-A-1-4
INVENT Mixer are not submerged and therefore listed test are not applicable and not included in our proposal.

2 Design Basis

2.1 Application

The **HYPERCLASSIC**® Mixing System ensures complete mixing and prevents sedimentation at the lowest possible energy consumption.

2.2 Wastewater Properties

- Origin of the Wastewater:		municipal	
- Medium:		activated sludge	
- MLSS:	≤	5,000	ppm
- Sludge Volume index (SVI):	≥	120	ml/g
- Temperature:		68	°F
- Total Dissolved Solids (TDS):	≤	2,000	ppm
- pH-Value:		6 - 8	

2.3 Plant Data Anoxic Zones

- No. of basins:	8	
- Basin type:	rectangular	
- Length:	37.25	ft
- Width:	30.25	ft
- Water depth:	26.5	ft
- Freeboard:	2.0	ft
- Basin volume:	0.223	Mgal

3 Technical Description of the HYPERCLASSIC®- Mixer Evolution 7

3.1 General Description

The hyperboloid **HYPERCLASSIC®**- Mixing System is a unique mixing system which provides excellent suspending and homogenization in anaerobic or anoxic tanks for biological phosphorus removal or denitrification. Besides application in water and wastewater treatment it can be used in many other mixing applications.

Error! Reference source not found. shows how the hyperboloid **HYPERCLASSIC®**- Mixing System works in a diagram of the system with dry mounted drive in a typical tank, which can be rectangular or round. The characteristic features of the system are the hyperboloid form and the position of the drive. In addition, the flow induced by the mixer is streamlined. The circulation flow in the tank is characteristically generous and in a radial direction starting from the mixer itself, creating a high turbulent flow near to the bottom of the tank to ensure that sedimentations are reliably whirled up again.

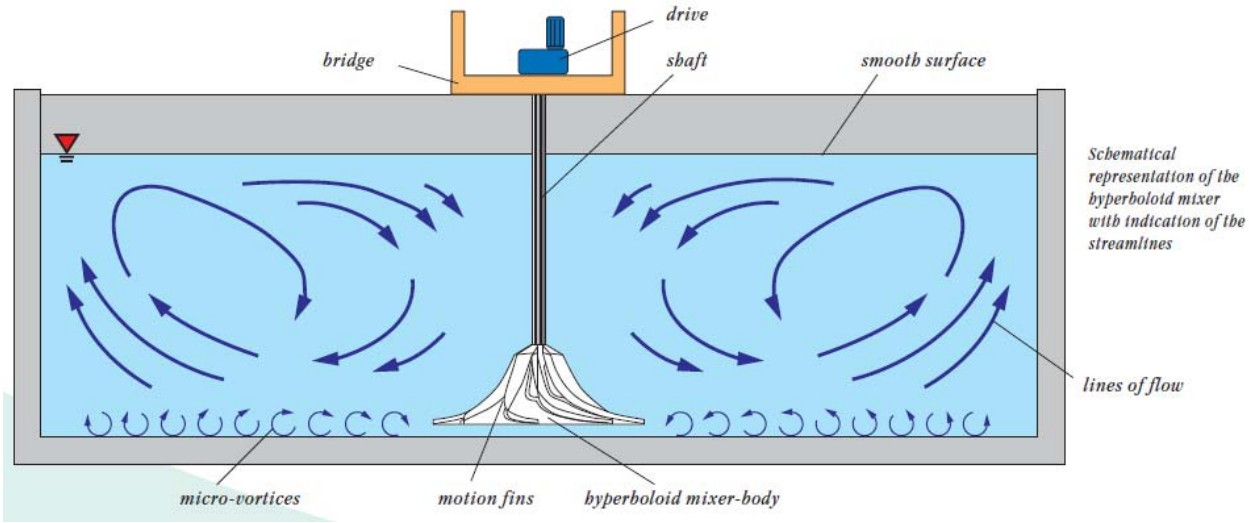
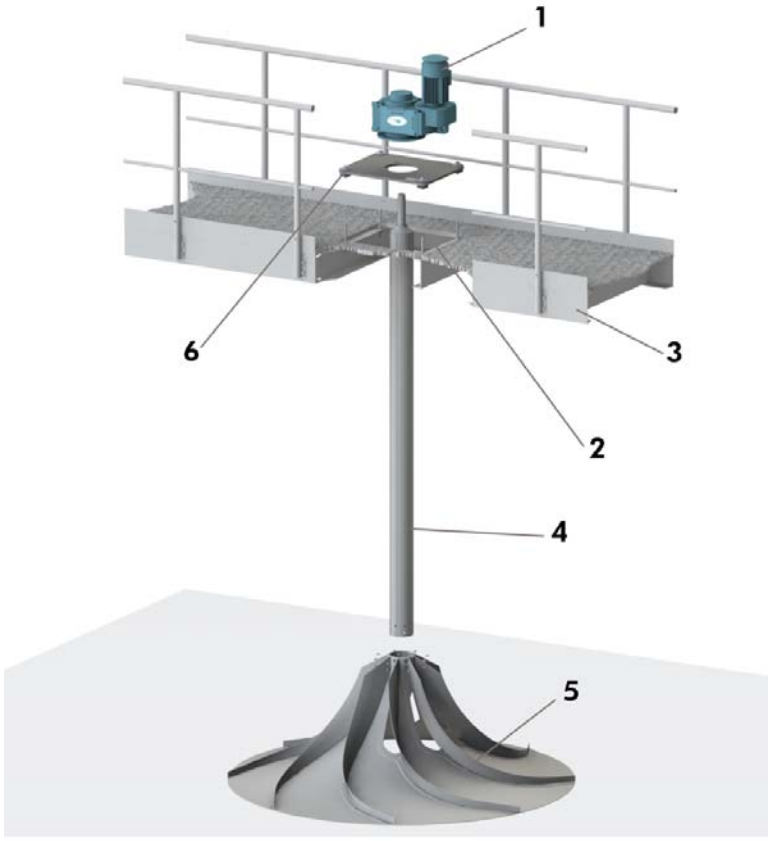


Figure 1: Diagram showing a Hyperboloid-Mixer with a top mounted drive

3.2 Design

The **HYPERCLASSIC**® Mixer consists of a non-clogging Hyperboloid-body, a shaft and a motor with a mounting base. The mixer is supplied including all necessary parts for the assembly on either a steel or a concrete bridge. The individual parts are easy to install and guarantee quick installation. Error! Reference source not found. shows the design in detail.



1. Position 1: Drive unit with parallel shaft helical gear and high efficiency motor for reliable and efficient operation under heavy duty
2. Position 2: Mounting base
3. Position 3: Bridge (not part of the INVENT Scope of supply)
4. Position 4: Shaft
5. Position 5: Optimized Hyperboloid mixer body evolution 7
6. Position 6: Rubber buffers for shock absorbing bearing

Figure 2: Exploded view on a Hyperboloid Mixer with top mounted drive

HYPERCLASSIC® Mixers are always dimensioned in such a way that a bottom bearing is not needed. This means that no parts requiring maintenance are located under water.

3.3 Main Advantages

Due to the above mentioned functional principle and design the **HYPERCLASSIC®**- Mixing System evo7 has serious advantages versus conventional mixers.

Mechanical Advantages	➢ Non-clogging Hyperboloid-body with integrated and optimized transport ribs for optimum fluid acceleration. ➢ All parts under water show high resistance against chloride. ➢ No maintenance relevant parts under water. ➢ No upward driving forces or vibrations on the bridge. ➢ Hyperboloid mixer body is made from high-strength impact resistant polymer material

Process Advantages	➢ The Hyperboloid mixer-body is shaped according to the streamlines of the flow. This prevents any flow separation and guarantees highest efficiency. ➢ The mixer is bottom mounted and therefore provides the highest energy input where sedimentation has to be avoided and sludge flocs have to be whirled up. ➢ The large diameter allows for low speeds and even energy distribution in the tanks. This ensures complete suspension and full homogenization. ➢ A large diameter and low speed also guarantee high energy efficiency and low shear. The sludge flocs cannot be harmed or destroyed. ➢ Oxygen input via the surface and aerosols production do not occur due to minimized surface turbulence. ➢ If the **HYPERCLASSIC®**- Mixing System evo7 is used in series with multiple -mixers per basin the design can be influenced in such a way that virtual walls between the mixers are produced. This improves retention time and avoids high civil construction costs since no separation walls have to be built.

4 Detailed Description and Material Specifications

4.1 Geardrive

The drives for the **HYPERCLASSIC**® Mixers evo7 are exclusively so-called parallel shaft helical geared motors from renowned manufacturers. The drives normally have a high-quality corrosion protection coating, robust weather protective hood, humidity and acid protection of the winding (tropical protection) and optional PTC resistor for thermal protection of the motor.

The gear is rated for a long bearing service life and for adverse operating conditions. The driving shaft is mounted in a hollow shaft and secured by means of a hex screw. The torque is transmitted by a feather key connection. The hollow shaft is covered and sealed with a special hollow shaft cap. The design is shown in *Figure 3*.

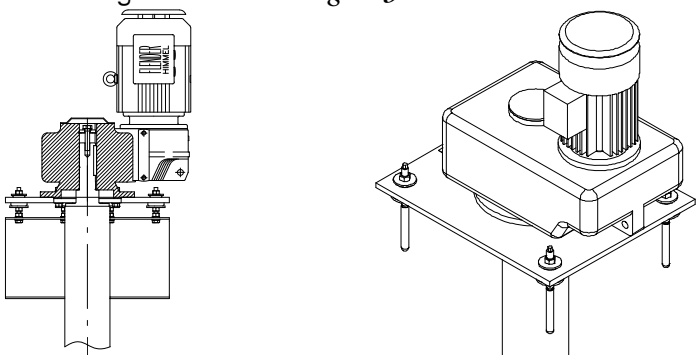


Figure 3: Connection of the Shaft and the Gearbox

The material of the gearbox housing is cast iron covered with a high-quality epoxy coating having. It is connected to the mounting base using a flange connection with stainless steel nuts and bolts.

The motor is a robust three phase squirrel cage motor with helical gear from a renowned manufacturer produced for highly efficient operation having the following specifications:

- weather protection hood
- increased protection of the winding against humidity and acid
- inner corrosion protection of motor
- high-quality protective varnishing against corrosion
- protection type IP55
- ISO-class F

The gearbox is built as a parallel helical gear shaft with the following specifications:

- a calculated lifetime L10 of the bearings of approximately 100,000 h
- high-quality protection against corrosion
- covered hollow shaft

4.2 Mounting base

The mounting base of a **HYPERCLASSIC**® Mixer consists of a gear base plate mounted in rubber buffers connected permanently to the bridge by bolted connection (see *Figure 4*). The gear plate is designed as a distortion-proof steel structure with an impact-proof powder-coated surface. The plate can be leveled out using the threaded bolts which can be adjusted in height. The rubber buffers absorb starting-up jolts, prevent any transfer of vibrations to the bridge and constitute the galvanic separation of the mixer from its surroundings.

The mounting base can be supplied with two different fastening sets: a fastening set for concrete bridges with threaded rods and chemical reaction anchors which are permanently anchored in the concrete, and a fastening set with through bolts for connecting to steel bridges or girders. The following Figure 4 shows the to different way of connecting the mixer to the bridge:

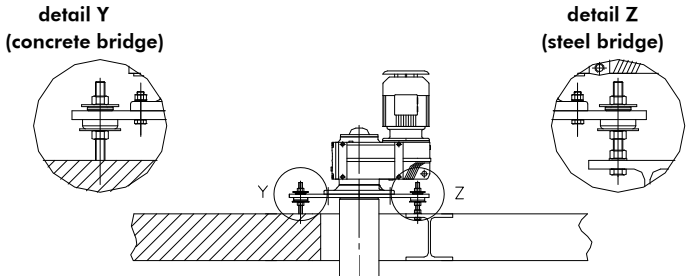


Figure 4: Connection of the Mixer to the Bridge

4.3 Shaft

The drive shaft of the **HYPERCLASSIC**® Mixer evo7 is made from high quality fiberglass reinforced plastic. It is therefore resistant to chemical attack and of course to wastewater. High salt levels as usually encountered when using precipitants or in industrial wastewater treatment plants present no problems to the shaft material. At the top end there is a steel tappet for the connection to the gear hollow shaft. At the lower end there is a screw connection to the mixer body.

4.4 Hyperboloid Mixer Body

- The Hyperboloid Mixer Body is a fluid-mechanical optimized body. The optimized version Evolution 7 shows a developed transport rib design and therefore an energy efficient acceleration of the flow. It is made of made of up to date, high-strength impact resistant polymer material.

5 Scope of Supply

5.1 HYPERCLASSIC® Mixer Configuration

	Quantity	Component	Material
Mixer Configuration	1	Drive Unit (Motor and Gearbox)	Gearbox housing made from cast iron with: ▪ Polyurethane (PU)-coating (primer + PU-topcoat) ▪ Corrosivity Category C3[1] ▪ Color RAL 5018 ▪ Reinforced Bearings ▪ Synthetic Oil suitable from – 20 °C to + 40 °C ▪ Oil Gauge Glass Three-phase asynchronous motor suitable for direct start[2]: ▪ Nema Premium Class ▪ Plastic Fan ▪ Enclosure IP 65
	1	Mounting Base	Carbon steel with powder coating and vibration dampeners
	1	Shaft with flanged connection[3]	High quality FRP
	1	Hyperboloid Mixer Body with flanged connection[3]	High-strength impact resistant polymer material
	1 set	Assembly Hardware	316 stainless steel
	1 set	Assembly Tools	Shaft Clamp

6 Mixer Layout Anoxic Zones

We recommend the following hyperboloid mixer configuration for the wastewater and basin properties described in Section 1, with the following technical data:

- Total Number of mixers :	8	
- Number of mixers per basin/zone:	1	
- Model:	HCM/2500-20-5.0hp	
- Diameter:	98.4	in (2,500 mm)
- CyberProp Add On	70	in
- Speed:	21.9	rpm
- Installed motor power:	5.0	hp
- Power input:	2.4	hp
- Power consumption:	2.9	hp
- Power density:	0.08	hp/1000 cuft
- Power reserve:	≥ 45	%
- Voltage:	460	V
- Nominal current at 460 V, 60 Hz:	7.2	A
- Starting current:	65.5	A
- Total weight:	1,102	lb
- Average bottom flow velocity:	≥ 21.0	in/s
- Mixer pumping capacity:	≥ 10,643	cuft/min
- Distance from bottom:	9.8	in
- Rated torque:	15,400	lb.in
- Start-up torque:	63,141	lb.in
- Static axial force:	1,104	lbf
- Dynamic axial force:	699	lbf

6.1 Remarks

- Motor is ready for frequency inverter use..
- During operation the mixer body has to be sufficiently submerged to avoid additional forces on the shaft and gear. Pass through operation is not allowed by default. Options for pass through operations on request.
- The Mixers will be supplied with the unique CYBERPROP blade to enhance vertical mixing in the basin.



Mixer with CYBERPROP add on

7 Budgetary Pricing 90%

7.1 HyperClassic® Mixer

Total price for the **HYPERCLASSIC®** Mixers as described herein, with packaging:

(8) **HYPERCLASSIC®** Mixers HCM 2500-20-5HP

7.2 Transport and Transport Insurance

Transportation and delivery (DDP) to project site included.

7.3 Site visits by INVENT personnel

Equipment Start-up supervision and assistance:
1 Visit of one **INVENT** technician, each 1 day, including travel and living expenses
1 Visit of one **INVENT** technician, each 2 day, including travel and living expenses

On site training by one **INVENT** technician:
2 Visit of one **INVENT** technician, each 4 hours, including travel and living expenses

Additional field service is available at the prevailing rate at the time of the request

Total price, excluding taxes if applicable: **$ 312,600.-**

7.4 HyperClassic® Mixer - DEDUCT

In case **INVENT** standard SEW-Eurodrive motors and gearboxes are accepted we will be able to deduct the following:

(8) **HYPERCLASSIC®** Mixers HCM 2500-20-5HP with SEW-Eurodrive motors
- Standard coating and NEMA Premuim Efficiency

Deduct for the total of 8 Mixers -/- $ 28,600.-

Excluded are:

- Any walkway or support construction
- Any control panels or H-0-A panels
- Any frequency drives
- Any testing
- All labor to install the equipment
- The unloading of the goods. Buyer is responsible for unloading the goods. The buyer is responsible for keeping goods safe before assembly.
- Lifting gears for the assembly have to be supplied by the client.
- Electricity must also be supplied by the client free of charge.
- The basins must be empty, cleaned and dry for the assembly.
- The assembly will only be supervised by **INVENT**, not installed.
- The drilling of the holes for the chemical anchors.
- Any possible required adjustment of the handrails.
- Electrical connecting of the motors
- Scaffolding to enable the access of side of the concrete platform and bridge, if required.

We reserve the right to carry out technical changes, which serve to the improvement of our products.

Thank you for your interest in the **INVENT** technologies. We look forward to the opportunity to work together.

INVENT Environmental Technologies Inc.

Marcel Huijboom

8 Commercial conditions

8.1 Guarantee

- The guarantee period is 12 months after start up of the system. The guarantee is only valid if all **INVENT** Environmental Technologies Inc guidelines for the operation and start up of the systems have been followed. If the equipment is not put into service, the guarantee period begins at the latest 4 weeks after the completion of the plant construction. If there is no assembly the time of guarantee starts 6 months after delivery and/or notification of readiness for transport.
- Our guarantee is based on the data and documents we have received prior to purchase of the equipment. We assume that the client has informed us about all possible flow obstacles, such as inflows and outflows. Flow disturbances or damages resulting from flow obstacles or other flow generators, inflows, and outflows are not part of our guarantee.

8.2 Delivery Time

Submittal drawings will be provided 6 – 8 weeks after acceptance of purchase order.

The equipment will be ready to ship approximately 22 - 24 weeks after approval of submittal documents and the receipt of down payment.

8.3 Delivery Terms

All prices are ex works unless otherwise indicated.

8.4 Terms of Payment for goods (EXW)

a) 25% upon placement of the order
b) 70 % upon submittal approval
b) 5 % upon delivery, or announcement of readiness for shipment

8.5 Period allowed for payment

All prices are payable net within 30 days after the receipt of the invoice

8.6 Binding period of quote

The offer is valid for 90 days.

9 Commercial conditions

INVENT ENVIRONMENTAL TECHNOLOGIES, INC.

TERMS AND CONDITIONS OF SALE

Offer and Acceptance. ANY ACCEPTANCE OF THIS OFFER IS LIMITED TO ACCEPTANCE OF THE EXPRESS TERMS AND CONDITIONS CONTAINED HEREIN AND IN ANY QUOTATION AND/OR SALES ORDER ACKNOWLEDGEMENT WHICH IS ISSUED BY **INVENT**. ANY PREVIOUS OFFERS MADE BY BUYER, WHETHER WRITTEN OR VERBAL, NOT ALREADY EXPRESSLY ACCEPTED BY **INVENT** IN WRITING ARE HEREBY OBJECTED TO AND REJECTED. IN NO EVENT SHALL THIS OFFER BE DEEMED AN ACCEPTANCE OF ANY PRIOR OFFER BY BUYER. THE TERMS AND CONDITIONS BELOW SHALL SUPERSEDE ANY PROVISIONS, TERMS AND CONDITIONS CONTAINED ON ANY PURCHASE ORDER, CONFIRMATION, OR OTHER WRITING THE BUYER MAY GIVE OR RECEIVE, AND THE RIGHTS OF THE PARTIES SHALL BE GOVERNED EXCLUSIVELY BY THE PROVISIONS, TERMS AND CONDITIONS HEREOF. NO CONTRARY, ADDITIONAL OR DIFFERENT PROVISIONS, TERMS OR CONDITIONS SHALL BE BINDING ON **INVENT** UNLESS ACCEPTED BY **INVENT** IN A WRITING WHICH MAKES SPECIFIC REFERENCE TO THIS OFFER AND ACKNOWLEDGES SUCH MODIFICATIONS OR REVISIONS. ONCE THIS OFFER IS ACCEPTED BY BUYER, THIS ORDER MAY BE CANCELED ONLY WITH **INVENT'S** WRITTEN CONSENT AND UPON TERMS THAT WILL INDEMNIFY **INVENT** AGAINST ANY AND ALL LOSS. **INVENT'S** COMMENCEMENT TO PROCURE THE GOODS OR SHIPMENT OF THE GOODS WHICH ARE THE SUBJECT OF THIS OFFER SHALL BE DEEMED AN EFFECTIVE MODE OF ACCEPTANCE OF THIS SALES ORDER BY BUYER, UNLESS BUYER, WITHIN A COMMERCIALLY REASONABLE TIME AFTER BUYER BECOMES AWARE, OR SHOULD HAVE BECOME AWARE, OF **INVENT'S** COMMENCEMENT TO PROCURE THE GOODS HEREIN OR OF SHIPMENT OF SUCH GOODS, NOTIFIES **INVENT** IN WRITING THAT BUYER OBJECTS TO AND REJECTS THIS OFFER. THIS OFFER IS SUBJECT TO **INVENT'S** CREDIT APPROVAL OF BUYER.

Quotations and Prices; Other Charges. Written quotations automatically expire 90 calendar days from the date issued and are subject to termination by notice within that period. Unless otherwise expressly provided in this sales order, the prices quoted or referred to herein do not include any charges for packaging, freight, transportation, custom duties, tariffs, import or other taxes, insurance, or any other charges relating to the transportation and shipment to or use by Buyer of the products sold under this sales order. Such charges and/or taxes shall be the sole responsibility of and shall be borne exclusively by Buyer. Wherever applicable, any such charges and/or taxes will be added to the invoice as a separate charge to be paid by Buyer. If **INVENT** is required to pay any such charges and/or taxes, Buyer agrees to reimburse **INVENT** for any amounts so paid upon demand.

Payment Terms. **INVENT** shall bill Buyer for all purchases made under this sales order by invoice sent to Buyer at Buyer's address shown on the sales order. All invoices submitted by **INVENT** to Buyer shall be payable net within thirty (30) days after the date of said invoices. All payments due to **INVENT** hereunder shall be paid in United States dollars to **INVENT**, or to such entity or person as is designated by **INVENT**, in accordance with the remittance instructions contained in the invoice. If payment is not received within the prescribed period, interest shall accrue on any unpaid balance from its due date until payment is made at the rate of one and one half percent (1.5%) per month or the highest interest rate allowable by law, whichever is less. If in **INVENT's** opinion the financial condition of Buyer at any time does not justify continuance of production or shipment on the terms of payment specified herein, **INVENT** may require full or partial payment in advance. Buyer understands and agrees that its obligation to make payments to **INVENT** shall be absolute and unconditional under any and all circumstances, whether or not **INVENT** violates any of its obligations described herein or otherwise, and such payments shall not be subject to any defense, set-off, or counterclaim for any reason whatsoever.

Shipment and Delivery. This offer is made with the understanding that it is subject to **INVENT's** ability to obtain the materials necessary to supply the goods hereunder. Unless otherwise indicated on the sales order, all goods shall be delivered F.O.B. **INVENT's** Cedar Grove, New Jersey location. **INVENT** will endeavor to meet all scheduled dates indicated on the sales order, or otherwise requested in writing by Buyer and accepted in writing by **INVENT**; provided, however, that all shipments are subject to **INVENT's** availability schedule. If shipment of goods is delayed at the request of Buyer, then **INVENT** shall be entitled to place the goods in storage for the account of Buyer, and all expenses incurred by **INVENT** in connection with the storage, handling, preservation, or insurance of the goods shall be paid by Buyer upon presentation of **INVENT's** invoice. Method and route of shipment are at **INVENT's** discretion, unless Buyer supplies explicit written instructions and Seller agrees in writing to such instructions. Unless otherwise indicated in the sales order, all shipments are insured at Buyer's expense and made at Buyer's risk. Identification of the goods to the contract shall occur as each shipment is placed in the hands of the carrier. Nondelivery by **INVENT** as to any product shall not be deemed a breach of this agreement. Any non-delivery shall not relieve Buyer from its obligation to accept or be responsible for any subsequent or prior shipment. All shipments shall be packaged in accordance with the standard packaging specified in the sales order. If no particular packaging is specified in the sales order, all goods shall be shipped in accordance with **INVENT's** standard packaging. **INVENT** shall have no responsibility to obtain insurance on any shipment of Product. **INVENT** shall have the additional right, in the event of the happening of any of the above contingencies, at its option, to cancel this contract or any part hereof without any resulting liability. Shipments made within thirty (30) days after specified date of delivery shall constitute a good delivery. Normal tolerances in specifications shall be acceptable. **INVENT** shall not be obligated to take back any packaging materials and Buyer shall be solely responsible, at Buyer's sole cost and expense, for the disposal of packaging materials.

Title and Risk of Loss; Security Interest. Title to and risk of loss and damage for any shipment of goods shall pass to Buyer immediately upon delivery of such shipment to Buyer or its designated agent or upon deposit with a common carrier in accordance with Buyer's instructions, whichever occurs first. **INVENT** shall retain a security interest in the goods shipped to Buyer until the entire balance of the price of such goods and all other monies then due are paid in full. Buyer hereby authorizes **INVENT** to file U.C.C. financing statements, without Buyer's signature, to perfect its security interest in all goods shipped which have not been paid for in full. In the event Buyer defaults on any payment or makes an assignment for the benefit of creditors, or if a proceeding in insolvency or bankruptcy is initiated by or against Buyer, whether voluntary or involuntary, **INVENT** shall have the right to withhold shipments, in whole or in part, and to recall goods in transit, retake same, and remove and/or repossess goods which may be stored with **INVENT** for Buyer's account, without the necessity of taking any other proceedings and to take such other action as may be necessary to protect its security interest, including any other remedies **INVENT** may have at law, in equity, or otherwise. The foregoing rights and remedies shall be in addition to, and not in lieu of, any other rights and remedies which **INVENT** may have hereunder or otherwise, whether at law, in equity, or otherwise.

Product Warranty. **INVENT** warrants that the products supplied hereunder shall conform at time of delivery to the written specifications accepted by **INVENT**, if any, subject to **INVENT's** standard tolerances for variations.

Disclaimer. **INVENT'S** SOLE LIABILITY AND BUYER'S EXCLUSIVE REMEDY FOR A BREACH OF THE WARRANTY SHALL BE, AT **INVENT'S** SOLE OPTION, CREDIT OR REPLACEMENT OR REPAIR OF THE NONCONFORMING PRODUCT. FURTHERMORE, SUCH WARRANTY SHALL NOT APPLY TO, AND SHALL BE NULL AND VOID WITH RESPECT TO, ANY GOODS (i) WHICH ARE ALTERED, MODIFIED, DAMAGED, REPAIRED, ABUSED, MISUSED, OR IMPROPERLY ASSEMBLED, COMMISSIONED, OR INTEGRATED (WHETHER INTENTIONALLY OR ACCIDENTALLY) BY ANY PERSON OTHER THAN **INVENT** OR ITS AGENTS, (ii) WHICH, NOTWITHSTANDING THEIR NONCONFORMITY, ARE USED OR OTHERWISE ACCEPTED BY BUYER, OR (iii) WITH RESPECT TO WHICH BUYER HAS WAIVED ITS CLAIM FOR REJECTION UNDER THE PROVISIONS OF

THE SALES ORDER. THE FOREGOING WARRANTY SET FORTH ABOVE IS IN LIEU OF ALL OTHER WARRANTIES, AND **INVENT** DISCLAIMS ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE AND/OR PARTICULAR PURPOSE.

Limitation of Liability. **INVENT** SHALL NOT UNDER ANY CIRCUMSTANCES BE LIABLE FOR SPECIAL, INDIRECT, PUNITIVE, OR CONSEQUENTIAL DAMAGES OF ANY NATURE WHATSOEVER, INCLUDING, WITHOUT LIMITATION, ANY LOST REVENUES, PROFITS, OR BUSINESS OF BUYER OR ITS CUSTOMERS, AGENTS, AND DISTRIBUTORS, RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH, ANY SALE, MANUFACTURE, DISTRIBUTION OR ANY USE OF ANY GOODS OR FOR ANY FAILURE OF SUPPLY OF ANY GOODS FOR ANY REASON, WHETHER OR NOT **INVENT** HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE FOREGOING LIMITATION OF LIABILITY SHALL NOT BE CONSTRUED TO APPLY ONLY TO DAMAGES OCCURRING AS A RESULT OF A BREACH OF PRODUCT WARRANTY, BUT SHALL APPLY TO ANY DAMAGES OCCURRING AS A CONSEQUENCE OF THIS SALES ORDER. BUYER'S SOLE REMEDY FOR BREACH OF PRODUCT WARRANTY IS SET FORTH IN THE PRODUCT WARRANTY SECTION ABOVE.

Acceptance; Rejection. Except as provided in this paragraph, Buyer shall accept all goods shipped in accordance with the terms and conditions of this sales order. Buyer may reject any shipment of any goods to the extent such shipment does not conform in any material respect with the written specifications accepted by **INVENT**, if any. Buyer shall not have the right to reject any goods due to negligible defects. In order to reject a shipment, Buyer must give written notice to **INVENT** within ten (10) days after receipt of the shipment, together with a reasonably detailed written statement of its reasons for rejection. If no such notice is received, then Buyer shall be determined to have accepted the shipment of the goods. In no case shall Buyer return goods without first obtaining **INVENT's** permission in writing. **INVENT** shall, within a reasonable period of time, notify Buyer whether it accepts Buyer's assertions of nonconformity. If **INVENT** disagrees with any alleged nonconformity by Buyer, then an independent party mutually agreed upon by the parties shall analyze the goods in question as may be necessary to substantiate whether the goods rejected by Buyer conformed in all material respects to the specifications accepted by **INVENT** therefore, if any. Both parties agree to cooperate with the independent party's reasonable requests for assistance in connection with its analysis hereunder. Both parties shall be bound by the independent party's results of analysis. The costs incurred by the parties shall be borne by the losing party. If **INVENT** or the independent party confirms the nonconformity, **INVENT** shall, at its sole option, replace (if it has not already done so) the nonconforming goods with conforming products as promptly as reasonably possible or credit to Buyer the purchase price therefor.

Indemnification. Buyer shall indemnify, defend, and hold **INVENT** harmless from and against any and all loss, cost, liability, and expense (including, without limitation, reasonable attorneys' fees and costs) incurred and/or paid by **INVENT** resulting from or arising out of or in connection with (a) any representation or warranty made to any third party by Buyer, its affiliates, agents, distributors, or employees which is not expressly authorized by **INVENT** in writing and (b) any claims asserted or actions filed against **INVENT** by a third party, including claims for personal injury or property damage, except if liability for such claims or actions arises from the willful misconduct of **INVENT**.

Force Majeure. Except where set forth expressly herein, neither party shall be liable for any delay or for any consequence of any delay in the delivery or purchase, as the case may be, of any goods if such delay shall be due to (a) any cause beyond its reasonable control, including, but not limited to, acts of God or the public enemy, acts of terrorism, valid law, acts or requests of any national or provincial government, or of any national or provincial officer or agent purporting to act under duly constituted authority, wars, floods, fires, storms, strikes, lockouts, delivery of nonconforming or defective material, supplies, or equipment, interruptions of transportation,

freight embargoes or failures, exhaustion or unavailability on the open market (or delays in delivery) of material, supplies, equipment, or services necessary for the performance of any provision hereof, or (b) the happening of any unforeseen acts, misfortune, or casualty by which performance hereunder is delayed or prevented; provided, however, that the party so affected will use all commercially reasonable efforts to remedy the situation, except that nothing contained herein shall require such party to make settlement of any labor dispute on terms unacceptable to it and no such party shall be liable to the other for any losses, damages, or costs by reason of its inability to remedy the situation. If any such delay occurs, then (unless the cause thereof shall frustrate or render impossible or illegal the performance of this contract or shall otherwise discharge the same), the parties' periods for performing their respective obligations shall be extended by such period (not limited to the length of the delay) as the other party may reasonably require to complete the performance of its obligation.

Insurance. Buyer agrees to carry and maintain at all times after this sale products liability insurance in good and sufficient amounts to cover products liability claims with respect to all products which are subject to this sales order. Buyer will, upon request, name **INVENT** as an additional insured under such insurance and furnish **INVENT** with proper evidence of such coverage.

Subcontracting and Assignability. This agreement, and the performance of any obligations hereunder, may not be assigned by a party hereto without the prior written consent of the other party, but shall be binding upon and inure to the benefit of and be enforceable by the parties hereto and any permitted successors, assignees, and legal representatives; provided, however, that **INVENT** shall be entitled to assign its obligations under this agreement, without the prior written consent of Buyer, to any corporation which controls, is controlled by, or is under common control with **INVENT** or to any corporation which succeeds as a going concern to the business presently conducted by **INVENT**.

Severability. If any part of this agreement shall be held unenforceable, the remainder of the agreement shall nevertheless remain in full force and effect.

Relationship of the Parties. All parties are independent contractors under this agreement. Nothing contained in this agreement is intended nor is to be construed so as to constitute the parties as partners or joint venturers with respect to this agreement. Neither party hereto shall have any express or implied right or authority to assume or create any obligations on behalf of or in the name of the other party to any other contract, agreement or undertaking with any third party.

Governing Law; Forum; Enforcement. This sales order and any disputes between the parties arising in connection with this sales order or the agreement resulting from Buyer's acceptance hereof shall be governed by and interpreted in accordance with the laws of the State of New Jersey as if the agreement was performed wholly within the State of New Jersey and without regard to its conflict of law principles. All disputes arising out of this agreement shall be resolved by a court of competent jurisdiction in the State of New Jersey and both parties hereby consent to the jurisdiction of the courts of the State of New Jersey and the Federal District Court for the District of New Jersey; provided that **INVENT** shall have the right to pursue any such action in any court with jurisdiction over Buyer. **INVENT** and Buyer hereby waive and exclude the application of the U.N. Convention on Contracts for the International Sale of Goods in the interpretation and enforcement of this agreement. In the event **INVENT** takes or maintains any action to enforce its rights hereunder and prevails thereafter, Buyer shall reimburse **INVENT** for its reasonable costs and expenses incurred, including, without limitation, reasonable attorneys' fees and costs.

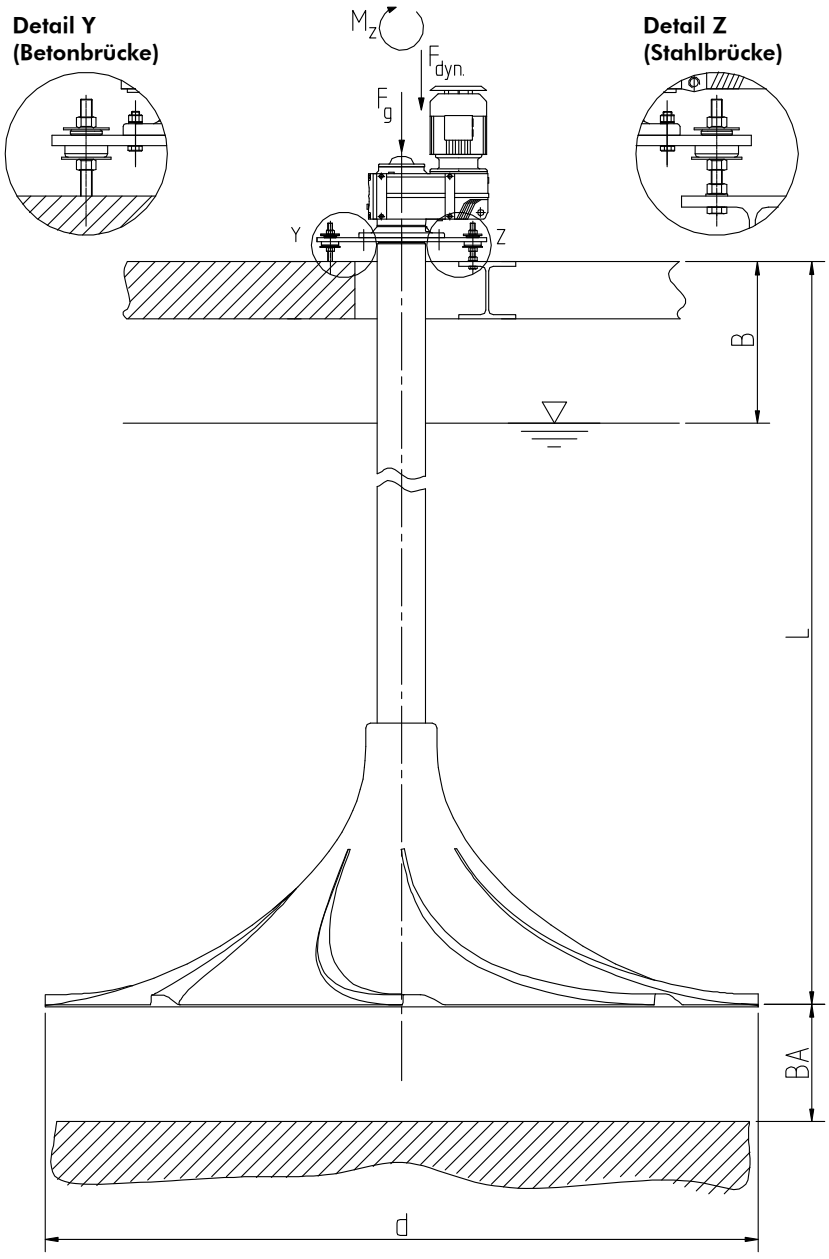
Compliance with Laws. Buyer shall comply with all laws, rules, regulations, and other requirements of local, state, and federal governments in connection with its performance hereunder. Buyer shall obtain and supply, at

Buyer's sole cost and expense, any required import licenses and any other required permits, licenses, approvals, and similar items.

Entire Agreement; Modification; Waiver. This sales order contains the entire agreement of the parties regarding the subject matter hereof and supersedes all prior purchase orders, bills of lading, invoices, proposals, letters of intent, agreements, understandings, and negotiations regarding the same. No modification of this order shall be effective without **INVENT's** written consent. Except as otherwise provided herein, in no event shall this agreement be deemed amendable or amended by any purchase order, bill of lading or invoice issued and/or accepted by either party hereto. Any waiver of strict compliance with the provisions of this order shall not be deemed a waiver of **INVENT's** rights, privileges, claims, or remedies nor of **INVENT's** right to insist on strict compliance thereafter.

Non-Exclusive Royalty Free License: **INVENT** Environmental Technologies Inc grants the Customer a non-exclusive royalty-free license to use any process or apparatus claimed in any patent owned by **INVENT**, but only to the extent that this license is required by Customer to operate the equipment as supplied by **INVENT**. All other rights reserved.

Attachment A – Mixer Layout Drawing



Chandler WRF Improvements Project

GMP 2 Work Category Solicited Subcontractors Summary

Work Category: **11E Secondary Clarifiers**

Subcontractor/Supplier Name	***Status***
Walker (Recommended) (Low if Alternate is included)	*Proposed*
Wes Tech (Low if Alternate is not included)	*Proposed*
Ovivo	*Proposed*
Zima Corp	*Proposed*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **11E - Secondary Clarifier Mech**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Walker Process Equipment	Wes Tech Engineering LLC	Ovivo	Zima Corp/Kusters	
		Jeff Thomas	James Hanson	Tor Heimdal	Kenneth Kruse	
		630-892-7921 x5213	801-265-1000	(801) 931-3000	864-576-0660	
		jthomas@walker-process.com	munisales@westech-inc.com	tor.heimdal@ovivowater.com	ken.kruse@zimacorp.com	
	TOTAL WORK CATEGORY PACKAGE VALUE	**$854,427**	**$843,957**	**$1,019,302**	**$1,050,717**	
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	Yes	Yes	Yes	Yes	
2	Bid Submitted on McCarthy Bid Form	Yes	Yes	Yes	Yes	
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	Yes	Yes	Yes	Yes	
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing. (The date on the letter provided should be within the last 30 days and the letter should include the status of their line of credit.)	No	Yes	No	No	
5	Surety Company	Great American Insurance Co	Fidelity & Deposity Company of Maryland	AIG Insurance Company of Canada	No	
6	Surety AM Best Rating (Must be A- or Better)	Yes	Yes	Yes	No	
7	AM Best Financial Size X($500M to $750M) or higher	Yes	Yes	Yes	No	
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	Yes	Yes	Yes	No	
9	Bond/CDI Cost	1.200%	1.440%	2.500%	1.295%	
10	Included Insurance Requirements (Per Matrix)	Yes	Yes	Yes	Yes	
11	GL Insurance Company Name	National Trust Insurance Co	Zurich American Insurance Co	AIG Insurance Company of Canada	No	
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	Yes	Yes	Yes	No	
13	PRL Insurance (If required by the Front Ends)	Yes	Yes	Yes	Yes	
14	Pollution Insurance (If required by the Front Ends)	N/A	N/A	N/A	N/A	
15	Tier 1 Approved	Yes	Yes	Yes	No	
16	Tier 2 Approved	N/A	N/A	N/A	N/A	
17	Safety Items:	N/A	N/A	N/A	N/A	
18	OSHA Recordable Incident Rate (Current)	N/A	N/A	N/A	N/A	
19	Agrees to comply with PPE requirements including 100% glove policy	N/A	N/A	N/A	N/A	
20	Acknowledges updated ladder policy (platform ladders)	N/A	N/A	N/A	N/A	
21	Task Hazard Analysis included for all tasks	N/A	N/A	N/A	N/A	
22	Tie-off above 6' required	N/A	N/A	N/A	N/A	
23	Includes Hoisting for Sub's Own Work Scope	N/A	N/A	N/A	N/A	
24	Acknowledges Soils Report	N/A	N/A	N/A	N/A	
25	Acknowledges Addenda	Yes	Yes	Yes	Yes	
26	Hold Bid for 150 Days	Yes	Yes	$35,940	Yes	
27	Pricing good for the duration of the project	Yes	Yes	$23,960	Yes	
28	Sales Tax Excluded	Yes	Yes	Yes	Yes	
29	**COVID-19 Market Questions**					
30	How has your work program been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No	No	No	No	
31	Have you had any future work opportunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No	No	No	No	
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No	No	No	
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No	No	No	No	
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No	No	No	
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No	No	No	No	

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **11E - Secondary Clarifier Mech**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Walker Process Equipment	Wes Tech Engineering LLC	Ovivo	Zima Corp/Kusters	
		Jeff Thomas	James Hanson	Tor Heimdal	Kenneth Kruse	
		630-892-7921 x5213	801-265-1000	(801) 931-3000	864-576-0660	
		jthomas@walker-process.com	munisales@westech-inc.com	tor.heimdal@ovivowater.com	ken.kruse@zimacorp.com	
	TOTAL WORK CATEGORY PACKAGE VALUE	**$854,427**	**$843,957**	**$1,019,302**	**$1,050,717**	
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No	No	No	No	
37	Do you have any overseas suppliers that may be impeding your supply chain?	No	No	No	No	
38						
39	Per Plans & Specifications	Yes	Yes	Yes	Yes	
40	Division 1 as it relates to this scope of work	Yes	Yes	Yes	Yes	
41	05051 - Anchor Bolts, Toggle Bolts, and Concrete Inserts	Yes	Yes	Yes	Yes	
42	05500 - Metal Fabrications	Yes	Yes	Yes	Yes	
43	09900 - Painting	Yes	Yes	Yes	Yes	
44	11335 - Secondary Clarifier Mechanism	Yes	Yes	Yes	Yes	
45	13128 - Electric Operator	Yes	Yes	Yes	Yes	
46	16161 - Control Panels	Yes	Yes	Yes	Yes	
47	16485 - Variable Frequency Drives - Low Voltage	Yes	Yes	Yes	Yes	
Scope of Work						
Base Bid:		$837,325	$824,777	$798,667	$1,017,084	
48	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 11E - Secondary Clarifier Mechanism, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	Yes	Yes	Yes	
49	Check to Spec completed and submitted to McCarthy	Yes	Yes	Yes	Yes	
50	2 year warranty from Final Acceptance (Aug 2023)	Yes	Yes	Yes	Yes	
51	(2) Complete Clarifier Mechanisms; Center column, bottom feed, peripheral overflow with center drive mechanism rotating and suspended cage with 2 spiral sludge scraper rake arms and two rotating scum skimming arms	Yes	Yes	Yes	Yes	
52	Column support structure	Yes	Yes	Yes	Yes	
53	Walkway bridge with stairs, center platform, and handrail	Yes	Yes	Yes	Yes	
54	Walkway bridge to be prime coated steel with alum grating	Yes	No- Alum	-$30,000	Yes	
55	Final Coating	By WC 09E	By WC 09E	By WC 09E	By WC 09E	
56	Access Stairs to Clarifier	$11,620	Yes	$13,000	$13,000	
57	Torque Monitor (Not a spec requirement)	-$11,800	Yes	Yes	Yes	
58	Scum Skimmer	Yes	Yes	$44,074	Yes	
59	Scum Trough	Yes	Yes	Yes	Yes	
60	Launder brushes	Yes	Yes	Yes	Yes	
61	Effluent Weir Plates	Yes	Yes	Yes	Yes	
62	Scum Baffles	Yes	Yes	$86,600	Yes	
63	Density Baffles and Weirs including FRP Washers and 304 SST Hardware	Yes	Yes	Yes	Yes	
64	Control Panels; Local Vendor for control panels	Yes	Yes	$15,000	Yes	
65	Energy Dissipating Inlet Equipment	Yes	Yes	Yes	Yes	
66	Structural Steel to be 304 SST	Yes	Yes	Yes	Yes	
67	Hardware to be 316 SST	Yes	Yes	Yes	Yes	
68	Painting and surface prep	Yes	Yes	Yes	Yes	
69	Spare Parts per the Specifications	Yes	Yes	Yes	Yes	
70	Factory Test the Control Panel Prior to shipment	Yes	Yes	Yes	Yes	
71	Field Torque Test	Yes	Yes	Yes	Yes	

Project Name: Chandler WRF Improvements
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Work Category: **11E - Secondary Clarifier Mech**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Walker Process Equipment	Wes Tech Engineering LLC	Ovivo	Zima Corp/Kusters	
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		jthomas@walker-process.com	munisales@westech-inc.com	tor.heimdal@ovivowater.com	ken.kruse@zimacorp.com	
	TOTAL WORK CATEGORY PACKAGE VALUE	**$854,427**	**$843,957**	**$1,019,302**	**$1,050,717**	
72	Equipment start up and testing per specification	Yes	Yes	Yes	Yes	
73	Oil/Lubrication Needed for Start Up	$2,450	$2,500	$2,500	$2,500	
74	Structural calculations stamped by Engineer	Yes	Yes	Yes	Yes	
75	Strobe light and weather proof housing with non-corrodible industrial type relay/reset button to be provided	Yes	Yes	Yes	Yes	
76	Shipping shall be FOB jobsite	Yes	Yes	Yes	Yes	
77	Provide all anchors and epoxy required for the installation of the equipment	Yes	Yes	Yes	Yes	
78	Preventative maintenance procedures	Yes	Yes	Yes	Yes	
79	O&M's per specification section 01781	Yes	Yes	Yes	Yes	
80	Training: per the Spec - 1 Trip 1 (8) Hour days not including travel time	Yes	Yes	Yes	Yes	
81	Performance testing: Per Spec	Yes	Yes	Yes	Yes	
82	Startup days/trips included: 2 trips, 3 (8) hour days not including travel time	Yes	Yes	Yes	Yes	
83	Cost per additional day/trip: 1 trip for 1 (8HR) Day	No	$2,300/Day	No	No	
84	Addition Trip Days	$4,600	$4,600	$4,600	$4,600	
85	Storage and Protection	$2,100	$2,100	$2,100	$2,100	
86	**GMP 1 Early Submittal**	-$2,000	-$2,000	-$2,000	-$2,000	
87	COVID-19 Scope Items					
88	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes	Yes	Yes	Yes	
89	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes	Yes	Yes	Yes	
90	All personnel onsite must maintain 6'0" spacing between personnel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes	Yes	Yes	Yes	
91	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes	Yes	Yes	Yes	
92	All tools and equipment used must be sanitized each day.	Yes	Yes	Yes	Yes	
93	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes	Yes	Yes	Yes	
94	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes	Yes	Yes	Yes	
95	Personnel are not allowed to carpool to the site or while onsite.	Yes	Yes	Yes	Yes	
96	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the appropriate testing and quarantine protocols.	Yes	Yes	Yes	Yes	
97						
98	End of Scope					
99	Bond/CDI Cost	$10,132	$11,980	$24,861	$13,433	
	TOTAL WORK CATEGORY PACKAGE VALUE	**$854,427**	**$843,957**	**$1,019,302**	**$1,050,717**	

08-19-2014 Rev.
Front Ends

BID PROPOSAL

Date 4/6/21

Bid Proposal of * WALKER Process Equipment Div. of McNish Corp. (hereinafter called "Bidder")

a ** Corporation organized and existing under the laws of the State of Ohio.

* Insert name of firm.
** Insert corporation, partnership, or individual, as applicable.

(INSERT OWNER'S ADDRESS)
TO: McCarthy Building Companies, Inc.
6225 North 24th Street, Suite 200
Phoenix, Arizona 85016

The Bidder, in compliance with your Invitation for Bids for the construction of Chandler Water Reclamation Facility Improvements having examined the Contract Documents entitled City of Chandler, Chandler WRF Improvements Project, and other related documents and being familiar with the site of the proposed work, and with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, and the progress of work to date, if any, hereby proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, perform all work, provide all services, and to construct all work in accordance with the Contract Documents set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required.

The Bidder shall attach a copy of Bidders' detailed estimate to its Bid Proposal. This estimate shall identify all quantities shown in the documents or anticipated along with corresponding labor, material and equipment pricing.

After Bid Proposals are received, tabulated, and evaluated by McCarthy, said Bidder agrees to meet with McCarthy for the purpose of determining any duplications, omissions, or mutually agreed bid adjustments. For these meetings, the Bidder agrees to provide a complete, detailed cost breakdown; a list of all sub-subcontractors proposed for use in the work; and a list of all items, materials and their manufacturers proposed for use in the work.

The Bidder, if awarded a Subcontract, agrees to commence work and to fully complete its Work in accordance with a schedule to be established in collaboration with McCarthy under the provisions of the Additional Subcontractor Conditions of the Specifications.

The Bidder acknowledges receipt of the following Addenda: 1, 2, 3, 4

BASE BID:

The Bidder agrees to perform all Clarifier Mechanism (herein insert the title of the Work Category as it appears in the Additional Subcontractor Conditions) Work for Work Category No. 11E, as described in the Contract Documents, for the Lump Sum of Eight Hundred thirty Seven thousand, three hundred twenty five DOLLARS ($ 837,325.

BID BREAKDOWN:

Airport WRF Total Amount $_____

- Aeration Basin $_____.
- Blower Piping $_____.
- Blower Ductbank $_____.
- Filters $_____.
- Maintenance Bldg $_____.

Ocotillo WRF Total Amount $_____

- Aeration/Anoxic $_____.
- RAS/WAS PS $_____.
- Clarifiers 1& 2 $ 837,325 .
- Filters $_____..
- MCC Replacement $_____..
- Reservoir $_____..
- Roads/Sitework $_____..

Performance & Payment Bond Cost *(If Applicable)* $ 10,050

Total Subcontract Amount $ 847,375

The name of the proposed Bonding Company is Great American Insurance Co.

Bond rate 1 %

All applicable taxes, except sales and use taxes on materials and equipment which are affixed and made a part of the real estate of the Project, are included in the above Base Bid. Bidder agrees that this Bid Proposal shall be good and may not be withdrawn unless McCarthy does not send Bidder a Subcontract within one hundred ~~twenty (160) calendar days~~ fifty (150) calendar days after the opening date of Bid Proposals.

(Amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

ALTERNATES:

The Bidder further agrees that if any or all of the Alternates listed and described below are incorporated and accepted within sixty (60) calendar days after receipt of a Subcontract from McCarthy, the Bidder will adjust its Subcontract by the amount indicated opposite the Alternates listed below.

ALTERNATE NO. 1: Filter Disc in Basin 7 Installation:

ADD the sum of $_____.

ALTERNATE NO. 2: Clarifier 3 Rehabilitation

ADD the sum of $ 381,950 .

ALTERNATE NO. 3: Sludge Holding Tank and Blower Bldg No. 2 4,585

$386,535

P+P Bond Cost

ADD the sum of $_____.

ALTERNATE NO. 4: Removal/Replacement of Diffusers in 2 Aeration Basins

ADD the sum of $_____.

ALTERNATE NO. 5:_____

ADD the sum of $_____.

CHANGE ORDER RATES: (Add separate sheet as needed)

Markup % (on rates and material): _____.

Position: _____ Rate: _____.

Position: _____ Rate: _____.

Equipment: _____ Rate: _____.

Equipment: _____ Rate: _____.

SAFETY RECORDS

The Bidder certifies to the following Experience Modification Rates (EMR) and Incidence Rates for the three (3) most recent years:

	Year 2018	Year 2019	Year 2020
1. Compensation Experience Modification Rate:			
2. Incidence Rate:			
(a) Number of hours employees worked in the year.			
(b) Number of cases defined as recordable, from the OSHA Form 300 Log.			
(c) Total Recordable Incidence Rate = (b) x (200,000 hours) / Hours Worked (a)			

The Bidder understands that McCarthy reserves the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

SELECT AS APPROPRIATE

☐ The Bidder has completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program; OR

☒ The Bidder has not completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program because the Bidder has provided the Form and all such information to McCarthy in the past 12 months for the following project:

_____ Project, which bid on: _____.

RESPONSIVE BID REQUIREMENTS:

DO NOT ENCLOSE YOUR STANDARD TERMS AND CONDITIONS

If any exceptions are taken to the requirements of this Proposal form, attach a separate sheet listing those exceptions, stating the sections and paragraphs and the specific exception.	(initials)
In submitting this proposal, the Bidder certifies that this bid is valid for 150 calendar days.	(initials)
In submitting this Proposal as described herein, we agree to complete the work in accordance with the included Preliminary Construction Sequence.	(initials)
In submitting this Proposal, the Bidder certifies that all cost for extended warranties to start on the date of Substantial Completion is included.	(initials)
In submitting this proposal as described herein, we confirm that we have received, reviewed and agree to all commercial terms stated in the McCarthy Subcontract and Purchase Order Agreement. Any exception taken to the commercial terms stated in these Agreements must be listed on a separate sheet noting the article or paragraph and the specific exception. ***Bidders attached Standard Terms and Conditions will not be acknowledged or accepted as part of any given bid.***	(initials)
In submitting this proposal as described herein, the Bidder certifies that this bid is coordinated based on a complete set of documents and that there will be no claims for change order based on the assertion that the Bidder did not have a complete set of Bidding Documents.	(initials)
In submitting this proposal, the Bidder certifies that they have included all spare parts, training, O & M Manuals, shop drawings and administration costs as associated to comply with the requirements of the specifications and as listed for their scope of work.	(initials)
A bid will be considered non-responsive if the Subcontractor Pre-Qualification Form is not completed as part of the Bid Form **(or on file at McCarthy office)**.	(initials)
The Bidder, by submitting their bid, represents that they have read and understand the scope requirements of the Bidding Documents.	(initials)
The Bidder certifies that any proposed materials in this scope of work meet or exceeds the requirements stated in the specifications unless noted otherwise within this proposal.	(initials)
The bidder certifies that the price listed in this bid is a firm Price through the final delivery of the materials proposed herein, and that no material escalation will be accepted as part of this proposal.	(initials)

Within fifteen (10) days after receipt by the Bidder from McCarthy of the Subcontract or Purchase Order, the Bidder will execute and return to McCarthy said Subcontract or Purchase Order and if notified from McCarthy that Bidder is not to be enrolled in McCarthy's Contractor Default Insurance Program, deliver to McCarthy Performance and Labor and Material Payment Bonds for the Subcontract or a Supply Contract Bond for the Purchase Order, or the difference between the amount of the bid and such larger amount for which McCarthy may subcontract with another party to perform the work covered by said bid, together with all court costs, all attorney fees and all other expense of recovery, all of which shall not exceed the Bid Security attached in the amount of 15% of the bid, will become the property of McCarthy. The bonds shall name McCarthy as Obligee.

If an Individual:

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Partnership:

Authorized Signature: _____

Name (print): _____

Email: _____

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Corporation:

Authorized Signature: Jeffrey C Thomas

Name (print): Jeffrey C. Thomas

Email: jthomas@walker-process.com

Title: Regional Sales Manager

Business Address: 840 N. Russell Ave

Aurora, IL 60506

Telephone (630) 892-7921 x5213

Contractor License Number: _____

General Liability Insurance Carrier (not the agent): National Trust Ins Agency

*Please attach a sample certificate of insurance and current W9 form to your bid.

Division of McNish Corporation

Dedicated to the
Water and
Wastewater Industry

Walker Process Equipment
840 North Russell Avenue
Aurora, Illinois 60506-2853
E-Mail: walker.process@walker-process.com
Website: www.walker-process.com
Phone: 630-892-7921
Fax: 630-892-7951

DATE: **March 31, 2021**

TO:
MCCARTHY BUILDING COMPANIES, INC.
PHOENIX, AZ 85016

SUBJECT: **Chandler, AZ -GMP2**
ENGINEERS: **Wilson Engineers**
BID DATE: **April 7, 2021**
PROPOSAL NO.: **21-0037S**

Gentlemen:

We are pleased to submit this proposal as our offer to sell and furnish the following equipment:

Specification Section 11335 – Secondary Clarifier Mechanism (Work Category 11E)

This proposal is divided into the following sections that together form our complete proposal:

Pricing Summary	Pg. 2-4
Scope of Supply and Clarifications	Pg. 5-6
General Items	Pg. 7-8
Terms and Conditions of Sale	Pg. 9-10
Mechanical Warranty	Pg. 11-12

If we can furnish any clarifications or additional information, please contact our Representative, Ryan Spielman of IES Southwest, Inc., at 480-575-0780. We look forward to the opportunity of working with you in the execution of this project.

Sincerely,
WALKER PROCESS EQUIPMENT
Division of McNish Corporation

Jeffrey C. Thomas
Regional Sales Manager

WPE PROPOSAL included to Show Scope of Supply ONLY Pg 5-6 JT 4/6/21

PRICING SUMMARY

Listed below is a summary of prices for equipment as noted within this proposal. The prices are for equipment as described herein, F.O.B. shipping point with freight prepaid via truck, exclusive of any taxes. Prices quoted herein are based upon the estimated schedules shown, and receipt of approved submittal drawings in our factory within six (6) weeks from the date of our transmittal letter.

NOTE: Please refer to the following pages for clarifications to our scope of supply.

SECTION 11335: (Base Bid)
Two (2) Walker Process Pier supported clarifiers, Type "RSP-S-(S)"
for Installation (by others) in existing 100'-0" dia. concrete tanks #1 & #2
for the price of . . . $_____

Optional Add Item:
Two (2) FRP Weirs, Baffles and Density Current Baffles, supports, 316 stainless steel fasteners, and anchor bolts, for the **Optional Adder price** of . . . $_____

SECTION 11335: (ALT. No. 2)

One (1) Walker Process Pier supported clarifier, Type "RSP-S-(S)" for installation (by others) in existing 100'-0" dia. concrete tank #3, for the price of . . . $_____

Optional Add Item:

One (1) Set FRP Weirs and Baffles, supports, 316 stainless steel fasteners and anchor bolts, for the Optional Add Price of . . . $_____

TIME OF ACCEPTANCE: This offer to sell is subject to receipt of your purchase order on or before October 7, 2021.

The number of this proposal must be referenced in the Purchaser's purchase order. The prices quoted in this proposal are based upon and subject to Purchaser's acceptance of the Terms and Conditions of Sale attached to this proposal. WPE reserves the right to change the prices quoted if the subsequent Purchase Order changes or modifies in any manner, the Scope of Supply or the attached Terms and Conditions of Sale, unless WPE's written consent is first obtained. This proposal shall become a binding contract for the scope of equipment supply and mechanical warranty responsibility, upon acceptance by Purchaser and approval by WPE as provided for in the Terms and Conditions of Sale.

TERMS OF PAYMENT:

95% net 30 days upon shipment of materials, or upon offer of shipment.

5% net 30 days upon start-up of the equipment or within 90 days of final shipment, whichever occurs first.

When multiple structures or partial shipments are involved, each structure or its equivalent tonnage will be considered a unit for payment.

Invoices not paid within 30 days from date of invoice will bear interest at the rate of two percent (2%) per month.

These terms are completely independent from, and in no way contingent upon, when you receive payment from the Owner and/or prime contractor. Walker Process prices do not include sales, use, excise, or other similar taxes, and all such taxes shall be paid by the Purchaser. Our offering does not include bonds of any kind, which the purchaser may require.

The price in the quotation includes seven (7) service manuals. If additional copies are required, prices will be provided upon request.

PRICE ADJUSTMENTS:

Due to continuing escalation in the cost of materials used by Seller to manufacture its products, the prices quoted are subject to escalation after Seller's receipt of Buyer's order through the date Seller is first able to purchase the materials required to manufacture the goods being sold to Buyer hereunder. Price increases based on escalation shall be determined by the applicable material indexes.

Increases in costs incurred by Seller from third party vendors and/or fabricators that exceed 2% of the cost used by Seller to determine the price quoted to Buyer for items not manufactured by Seller or for fabrication work performed with respect to the goods purchased by Buyer shall be passed through to Buyer based upon the actual price increase made by such third party.

Seller, in its sole discretion, shall determine whether to make price adjustments based on escalation or third party price increases. In either event, Seller shall give Buyer written notice of all price adjustments made pursuant to the foregoing provision. If Buyer does not agree to accept such price adjustments, Seller reserves the right to cancel this order, in which event Seller shall have no further obligation or liability to Buyer, provided, however, that Buyer shall be liable to Seller for the agreed upon purchase price for any goods or services received by Buyer from Seller prior to such cancellation.

TERMS AND CONDITIONS:

Please refer to the attached Terms and Conditions of Sale, which form an integral part of this proposal.

FIELD SERVICE:

Our prices include the services of a factory field service technician for checkout, initial start-up, testing, commissioning, and/or instruction of plant personnel as noted in the "Scope of Supply". Refer to the attached General Items regarding our Terms of Field Service.

SCOPE OF SUPPLY

SECTION: 11335 - ENGINEERS' SPECIFICATIONS
SECONDARY CLARIFIER MECHANISMS

Two (2) Walker Pier-Supported Collectors, Type "RSP-S-(S)" for 100'-0" dia. x 14'-0" S.W.D. tanks #1 & #2 with floor slope 1:12.

WALKER PROCESS WILL SUPPLY:

Spur gear drive with an overload protection device, aluminum bridge and platform with handrails and walkway, influent feed well, L.A. EDI well, drive cage, center pier, RAS adaptor, collector arms with spiral flights and squeegees, skimmer and scum trough, control panel, launder brushes, spare parts, fasteners, anchorage and template.

SHOP PAINTING:

Submerged ferrous surfaces will be 304 stainless steel.

Non-submerged ferrous surfaces will be aluminum.

The drive unit will be shop assembled and painted with one (1) shop coat of Tnemec N69-1211 primer. The motor and primary reducer will be provided with the original manufacturer's standard finish paint.

Aluminum, stainless steel, galvanized steel, plastic and other special materials will not be shop painted.

FIELD SERVICE:

As required, but not to exceed six (6) trips and twelve (12) days of mechanical service.

ESTIMATED SCHEDULE:

Based on current deliveries by suppliers and our projected workload, we estimate that we can ship fabricated materials in accordance with the schedules listed below. Approval Schedule is shown in weeks after receipt of order with complete information. SCHEDULE COMMITMENTS ARE SUBJECT TO REVISION AND MUST BE CONFIRMED AT TIME OF ORDER.

Submittal of Approval Drawings	5 weeks
Shipment, after Receipt of Approval. .	27 weeks

EXCLUSIONS: Although shown on the plans and/or specifications, the following are not included in this offering.

1. Unloading, hauling or storage or erection
2. Influent or effluent piping
3. Sludge or scum piping, fittings and valves
4. Access stairway or platform to the equipment bridge
5. Handrail around the perimeter of the tank
6. Weir troughs and supports
7. Weir plates, scum baffles or supports **(unless purchased as an optional adder item)**
8. Adhesive dispenser for any adhesive anchors, if used
9. Neoprene gasket, caulking, or mastic sealant between weir plates and concrete wall
10. Density Current Baffle System **(unless purchased as an optional adder item for Clarifiers #1 & #2)**
11. Electrical conduit, wiring, and supports
12. Light Fixtures and duplex receptacles
13. Field painting or welding
14. Shims/Shim Sets
15. Lubricating oil or grease
16. Scum Spray System (i.e. piping, spray nozzles, valves, limit switches and supports)
17. Tools (no special tools are required)
18. Hose rack or hose bibb station
19. Any item(s) not specifically indicated as provided in the above scope of supply

GENERAL ITEMS

SAFETY REGULATIONS: Equipment and specified accessories supplied by WALKER PROCESS will comply with the Occupational Safety and Health Act of 1970 as may be amended to date of order. Purchaser will be responsible for specifying items required by the Act, which depend upon the particular service or operating methods of the Owner.

PAINTING: If Purchaser's equipment has shop painting included in the price, as outlined in the main body of this proposal, please take note of the following:

Our prices are based on shop surface preparation and shop coat(s) as outlined in the main body of this proposal. In the event that an alternative paint system is selected by the Purchaser, Walker Process Equipment (WPE) requires written notification and data from Purchaser on the alternate paint selected. With Purchaser's agreement, WPE will then either adjust our price as may be necessary to comply or ship the material unpainted if compliance is not possible, due to application problems or environmental controls.

Shop primer paint is intended to serve only as minimal protective from the time of application (usually for a period not to exceed 30 days). Therefore, it is imperative that the finish coat normally be applied within 30 days of shipment on all shop coated surfaces. Without final coating(s) protection, primer degradation will likely occur after this period, which in turn may require renewed field surface preparation and field coating by Purchaser and/or Field Painting Contractor.

All field surface preparation, field paint, field touch-up, and field repair to shop coated surfaces are not by WPE. WPE will not be responsible for condition of shop primed or shop finished painted surfaces after equipment leaves its shops. Purchaser is invited to inspect painting in our shops for proper surface preparation and shop coating application prior to shipment.

WPE assumes no responsibility for field surface preparation or field touch-up of shop coatings related to shipping damage or handling damage. Any bruises, mars and/or scratches caused by loading, shipping, unloading and handling the equipment must be immediately touched up in the field by Purchaser and/or Field Painting Contractor prior to any equipment storage or equipment installation. WPE will not accept any responsibility for rusting due to equipment not receiving additional coats in the field by the Purchaser and/or Field Painting Contractor.

Purchaser must advise WPE in writing of any and all concerns regarding the shop applied surface preparation and/or the shop applied coating(s) before equipment is installed. WPE will not accept any backcharges related to either the shop applied surface preparation or the shop applied coating(s) after equipment has been installed.

Application of field coating(s) shall be in strict compliance with the coating manufacturer's recommendations. Prior to application of field coat(s), the Purchaser and/or Field Painting Contractor must ensure that the maximum recoat time for the shop coating, as set forth by the shop coating manufacturer, will not be exceeded. If the maximum recoat time will be exceeded, the Purchaser and/or Field Painting Contractor shall consult the shop coating manufacturer for necessary surface preparation prior to applying subsequent top coats. Application of field coating(s) shall be construed as the Purchasers and Field Painting Contractors full acceptance of both the shop applied surface preparation and the shop applied coating(s). WPE will not accept any backcharges related to either the shop applied surface preparation or the shop applied coating(s) after field coatings are applied.

All finish coats are not by WPE unless otherwise stated in the main body of this proposal. Finish coats must be the same type and by the same paint manufacturer as the prime coat, to ensure optimum compatibility and avoid invalidation of the paint warranty. The Purchaser and Field Painting Contractor are responsible that the field finish coating system is fully compatible with the shop applied coating(s).

Painting of fasteners and other touch-up to painted surfaces will be by Purchaser and/or Field Painting Contractor after mechanism erection.

No shop coatings are used by WPE on aluminum, stainless steel of other non-ferrous metals, or on galvanized metal, unless specifically designated.

All pipes, tubes, etc., 14" in diameter and larger, which receive shop surface preparation as outlined in the main body of this proposal, receive both interior and exterior shop surface preparation and shop coating. For pipes, tubes, etc., smaller than 14" in diameter, shop surface preparation and shop coating only extends into the ends of the pipes, tubes, etc., as far as the gun will reach without inserting the gun within the pipe or tube.

Motors, gear motors, and other components not manufactured by WPE will be painted solely with the originating manufacturer's standard paint system. No additional shop coatings are applied by WPE for components not manufactured by WPE.

Prior to field sandblasting, the Purchaser and/or Field Painting Contractor shall protect all gears, motors, drives, mixers, shafting, electrical controls, seals, breather vents and miscellaneous items of equipment that could be damaged by sandblasting or entry of sand. Painting can damage seals and plug breather vents on the drive units. WPE will not be responsible for leaks or loss of lubricant due to field applied paint of seals and/or vents.

Evaluation of dry film coating thickness complies with the requirements of industry standard SSPC-PA2, "Paint Application Specification #2 Measurement of Dry Coating Thickness With Magnetic Gages."

ADHESIVE (EPOXY) ANCHORS: WPE specifically excludes all responsibility for field installation of adhesive anchors, all field installer certifications of adhesive anchors, and all equipment and appurtenances required to field install the adhesive anchors.

RECEIVING MATERIAL: Upon receipt of each shipment, the Contractor/Purchaser should check the goods received against the tally on the PACKING LIST provided by WPE. If any items are missing, an appropriate notation should be made on the shipping papers and WPE should be notified immediately. Shipments for which no shortages are reported to WPE within fourteen (14) days of delivery to the jobsite will be considered complete as listed on the PACKING LIST.

STORAGE/PROTECTION: All motors, drives, shipping cartons containing sensitive equipment, and any other items that would reasonably deem special care be exercised in storage must be stored inside or adequately protected from moisture, and exposure. Walker Process will not be responsible for damage or deterioration due to improper handling, exposure or inadequate protection.

FIELD INSTALLATION: The equipment described and offered in this proposal is to be field installed by OTHERS. Walker Process will provide General Installation instructions, as a guide only, to assist installer who is presumed to be experienced, competent and equipped to handle and install the equipment as offered herein. It is the Contractor's responsibility to furnish any erection aids he deems necessary.

FIELD SERVICE: Field service quoted is not supervisory but advisory only and is offered subject to the express agreement that our function and responsibilities are limited to inspection, interpretation of assembly drawings and IOM manuals, and identification of materials for proper assembly and operation.

In order to assure the availability of servicemen, a minimum of four- (4) weeks advance notice will be required to schedule service requests. In most cases, this will enable us to schedule service when requested by Purchaser. If less than four (4) week's notice is given, we cannot guarantee availability when requested, and also may result in premium charges to Purchaser's account.

In the event we arrive when requested, and the jobsite is not ready for the service, we will deduct the days/trips from the allotted time included in the scope, or invoice the Purchaser at the per diem rate plus actual travel expenses.

At the request of the Purchaser, we will furnish additional service of a field service representative at $1,000 per diem plus actual travel, housing, and meal expenses. Consultation or advisory services of a process engineer or staff engineer within the continental limits of the United States will be charged at the rate of $1,200 per diem plus actual travel, housing, and meal expenses. There will be no credit for using less days or trips than the amount identified within this proposal.

The per diem rates quoted are for normal site work schedule, eight (8) hours per day, five (5) days per week; all overtime and Saturday work to be invoiced at one and one half the per diem rate; Sunday and legal holiday work to be invoiced at double the per diem rate.

GENERAL ITEMS NOT INCLUDED: Unless specifically indicated to the contrary in the scope, the following items are excluded from our offering:

INSPECTION FOR DAMAGE UPON ARRIVAL, UNLOADING, HAULING OR STORAGE, SHIMS/SHIM SETS, ALL ELECTRIC CONTROLS, CONDUIT, WIRING AND ALARMS, GREASE FITTINGS, GREASE LINES, LUBRICATING OIL OR GREASE, INFLUENT PIPE, SLUDGE OR SCUM PIPING AND FITTINGS AND VALVES, FIELD PAINTING OR WELDING, CONCRETE WORK, INSTALLATION OF EQUIPMENT, ANCHORAGE TEMPLATES, LABOR AND MATERIALS TO REPAIR DEFECTS CAUSED FROM SHIPPING AND HANDLING AND INSTALLATION, HANDRAILS AND WALKWAYS NOT LOCATED ON EQUIPMENT BRIDGE, TOOLS, SPARE PARTS, VIDEO TAPES/TAPING OF INSTRUCTIONS/TRAINING SESSIONS.

If this proposal includes an offer for WPE to provide field inspection services of existing equipment, the price shown does not include any material or labor necessary to provide safe access to all areas that require visual inspection, such as scaffolding, ladders, lifts, lighting, safety harnesses, testing for air quality in confined areas, breathing apparatus, safety observers, safety permits or any other materials or labor required for the inspections. The contractor is solely responsible to coordinate the draining and cleaning of all tanks and structures to be inspected and to provide all material and labor required to assist WPE with the inspection.

When field service is requested to inspect existing structures, the following conditions shall apply:

- *The field inspection services will be performed to generally accepted industry professional standards and WPE will use ordinary skill in providing field inspection services.*
- *The Customer shall provide well-ventilated access to all areas requiring inspection and will provide all required scaffolding, ladders, safety equipment, tools, surveying equipment, labor assistance etc., required to perform the field inspection services.*
- *The Customer shall completely drain and clean all tanks, structures and access areas prior to WPE providing field inspection services.*
- *The Customer shall understand that WPE personnel are not corrosion experts, coatings experts, or failure analysis experts; All field inspections are strictly limited to "visual" observations and do not encompass measuring structural members or structural analysis.*
- *The Customer shall satisfy itself as to the adequacy and accuracy of the information provided by WPE personnel and shall take complete responsibility as to the use of the information provided by the WPE personnel and the information contained within the WPE field inspection report, which will be provided by WPE to the Customer.*
- *WPE makes no warranty of any kind, expressed or implied with respect to the field inspection services.*

MECHANICAL WARRANTY

Walker Process Equipment, division of McNish Corporation ("Seller") warrants, to Buyer that all products and parts of its manufacture ("Goods") are free from defects in material and workmanship on the date of shipment. Seller's obligation under this Mechanical Warranty is to replace or repair, at no charge to Buyer and the original user of the Goods. any Goods which proves to Seller's satisfaction to have a defect in material or workmanship that interferes with the mechanical operation of the Goods under normal use and service within two (2) year from date of initial operation of the Goods or twenty seven (27) months from date of shipment, whichever time period first occurs (the "Warranty Period").

If, within the Warranty Period, Buyer gives Seller prompt written notice of any defects in the Goods, Seller shall then, as Buyer's sole remedy, repair or replace, any such Goods, which Seller determines, in its sole discretion, to have failed under normal use. Unless otherwise agreed to, in writing, by Seller, (i) all repairs or replacements shall be made F.O.B. Seller's manufacturing facility or other locations designated by Seller; and (ii) Buyer shall be solely responsible for the cost of any labor required in order to allow Seller to gain access to the Goods in order to allow Seller to assess the claimed defects; and (iii) Buyer shall be responsible for all costs of installation of all Goods replaced or repaired by Seller under this Warranty. If Seller determines that any claimed defect is not, in fact, covered by this Warranty, Buyer shall pay Seller its then customary charges for any repairs or replacements made by Seller. Any suit or action brought under this Warranty must be commenced not later than ninety (90) days after the expiration of the Warranty Period, notwithstanding any statute of limitations to the contrary. Buyer shall provide Seller with satisfactory evidence that all the Goods have been maintained in accordance with Seller's instructions as stated in the installation, operations and maintenance (IOM) manual provided by Seller to Buyer.

This Warranty does not apply to, and is rendered null and void by, any Goods which, after leaving Seller's manufacturing plant, are: (i) repaired or altered without Seller's prior written approval; or (ii) improperly stored, installed or operated, including any Goods operated beyond its rated capacity or without required safety devices and protective measures; or (iii) the subject of intentional or negligent misuse, misapplication, neglect, or accident; or (iv) installed contrary to Seller's instructions; or (v) the subject of start-up, inspections, or instructions in the operation or maintenance performed by any person who is not an authorized representative of Seller; or (vi) damaged from corrosion, erosion, or any other deterioration occurring after the Goods, or parts thereof, leave the point of manufacture; or (vii) not maintained in accordance with Seller's instructions as stated in the Installation, Operation and Maintenance (IOM) Manual provided by Seller to Buyer.

This Mechanical Warranty shall not apply to products or parts which are not manufactured by Seller. Buyer's sole remedy for defective products and parts not manufactured by Seller shall be solely as provided under the warranty, if any, of the original manufacturer of such products and parts. All warranty claims for defective products and parts not manufactured by Seller shall be submitted directly to the original manufacturer for coverage.

The obligations of Seller under this Warranty are subject to, and contingent upon, Buyer not being in breach of any of its payment obligations to Seller for the Goods.

This Warranty is provided by Seller, and accepted by Buyer, in lieu of all other warranties and remedies, express or implied. Seller disclaims the implied warranties of merchantability and fitness for a particular purpose, and any implied warranties arising from course of performance, course of dealing, or usage or trade. Seller shall not be liable under this Mechanical Warranty to Buyer or any other party for direct, special, consequential, indirect or incidental damages of any kind, including, but not limited to, loss of profits. Seller's sole obligation and Buyer's exclusive remedy for warranty claims relating to any Goods is as stated in this Mechanical Warranty.

buoyant force load from the water. The size of the baffle shall be as shown on the Drawing. Provision shall be made to vent gases from beneath the baffle. All the installation fasteners shall be Type 304 stainless steel.

C. Baffle supplier shall expressly warrant the baffles to be free of defects in materials and workmanship for a period of five years from the date of installation. Baffle walls shall be black in color.

2.18 PAINTING AND SURFACE PREPARATION

WPE

A. All non-submerged steel shall be sandblasted to SSPC-SP-6 and given one coat of Series 135 Chembuild, 3-4 mils dry film thickness (DFT). ~~All submerged steel shall be sandblasted to SSPC-SP-10 and given one coat of Series 91-H20 Hydro-Zinc, 3-4 mils DFT. All cast iron surfaces shall be solvent scrubbed with stiff bristle brush followed by brush-off abrasive blast cleaning to a minimum surface profile depth of 1.5 mils and given one coat of Series 69-1255 H.B. Epoxoline, 3-4 mils DFT.~~

CONTRACTOR Field Applied

B. All non-submerged steel shall be given a final coat of Series 73 Endura-Shield; one coat, 3-4 mils DFT. All submerged steel shall be given a final coat of Series WH02 (tank white Potapox; one coat, 4-6 mils DFT. All cast iron surfaces shall be given one final coat of Series 73 Endura-Shield; one coat, 3-4 mils thick. Manufacturer shall provide two 2 gallon containers of each final coat with the equipment for field touch-up. Color selection shall be approved by ENGINEER prior to application.

WPE

C. Prior to assembly of the drive unit, the castings shall have been sandblasted and thoroughly cleaned to remove any foreign particles in the drive base. After assembly, the drive mechanism shall be solvent cleaned and power wire brushed as needed prior to application of manufacturer's standard primer.

WPE

D. Gear motors shall be furnished with manufacturer's standard enamel.

2.19 SPARE PARTS

A. The following parts are to be furnished:
1. All sight glasses and oil gauges.
2. One set of seals for each secondary clarifier mechanism.
3. One set of overload control device switches.
4. One set of squeegees for each mechanism.
5. A quantity of fasteners equal to 10% of each type of fastener used with exception of anchor bolts.
6. A drive main bearing complete with all liners, balls, and drive seals if less than 200,000 hour design.
7. One set of seals for each wash water flocculation arm drive unit.
8. Any additional spare parts recommended by the manufacturer.

2. OSHA 1910.144.

I. At completion of construction activities of other trades, touch-up and restore damaged or defaced painted surfaces.

J. Architectural Color Schedule: Colors indicated are by Tnemec Company, Inc.: www.tnemec.com.
   1. Shading Devices: Match existing colors at existing Administration Building located on site.
   2. Exterior Hollow Metal Doors and Frames: Match existing colors at existing Administration Building located on site.
   3. Exposed CMU, Interior: 11WH White.
   4. Interior Hollow Metal Doors and Frames: 33GR Grey.
   5. Exposed Gypsum Board, Interior: 07WH Winter Mist.

K. Colors: All colors as selected by ENGINEER from manufacturer's standards except as follows:
   1. Color of safety stripe at bollards match PPG 6-330 Safety Yellow.

2.3 PAINT SYSTEMS - INTERIOR AND EXTERIOR

A. Field Primed Steel and Ferrous Metal:
   1. Exterior Exposure, Hot Air Carbon Steel Pipe:
      a. Surface Preparation: SSPC-SP6/NACE 3 Commercial Blast Cleaning with a minimum angular anchor profile of 1.5 mils.
      b. Prime Coat: Prime Coat: Series 69-1255 (beige) H.B. Epoxoline II; one coat; 4-6 mils DFT (dry film thickness).
      c. Finish Coat: Series 75 Endura-Shield II; one coat; 3-5 mils DFT.
   2. Exterior Exposure:
      a. Surface Preparation: SSPC SP6 Commercial Abrasive Blast Cleaning.
      b. Prime Coat: Series 69-1255 (beige) H.B. Epoxoline II; one coat; 4-6 mils DFT (dry film thickness).
      c. Finish Coat: Series 73 Endura-Shield; one coat; 3-4 mils DFT.
   3. Interior Exposure:
      a. Surface Preparation: SSPC SP6 Commercial Abrasive Blast Cleaning.
      b. Prime Coat: Series 69-1255 (beige) H.B. Epoxoline II; one coat; 3-5 mils DFT.
      c. Finish Coat: Series 69 H.B. Epoxoline; one coat; 4-6 mils DFT.
   4. Immersion or Partial Immersion Exposure:
      a. Surface Preparation: SSPC SP10 Near-White Metal Abrasive Blast Cleaning.
      b. Prime Coat: Series 66 H.B. Epoxoline; one coat; 4-6 mils DFT.
      c. Finish Coat: Series 69 H.B. Epoxoline II; one coat; 4-6 mils DFT.

B. Shop and Factory Primed Steel:
   1. Exterior Exposure:

WPE

CONTRACTOR

a. Field Prime Coat (over factory prime coat): Series 135 (beige) Chembuild; one coat; 3-4 mils DFT.
b. Finish Coat: Series 73 Endura-Shield; one coat; 3-4 mils DFT.

2. Interior Exposure:
   a. Field Prime Coat (over factory prime coat): Series 135 (beige) Chembuild; one coat; 3-4 mils DFT.
   b. Finish Coat: Series 69 H.B. Epoxoline; one coat; 4-6 mils DFT.
3. Immersion or Partial Immersion Exposure:
   a. Surface Preparation: Brush off abrasive blast cleaning if required for recoat of the shop primer. Coating surface to be clean, dry, and free of contaminants prior to application of the field coats.
   b. Prime Coat: Series 66 H.B. Epoxoline; one coat; 2.5-3 mils DFT.
   c. Finish Coat: Series 69 H.B. Epoxoline II; one coat; 4-6 mils DFT.

C. Galvanized Steel and Non-Ferrous Metals:
1. Exterior Exposure:
   a. Surface Preparation: Brush-off abrasive blast cleaning.
   b. Prime Coat: Series 69-1255 (beige) H.B. Epoxoline II; one coat; 3-4 mils DFT.
   c. Finish Coat: Series 73 Endure-Shield; one coat; 3-4 mils DFT.
2. Interior Exposure:
   a. Surface Preparation: Clean, dry and free of contaminants.
   b. Prime Coat: Series 135 (beige) Chembuild; one coat; 3-4 mils.
   c. Finish Coat: Series 69 H.B. Epoxoline II; one coat; 4-6 mils DFT.
3. Immersion or Partial Immersion Exposure:
   a. Surface Preparation: Brush-off abrasive blast cleaning.
   b. Prime Coat: Series 66 H.B. Epoxoline; one coat; 4-6 mils DFT.
   c. Finish Coat: Series 69 H.B. Epoxoline II; one coat; 4-6 mils DFT.

D. Ductile and Cast Iron:
1. Exterior Exposure:
   a. Surface Preparation: Solvent scrub with stiff bristle brush, followed by brush-off abrasive blast cleaning to a minimum surface profile depth of 1.5 mils DFT.
   b. Prime Coat: Series 69-1255 (beige) H.B. Epoxoline II; one coat; 3-5 mils DFT.
   c. Finish Coat: Series 73 Endura-Shield; one coat; 3-4 mils DFT.
2. Interior Exposure:
   a. Surface Preparation: Clean, dry, and free of contaminants.
   b. Prime Coat: Series 135 Chembuild; one coat; 4-6 mils DFT.
   c. Finish Coat: Series 69 H.B. Epoxoline II; one coat; 4-6 mils DFT.
3. Buried:
   a. Surface Preparation: Solvent scrub with stiff bristle brush followed by brush-off abrasive blast cleaning to a minimum surface profile depth of 1.5 mils DFT.
   b. Prime Coat: Series 69-1255 (beige) H.B. Epoxoline II; one coat; 3-5 mils DFT.

Summary of the Walker Gear Torque Limiting Systems

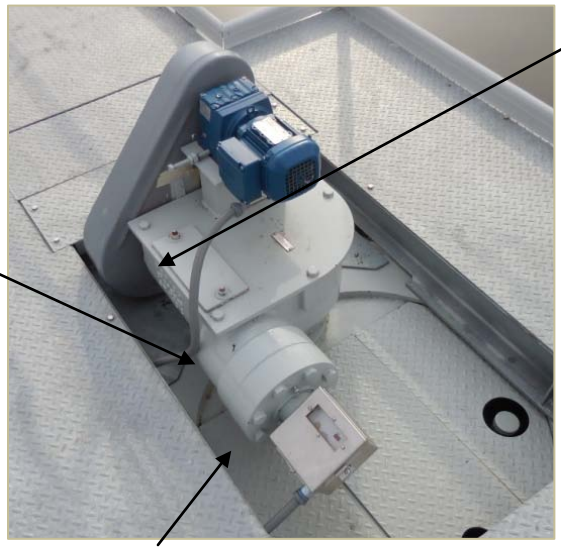
Drive Systems for circular collectors are often specified to produce a rated output torque that could be damaging to the mechanism attached to it unless that torque is limited. A typical torque limiting device includes 3 levels of protection against damage from excessive torque levels. The first level comes from an electrical switch which activates a remote alarm of a high but not damaging torque level. The second is an electrical switch which overrides the drive motor control system and shuts the drive down. The third is a mechanical shear pin which when damaging torque levels cause the shear pin to fracture, disengages the spur gear drive.



WPE offers 2 solutions for Torque Limiting protection.

The WPE Torque Indicator and Limiting System (WTI)

The lateral movement of internal gear components compresses an internal spring assembly. The greater the torque developed by the gear, the more pressure is exerted on the springs



The final protection against unusually high and potentially damaging levels of torque is the shear pin, located inside the gear assembly.

The WTI enclosure houses 2 micro switches which are in contact with the springs and are activated by factory calibrated pressures which correspond to the proper torque for the 2 alarm points.

While robust and time-proven, the WTI may not provide the level of process information, accuracy and adjustability state-of-the-art treatment processes require. Thus the new **Walker WTM** system was developed:

The WPE Torque Monitor and Limiting System (WTM)

The same Walker Spur Gear is shown here after being retrofitted in the field with a new WTM.



The original internal springs of the replaced WTI are removed and replaced with a high precision load cell which is in direct contact with internal gear components. The load cell is calibrated for 0.25% FSL accuracy and provides a direct measurement of the force applied to the gear components due to the actual torque applied to the drive.



The original WTI enclosure and micro switches are replaced with a NEMA 4X enclosure with digital indication of % of full load torque, power control and indication, torque alarm point activation and a 4-20mA analog output of torque, for field wiring to the plant SCADA. The enclosure can also be made to contain the complete drive motor control system.

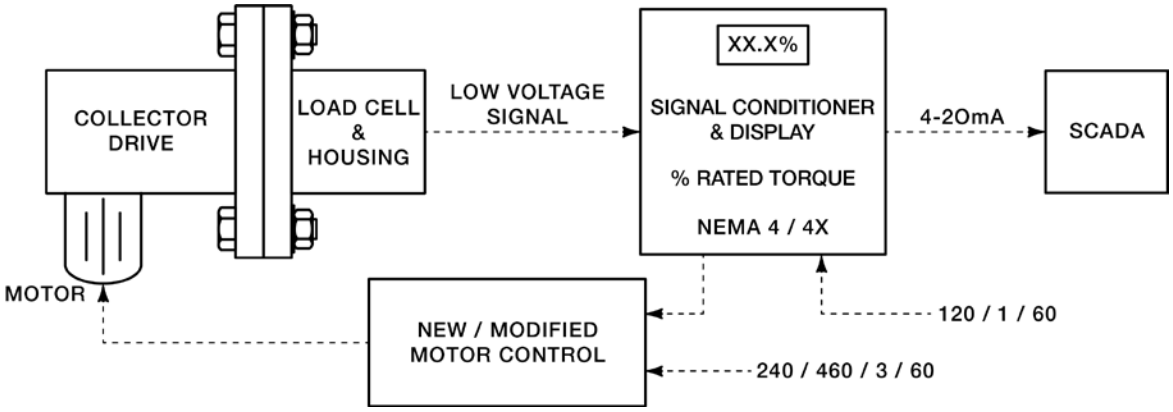
Optional USB torque data storage device

Typical Specifications for the WTM

- The overload protection system shall include a load cell and signal conditioner with digital display. The signal conditioner will display the torque on the mechanism as the percent of AGMA rated continuous torque. The signal conditioner shall have two alarm relays, one to close an alarm circuit when the load reaches the alarm running torque of the drive assembly and one to cut off the motor when the load reaches the cut-off running torque of the drive assembly, and a 4-20mA analog output signal for remote monitoring of torque.

- The WTM can be supplied with new Spur Gear Drives or retrofitted in the field to Single Pinion Spur Gears in 42", 60" and 80" sizes as well as to Dual Pinion Spur Gear Drives in 60" and 80" sizes. In addition, the WTM can be supplied or field fitted to almost any WPE Worm Gear Bridge Mounted drives in sizes of 14, 16, 28 and 41.

Typical WTM Electrical Schematic

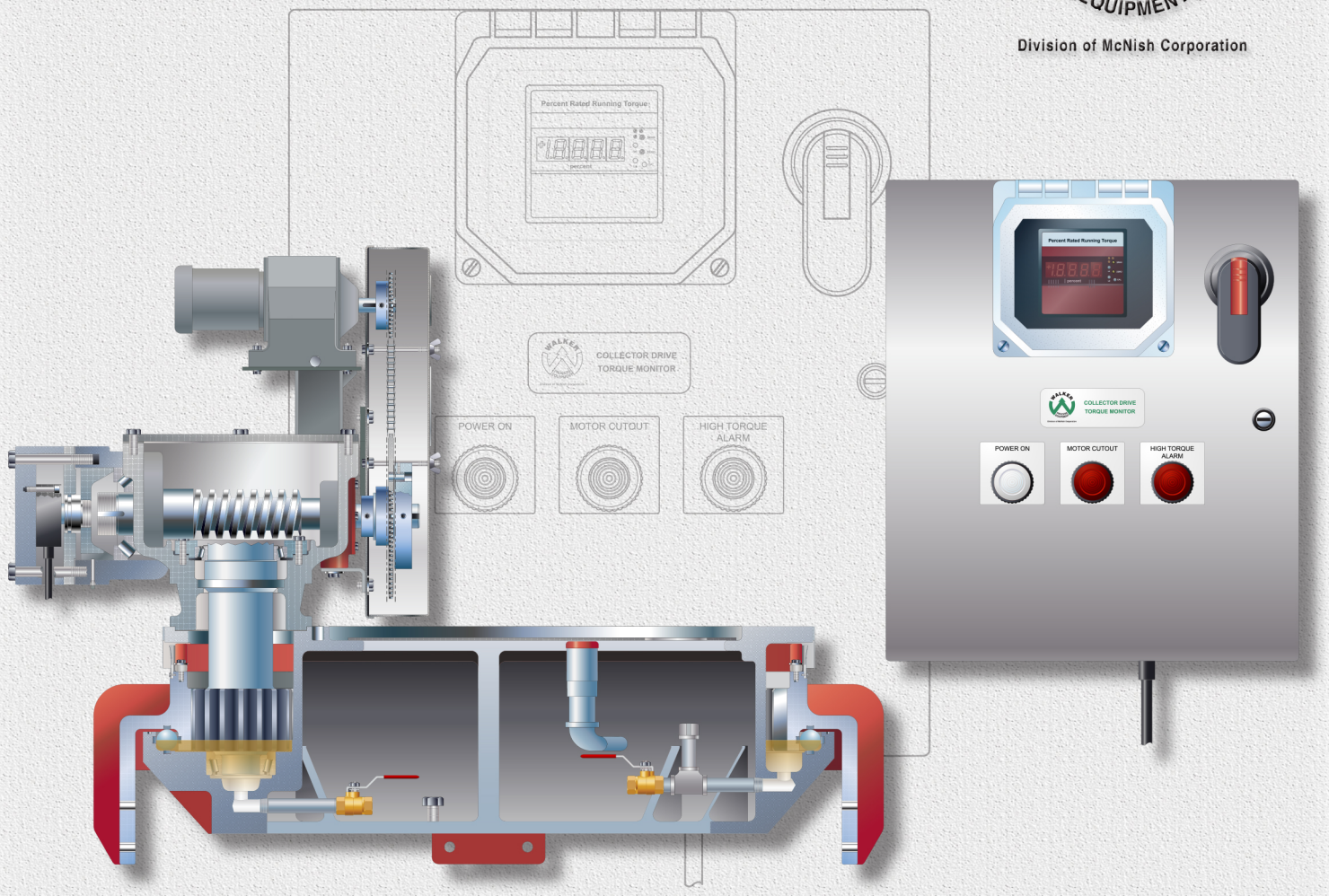


For questions about or inquiries for retrofitting the WTM to your collector gear assembly, please contact Walker Process Equipment through our website, www.walker-process.com or our Local Representatives.

Walker Torque Monitor (WTM)

For Circular Collectors and Thickeners

Division of McNish Corporation



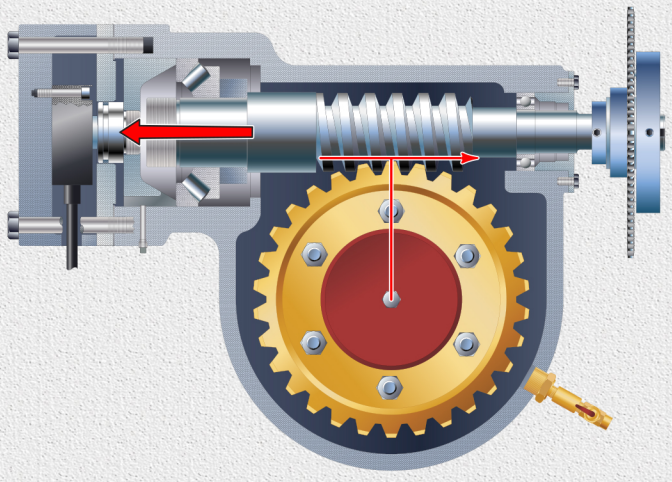
The WTM is a Newly Developed Torque Monitoring System that provides continuous and accurate indication of Torque Level at the gear and remotely through a 4-20 mA signal.

The **Walker Process® Torque Monitor (WTM)** provides accurate indication, through a digital display, of the torque being produced by the gear to rotate the mechanism.

The **WTM** system includes a precision load cell located in the gear housing that measures the level of load on the gear. A low voltage signal is transmitted from the load on the load cell to a signal conditioner located in a panel mounted near the drive unit. The signal conditioner displays the percent of full load torque on the face of the panel. The signal conditioner can also send a 4-20 mA signal for remote monitoring of torque in a SCADA control system.

TORQUE MONITOR

- Load Cell is Sealed in the Worm Gear Housing
- No Moving Parts
- NEMA 4X Panel
- Digital Indication of Percent Full Load Torque
- Factory Set and Field Adjustable Relays for Alarm and Motor cutout
- Provides 4 – 20 mA Signal for Remote Monitoring
- Available with USB Port for Recording Torque Level
- Can be Retrofitted to all Walker Process Drives

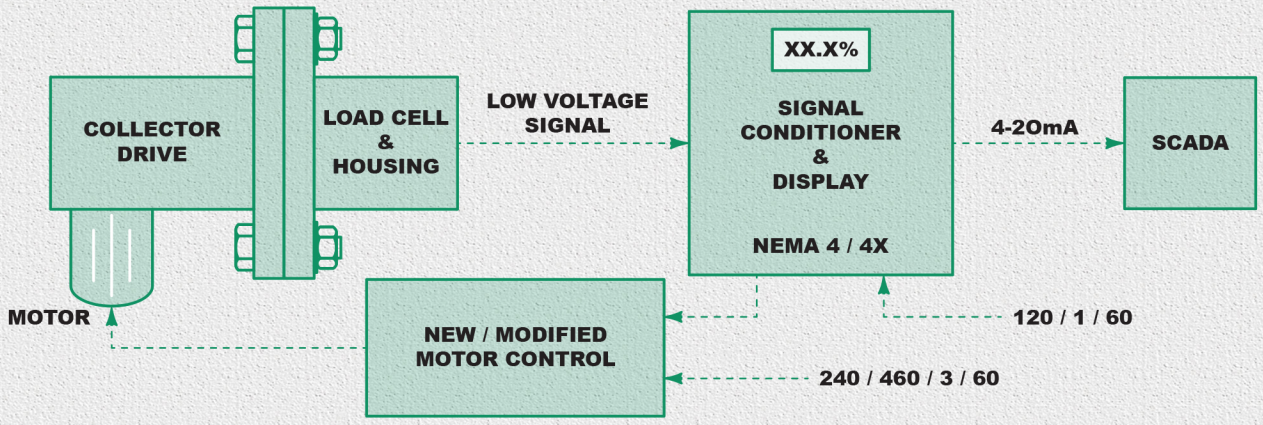


The load cell measures the worm shaft thrust required to rotate the worm gear. The force on the load cell has a direct relationship to the torque being produced by the gear to turn the mechanism.



Instrument Panel is mounted on the handrail and allows easier viewing of the digital readout at or near the drive unit.

The digital readout is mounted in a NEMA 4X panel that includes a disconnect switch and lights that indicate power on, high torque alarm, and motor cut-off.





- The Load Cell is sealed within the worm gear housing and does not have any moving parts that may require maintenance.
- The Instrument Panel is NEMA 4X and provided either in Fiberglass or 304 Stainless Steel.
- The basic Panel is provided with indicator lights for power on, high torque alarm, motor cutoff, and a digital display for percent of full torque.

Optional accessories include:

- USB data storage device to record torque levels.

Walker Process Equipment
Division of McNish Corporation
840 N. Russell Ave. ● Aurora, IL 60506 ● 1-800-992-5537
www.walker-process.com

Chandler WRF Improvements Project

GMP 2 Work Category Solicited Subcontractors Summary

Work Category: **11F Fine Bubble Aeration System**

Subcontractor/Supplier Name	***Status***
Sanitaire (JCH)	*Recommended*
SSI	*Proposed*
EDI	*Proposed*
Aquarius	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **11F - Fine & Coarse Aeration Systems**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Sanitaire/JCH	EDI	SSI Aeration		
		Ed Martin	Fred McCabe	Kiran Kumar Banala		
		602-359-6424	573-507-5122	(845) 392-1172		
		egm@jchinc.com	fred.mccabe@wastewater.com	kiran@ssiaeration.com		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$175,539**	**$153,123**	**$197,723**		
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	Yes	Yes	Yes		
2	Bid Submitted on McCarthy Bid Form	Yes	Yes	Yes		
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	No	N/A	N/A		
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing. (The date on the letter provided should be within the last 30 days and the letter should include the status of their line of credit.)	Yes	Yes	Yes		
5	Surety Company	N/A	N/A	N/A		
6	Surety AM Best Rating (Must be A- or Better)	N/A	N/A	N/A		
7	AM Best Financial Size X($500M to $750M) or higher	N/A	N/A	N/A		
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	N/A	N/A	N/A		
9	Bond/CDI Cost	1.295%	1.500%	2.500%		
10	Included Insurance Requirements (Per Matrix)	Yes	Yes	Yes		
11	GL Insurance Company Name $3M	Cincinnati Casualty	Travelers Casualty	ACORD Corp		
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	Yes	Yes	Yes		
13	PRL Insurance (If required by the Front Ends)	N/A	N/A	N/A		
14	Pollution Insurance (If required by the Front Ends) $2M	Yes	Yes	Yes		
15	Tier 1 Approved	Yes	Yes	Yes		
16	Tier 2 Approved	N/A	N/A	N/A		
17	Safety Items:	N/A	N/A	N/A		
18	OSHA Recordable Incident Rate (Current)	N/A	N/A	N/A		
19	Agrees to comply with PPE requirements including 100% glove policy	N/A	N/A	N/A		
20	Acknowledges updated ladder policy (platform ladders)	N/A	N/A	N/A		
21	Task Hazard Analysis included for all tasks	N/A	N/A	N/A		
22	Tie-off above 6' required	N/A	N/A	N/A		
23	Includes Hoisting for Sub's Own Work Scope	N/A	N/A	N/A		
24	Acknowledges Soils Report	Yes	Yes	Yes		
25	Acknowledges Addenda	Yes	Yes	Yes		
26	Hold Bid for 150 Days	Yes	Yes	Yes		
27	Pricing good for the duration of the project	Yes	Yes	Yes		
28	**COVID-19 Market Questions**					
29	How has your work program been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No	No	No		
30	Have you had any future work opportunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No	No	No		
31	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No	No		
32	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No	No	No		
33	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No	No		
34	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No	No	No		
35	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No	No	Shipping		
36	Do you have any overseas suppliers that may be impeding your supply chain?	No	No	Shipping		
37						
38	Per Plans & Specifications	Yes	Yes	Yes		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **11F - Fine & Coarse Aeration Systems**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Sanitaire/JCH	EDI	SSI Aeration		
		Ed Martin	Fred McCabe	Kiran Kumar Banala		
		602-359-6424	573-507-5122	(845) 392-1172		
		egm@jchinc.com	fred.mccabe@wastewater.com	kiran@ssiaeration.com		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$175,539**	**$153,123**	**$197,723**		
39	Division 1 as it relates to this scope of work	Yes	Yes	Yes		
40	05051 - Anchor Bolts, Toggle Bolts, and Concrete Inserts	Yes	Yes	Yes		
41	09900 - Painting	Yes	Yes	Yes		
42	11375 - Fine Bubble Aeration Systems	Yes	Yes	Yes		
43	11376 - Coarse Bubble Aeration Systems	Yes	Yes	Yes		
	Scope of Work					
	Base Bid:	$174,230	$150,860	$192,900		
44	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 11F - Fine & Coarse Aeration Systems, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	Yes	Yes		
45	Check to Spec completed and submitted to McCarthy	Yes	Yes	No		
46	1 year warranty from Final Acceptance (Aug 2023)	Yes	Yes	Yes		
47	**Fine Bubble Diffuser**					
48	Headloss Calculations	Yes	Yes	Yes		
49	Fine Bubble Membrane Disc Diffusers shall have a minimum oxygen transfer rate (SOTE) of 32% at air flow rate of 2scfm per diffuser, diffuser submergence of 19.5 Ft	Yes	Yes	Yes		
50	Meet design criteria in section 2.2 A. 1. of the specification	Yes	Yes	Yes		
51	Accommodate existing equipment location (Pump & pipe)	Yes	Yes	Yes		
52	Can accommodate lateral spacing as shown on drawings	Yes	Yes	Yes		
53	Supports - to be 316 SST or concrete	Yes	Yes	Yes		
54	Diffuser Connectors	Yes	N/A	Yes		
55	Air Distribution Manifolds and Laterals - to be Sch 40 PVC	Yes	Yes	Yes		
56	Air diffusers to be 9 Inch EPDM membrane diffusers	Yes	Yes	Yes		
57	Gaskets to be 4.5" ID and made of neoprene rubber conforming to ASTM D2000	Yes	Yes	Yes		
58	Provide Spare parts as specified in section 2.5 of spec	Yes	Yes	Yes		
59	Field testing includes level test and pattern test to be done separately	No	No	No		
60	Two separate trips required for Chandler Airport site	Yes	Yes	Yes		
61	Training trip to be included as a separate trip than field testing	Yes	Yes	Yes		
62	(4) Hours of training required	Yes	Yes	Yes		
63	Trip for installation Inspection	Yes	Yes	Yes		
64	Welding & Corrosion protection	Yes	Yes	Yes		
65	SST to be pickle passivated	Yes	Yes	Yes		
66	Provide Spare parts as specified in section 2.5 of spec	Yes	Yes	Yes		
67	Provide manufacturer's field service per section 3.4A	Yes	Yes	Yes		
68	Training to be per section 3.4 B of specification	Yes	Yes	Yes		
69	Level and pattern testing to be completed for each tank separately	Yes	Yes	Yes		
70	Provide all anchors and epoxy required for the installation of the equipment	$8,000	Yes	Yes		
71	Shipping shall be FOB jobsite	Yes	Yes	Yes		
72	Preventative maintenance procedures provided prior to shipment	Yes	Yes	Yes		
73	O&M's per specification section 01781	Yes	Yes	Yes		
74	Installation Inspection Days Included: 2 Days (1 per Basin)	Yes	Yes	Yes		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **11F - Fine & Coarse Aeration Systems**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Sanitaire/JCH	EDI	SSI Aeration		
		Ed Martin	Fred McCabe	Kiran Kumar Banala		
		602-359-6424	573-507-5122	(845) 392-1172		
		egm@jchinc.com	fred.mccabe@wastewater.com	kiran@ssiaeration.com		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$175,539**	**$153,123**	**$197,723**		
75	Leak & Level Days Included: 2 Days (1 per Basin)	Yes	Yes	Yes		
85	Deduct to go with Xylem Products	-$8,712	N/A	N/A		
86	Cost per additional day/trip:	$1,200/Day	$4,600/Day	$2,100/Day		
87	Cost per additional day while technician is on site	N/A	N/A	$950/Day		
88	COVID-19 Scope Items					
89	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes	Yes	Yes		
90	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes	Yes	Yes		
91	All personnel onsite must maintain 6'0" spacing between personnel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes	Yes	Yes		
92	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes	Yes	Yes		
93	All tools and equipment used must be sanitized each day.	Yes	Yes	Yes		
94	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes	Yes	Yes		
95	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes	Yes	Yes		
96	Personnel are not allowed to carpool to the site or while onsite.	Yes	Yes	Yes		
97	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the appropriate testing and quarantine protocols.	Yes	Yes	Yes		
98						
99	Additional discount if Course Bubble Aeration System is included (NOT IN TOTAL)	-$17,424				
100	End of Scope					
101	Bond/CDI Cost	$2,021	$2,263	$4,823		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$175,539**	**$153,123**	**$197,723**		

The current system that is being rehabilitated is Sanitaire the city has requested for the same system manufacture to be installed.

BID PROPOSAL

Date APRIL, 7, 2021

Bid Proposal of * JAMES,COOKE AND HOBSON, INC. (hereinafter called "Bidder")

a ** CORPORATION organized and existing under the laws of the State of

TEXAS.

* Insert name of firm.
** Insert corporation, partnership, or individual, as applicable.

(INSERT OWNER'S ADDRESS)
TO: McCarthy Building Companies, Inc.
6225 North 24th Street, Suite 200
Phoenix, Arizona 85016

The Bidder, in compliance with your Invitation for Bids for the construction of Chandler Water Reclamation Facility Improvements having examined the Contract Documents entitled City of Chandler, Chandler WRF Improvements Project, and other related documents and being familiar with the site of the proposed work, and with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, and the progress of work to date, if any, hereby proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, perform all work, provide all services, and to construct all work in accordance with the Contract Documents set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required.

The Bidder shall attach a copy of Bidders' detailed estimate to its Bid Proposal. This estimate shall identify all quantities shown in the documents or anticipated along with corresponding labor, material and equipment pricing.

After Bid Proposals are received, tabulated, and evaluated by McCarthy, said Bidder agrees to meet with McCarthy for the purpose of determining any duplications, omissions, or mutually agreed bid adjustments. For these meetings, the Bidder agrees to provide a complete, detailed cost breakdown; a list of all sub-subcontractors proposed for use in the work; and a list of all items, materials and their manufacturers proposed for use in the work.

The Bidder, if awarded a Subcontract, agrees to commence work and to fully complete its Work in accordance with a schedule to be established in collaboration with McCarthy under the provisions of the Additional Subcontractor Conditions of the Specifications.

The Bidder acknowledges receipt of the following Addenda: 4

.

BASE BID:

The Bidder agrees to perform all SECTIONS 15441,11311.1, 11314, 11310,11371 AND 11375 11217 (herein insert the title of the Work Category as it appears in the Additional Subcontractor Conditions) Work for Work Category No. _____, as described in the Contract Documents, for the Lump Sum of ONE MILLION ONE HUNDRED NINETY TWO THOUSAND SEVEN HUNDRED TWENTY EIGHT DOLLARS ($ 1,192,728.00).

BID BREAKDOWN:

Airport WRF Total Amount $_____

- Aeration Basin $ 348,460.00 FINE BUBBLE AERATION
- Blower Piping $_____.
- Blower Ductbank $_____.
- Filters $ 33,488.00 SUMP PUMPS .
- Maintenance Bldg $_____.

Ocotillo WRF Total Amount $_____

- Aeration/Anoxic $ 147,700.00 IMLR PUMP .
- RAS/WAS PS $ 318,731.00 RAS AND WAS PUMPS .
- Clarifiers 1& 2 $_____.
- Filters $ 22,325.00 SUMP PUMPS ..
- MCC Replacement $_____..
- Reservoir $ 3,266.00 SAMPLE PUMP ..
- Roads/Sitework $_____..

Performance & Payment Bond Cost *(If Applicable)* $_____

Total Subcontract Amount $_____

The name of the proposed Bonding Company is _____

Bond rate _____%

All applicable taxes, except sales and use taxes on materials and equipment which are affixed and made a part of the real estate of the Project, are included in the above Base Bid. Bidder agrees that this Bid Proposal shall be good and may not be withdrawn unless McCarthy does not send Bidder a Subcontract within one hundred ~~twenty (160) calendar days~~ fifty (150) calendar days after the opening date of Bid Proposals.

(Amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

ALTERNATES:

The Bidder further agrees that if any or all of the Alternates listed and described below are incorporated and accepted within sixty (60) calendar days after receipt of a Subcontract from McCarthy, the Bidder will adjust its Subcontract by the amount indicated opposite the Alternates listed below.

ALTERNATE NO. 1: Filter Disc in Basin 7 Installation:

ADD the sum of $_____.

ALTERNATE NO. 2: Clarifier 3 Rehabilitation

ADD the sum of $_____.

ALTERNATE NO. 3: Sludge Holding Tank and Blower Bldg No. 2

83,572.00 COARSE BUBBLE AERATION

ADD the sum of $ 235,186.00 BLOWERS .

ALTERNATE NO. 4: Removal/Replacement of Diffusers in 2 Aeration Basins

ADD the sum of $ 174,230.00 FINE BUBBLE 2 BASINS ONLY

ALTERNATE NO. 5:_____

ADD the sum of $_____.

CHANGE ORDER RATES: (Add separate sheet as needed)

Markup % (on rates and material): _____.

Position: _____ Rate: _____.

Position: _____ Rate: _____.

Equipment: _____ Rate: _____.

Equipment: _____ Rate: _____.

SAFETY RECORDS

The Bidder certifies to the following Experience Modification Rates (EMR) and Incidence Rates for the three (3) most recent years:

	Year 2018	Year 2019	Year 2020
1. Compensation Experience Modification Rate:			
2. Incidence Rate:			
(a) Number of hours employees worked in the year.			
(b) Number of cases defined as recordable, from the OSHA Form 300 Log.			
(c) Total Recordable Incidence Rate = (b) x (200,000 hours) / Hours Worked (a)			

The Bidder understands that McCarthy reserves the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

SELECT AS APPROPRIATE

☒ The Bidder has completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program; OR

☐ The Bidder has not completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program because the Bidder has provided the Form and all such information to McCarthy in the past 12 months for the following project:

_____ Project, which bid on: _____.

RESPONSIVE BID REQUIREMENTS:

DO NOT ENCLOSE YOUR STANDARD TERMS AND CONDITIONS

If any exceptions are taken to the requirements of this Proposal form, attach a separate sheet listing those exceptions, stating the sections and paragraphs and the specific exception.	EM (initials)
In submitting this proposal, the Bidder certifies that this bid is valid for 150 calendar days.	EM (initials)
In submitting this Proposal as described herein, we agree to complete the work in accordance with the included Preliminary Construction Sequence.	EM (initials)
In submitting this Proposal, the Bidder certifies that all cost for extended warranties to start on the date of Substantial Completion is included.	(initials)
In submitting this proposal as described herein, we confirm that we have received, reviewed and agree to all commercial terms stated in the McCarthy Subcontract and Purchase Order Agreement. Any exception taken to the commercial terms stated in these Agreements must be listed on a separate sheet noting the article or paragraph and the specific exception. ***Bidders attached Standard Terms and Conditions will not be acknowledged or accepted as part of any given bid.***	(initials)
In submitting this proposal as described herein, the Bidder certifies that this bid is coordinated based on a complete set of documents and that there will be no claims for change order based on the assertion that the Bidder did not have a complete set of Bidding Documents.	EM (initials)
In submitting this proposal, the Bidder certifies that they have included all spare parts, training, O & M Manuals, shop drawings and administration costs as associated to comply with the requirements of the specifications and as listed for their scope of work.	EM (initials)
A bid will be considered non-responsive if the Subcontractor Pre-Qualification Form is not completed as part of the Bid Form **(or on file at McCarthy office)**.	EM (initials)
The Bidder, by submitting their bid, represents that they have read and understand the scope requirements of the Bidding Documents.	EM (initials)
The Bidder certifies that any proposed materials in this scope of work meet or exceeds the requirements stated in the specifications unless noted otherwise within this proposal.	EM (initials)
The bidder certifies that the price listed in this bid is a firm Price through the final delivery of the materials proposed herein, and that no material escalation will be accepted as part of this proposal.	EM (initials)

Within fifteen (10) days after receipt by the Bidder from McCarthy of the Subcontract or Purchase Order, the Bidder will execute and return to McCarthy said Subcontract or Purchase Order and if notified from McCarthy that Bidder is not to be enrolled in McCarthy's Contractor Default Insurance Program, deliver to McCarthy Performance and Labor and Material Payment Bonds for the Subcontract or a Supply Contract Bond for the Purchase Order, or the difference between the amount of the bid and such larger amount for which McCarthy may subcontract with another party to perform the work covered by said bid, together with all court costs, all attorney fees and all other expense of recovery, all of which shall not exceed the Bid Security attached in the amount of 15% of the bid, will become the property of McCarthy. The bonds shall name McCarthy as Obligee.

If an Individual:

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Partnership:

Authorized Signature: _____

Name (print): _____

Email: _____

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Corporation:

Authorized Signature: *Edward Martin*

Name (print): *Edward Martin*

Email: *egm@jchinc.com*

Title: *ITS Sales Engineer*

Business Address: *3501 e. Broadway Road*

Phoenix, AZ. 85040

Telephone *(602) 243-0585*

Contractor License Number: _____

General Liability Insurance Carrier (not the agent): *Cincinati Casualty Co.*

*Please attach a sample certificate of insurance and current W9 form to your bid.

Sales Engineers / Process Equipment

JAMES, COOKE & HOBSON, INC.

3501 E Broadway Rd, Phoenix, AZ.85040
Phone: 602-586-1439
Fax: 602-276-5402
E-mail: egm@jchinc.com

MARCH. 24, 2021
REVISED

To: McCARTHY CONSTRUCTION

Attn: KIM
Ph:

Quotation #: 081320-1EGM
Job Name: CHANDLER WRF
Location: CHANDLER, AZ
Quotation by: ED MARTIN

Unless otherwise stated: Prices are firm for 30 days from bid date, payment terms are NET 30 DAYS from shipment. Interest shall accrue at 1.5% per month on past due amounts per month. Any taxes are additional. **Items included are only listed below.** Please review carefully

QTY	DESCRIPTION	TOTAL
	SPECIFICATION SECTION 11311.1 – SUBMERSIBLE DRY PIT PUMPS	
3	FLYGT MODEL NT3301 SUBMERSIBLE DRY PIT SEWAGE PUMPS WITH 85HP, 460V-3PH MOTOR, 60 FEET OF POWER CABLE, FLS/MINI-CAS SEAL FAILURE AND STATOR TEMPERATURE MONITOR, HI-CHROME HARD IRON IMPELLER AND IMPELLER WEAR PLATE, IMPELLER CODE 624, CAST IRON PUMP STAND	
3	12" X 14" LONG RADIUR SUCTION ELBOW WITH 6" CLEAN OUT	
3	SPARE PARTS: BASIC REPAIR KITS INCLUDING (1) SET OF MECHANICAL SEALS, (1) SET OF BEARINGS AND (1) SET OF "O" RINGS, (1) IMPELLER WEAR PLATE.	

THE TOTAL NET ESTIMATED PRICE F.O.B. FACTORY WITH FREIGHT ALLOWED TO THE JOB SITE IS.....$288,901.00

SPECIFICATION SECTION 11314 – END SUCTION CENTRIFUGAL PUMPS
WAS PUMPS

QTY	
2	FLYGT CONCERTOR 6020 MODEL NZ100 SUBMERSIBLE PUMP WITH 7.5HP, 460V-3PH MOTOR, INTEGRAL VFD, 60 FEET OF POWER CABLE, FLS, HI-CHROME HARD IRON IMPELLER AND IMPELLER WEAR PLATE, 4" SUCTION AND DISCHARGE.
2	Z STAND WITH SERVICE CART AND RAIL
2	SPARE PARTS: BASIC REPAIR KIT

THE TOTAL NET ESTIMATED PRICE F.O.B. FACTORY WITH FREIGHT ALLOWED TO THE JOB SITE IS.....$29,830.00

Cont.

SPECIFICATION SECTION 11310 – VERTICAL TURBINE PUMPS
PUMP TAG NO. PMP-419-006

CAPACITY 8500 GPM HEAD 18 FEET

1 CASCADE MODEL 16AF-1 STAGE AXIAL FLOW PUMP WITH 20" DIAMETER ABOVE BASE DISCHARGE FLANGE WATER FLUSH LUBRICATION, STAINLESS STEEL COUPLING GUARDS, 316SS FASTENERS, 416SS LINE SHAFT 416SS LINE SHAFT BOLTED COUPLINGS, MECHANICAL SEAL, ALUMINUM BRONZE IMPELLER, STAINLESS STEEL FLUSH LINE TO THE SUCTION BOWL BEARING, ROUND BASE PLATE, FOUR PIECE COUPLING, SPECIAL PAINT, AND ALL ITEMS PER ORIGINAL CASCADE DESIGN AND MATERIALS OF CONSTRUCTION.

1 60HP, 900RPM, 460V-3PH VERTICAL SOLID SHAFT ELECTRIC MOTOR WITH TEFC ENCLOSURE, PREMIUM EFFICIENT DESIGN, WINDING THERMOSTATS, INVERTER DUTY,

1 FACTORY PERFORMANCE TEST

1 SPARE PARTS: (1) SET OF LINE SHAFT BEARINGS, (1) MECHANICAL SEAL, (1) SET OF MOTOR BEARINGS

THE TOTAL NET ESTIMATED PRICE F.O.B. FACTORY WITH FREIGHT ALLOWED TO THE JOB SITE IS……..$147,700.00

SPECIFICATION SECTION 11371 – POSITIVE DISPLACEMENT BLOWERS

QTY

3 KAESER ROTARY BLOWER MODEL COM-PAK HB950C, 175HP POSITIVE DISPLACEMENT BLOWER PACKAGE WITH SOUND ENCLOSURE W/ VENT FAN, INLET SILENCER W/FILTER (GRADE G4), OIL DRAINS W/BALL VALVES, V-BELT DRIVE W/ AUTOMATIC BELT TENSIONER, IP 55 TEFC INVERTER DUTY DRIVE MOTOR (NPE), DISCHARGE SILENCER, PRESSURE RELIEF VALVE, VIBRATION ISOLATORS, FLEXIBLE CONNECTOR ON THE DISCHARGE, FLAP STYLE CHECK VALVE (PLATE), DISCHARGE TEMPERATURE GAUGE W/SWITCH, DISCHARGE PRESSURE GAUGE, INLET FILTER DIFFERENTIAL PRESSURE GAUGE, INLET FILTER DIFFERENTIAL PRESSURE SWITCH, OIL LEVEL SWITCH, BEARING GREASE, OMEGA BLOWER 220 SYNTHETIC OIL AND (3) SPARE INLET FILTERS. REQUIRES CONTROLS.

THE TOTAL NET PRICE F.O.B. FACTORY WITH FREIGHT ALLOWED TO THE JOB SITE IS……..$235,186.00

SPECIFICATION SECTION 15441 SUMP PUMPS
AWRF – SG-001-FB, SG-002-FP AND SG-003-FB
OWRF - SG-004-FB AND SG-005-FB

QTY

5 FLYGT NS3085 SUBMERSIBLE SOLIDS HANDLING PUMPS WITH 2.2HP, 460V-3PH MOTOR 50 FEET OF POWER CABLE, FLS/MINI-CAS SEAL FAILURE AND STATOR TEMPERATURE MONITOR, HI-CHROME HARD IRON IMPELLER AND IMPELLER WEAR PLATE, IMPELLER CODE 463

5 SIMPLEX CONTROL PANELS WITH NEMA 4X NON-METALLIC ENCLOSURE

15 FLYGT ENM-10 LEVEL SWITCHES

5 STAINLESS STEEL FLOAT BRACKETS

THE TOTAL NET PRICE F.O.B. FACTORY WITH FREIGHT ALLOWED TO THE JOB SITE IS……$55,813.00

SPECIFICATION SECTION 11217 SAMPLE PUMPS

QTY

1 GOULDS SELF PRIMING SHALLOW WELL JET PUMP J+, MODEL J10 CAPABLE OF 25 FEET OF SUCTION LIFT AND 10 FEET DISCARGE WITH 1HP, 115V-1PH MOTOR.

THE TOTAL NET PRICE F.O.B. FACTORY WITH FREIGHT ALLOWED TO THE JOB SITE IS……..$3,266.00

Cont.

SPECIFICATION SECTION - 11375 AERATION SYSTEMS AND 11376 COARSE BUBBLE AERATION SYSTEM

MANUFACTURER – XYLEM SANITAIRE

SEE ATTACHED SANITAIRE PROPOSAL

FINE BUBBLE AERATION $348,460.00
COARSE BUBBLE AERATON $83,572.00

TOTAL LUMP SUM …….$1,192,728.00

NOTES:

- **The above price is firm for 150 days. After such time it may be subject to review. Shipment has been estimated at Approx. 12 - 14 weeks for submersible pumps and +/- 23 weeks for vertical turbine pump after receipt of purchase order and/or approved submittal drawings.**
- **Price includes: Freight to the job site off loaded by-others. Submittal drawings and start-up supervision and Manufactures standard Warranties.**
- **Prices do not include: Sales tax**
- **Thank you for this opportunity to be of service. If you have any questions regarding this quotation or any other matter, Please do not hesitate to call.**

Peterson, Reed

From: Azuri, Nicole
Sent: Monday, June 7, 2021 10:43 AM
To: Peterson, Reed
Subject: FW: Sanitaire/Flygt Discount

This is the backup cost on the JCH items. This email needs to be behind the diffuser JCH proposal and the RAS Pumps proposal

---

From: Young, Kimberly <KYoung@mccarthy.com>
Sent: Monday, June 7, 2021 10:40 AM
To: Azuri, Nicole <NAzuri@mccarthy.com>
Subject: FW: Sanitaire/Flygt Discount

Nicole,

Please see below for pump cost.

Thank You,
Kimberly Young
Assistant Project Manager
McCarthy Building Companies, Inc.
T 480-449-4700| **M 602-803-6816**
mccarthy.com
LinkedIn | Twitter | Facebook | YouTube

From: Ed Martin <egm@jchinc.com>
Sent: Thursday, April 29, 2021 1:28 PM
To: Young, Kimberly <KYoung@mccarthy.com>
Subject: Re: Sanitaire/Flygt Discount

Hi Kim

Please see below.

Regards
Ed Martin
JCH Inc.

> On Apr 26, 2021, at 11:30 AM, Young, Kimberly <KYoung@mccarthy.com> wrote:
>
> Hi Ed,
>
> Can you look into the following items:
>
> 1. Will Flygt discount apply if the WAS pump is not selected? Flygt only, we can still do the 10% without the WAS pumps.
> 2. Will the Sanitaire discount be different if the add alternate for Coarse Bubble/the second 2 basins are not taken by the City? For Sanitaire if the job is split up, we can do 5%.

3. Provide a per pump cost for the RAS pumps. Price for bare pump only without cast iron stand, or 14" long radius elbow. deduct $70,034.00

Thank You,

Kimberly Young
Assistant Project Manager
McCarthy Building Companies, Inc.
T 480-449-4700| **M 602-803-6816**
mccarthy.com
LinkedIn | Twitter | Facebook | YouTube

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Xylem Water Solutions USA, Inc.
9333 N. 49th Street, Brown Deer, WI 53223
Tel 414.365.2200 Fax 414.365.2210

DATE: **March 25, 2021**

TO: **JCH, Inc.**

RE: **Chandler Airport WWTP**
Sanitaire #30301-20s

Engineer: **Wilson Engineers**

We propose to furnish the following Aeration Equipment subject to the terms and conditions set forth herein:

Section 11375	Fine Bubble Aeration
Section 11376	Coarse Bubble Aeration

A. EQUIPMENT AND SERVICE

The Xylem Water Solutions USA scope of supply for this project includes the following equipment and services:

1. Fine Bubble Aeration:
One (1) SANITAIRE® Disc Fine Bubble Aeration System for installation in the following tanks:

Tank	Zone	Dropleg Dia. (in)	Qty of Grids (total)
Aeration Basins 1 – 4	2a	14"	4
	2b	By Others	4
	2c	By Others	4
	3	By Others	4
	4a	By Others	4
	4b	By Others	4

Equipment for each grid will include:

- One PVC lower drop pipe including coupling for connection to the stainless steel upper drop pipe at the bottom of the tank.
- One PVC manifold with connections for each 4 inch diameter air distributor.
- 316 Stainless steel manifold supports with hold clamps and cradle.
- Four-inch diameter PVC air distribution headers including:
  - Fixed anti-rotational joint connection to the air manifold.
  - Factory installed diffuser holders.

- Positive locking fixed anti-rotational joint connections.
- 316 Stainless steel air distribution header support stands with header hold down clamp and locating plate.
- SANITAIRE® Fine Bubble Diffuser Elements with gaskets and retainer rings.
- Flanges, bolts, nuts and neoprene gaskets necessary to assemble the system.
- One purge system with eductor piping and isolation valve.
- 316 Stainless steel anchor bolts for the manifold and header supports.

NOTE: **Anchor bolts are designed for installation in 4000 PSI Concrete Per ACI Committee 350 ("Concrete Sanitary Engineering Structures").**

2. Coarse Bubble Aeration:
One (1) SANITAIRE® Stainless Steel Fixed Header Aeration Systems for installation in the following tanks:

Tank	Dropleg Dia. (in.)	Qty of Grids (total)
Sludge Holding Tanks 3 – 4	12"	2

Equipment for each grid will include:

- One 304L Stainless Steel Dropleg with elbow including loose follower flange for connection to the air main at the top of the tank and a connection to the air manifold.
- One 304L Stainless Steel manifold with connections to the dropleg and air distribution headers.
- 304L Air distribution headers, with a connection to the manifold.
- 304L Expansion/contraction joints and follower flange connections as required.
- 316L Header supports with hold-down, adjusting and locking mechanism, and supporting structure.
- Factory installed duplex diffuser connector tees welded to the bottom centerline of the air distribution headers.
- SANITAIRE® D24 304L Stainless Steel Diffusers.
- All bolts, nuts and gaskets necessary to assemble the headers.
- 304L End caps on each header.
- 316 Stainless steel anchor bolts for the distribution header supports.

NOTE: **Anchor bolts are designed for installation in 4000 PSI Concrete Per ACI Committee 350 ("Concrete Sanitary Engineering Structures).**

3. Spare Parts: Included as specified.

4. Engineering Drawings: Required sets of engineering drawings.

5. O & M Manuals: Required sets of O & M Manuals.

6. Field Installation Supervision and Start-Up Services:

The services of a qualified representative are NOT included in this proposal. However, field service is available at a cost of $1,000.00 per day PLUS travel and living expenses.

B. EXCLUSIONS

The following are specifically excluded from our proposal:

1. All valves, air main piping and accessories.
2. All bolts, gaskets and connectors for attaching drop pipe to upper air main piping.
3. Installation of equipment furnished by Xylem-Sanitaire.
4. All costs associated with videotaping services.
5. All field testing (anchor bolt strength testing, leakage, level, uniformity, mixing and pressure testing)

C. ESTIMATED SUBMITTALS AND DELIVERIES

The submittal schedule begins after acceptance of purchase order by Sanitaire. Delivery schedule begins after receipt of approved drawings; Assume two week turnaround of submittals by the review engineer.

Certified engineered equipment drawings:	10 – 11 weeks
Equipment Shipment (after release for fabrication):	10 – 12 weeks

D. PRICING

Pricing for the equipment and field services outlined in this proposal, DAP Jobsite per Incoterms 2010, Full freight allowed to destination:

$_____

E. PRICE NOTES

1. Taxes are not included. Purchaser to pay directly all applicable taxes separate from purchase order to Xylem Water Solutions USA.

2. All prices quoted shall be valid for 90 days from the date of bidding.

3. The prices are based on the equipment being released for shipment by the 3rd Quarter, 2021.

4. Prices on orders received after the above deadline or specifying later shipping dates shall be subject to review and possible adjustment in line with the then existing economic conditions.

5. Terms of Payment: 10% Net 30 days following initial submittal for approval.
80% Net 30 days following shipment
5% Net 30 days following installation, not to exceed 150 days after shipment of the product (whichever comes first)
5% Net 30 days following start up, not to exceed 180 days after shipment of the product (whichever comes first).

6. An interest charge of 1 1/2% per month will be added to past due accounts.

7. This order is subject to the Standard Terms and Conditions of Sale – Xylem Americas effective on the date the order is accepted. Terms are available at http://www.xyleminc.com/en-us/Pages/terms-conditions-of-sale.aspx and incorporated herein by reference and made a part of the agreement between parties. Different terms are hereby rejected unless expressly assented to in writing.

F. WARRANTY

Xylem Water Solutions USA warrants all parts to be free from defective material and workmanship for a period of one (1) year after startup or eighteen (18) months after shipment and to furnish to the Owner replacements for any such items found to be defective within that period.

Thank you for considering our proposal for this equipment.

Regards,

Bijan Baghernejad
Territory Manager – Sanitaire

Chandler WRF Improvements Project

GMP 2 Work Category Solicited Subcontractors Summary

Work Category: **11H Submersible Pumps for Dry Pit Application (RAS)**

Subcontractor/Supplier Name	***Status***
JCH - Flygt	*Recommended*
Phoenix Pump - ABS Sulzer	*Does not meet spec (Proposed)*
Capital Pump	*Declined*
DXP	*Declined*
Hennesy Mechanical Sales	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **11H - Submersible Pump for Dry Pit Application (RAS)**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	JCH	Phoenix Pumps	Capital Pump & Equipment	DXP	Hennesy Mech Sales
		Ed Martin	Sam McFadden	Will Swartz	Caitlin Petty	Jeff Pals
		(602) 243-0585	602-232-2994	(480) 626-5257	480-243-2081	602-996-9408
		egm@jchinc.com	bmontgomery@phoenixpumps.com	wswartz@cpepumps.com	caitlin.petty@dxpe.com	Jeff@hennesymech.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$196,668**	**Does Not Meet Spec**	**NO BID**	**NO BID**	**NO BID**
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	Yes	Yes			
2	Bid Submitted on McCarthy Bid Form	Yes	Yes			
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	N/A	N/A			
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing. (The date on the letter provided should be within the last 30 days and the letter should include the status of their line of credit.)	Yes	Yes			
5	Surety Company	N/A	N/A			
6	Surety AM Best Rating (Must be A- or Better)	N/A	N/A			
7	AM Best Financial Size X($500M to $750M) or higher	N/A	N/A			
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	N/A	N/A			
9	Bond/CDI Cost	1.295%	1.295%			
10	Included Insurance Requirements (Per Matrix)	Yes	Yes			
11	GL Insurance Company Name	Cincinnati Casualty Co	No			
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	Yes	No			
13	PRL Insurance (If required by the Front Ends)	N/A	N/A			
14	Pollution Insurance (If required by the Front Ends)	N/A	N/A			
15	Tier 1 Approved	Yes	Yes			
16	Tier 2 Approved	N/A	N/A			
17	Safety Items:	N/A	N/A			
18	OSHA Recordable Incident Rate (Current)	N/A	N/A			
19	Agrees to comply with PPE requirements including 100% glove policy	N/A	N/A			
20	Acknowledges updated ladder policy (platform ladders)	N/A	N/A			
21	Task Hazard Analysis included for all tasks	N/A	N/A			
22	Tie-off above 6' required	N/A	N/A			
23	Includes Hoisting for Sub's Own Work Scope	N/A	N/A			
24	Acknowledges Soils Report	N/A	Yes			
25	Acknowledges Addenda	Yes	Yes			
26	Hold Bid for 150 Days	Yes	Yes			
27	Pricing good for the duration of the project	Yes	Yes			
28	Sales Tax Excluded	Yes	Yes			
29	**COVID-19 Market Questions**					
30	How has your work program been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No	No			
31	Have you had any future work opportunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No	No			
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No			
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No	No			
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No			
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No	No			
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No	No			

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **11H - Submersible Pump for Dry Pit Application (RAS)**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	JCH	Phoenix Pumps	Capital Pump & Equipment	DXP	Hennesy Mech Sales
		Ed Martin	Sam McFadden	Will Swartz	Caitlin Petty	Jeff Pals
		(602) 243-0585	602-232-2994	(480) 626-5257	480-243-2081	602-996-9408
		egm@jchinc.com	bmontgomery@phoenixpumps.com	wswartz@cpepumps.com	caitlin.petty@dxpe.com	Jeff@hennesymech.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$196,668**	**Does Not Meet Spec**	**NO BID**	**NO BID**	**NO BID**
37	Do you have any overseas suppliers that may be impeding your supply chain?	No	No			
38						
39	Per Plans & Specifications	Yes	Yes			
40	Division 1 as it relates to this scope of work	Yes	Yes			
41	Spec Section 01300 - Submittals	Yes	Yes			
42	Spec Section - 01640 Materials and Equipment	Yes	Yes			
43	Spec Section - 01650 Starting of Systems	Yes	Yes			
44	Spec Section - 05051 - Anchor Bolts, Toggle Bolts, and Concrete Inserts	Yes	Yes			
45	Spec Section - 09900 - Painting	Yes	Yes			
46	Spec Section - 10400 - Equipment Identification Plates	Yes	Yes			
47	Spec Section - 11295 Hydraulic Valves	Yes	Yes			
48	Spec Section - 11311.1 - Submersible Pumps for Dry Pit Installation	Yes	Yes			
49	Spec Section - 13447 - Electric Motor Actuators	Yes	Yes			
50	Spec Section - 15990 - Testing, Adjusting and Balancing	Yes	Yes			
51	Spec Section - 16161 - Control Panels	Yes	Yes			
52	Spec Section - 16225 - Electric Motors 250 Hp or Less	Yes	Yes			
	Scope of Work					
	Base Bid:	$288,901	$133,037			
53	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 11H-Submersible Pumps for Dry Pit Application, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	Yes			
54	Check to Spec completed and submitted to McCarthy	Yes	Yes			
55	Provide (3) RAS Pumps at OWRF; PMP-449-154, PMP-449-155, PMP-449-156	Yes	Yes			
56	Deductive for 1 RAS Pump- Owner already purchased	-$70,034	N/A			
57	Approved Manufacturer - Flygt or Approved Equal	Flygt	ABS/Sulzer			
58	Tungsten Carbide Seals	Yes	No			
58	Impellers to be gray cast iron/Hi Chrome iron	Yes	No			
59	Wear ring system to seal between volute and impeller	Yes	No			
60	Pump to be provided with base	Yes	Yes			
61	High Temp Sensor per I-3.31	Yes	Yes			
62	Leak Detection per I-3.31	Yes	Yes			
63	Provide equipment safety guards as specified in Section 15050	N/A	Yes			
64	Warranty to be for 5 years or 10,00 hours of normal use	Yes	$19,785			
65	Pump can handle up to 4" solids	Yes	Yes			
66	Motor to be 85 HP, 460 Volt/3 Phase/60 Hz	Yes	Yes			
67	Pump provided with 60' Minimum power cable	Yes	Yes			
68	Performance Test - Performance Level 1, Vibration Level 2, Noise Level 1 per specification	$1,977	$2,500			
69	Provide spare parts per specification 11311.1 (3 sets as listed; one per pump)	Yes	Yes			
70	Provide shop painting per section 2.5 of spec 11311.1	Yes	Yes			
71	Provide anchor design for pump installation	N/A	N/A			

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **11H - Submersible Pump for Dry Pit Application (RAS)**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	JCH	Phoenix Pumps	Capital Pump & Equipment	DXP	Hennesy Mech Sales
		Ed Martin	Sam McFadden	Will Swartz	Caitlin Petty	Jeff Pals
		(602) 243-0585	602-232-2994	(480) 626-5257	480-243-2081	602-996-9408
		egm@jchinc.com	bmontgomery@phoenixpumps.com	wswartz@cpepumps.com	caitlin.petty@dxpe.com	Jeff@hennesymech.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$196,668**	**Does Not Meet Spec**	**NO BID**	**NO BID**	**NO BID**
72	Provide anchors and epoxy for installation	$800	$1,200			
73	Provide independent vibration testing	Yes	Yes			
74	Provide flushing and replacement of startup fluids prior to beneficial use.	N/A	N/A			
75	Provide lifting lugs for proper installation	Yes	Yes			
76	All metallic surfaces (including pipe, supports, and enclosure) shall be primed per the requirements of the 09900 - Painting	Yes	Yes			
77	Shipping shall be FOB jobsite	Yes	Yes			
78	O&M's per specification section 01781	Yes	Yes			
79	Training: per Spec 01821	Yes	Yes			
80	Training - 1 (8 HR) Day	Yes	Yes			
81	Performance testing: Per Spec 11311.1	Yes	Yes			
82	Installation Inspection: 1 (8 HR) Day	Yes	Yes			
83	Start Up & Performance Testing 1 (8 HR) Day	Yes	Yes			
84	Additional Startup days	$2,400	N/A			
85	Deduct For Flygt Products	-$28,890	N/A			
86	Cost per additional day/trip:	$1,200/Day	$210/HR + Travel Time			
87	GMP 1 Early Submittal	-$1,000	-$1,000			
88	COVID-19 Scope Items					
89	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes	N/A			
90	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes	N/A			
91	All personnel onsite must maintain 6'0" spacing between personnel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes	N/A			
92	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes	N/A			
93	All tools and equipment used must be sanitized each day.	Yes	N/A			
94	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes	N/A			
95	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes	N/A			
96	Personnel are not allowed to carpool to the site or while onsite.	Yes	N/A			
97	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the appropriate testing and quarantine protocols.	Yes	N/A			
98						
99	End of Scope					
100	Bond/CDI Cost	$2,514	$2,014			
	TOTAL WORK CATEGORY PACKAGE VALUE	**$196,668**	**$157,536**			

Cost is only for 2 - RAS Pumps.

BID PROPOSAL

Date APRIL, 7, 2021

Bid Proposal of * JAMES,COOKE AND HOBSON, INC. (hereinafter called "Bidder")

a ** CORPORATION organized and existing under the laws of the State of

TEXAS.

* Insert name of firm.
** Insert corporation, partnership, or individual, as applicable.

(INSERT OWNER'S ADDRESS)
TO: McCarthy Building Companies, Inc.
6225 North 24th Street, Suite 200
Phoenix, Arizona 85016

The Bidder, in compliance with your Invitation for Bids for the construction of Chandler Water Reclamation Facility Improvements having examined the Contract Documents entitled City of Chandler, Chandler WRF Improvements Project, and other related documents and being familiar with the site of the proposed work, and with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, and the progress of work to date, if any, hereby proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, perform all work, provide all services, and to construct all work in accordance with the Contract Documents set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required.

The Bidder shall attach a copy of Bidders' detailed estimate to its Bid Proposal. This estimate shall identify all quantities shown in the documents or anticipated along with corresponding labor, material and equipment pricing.

After Bid Proposals are received, tabulated, and evaluated by McCarthy, said Bidder agrees to meet with McCarthy for the purpose of determining any duplications, omissions, or mutually agreed bid adjustments. For these meetings, the Bidder agrees to provide a complete, detailed cost breakdown; a list of all sub-subcontractors proposed for use in the work; and a list of all items, materials and their manufacturers proposed for use in the work.

The Bidder, if awarded a Subcontract, agrees to commence work and to fully complete its Work in accordance with a schedule to be established in collaboration with McCarthy under the provisions of the Additional Subcontractor Conditions of the Specifications.

The Bidder acknowledges receipt of the following Addenda: 4

.

BASE BID:

The Bidder agrees to perform all SECTIONS 15441,11311.1, 11314, 11310,11371 AND 11375 11217 (herein insert the title of the Work Category as it appears in the Additional Subcontractor Conditions) Work for Work Category No. _____, as described in the Contract Documents, for the Lump Sum of ONE MILLION ONE HUNDRED NINETY TWO THOUSAND SEVEN HUNDRED TWENTY EIGHT DOLLARS ($ 1,192,728.00).

BID BREAKDOWN:

Airport WRF Total Amount $_____

- Aeration Basin $ 348,460.00 FINE BUBBLE AERATION
- Blower Piping $_____.
- Blower Ductbank $_____.
- Filters $ 33,488.00 SUMP PUMPS .
- Maintenance Bldg $_____.

Ocotillo WRF Total Amount $_____

- Aeration/Anoxic $ 147,700.00 IMLR PUMP .
- RAS/WAS PS $ 318,731.00 RAS AND WAS PUMPS .
- Clarifiers 1& 2 $_____.
- Filters $ 22,325.00 SUMP PUMPS ..
- MCC Replacement $_____..
- Reservoir $ 3,266.00 SAMPLE PUMP ..
- Roads/Sitework $_____..

Performance & Payment Bond Cost *(If Applicable)* $_____

Total Subcontract Amount $_____

The name of the proposed Bonding Company is _____

Bond rate _____%

All applicable taxes, except sales and use taxes on materials and equipment which are affixed and made a part of the real estate of the Project, are included in the above Base Bid. Bidder agrees that this Bid Proposal shall be good and may not be withdrawn unless McCarthy does not send Bidder a Subcontract within one hundred ~~twenty (160) calendar days~~ fifty (150) calendar days after the opening date of Bid Proposals.

(Amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

ALTERNATES:

The Bidder further agrees that if any or all of the Alternates listed and described below are incorporated and accepted within sixty (60) calendar days after receipt of a Subcontract from McCarthy, the Bidder will adjust its Subcontract by the amount indicated opposite the Alternates listed below.

ALTERNATE NO. 1: Filter Disc in Basin 7 Installation:

ADD the sum of $_____.

ALTERNATE NO. 2: Clarifier 3 Rehabilitation

ADD the sum of $_____.

ALTERNATE NO. 3: Sludge Holding Tank and Blower Bldg No. 2

83,572.00 COARSE BUBBLE AERATION

ADD the sum of $ 235,186.00 BLOWERS .

ALTERNATE NO. 4: Removal/Replacement of Diffusers in 2 Aeration Basins

ADD the sum of $ 174,230.00 FINE BUBBLE 2 BASINS ONLY

ALTERNATE NO. 5:_____

ADD the sum of $_____.

CHANGE ORDER RATES: (Add separate sheet as needed)

Markup % (on rates and material): _____.

Position: _____ Rate: _____.

Position: _____ Rate: _____.

Equipment: _____ Rate: _____.

Equipment: _____ Rate: _____.

SAFETY RECORDS

The Bidder certifies to the following Experience Modification Rates (EMR) and Incidence Rates for the three (3) most recent years:

	Year 2018	Year 2019	Year 2020
1. Compensation Experience Modification Rate:			
2. Incidence Rate:			
(a) Number of hours employees worked in the year.			
(b) Number of cases defined as recordable, from the OSHA Form 300 Log.			
(c) Total Recordable Incidence Rate = (b) x (200,000 hours) / Hours Worked (a)			

The Bidder understands that McCarthy reserves the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

SELECT AS APPROPRIATE

☒ The Bidder has completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program; OR

☐ The Bidder has not completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program because the Bidder has provided the Form and all such information to McCarthy in the past 12 months for the following project:

_____ Project, which bid on: _____.

RESPONSIVE BID REQUIREMENTS:

DO NOT ENCLOSE YOUR STANDARD TERMS AND CONDITIONS

If any exceptions are taken to the requirements of this Proposal form, attach a separate sheet listing those exceptions, stating the sections and paragraphs and the specific exception.	EM (initials)
In submitting this proposal, the Bidder certifies that this bid is valid for 150 calendar days.	EM (initials)
In submitting this Proposal as described herein, we agree to complete the work in accordance with the included Preliminary Construction Sequence.	EM (initials)
In submitting this Proposal, the Bidder certifies that all cost for extended warranties to start on the date of Substantial Completion is included.	(initials)
In submitting this proposal as described herein, we confirm that we have received, reviewed and agree to all commercial terms stated in the McCarthy Subcontract and Purchase Order Agreement. Any exception taken to the commercial terms stated in these Agreements must be listed on a separate sheet noting the article or paragraph and the specific exception. ***Bidders attached Standard Terms and Conditions will not be acknowledged or accepted as part of any given bid.***	(initials)
In submitting this proposal as described herein, the Bidder certifies that this bid is coordinated based on a complete set of documents and that there will be no claims for change order based on the assertion that the Bidder did not have a complete set of Bidding Documents.	EM (initials)
In submitting this proposal, the Bidder certifies that they have included all spare parts, training, O & M Manuals, shop drawings and administration costs as associated to comply with the requirements of the specifications and as listed for their scope of work.	EM (initials)
A bid will be considered non-responsive if the Subcontractor Pre-Qualification Form is not completed as part of the Bid Form **(or on file at McCarthy office)**.	EM (initials)
The Bidder, by submitting their bid, represents that they have read and understand the scope requirements of the Bidding Documents.	EM (initials)
The Bidder certifies that any proposed materials in this scope of work meet or exceeds the requirements stated in the specifications unless noted otherwise within this proposal.	EM (initials)
The bidder certifies that the price listed in this bid is a firm Price through the final delivery of the materials proposed herein, and that no material escalation will be accepted as part of this proposal.	EM (initials)

Within fifteen (10) days after receipt by the Bidder from McCarthy of the Subcontract or Purchase Order, the Bidder will execute and return to McCarthy said Subcontract or Purchase Order and if notified from McCarthy that Bidder is not to be enrolled in McCarthy's Contractor Default Insurance Program, deliver to McCarthy Performance and Labor and Material Payment Bonds for the Subcontract or a Supply Contract Bond for the Purchase Order, or the difference between the amount of the bid and such larger amount for which McCarthy may subcontract with another party to perform the work covered by said bid, together with all court costs, all attorney fees and all other expense of recovery, all of which shall not exceed the Bid Security attached in the amount of 15% of the bid, will become the property of McCarthy. The bonds shall name McCarthy as Obligee.

If an Individual:

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Partnership:

Authorized Signature: _____

Name (print): _____

Email: _____

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Corporation:

Authorized Signature: *Edward Martin*

Name (print): *Edward Martin*

Email: *egm@jchinc.com*

Title: *ITS Sales Engineer*

Business Address: *3501 e. Broadway Road*

Phoenix, AZ. 85040

Telephone *(602) 243-0585*

Contractor License Number: _____

General Liability Insurance Carrier (not the agent): *Cincinati Casualty Co.*

*Please attach a sample certificate of insurance and current W9 form to your bid.

Sales Engineers / Process Equipment

JAMES, COOKE & HOBSON, INC.

3501 E Broadway Rd, Phoenix, AZ.85040
Phone: 602-586-1439
Fax: 602-276-5402
E-mail: egm@jchinc.com

MARCH. 24, 2021
REVISED

To: McCARTHY CONSTRUCTION

Attn: KIM
Ph:

Quotation #: 081320-1EGM
Job Name: CHANDLER WRF
Location: CHANDLER, AZ
Quotation by: ED MARTIN

Unless otherwise stated: Prices are firm for 30 days from bid date, payment terms are NET 30 DAYS from shipment. Interest shall accrue at 1.5% per month on past due amounts per month. Any taxes are additional. **Items included are only listed below.** Please review carefully

QTY	DESCRIPTION	TOTAL
	SPECIFICATION SECTION 11311.1 – SUBMERSIBLE DRY PIT PUMPS	
3	FLYGT MODEL NT3301 SUBMERSIBLE DRY PIT SEWAGE PUMPS WITH 85HP, 460V-3PH MOTOR, 60 FEET OF POWER CABLE, FLS/MINI-CAS SEAL FAILURE AND STATOR TEMPERATURE MONITOR, HI-CHROME HARD IRON IMPELLER AND IMPELLER WEAR PLATE, IMPELLER CODE 624, CAST IRON PUMP STAND	
3	12" X 14" LONG RADIUR SUCTION ELBOW WITH 6" CLEAN OUT	
3	SPARE PARTS: BASIC REPAIR KITS INCLUDING (1) SET OF MECHANICAL SEALS, (1) SET OF BEARINGS AND (1) SET OF "O" RINGS, (1) IMPELLER WEAR PLATE.	

THE TOTAL NET ESTIMATED PRICE F.O.B. FACTORY WITH FREIGHT ALLOWED TO THE JOB SITE IS.....$288,901.00

SPECIFICATION SECTION 11314 – END SUCTION CENTRIFUGAL PUMPS
WAS PUMPS

QTY	
2	FLYGT CONCERTOR 6020 MODEL NZ100 SUBMERSIBLE PUMP WITH 7.5HP, 460V-3PH MOTOR, INTEGRAL VFD, 60 FEET OF POWER CABLE, FLS, HI-CHROME HARD IRON IMPELLER AND IMPELLER WEAR PLATE, 4" SUCTION AND DISCHARGE.
2	Z STAND WITH SERVICE CART AND RAIL
2	SPARE PARTS: BASIC REPAIR KIT

THE TOTAL NET ESTIMATED PRICE F.O.B. FACTORY WITH FREIGHT ALLOWED TO THE JOB SITE IS.....$29,830.00

Cont.

SPECIFICATION SECTION 11310 – VERTICAL TURBINE PUMPS
PUMP TAG NO. PMP-419-006

CAPACITY 8500 GPM HEAD 18 FEET

1 CASCADE MODEL 16AF-1 STAGE AXIAL FLOW PUMP WITH 20" DIAMETER ABOVE BASE DISCHARGE FLANGE WATER FLUSH LUBRICATION, STAINLESS STEEL COUPLING GUARDS, 316SS FASTENERS, 416SS LINE SHAFT 416SS LINE SHAFT BOLTED COUPLINGS, MECHANICAL SEAL, ALUMINUM BRONZE IMPELLER, STAINLESS STEEL FLUSH LINE TO THE SUCTION BOWL BEARING, ROUND BASE PLATE, FOUR PIECE COUPLING, SPECIAL PAINT, AND ALL ITEMS PER ORIGINAL CASCADE DESIGN AND MATERIALS OF CONSTRUCTION.

1 60HP, 900RPM, 460V-3PH VERTICAL SOLID SHAFT ELECTRIC MOTOR WITH TEFC ENCLOSURE, PREMIUM EFFICIENT DESIGN, WINDING THERMOSTATS, INVERTER DUTY,

1 FACTORY PERFORMANCE TEST

1 SPARE PARTS: (1) SET OF LINE SHAFT BEARINGS, (1) MECHANICAL SEAL, (1) SET OF MOTOR BEARINGS

THE TOTAL NET ESTIMATED PRICE F.O.B. FACTORY WITH FREIGHT ALLOWED TO THE JOB SITE IS……..$147,700.00

SPECIFICATION SECTION 11371 – POSITIVE DISPLACEMENT BLOWERS

QTY

3 KAESER ROTARY BLOWER MODEL COM-PAK HB950C, 175HP POSITIVE DISPLACEMENT BLOWER PACKAGE WITH SOUND ENCLOSURE W/ VENT FAN, INLET SILENCER W/FILTER (GRADE G4), OIL DRAINS W/BALL VALVES, V-BELT DRIVE W/ AUTOMATIC BELT TENSIONER, IP 55 TEFC INVERTER DUTY DRIVE MOTOR (NPE), DISCHARGE SILENCER, PRESSURE RELIEF VALVE, VIBRATION ISOLATORS, FLEXIBLE CONNECTOR ON THE DISCHARGE, FLAP STYLE CHECK VALVE (PLATE), DISCHARGE TEMPERATURE GAUGE W/SWITCH, DISCHARGE PRESSURE GAUGE, INLET FILTER DIFFERENTIAL PRESSURE GAUGE, INLET FILTER DIFFERENTIAL PRESSURE SWITCH, OIL LEVEL SWITCH, BEARING GREASE, OMEGA BLOWER 220 SYNTHETIC OIL AND (3) SPARE INLET FILTERS. REQUIRES CONTROLS.

THE TOTAL NET PRICE F.O.B. FACTORY WITH FREIGHT ALLOWED TO THE JOB SITE IS……..$235,186.00

SPECIFICATION SECTION 15441 SUMP PUMPS
AWRF – SG-001-FB, SG-002-FP AND SG-003-FB
OWRF - SG-004-FB AND SG-005-FB

QTY

5 FLYGT NS3085 SUBMERSIBLE SOLIDS HANDLING PUMPS WITH 2.2HP, 460V-3PH MOTOR 50 FEET OF POWER CABLE, FLS/MINI-CAS SEAL FAILURE AND STATOR TEMPERATURE MONITOR, HI-CHROME HARD IRON IMPELLER AND IMPELLER WEAR PLATE, IMPELLER CODE 463

5 SIMPLEX CONTROL PANELS WITH NEMA 4X NON-METALLIC ENCLOSURE

15 FLYGT ENM-10 LEVEL SWITCHES

5 STAINLESS STEEL FLOAT BRACKETS

THE TOTAL NET PRICE F.O.B. FACTORY WITH FREIGHT ALLOWED TO THE JOB SITE IS……$55,813.00

SPECIFICATION SECTION 11217 SAMPLE PUMPS

QTY

1 GOULDS SELF PRIMING SHALLOW WELL JET PUMP J+, MODEL J10 CAPABLE OF 25 FEET OF SUCTION LIFT AND 10 FEET DISCARGE WITH 1HP, 115V-1PH MOTOR.

THE TOTAL NET PRICE F.O.B. FACTORY WITH FREIGHT ALLOWED TO THE JOB SITE IS……..$3,266.00

Cont.

SPECIFICATION SECTION - 11375 AERATION SYSTEMS AND 11376 COARSE BUBBLE AERATION SYSTEM

MANUFACTURER – XYLEM SANITAIRE

SEE ATTACHED SANITAIRE PROPOSAL

FINE BUBBLE AERATION $348,460.00
COARSE BUBBLE AERATON $83,572.00

TOTAL LUMP SUM …….$1,192,728.00

NOTES:

- **The above price is firm for 150 days. After such time it may be subject to review. Shipment has been estimated at Approx. 12 - 14 weeks for submersible pumps and +/- 23 weeks for vertical turbine pump after receipt of purchase order and/or approved submittal drawings.**
- **Price includes: Freight to the job site off loaded by-others. Submittal drawings and start-up supervision and Manufactures standard Warranties.**
- **Prices do not include: Sales tax**
- **Thank you for this opportunity to be of service. If you have any questions regarding this quotation or any other matter, Please do not hesitate to call.**

Peterson, Reed

From: Azuri, Nicole
Sent: Monday, June 7, 2021 10:43 AM
To: Peterson, Reed
Subject: FW: Sanitaire/Flygt Discount

This is the backup cost on the JCH items. This email needs to be behind the diffuser JCH proposal and the RAS Pumps proposal

---

From: Young, Kimberly <KYoung@mccarthy.com>
Sent: Monday, June 7, 2021 10:40 AM
To: Azuri, Nicole <NAzuri@mccarthy.com>
Subject: FW: Sanitaire/Flygt Discount

Nicole,

Please see below for pump cost.

Thank You,
Kimberly Young
Assistant Project Manager
McCarthy Building Companies, Inc.
T 480-449-4700| **M 602-803-6816**
mccarthy.com
LinkedIn | Twitter | Facebook | YouTube

From: Ed Martin <egm@jchinc.com>
Sent: Thursday, April 29, 2021 1:28 PM
To: Young, Kimberly <KYoung@mccarthy.com>
Subject: Re: Sanitaire/Flygt Discount

Hi Kim

Please see below.

Regards
Ed Martin
JCH Inc.

> On Apr 26, 2021, at 11:30 AM, Young, Kimberly <KYoung@mccarthy.com> wrote:
>
> Hi Ed,
>
> Can you look into the following items:
>
> 1. Will Flygt discount apply if the WAS pump is not selected? Flygt only, we can still do the 10% without the WAS pumps.
> 2. Will the Sanitaire discount be different if the add alternate for Coarse Bubble/the second 2 basins are not taken by the City? For Sanitaire if the job is split up, we can do 5%.

3. Provide a per pump cost for the RAS pumps. Price for bare pump only without cast iron stand, or 14" long radius elbow. deduct $70,034.00

Thank You,

Kimberly Young
Assistant Project Manager
McCarthy Building Companies, Inc.
T 480-449-4700| **M 602-803-6816**
mccarthy.com
LinkedIn | Twitter | Facebook | YouTube

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Chandler WRF Improvements Project

GMP 2 Work Category Solicited Subcontractors Summary

Work Category: **11J End Suction Cent Pump (WAS)**

Subcontractor/Supplier Name	***Status***
Hennesy Mechanical	*Recommended*
JCH	*Proposed*
Capital Pump	*Declined*
DXP	*Declined*
Phoenix Pump	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **11J - End Suction Centrifugal Pump (WAS)**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Hennesy Mechanical	JCH	Capital Pump & Equipment	DXP	Phoenix Pumps Inc
		Jeff Pals	Ed Martin	Will Swartz	Caitlin Petty	Sam McFadden
		(602) 996-3444	(602) 243-0585	(480) 626-5257	480-243-2081	(602) 726-8470
		jeff@hennesymech.com	egm@jchinc.com	wswartz@cpepumps.com	caitlin.petty@dxpe.com	smcfadden@phoenixpumps.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$47,402**	**$32,564**	**NO BID**	**NO BID**	**NO BID**
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	Yes	Yes			
2	Bid Submitted on McCarthy Bid Form	Yes	Yes			
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	Yes	No			
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing. (The date on the letter provided should be within the last 30 days and the letter should include the status of their line of credit.)	Yes	Yes			
5	Surety Company	Merchants Bonding	N/A			
6	Surety AM Best Rating (Must be A- or Better)	Yes	N/A			
7	AM Best Financial Size X($500M to $750M) or higher	Yes	N/A			
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	Yes	N/A			
9	Bond/CDI Cost	1.295%	1.295%			
10	Included Insurance Requirements (Per Matrix)	Yes	Yes			
11	GL Insurance Company Name	Colony Insurance Co	The Cincinnati Casualty Co			
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	Yes	Yes			
13	PRL Insurance (If required by the Front Ends)	N/A	N/A			
14	Pollution Insurance (If required by the Front Ends)	N/A	N/A			
15	Tier 1 Approved	Yes	Yes			
16	Tier 2 Approved	N/A	N/A			
17	Safety Items:	Yes	Yes			
18	OSHA Recordable Incident Rate (Current)	Yes	Yes			
19	Agrees to comply with PPE requirements including 100% glove policy	Yes	Yes			
20	Acknowledges updated ladder policy (platform ladders)	Yes	Yes			
21	Task Hazard Analysis included for all tasks	Yes	Yes			
22	Tie-off above 6' required	Yes	Yes			
23	Includes Hoisting for Sub's Own Work Scope	N/A	N/A			
24	Acknowledges Soils Report	N/A	N/A			
25	Acknowledges Addenda	Yes	Yes			
26	Hold Bid for 150 Days	Yes	Yes			
27	Pricing good for the duration of the project	Yes	Yes			
28	Sales Tax Excluded	Yes	Yes			
29	**COVID-19 Market Questions**					
30	How has your work program been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No	No			
31	Have you had any future work opportunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No	No			
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No			
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No	No			
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No			
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No	No			
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No	No			

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **11J - End Suction Centrifugal Pump (WAS)**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Hennesy Mechanical	JCH	Capital Pump & Equipment	DXP	Phoenix Pumps Inc
		Jeff Pals	Ed Martin	Will Swartz	Caitlin Petty	Sam McFadden
		(602) 996-3444	(602) 243-0585	(480) 626-5257	480-243-2081	(602) 726-8470
		jeff@hennesymech.com	egm@jchinc.com	wswartz@cpepumps.com	caitlin.petty@dxpe.com	smcfadden@phoenixpumps.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$47,402**	**$32,564**	**NO BID**	**NO BID**	**NO BID**
37	Do you have any overseas suppliers that may be impeding your supply chain?	No	No			
38						
39	Per Plans & Specifications	Yes	Yes			
40	Division 1 as it relates to this scope of work	Yes	Yes			
41	Spec Section 01300 - Submittals	Yes	Yes			
42	Spec Section - 01640 Materials and Equipment	Yes	Yes			
43	Spec Section - 01650 Starting of Systems	Yes	Yes			
44	Spec Section - 05051 Anchor Bolts, Toggle Bolts, Concrete Inserts	Yes	Yes			
45	Spec Section - 09900 - Painting	Yes	Yes			
46	Spec Section - 10400 - Equipment Identification Plates	Yes	Yes			
47	Spec Section - 11295 Hydraulic Valves	Yes	Yes			
48	Spec Section - 11314 - End Suction Centrifugal Pumps	Yes	Yes			
49	Spec Section - 13447 - Electric Motor Actuators	Yes	Yes			
50	Spec Section - 15990 - Testing, Adjusting and Balancing	Yes	Yes			
51	Spec Section - 16161 - Control Panels	Yes	Yes			
52	Spec Section - 16225 - Electric Motors 250 Hp or Less	Yes	Yes			
53	Spec Section - 17454 Operations and Control Descriptions	Yes	Yes			
	Scope of Work					
	Base Bid:	$41,021	$29,830			
54	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 11J - End Suction Centrifugal Pump, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	Yes			
55	Check to Spec completed and submitted to McCarthy	No	Yes			
56	1 Year warranty from Final Acceptance (Aug 2023)	$275	Yes			
57	Provide (2) WAS Pumps (PMP-449-165 & PMP-449-166)	Yes	Yes			
58	Pump rated for 450GPM at TDH of 39'	Yes	Yes			
59	Pump to be 10 HP, 460V/3 Phase/ 60Hz	Yes	Yes			
60	Complete shop tests per specification 11314	Yes	Yes			
61	Shop tests to be witnessed by Professional Engineer and sign/seal test data	Yes	Yes			
62	Pump manufacturer to be Pentair Fairbanks or Approved Equal	Pentair Fairbanks	Flygt			
63	Motor to be TEFC & can sustain 15 starts per hour	Yes	Yes			
64	Motor the meet Spec 16225 section 2.5A.2. - TEFC - frame size 182 and larger frame and end shield to be cast iron. Smaller frame size may be rolled steel with cast metal end shields. Motors to have condensate drain holes, For frame size 286 and larger, provide automatic breather/drain device in drain hole.	Yes	No			
65	Pump to be painted according to section 2.4 of spec 11314	Yes	Yes			
66	Approved motor manufacturer per 16225; General Electric, Emerson US Motors, or Siemens	Yes	Yes			
67	Extended Motor Warranty (5 Years per 16225)	Yes	Yes			
68	Pre-Installation inspection prior to pump install	Yes	Yes			

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **11J - End Suction Centrifugal Pump (WAS)**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Hennesy Mechanical	JCH	Capital Pump & Equipment	DXP	Phoenix Pumps Inc
		Jeff Pals	Ed Martin	Will Swartz	Caitlin Petty	Sam McFadden
		(602) 996-3444	(602) 243-0585	(480) 626-5257	480-243-2081	(602) 726-8470
		jeff@hennesymech.com	egm@jchinc.com	wswartz@cpepumps.com	caitlin.petty@dxpe.com	smcfadden@phoenixpumps.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$47,402**	**$32,564**	**NO BID**	**NO BID**	**NO BID**
69	Provide anchor design for installation	$3,000	Yes			
70	Provide anchors and epoxy for installation	$2,000	$2,000			
71	Provide flushing and replacement of fluids for start up prior to beneficial use	$1,500	N/A			
72	Spare parts as specified	Yes	Yes			
73	Independent Vibration Testing	Yes	Yes			
74	Performance Test - Performance Level 1, Vibration Level 2, Noise Level 1 per specification	Yes	$1,318			
75	Provide lifting lugs for proper installation	Yes	Yes			
76	All metallic surfaces (including pipe, supports, and enclosure) shall be primed per the requirements of the 09900 - Painting	Yes	Yes			
77	Shipping shall be FOB jobsite	Yes	Yes			
78	O&M's per specification section 01781	Yes	Yes			
79	Training: per the Spec 01821 - 8 Hours of Operator Training	Yes	Yes			
80	Manufactures Services	Yes	Yes			
81	Startup days/trips included: 1 (8 HR) Day not including travel time	Yes	Yes			
82	Cost per additional day/trip: 1 Trip for 1 (8 HR) Day	$1,200/Day	$1,200/Day			
83	**GMP 1 Early Submittal**	-$1,000	-$1,000			
84	COVID-19 Scope Items					
85	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes	Yes			
86	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes	Yes			
87	All personnel onsite must maintain 6'0" spacing between personnel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes	Yes			
88	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes	Yes			
89	All tools and equipment used must be sanitized each day.	Yes	Yes			
90	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes	Yes			
91	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes	Yes			
92	Personnel are not allowed to carpool to the site or while onsite.	Yes	Yes			
93	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the appropriate testing and quarantine protocols.	Yes	Yes			
94						
95	End of Scope					
96	Bond/CDI Cost	$606	$416	$0	$0	$0
	TOTAL WORK CATEGORY PACKAGE VALUE	**$47,402**	**$32,564**	**$0**	**$0**	**$0**

Fairbanks pump is a dry pit pump which is required for this application. Flygt is a submersible rail system. For Flygt pump to be used, piping connect would need to be changed, pad lengthened, location changed and similar applications in flow shown. This is in lieu f the rail portion.

08-19-2014 Rev.
Front Ends

BID PROPOSAL

Date APRIL 7, 2021

Bid Proposal of * HENNESY MECHANICAL SALES (hereinafter called "Bidder")

a ** LLC organized and existing under the laws of the State of ARIZONA.

* Insert name of firm.
** Insert corporation, partnership, or individual, as applicable.

(INSERT OWNER'S ADDRESS)
TO: McCarthy Building Companies, Inc.
6225 North 24th Street, Suite 200
Phoenix, Arizona 85016

The Bidder, in compliance with your Invitation for Bids for the construction of Chandler Water Reclamation Facility Improvements having examined the Contract Documents entitled City of Chandler, Chandler WRF Improvements Project, and other related documents and being familiar with the site of the proposed work, and with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, and the progress of work to date, if any, hereby proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, perform all work, provide all services, and to construct all work in accordance with the Contract Documents set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required.

The Bidder shall attach a copy of Bidders' detailed estimate to its Bid Proposal. This estimate shall identify all quantities shown in the documents or anticipated along with corresponding labor, material and equipment pricing.

After Bid Proposals are received, tabulated, and evaluated by McCarthy, said Bidder agrees to meet with McCarthy for the purpose of determining any duplications, omissions, or mutually agreed bid adjustments. For these meetings, the Bidder agrees to provide a complete, detailed cost breakdown; a list of all sub-subcontractors proposed for use in the work; and a list of all items, materials and their manufacturers proposed for use in the work.

The Bidder, if awarded a Subcontract, agrees to commence work and to fully complete its Work in accordance with a schedule to be established in collaboration with McCarthy under the provisions of the Additional Subcontractor Conditions of the Specifications.

The Bidder acknowledges receipt of the following Addenda: 4

BASE BID:

The Bidder agrees to perform all SECTION 11314 END SUCTION CENTRIFUGAL PUMPS (herein insert the title of the Work Category as it appears in the Additional Subcontractor Conditions) Work for Work Category No. 11J, as described in the Contract Documents, for the Lump Sum of FORTY ONE THOUSAND AND TWENTY ONE DOLLARS DOLLARS ($ 41,021.00).

BID BREAKDOWN:

Airport WRF Total Amount $_____

- Aeration Basin $_____.
- Blower Piping $_____.
- Blower Ductbank $_____.
- Filters $_____.
- Maintenance Bldg $_____.

Ocotillo WRF Total Amount $_____

- Aeration/Anoxic $_____.
- RAS/WAS PS $_____.
- Clarifiers 1& 2 $_____.
- Filters $_____..
- MCC Replacement $_____..
- Reservoir $_____..
- Roads/Sitework $_____..

Performance & Payment Bond Cost *(If Applicable)* $ 1025.00

Total Subcontract Amount $ 42,046.00

The name of the proposed Bonding Company is MERCHANTS BONDING COMPANY

Bond rate _____% (VARIES)

All applicable taxes, except sales and use taxes on materials and equipment which are affixed and made a part of the real estate of the Project, are included in the above Base Bid. Bidder agrees that this Bid Proposal shall be good and may not be withdrawn unless McCarthy does not send Bidder a Subcontract within one hundred ~~twenty (160) calendar days~~ fifty (150) calendar days after the opening date of Bid Proposals.

(Amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

ALTERNATES:

The Bidder further agrees that if any or all of the Alternates listed and described below are incorporated and accepted within sixty (60) calendar days after receipt of a Subcontract from McCarthy, the Bidder will adjust its Subcontract by the amount indicated opposite the Alternates listed below.

ALTERNATE NO. 1: Filter Disc in Basin 7 Installation:

ADD the sum of $_____.

ALTERNATE NO. 2: Clarifier 3 Rehabilitation

ADD the sum of $_____.

ALTERNATE NO. 3: Sludge Holding Tank and Blower Bldg No. 2

ADD the sum of $_____.

ALTERNATE NO. 4: Removal/Replacement of Diffusers in 2 Aeration Basins

ADD the sum of $_____.

ALTERNATE NO. 5:_____

ADD the sum of $_____.

CHANGE ORDER RATES: (Add separate sheet as needed)

Markup % (on rates and material): _____.

Position: _____ Rate: _____.

Position: _____ Rate: _____.

Equipment: _____ Rate: _____.

Equipment: _____ Rate: _____.

SAFETY RECORDS

The Bidder certifies to the following Experience Modification Rates (EMR) and Incidence Rates for the three (3) most recent years:

	Year 2018	Year 2019	Year 2020
1. Compensation Experience Modification Rate:	.89	.89	.91
2. Incidence Rate:			
(a) Number of hours employees worked in the year.			
(b) Number of cases defined as recordable, from the OSHA Form 300 Log.			
(c) Total Recordable Incidence Rate = (b) x (200,000 hours) / Hours Worked (a)			

The Bidder understands that McCarthy reserves the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

SELECT AS APPROPRIATE

☑ The Bidder has completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program; OR

☐ The Bidder has not completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program because the Bidder has provided the Form and all such information to McCarthy in the past 12 months for the following project:

_____ Project, which bid on: _____.

RESPONSIVE BID REQUIREMENTS:

DO NOT ENCLOSE YOUR STANDARD TERMS AND CONDITIONS

If any exceptions are taken to the requirements of this Proposal form, attach a separate sheet listing those exceptions, stating the sections and paragraphs and the specific exception.	(initials)
In submitting this proposal, the Bidder certifies that this bid is valid for 150 calendar days.	(initials)
In submitting this Proposal as described herein, we agree to complete the work in accordance with the included Preliminary Construction Sequence.	(initials)
In submitting this Proposal, the Bidder certifies that all cost for extended warranties to start on the date of Substantial Completion is included. Per Scopes	(initials)
In submitting this proposal as described herein, we confirm that we have received, reviewed and agree to all commercial terms stated in the McCarthy Subcontract and Purchase Order Agreement. Any exception taken to the commercial terms stated in these Agreements must be listed on a separate sheet noting the article or paragraph and the specific exception. ***Bidders attached Standard Terms and Conditions will not be acknowledged or accepted as part of any given bid.*** See Attached	(initials)
In submitting this proposal as described herein, the Bidder certifies that this bid is coordinated based on a complete set of documents and that there will be no claims for change order based on the assertion that the Bidder did not have a complete set of Bidding Documents.	(initials)
In submitting this proposal, the Bidder certifies that they have included all spare parts, training, O & M Manuals, shop drawings and administration costs as associated to comply with the requirements of the specifications and as listed for their scope of work.	(initials)
A bid will be considered non-responsive if the Subcontractor Pre-Qualification Form is not completed as part of the Bid Form **(or on file at McCarthy office)**.	(initials)
The Bidder, by submitting their bid, represents that they have read and understand the scope requirements of the Bidding Documents.	(initials)
The Bidder certifies that any proposed materials in this scope of work meet or exceeds the requirements stated in the specifications unless noted otherwise within this proposal.	(initials)
The bidder certifies that the price listed in this bid is a firm Price through the final delivery of the materials proposed herein, and that no material escalation will be accepted as part of this proposal.	(initials)

Within fifteen (10) days after receipt by the Bidder from McCarthy of the Subcontract or Purchase Order, the Bidder will execute and return to McCarthy said Subcontract or Purchase Order and if notified from McCarthy that Bidder is not to be enrolled in McCarthy's Contractor Default Insurance Program, deliver to McCarthy Performance and Labor and Material Payment Bonds for the Subcontract or a Supply Contract Bond for the Purchase Order, or the difference between the amount of the bid and such larger amount for which McCarthy may subcontract with another party to perform the work covered by said bid, together with all court costs, all attorney fees and all other expense of recovery, all of which shall not exceed the Bid Security attached in the amount of 15% of the bid, will become the property of McCarthy. The bonds shall name McCarthy as Obligee.

If an Individual:

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Partnership:

Authorized Signature: _____

Name (print): JEFFERSON T. PALS

Email: jeff@hennesymech.com

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: 201 S. 26th STREET

PHOENIX, AZ. 85034

If a Corporation:

Authorized Signature: _____

Name (print): _____

Email: _____

Title: _____

Business Address: _____

_____

Telephone _____

Contractor License Number: _____

General Liability Insurance Carrier (not the agent): _____

*Please attach a sample certificate of insurance and current W9 form to your bid.

HENNESY Mechanical Sales L.L.C.
Hydro Mechanical Solutions

201 South 26th Street
Phoenix, Arizona 85034

602.996.3444
Fax: 602.996.9408

Albuquerque, NM
505.220.5908

AZ / NM / TX
Toll Free: 800.841.8148

Email: sales@hennesymech.com
www.hennesymech.com

April 7, 2021

TO: Nicole Azuri
McCarthy Companies

RE: Chandler Ocotillo

Dear Nicole,

We are in receipt and acknowledge compliance with 4 addendums. Please see our scopes below of the limited sections we are determining to participate in bidding. We will be following up and providing the bid bond as soon as possible.

Section 11310 Vertical Turbine Pumps

One (1) each Fairbanks Nijhuis 16" 8316 Axial Flow Vertical Pump known as the Mixed Liquor Return and Tag PMP-419-006.

Clarifications:

- Pump is provided with above ground discharge head and 10" column piping below grade not to exceed 10 ft lengths as per the specifications.
- Pump bearings are water flush lubricated (flushing system is by others).
- Mechanical seal is provided along with a spacer coupling. Mechanical seal includes upgraded seal faces.
- Pump comes fully assembled with final setting of the 60HP, 900 RPM motor by the contractor. Electrical hook up by others.
- Coating of interior column is as specified.
- Exterior painting is factory primer and final field coating is by others.
- Resonant Frequency calculations in submittals will be provided to comply to the 25% design above or below operating rotational frequencies.
- Factory Performance testing is included and will be provided. Factory noise testing is never very well received, practical or valuable but will be provided.
- All field testing is included per the specifications including the noise and vibration level testing.
- Setting of the mechanical seal and spacer coupling will be by HMS prior to startup.
- Spare parts are included and consist of; 1 Set of lineshaft bearings, one mechanical seal, one set of bearings for the motor provided. (if specified).

- One electronic submittal is included and one electronic O&M submittal in pricing. Any hard copies will be at an additional cost adder. Re-submittals if required will be 4-6 weeks.
- Standard warranty is 12 months from startup, 18 months from shipment. We did not see extended warranty required.
- Motor Exceptions are noted on the stand-alone Fairbanks Motor Exceptions Sheet.
- **NOT** included: any controls, water flushing systems or related controls, gauges, valves, piping supports, no anchoring hardware or anchoring calculation are offered, no lubricants or greases for startup, or anything else not specifically noted as being included.

LOT PRICE.....$88,679.00

Terms: Net 30 Days, NO retention allowed
FOB: Delivered
Delivery: 8-10 weeks for Submittals, 24-26 weeks to ship for production

Section 11314 End Suction Centrifugal Pumps

Two (2) each Fairbanks Nijhuis 4" B5423 horizontal mounted WAS Pumps. These pumps are identical to the pumps that Chandler has had in service for many years. These pumps exceed the current set of specifications in so many ways it is not practical to provide a check to spec as a review but rather we will note the construction in greater detail below along with comments to complying to specification requirements as related to service, spare parts, etc.

Clarifications:

- Pumps are heavy duty construction designed for slurry service at 450 GPM @ 39 ft TDH. Pumps are provided with discharge position #1 and mounted on structural steel horizontal baseplates complete with factory coupling, coupling guard and 10HP, 1200 RPM, TEFC, premium eff 256T framed motor, 50C, 1.15 SF, 3/60/460 all pre-mounted.
- Impellers are two vane non-clog type, cast iron A48-CL30 and dynamically balanced, operating in the CW rotation and capable of handling 3" solids.
- Special mechanical seals are provided with stainless steel shaft sleeve. Any mechanical seal flushing system is to be provided by others.
- Standard factory primer coating is included. Final field painting is by others.
- Spare parts are included as identified as (1) each set of gaskets and (1) each spare mechanical seal. No special tools are needed, so none is provided.
- Each pump is factory non-witnessed (PE Stamped) performance tested and results are provided for engineering approval prior to equipment being shipped.
- Each pump is factory non-witnessed hydro tested and results are submitted.
- Field testing is included which is parts of HMS startup and includes final laser field alignment of the pumps and motors (cold only) after installation by the contractor prior to startup.

- Standard warranty is 12 months from startup not to exceed 18 months from shipment. We are including one additional year of warranty which is 24 months from startup not to exceed 30 months from shipment.
- One electronic submittal is included and one electronic O&M submittal in pricing. Any hard copies will be at an additional cost adder. Re-submittals if required will be 4-5 weeks.
- Motor Exceptions are noted on the stand-alone Fairbanks Motor Exceptions Sheet.
- **NOT** provided: Controls of any kind, seal water flushing lines or controls, no anchoring hardware, no anchoring calculations, or valves, piping supports, gauges, lubricants or greases for startup, or anything else not specifically noted as being included.

LOT PRICE.....$41,021.00

Terms: Net 30 Days, NO retention allowed
FOB: Delivered
Delivery: 6-8 weeks for Submittals, 12-14 weeks to ship for production.

Noted below are HMS noted exceptions to the McCarthy T&C's. We are also noting that we are a supplier and not a subcontractor and much of the language is written to subcontractors and as such does not apply.

2. Invoicing. Since the invoicing is by email or electronic McCarthy can make the copies the require. We will attempt to obtain the Bill of lading and have that information display the items noted as requested but we cannot guarantee it.

3. Payment. We do not accept retention so our invoices must be paid 100% to the amount invoiced and payment must by Arizona law be paid within 7 days of payment to McCarthy. Any Bonds required on the project are billed when the Bond is presented and payments is due NET UPON RECIEPT.

4. Shipping. Since pump testing and curve approval is required that will be your point of knowing when the equipment will soon be shipping. Any freight damage must be noted on the Bill of Lading and reported to HMS within 24 hours or McCarthy maybe subject to the cost to repair the damage.

5. Submittals. Returned submittals will vary depending upon the engineering comments back but never will then happen in 48 hours. We can acknowledge receipt of receiving them in 48 hours. Submittals marked Approved as Noted are typical seen as OK to release to production and can be replied to within 1-2 weeks. Items with revise and resubmit can require 3-4 weeks for a resubmittal, sometimes more.

Liquidated Damages: We would need to limit the L.D.'s to the value of the order value itself.

As I mentioned early, due to much of the confusion surrounding the bidding process we were not ready for the Bid Bond but I will get one to you as a follow up ASAP.

Let me know if you have any other questions.

Regards,

Jefferson (Jeff) Pals
President
Hennesy Mechanical Sales

FAIRBANKS COMMENTS TO MOTOR SPECS:

SECTION 16225 - ELECTRIC MOTORS 250 HORSEPOWER OR LESS *(Dated March 2021)*

1.	[Clarification]	1.2.B	Motor has been quoted with typical features & testing of IEEE 841. Motor will not be rated or nameplated IEEE 841.
2.	[Clarification]	1.2.C	Nidec does not provide Prototype Test data. If additional tests will be required, please ask for a requote.
3.	[Exception]	1.2.D	Exception to 5 years warranty. Motor shall have Nidec standard limited warranty for 36 months from installation or 42 months from manufacturing date; whichever expires first.
4.	[Clarification]	1.3.A.1.a	Marked specifications will be supplied after confirmation of order. Please refer to this quotation on clarifications and extensions.
5.	[Clarification]	1.3.A.2	Motor performance data sheet shall be per Nidec standard.
6.	[Clarification]	1.3.A.4	Guaranteed efficiency is at full load only. Nidec will supply typical values at ¾ & ½ load.
7.	[Exception]	1.3.A.9, 2.6.A.3	Response curve will be a buyout item and shall be done by others.
8.	[Clarification]	1.7.A	Please ask for a re-quote if winding thermal protector is required. Pricing subject to change.
9.	[Clarification]	2.1.A	Nidec nameplate will have laser etched markings.
10.	[Clarification]	2.1.C.1, 2.2.A.14	To meet the intent of IEEE841, motors should have 50,000 Hours L-10 Bearing Life. There were no customer down thrust values provided, thus to meet this bearing life requirement, motors shall have maximum allowable down thrust capacity at 100%. Increasing down thrust capacity than what is described above shall be subject for an extra high thrust requirement. Increasing thrust capacity over stated standard high-thrust values to meet a specified bearing life will decrease motor efficiency due to the additional losses of larger capacity bearing arrangements.

11.	[Clarification]	2.2.A.16	Motor shall have oil-lubricated upper bearing and grease-lubricated lower bearing as standard.
12.	[Clarification]	2.2.A.9	Motor will have UL recognized components for this motor type. Quoting qty-1 stainless steel breather/drains on lower bracket only. If other types and quantity will be required, please ask for a requote.
13.	[Clarification]	2.2.A.12	Rotors shall be die-cast aluminum. Copper bar rotor is not available on the requested rating.
14.	[Clarification]	2.2.A.15	Bearing temperature rise requirements is still being confirmed by engineering inquiry. This requirement will be confirmed through email or an updated quote once done. Please ask for a re-quote if bearing protective devices are required.
15.	[Clarification]	2.2.A.16	Grease fitting is a standard feature of this motor.
16.	[Exception]	2.2.A.19	Matching paint of motor and driven equipment as an assembled equipment shall be done by others.
17.	[Clarification]	2.2.A.18	The approved High-Grade USDA epoxy paint is as quoted above. If different paint will be required, please provide MSDS sheet for Quoting Nidec standard paint and preparation If special paint is required, please supply MSDS for Engineering review and approval. Plant review and approval.
18.	[Clarification]	2.4.G.1	Motor will have ground lug in conduit box only.
19.	[Exception]	2.6.A.4	Exception to Overhaul Instructions. This is provided at Motor Repair Facilities only and will not be part of submittal package.

SECTION 11310 - VERTICAL TURBINE PUMPS *(Dated March 2021)*

20.	[Clarification]	1.5.A	Motor has been quoted with typical features & testing of IEEE 841. Motor will not be rated or nameplated IEEE 841.
21.	[Clarification]	1.6.A.2.o	Marked specifications will be supplied after confirmation of order. Please refer to this quotation on clarifications and extensions.
22.	[Clarification]	1.7.B.2	Due to the increasing surge of COVID-19 cases, Nidec Motor Corporation is only offering non-witnessed, virtual, video testing. Nidec Motor Corporation is taking these measures to ensure the safety of its employees and visitors. Once the COVID-19 cases subside, Nidec Motor Corporation will consider limited, In-Person

			Witness Testing on a case- by-case basis and by request. Nidec Motor Corporation appreciates your understanding and flexibility	
23.	Clarification]	2.4.A.4.a	Refer to comment #10.	
24.	[Exception]	2.4.H.1.b	Motor sizing shall be by others.	
25.	[Clarification]	2.4.I.f	Inverter Duty is not required per 2.5.A design criteria.	
26.	[Exception]	2.5.A	Taking exception to Sound Test for this rating.	
27.	[Clarification]	2.6.A	Refer to comment #16.	
28.	[Clarification]	3.4	Nidec offers limited / start up services at an additional charge. Please refer to the Technical Service/Start up Service rates for reference.	

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **11K - Equipment Installation**

GMP Date: **5/4/2021 Rev 6/21/2021**

		Recommended				
COMPANY INFORMATION		**McCarthy**				
		Jason House				
		972-322-1125				
		Jhouse@mccarthy.com				
TOTAL WORK CATEGORY PACKAGE VALUE		**$1,675,810**				
MCCARTHY SUBCONTRACT & FRONT END TERMS						
1	Compliant with McCarthy Front Ends	Yes				
2	Bid Submitted on McCarthy Bid Form	Yes				
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	N/A				
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing. (The date on the letter provided should be within the last 30 days and the letter should include the status of their line of credit.)	N/A				
5	Surety Company	Allianz-Starr				
6	Surety AM Best Rating (Must be A- or Better)	A+				
7	AM Best Financial Size X($500M to $750M) or higher	Yes				
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	N/A				
9	Bond/CDI Cost	0.000%				
10	Included Insurance Requirements (Per Matrix)	N/A				
11	GL Insurance Company Name	Travelers				
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	A+				
13	PRL Insurance (If required by the Front Ends)	N/A				
14	Pollution Insurance (If required by the Front Ends)	N/A				
15	Tier 1 Approved	Yes				
16	Tier 2 Approved	Yes				
17	Safety Items:	Yes				
18	OSHA Recordable Incident Rate (Current)	.39				
19	Agrees to comply with PPE requirements including 100% glove policy	Yes				
20	Acknowledges updated ladder policy (platform ladders)	Yes				
21	Task Hazard Analysis included for all tasks	Yes				
22	Tie-off above 6' required	Yes				
23	Includes Hoisting for Sub's Own Work Scope	Yes				
24	Acknowledges Soils Report	Yes				
25	Acknowledges Addenda	Yes				
26	Hold Bid for 150 Days	Yes				
27	Pricing good for the duration of the project	Yes				
28	Sales Tax Included	No				
29	**COVID-19 Market Questions**					
30	How has your work program been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No				
31	Have you had any future work opportunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No				
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No				
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No				
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No				
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No				
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No				
37	Do you have any overseas suppliers that may be impeding your supply chain?	No				

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **11K - Equipment Installation**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

COMPANY INFORMATION		**McCarthy**				
		Jason House				
		972-322-1125				
		Jhouse@mccarthy.com				
TOTAL WORK CATEGORY PACKAGE VALUE		**$1,675,810**				
38						
39	Per Plans & Specifications	Yes				
40	Division 1 as it relates to this scope of work	Yes				
41	02050 - Demolitions	Yes				
42	03600 - Grout	Yes				
43	05051 - Anchor Bolts, Toggle Bolts, and Concrete Inserts	Yes				
44	09900 - Painting	Yes				
45	10400 - Equipment Identification Plates	Yes				
46	11221 - Hyperbolic Mixers and Accessories	Yes				
47	11295 - Hydraulic Gates and Stop Logs	Yes				
48	11295 - Hydraulic Valves	Yes				
49	11310 - Vertical Turbine Pumps	Yes				
50	11311.1 - Submersible Pumps for Dry Pit Application	Yes				
51	11314 - End Suction Centrifugal Pumps	Yes				
52	11335 - Secondary Clarifier Mechanism	Yes				
53	11371 - Positive Displacement Blowers (Bid Alternate #3)	Yes				
54	11375 - Aeration Systems	Yes				
55	11376 - Coarse Bubble Aeration Systems (Bid Alternate #3)	Yes				
56	11400 - Disc Filter System	Yes				
57	16225 - Electric Motors 250 HP or Less	Yes				
Scope of Work						
Base Bid:		$1,739,540				
58	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 11K - Equipment Installation, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes				
59	Check to Spec completed and submitted to McCarthy	Yes				
60	1 year warranty from Final Acceptance (Aug 2023)	Yes				
61	Demolition of Process Equipment:	Yes				
62	General Demolition	Yes				
63	Subcontractor to coordinate sequence of demolition with CMAR schedule to ensure maintenance of Plant Operations.	Yes				
64	Subcontractor to include dumpsters and haul-off / disposal fees for their demolition scope. The CMAR dumpsters will not be used for any demolition scopes.	Yes				
65	AWRF – Process Equipment Demolition	Yes				
66	Demolish Filter Influent and Backwash Effluent Slide Gates and Actuators at Filters,	Yes				
67	OWRF – Process Equipment Demolition	Yes				
68	Demolish Clarifier Mechanism including suction pipe, access walkway, stairs, guardrail/handrail, center platform, scum box, etc. for Final Clarifiers 1 & 2.	Yes				
69	Demolish Sluice Gates, Slide Gates, and Actuators at Anoxic Basins. Refer to Spec Section 11285 – Hydraulic Gates and Stop Logs and Drawings for clarification on extent of gate demolition.	Yes				

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70	Demolish Vertical Propeller Mixers at Anoxic Basins.	Yes				
71	Demolish Mixers at Clarifier Splitter Box.	Yes				
72	Demolish Sluice Gates, Weir Gates, and Actuators at Clarifier Splitter Box.	Yes				
73	Demolish RAS and WAS Pumps at RAS/WAS Pump Station.	Yes				
74	Installation of Process Equipment:	Yes				
75	General Process Equipment Installation	Yes				
76	Subcontractor to inspect, receive, store, and install Process Mechanical Equipment that is furnished by CMAR.	Yes				
77	Subcontractor to provide hoisting for their scope of work, including unloading and handling prior to installation.	Yes				
78	Once equipment is received from CMAR, Subcontractor is responsible for proper storage, protection, installation and maintenance (including pre-installation and pre-startup) per the manufacturers instructions and Contract Documents.	Yes				
79	AWRF – Process Equipment Installation	Yes				
80	Fine Bubble Aeration Systems at (2) A-Basins	Yes				
81	Disc Filters at Filters (Filters 1 thru 5)	Yes				
82	Hydraulic Gates per the Gate Schedule	Yes				
83	OWRF – Process Equipment Installation	Yes				
84	Hyperbolic Mixers and Accessories at Anoxic Basins	Yes				
85	Vertical Turbine Pumps at Anoxic Basins	Yes				
86	Secondary Clarifier Mechanisms at Clarifiers 1 & 2	Yes				
87	Submersible Pumps for Dry Pit Application at RAS/WAS PS	Yes				
88	End Suction Centrifugal Pumps at RAS/WAS PS	Yes				
89	Disc Filters at Filters (Filters 1 thru 4)	Yes				
90	Hydraulic Gates per the Gate Schedule	Yes				
91	Shipping shall be FOB jobsite	Yes				
92	Unloading & storage	Yes				
93	Temporary protection & enclosure	Yes				
94	Preventative maintenance	Yes				
95	O&M's per specification section 01781	Yes				
96	Coordinating and Scheduling Manufacturer's Training of Plant Personnel	Yes				
97	Spare Parts per the Specifications	Yes				
98	Coordinating and Scheduling Manufactures Services	Yes				
99	Performance testing: Per Spec	Yes				
100	**GMP 1 Early Demo**	-$63,730				
101	COVID-19 Scope Items					
102	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes				
103	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes				
104	All personnel onsite must maintain 6'0" spacing between personnel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes				
105	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes				

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		Jhouse@mccarthy.com				
TOTAL WORK CATEGORY PACKAGE VALUE		**$1,675,810**				
106	All tools and equipment used must be sanitized each day.	Yes				
107	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes				
108	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes				
109	Personnel are not allowed to carpool to the site or while onsite.	Yes				
110	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the appropriate testing and quarantine protocols.	Yes				
111						
112	End of Scope					
113	Bond/CDI Cost	$0				
	TOTAL WORK CATEGORY PACKAGE VALUE	**$1,675,810**				

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
11K – Equipment Installation								
A - AB Diffuser replacements				**135,306**	**2,860**			**$139,166**
Aeration Systems								
Fine Bubble Diffusers w/ 4" laterals, supports, and accessories.	15,080.0	SF	8.54	126,634	2,195			$128,829
12" PVC Sch-40 Manifold w/ supports and dropleg couplings	144.0	LF	23.42	3,373				$3,373
10" PVC Sch-40 Manifold w/ supports and dropleg couplings	50.0	LF	18.28	914				$914
6" PVC Sch-40 Manifold w/ supports and dropleg couplings	122.0	LF	11.43	1,394				$1,394
Unload, Store & Protect	2.0	EA	1,746.45	1,828	665			$3,493
Startup & Training	2.0	EA	581.56	1,163				$1,163
A - Filters				**168,953**	**43,777**	**1,050**	**17,360**	**$238,076**
Hydraulic Gates and Stop Logs								
Filter Influent Slide Gate 48" x 24" w/ electric motor actuator	6.0	EA	3,375.38	15,767	4,486			$20,252
Common Filter Effluent Slide Gate 48" x 60" w/ electric motor actuator	1.0	EA	3,661.01	2,913	748			$3,661
Grout for Slide Gates	7.0	EA	607.01	3,199		1,050		$4,249
Unload, Store & Protect	7.0	EA	330.47	800	1,164			$2,313
Startup & Training	7.0	EA	145.39	1,018				$1,018
Disc Filter System								
Cloth Filter Media Assembly with center tube, drive assembly, 14 disc configuration, influent weir box	5.0	EA	16,606.60	67,694	14,952			$83,033
Backwash Pumps	10.0	EA	1,123.79	8,569	1,869			$11,238
External Piping Assembly Kit w/ Valves & Instruments	5.0	EA	5,137.27	20,614	4,673			$25,686
Unload, Store & Protect	5.0	EA	789.45	2,285	1,662			$3,947
Startup & Training	5.0	EA	1,163.13	5,816				$5,816
Preventative Maintenance	5.0	EA	1,744.69	8,723				$8,723
Demolition								
Demo existing Influent Slide Gate 60" x 72" w/ electric motor operator.	8.0	EA	1,287.81	7,312	2,990			$10,302
Demo existing Backwash Effluent Slide Gate 60" x 72" w/ electric motor operator.	8.0	EA	1,287.81	7,312	2,990			$10,302
Anthracite Filter Media Transfer and Loading	5.0	EA	8,691.37	12,853	8,244		17,360	$43,457
FRP								
FRP Grating for Platforms	150.0	SF	21.84	3,275				$3,275
Weirs 1' Weir and Hardware (Top Weir Walls)	42.0	LF	19.11	802				$802
O - Aeration / Anoxic & MCC Replacement				**110,396**	**25,670**	**2,450**		**$140,266**
Hyperbolic Mixers and Accessories								
Hyperbolic Mixer 5HP(shaft length approx. 29.5-foot)	8.0	EA	2,658.83	18,280	2,990			$21,271
Unload, Store & Protect	8.0	EA	723.23	3,656	1,330			$5,786
Startup & Training	8.0	EA	199.91	1,599				$1,599
Preventative Maintenance	8.0	EA	1,163.13	9,305				$9,305
Hydraulic Gates and Stop Logs								
IMLR Discharge Channel Slide Gate 30" x 36" w/ handwheel operator. Upward Opening	2.0	EA	3,146.88	4,799	1,495			$6,294
Anoxic Influent Channel Sluice Gate 36" x 36" w/ handwheel operator. Install on existing wall thimble. Upward Opening	2.0	EA	3,204.01	4,913	1,495			$6,408
IMLR Discharge Channel Expansion Slide Gate 60" x 72" w/ handwheel operator. Upward Opening	2.0	EA	3,946.64	6,398	1,495			$7,893
MLR Influent Pipe Sluice Gate 48" x 48" w/ handwheel operator. Install on existing wall thimble. Upward Opening	1.0	EA	3,489.64	2,742	748			$3,490
IMLR Pump Feed Sluice Gate 42" x 42" w/ handwheel operator. Upward Opening	1.0	EA	3,375.38	2,628	748			$3,375
IMLR (From future Oxic) Sluice Gate 42" x 42" w/ handwheel operator. Upward Opening	1.0	EA	3,375.38	2,628	748			$3,375
Anoxic Effluent Sluice Gate 60" x 72" w/ handwheel operator. Downward Opening	2.0	EA	3,946.64	6,398	1,495			$7,893
Anoxic Effluent Sluice Gate 60" x 72" w/ handwheel operator. Upward Opening	2.0	EA	3,946.64	6,398	1,495			$7,893
Anoxic Effluent Stop Log Frame 84" x 96" w/ Logs (7 ea. 12" tall & 2 ea. 6" tall).	2.0	EA	2,575.62	3,656	1,495			$5,151
Grout for Slide Gates	13.0	EA	607.01	5,941		1,950		$7,891
Grout for Stop Log Frames	2.0	EA	607.01	914		300		$1,214
Unload, Store & Protect	15.0	EA	330.47	1,714	2,493			$4,957
Startup & Training	15.0	EA	145.39	2,181				$2,181
Vertical Turbine Pumps								
MLR Vertical Turbine Pump 8,500 GPM @ 18' TDH, 60HP	1.0	EA	3,230.09	2,856	374			$3,230
Grout for Vertical Turbine Pump	1.0	EA	657.01	457		200		$657
Unload, Store & Protect	1.0	EA	823.23	457	166			$823
Startup & Training	1.0	EA	290.78	291				$291
Preventative Maintenance	1.0	EA	1,163.13	1,163				$1,163
Demolition								
Demo existing Sluice Gates 60" x 72" w/ handwheel operator	4.0	EA	1,287.81	3,656	1,495			$5,151
Demo existing Vertical Propeller Mixers	8.0	EA	1,744.82	10,968	2,990			$13,959
Demo existing Slide Gates 30" x 36" w/ handwheel operator	2.0	EA	1,287.81	1,828	748			$2,576
Demo existing Slide Gates 36" x 36" w/ handwheel operator	2.0	EA	1,287.81	1,828	748			$2,576

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
Demo existing Slide Gates 42" x 42" w/ handwheel operator	2.0	EA	1,287.81	1,828	748			$2,576
Demo existing Slide Gates 48" x 48" w/ handwheel operator	1.0	EA	1,287.81	914	374			$1,288
O - Clarifiers				**179,265**	**23,990**			**$206,035**
Secondary Clarifier Mechanism								
100' Secondary Clarifier w/Half Bridge - INSTALLATION	2.0	EA	54,900.93	95,971	13,831			$109,802
FRP Weirs & Baffles	2.0	EA	11,958.83	22,850	747			$23,918
Stamford Baffles	2.0	EA	7,159.30	13,710	448			$14,319
Launder Brushes	2.0	EA	2,322.40	4,570	75			$4,645
Unload, Store & Protect	2.0	EA	1,646.45	1,828	665			$3,293
Startup & Training	2.0	EA	581.56	1,163				$1,163
Preventative Maintenance	2.0	EA	1,163.13	2,326				$2,326
Demolition								
100' Secondary Clarifier w/Half Bridge - DEMOLITION	2.0	EA	23,142.04	36,560	8,224			$46,284
Demo / Cut 14" diam RAS/WAS Pipe	2.0	EA	142.81	286				$286
O - Effluent Storage Reservoir				**15,922**	**4,569**	**750**		**$21,492**
Hydraulic Gates and Stop Logs								
CCB Stop Log Frame 48" x 156" w/ Logs	2.0	EA	2,575.62	3,656	1,495			$5,151
Reservoir Inlet Slide Gate 60" x 72" w/ electric motor actuator. Upward Opening	1.0	EA	3,946.64	3,199	748			$3,947
Reservoir Outlet Slide Gate 48" x 48" w/ electric motor actuator. Upward Opening	2.0	EA	3,489.64	5,484	1,495			$6,979
Grout for Slide Gates	3.0	EA	607.01	1,371		450		$1,821
Grout for Stop Log Frames	2.0	EA	607.01	914		300		$1,214
Unload, Store & Protect	5.0	EA	330.47	571	831			$1,652
Startup & Training	5.0	EA	145.39	727				$727
O - Filters				**127,129**	**28,244**	**1,350**		**$158,443**
Hydraulic Gates and Stop Logs								
Filter Influent Slide Gate 48" x 24" w/ electric motor actuator. Upward Opening	4.0	EA	3,375.38	10,511	2,990			$13,502
Common Filter Influent Channel Slide Gate 48" x 84" w/ handwheel operator. Upward Opening	2.0	EA	3,946.64	6,398	1,495			$7,893
Filter Bypass Channel Slide Gate 48" x 60" w/ handwheel operator. Upward Opening	1.0	EA	3,661.01	2,913	748			$3,661
Filter Bypass Stop Log Frame 48" x 48" w/ Logs (3 ea. 12" tall, 2 ea. 6" tall)	1.0	EA	2,575.62	1,828	748			$2,576
Common Effluent Channel Stop Log Frame 48" x 120" w/ Logs (9 ea. 12" tall, 2 ea. 6" tall)	1.0	EA	2,575.62	1,828	748			$2,576
Grout for Slide Gates	7.0	EA	607.01	3,199		1,050		$4,249
Grout for Stop Log Frames	2.0	EA	607.01	914		300		$1,214
Unload, Store & Protect	9.0	EA	330.47	1,028	1,496			$2,974
Startup & Training	9.0	EA	145.39	1,309				$1,309
Disc Filter System								
Cloth Filter Media Assembly with center tube, drive assembly, 12 disc configuration, influent weir box	4.0	EA	16,606.60	54,155	11,962			$66,426
Backwash Pumps	8.0	EA	1,123.79	6,855	1,495			$8,990
External Piping Assembly Kit w/ Valves & Instruments	4.0	EA	4,968.17	15,815	3,738			$19,873
Unload, Store & Protect	4.0	EA	789.45	1,828	1,330			$3,158
Startup & Training	4.0	EA	1,163.13	4,653				$4,653
Preventative Maintenance	4.0	EA	1,744.69	6,979				$6,979
Demolition								
Demo existing Slide Gates 48" x 84" w/ handwheel operator	2.0	EA	1,287.81	1,828	748			$2,576
Demo existing Slide Gates 48" x 30" w/ handwheel operator	1.0	EA	1,287.81	914	374			$1,288
Demo existing Slide Gates 48" x 60" w/ handwheel operator	1.0	EA	1,287.81	914	374			$1,288
FRP								
FRP Grating for Platforms	120.0	SF	21.84	2,620				$2,620
Weirs 1' Weir and Hardware (Top Weir Walls)	33.5	LF	19.11	640				$640
O - General (Temp Power, Potholing, Silo Gate)				**5,484**	**1,330**	**2,500**	**3,000**	**$12,314**
Cake Silo Isolation Gate								
Remove and Rotate existing Silo Isolation Gate	1.0	EA	12,313.83	5,484	1,330	2,500	3,000	$12,314
O - RAS/WAS Pump Station				**24,698**	**5,607**	**1,000**		**$31,630**
Submersible Pumps for Dry Pit Application								
RAS Dry Pit Submersible Pump 4,939.6 GPM @54.2 TDH, 85HP	3.0	EA	3,032.63	6,855	2,243			$9,098
Grout for Dry Pit Submersible Pump	3.0	EA	657.01	1,371		600		$1,971
Unload, Store & Protect	3.0	EA	532.01	1,371				$1,596
Startup & Training	3.0	EA	290.78	872				$872
Preventative Maintenance	3.0	EA	581.56	1,745				$1,745
End Suction Centrifugal Pumps								
WAS End Suction Centrifugal Pump 450 GPM @ 39' TDH, 10HP	2.0	EA	2,575.62	3,656	1,495			$5,151
Grout for End Suction Centrifugal Pump	2.0	EA	542.75	686		400		$1,086
Unload, Store & Protect	2.0	EA	278.50	457				$557
Startup & Training	2.0	EA	290.78	582				$582
Preventative Maintenance	2.0	EA	581.56	1,163				$1,163
Demolition								
Demo existing RAS Pumps	3.0	EA	1,744.82	4,113	1,121			$5,234
Demo existing WAS Pumps	2.0	EA	1,287.81	1,828	748			$2,576

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
O - Splitter Box Mods				**39,126**	**12,336**	**1,350**		**$53,262**
Hydraulic Gates and Stop Logs								
Splitter Box Weir Gate 60" x 30" w/ handwheel operator. Downward Opening	4.0	EA	3,432.51	10,740	2,990			$13,730
Splitter Box Sluice Gate 24" x 24" w/ handwheel operator. Upward Opening	1.0	EA	3,032.63	2,285	748			$3,033
Stop Logs 60" x 42" (3 ea. 12" tall, 1 ea. 6" tall) in existing channel frame.	4.0	EA	3,032.63	9,140	2,990			$12,131
Grout for Slide Gates	9.0	EA	607.01	4,113		1,350		$5,463
Unload, Store & Protect	9.0	EA	330.47	1,028	1,496			$2,974
Startup & Training	9.0	EA	145.39	1,309				$1,309
Demolition								
Demo existing Mixers (smaller)	4.0	EA	1,287.81	3,656	1,495			$5,151
Demo existing Mixers (larger)	2.0	EA	1,516.31	2,285	748			$3,033
Demo existing Weir Gates 60" x 36" w/ handwheel operator	4.0	EA	1,287.81	3,656	1,495			$5,151
Demo existing Sluice gate 24" x 24" w/ handwheel operator	1.0	EA	1,287.81	914	374			$1,288
Z - General Requirements (both plants)				**459,592**	**14,497**	**121,136**		**$738,857**
Project/Field Supervision								
Assistant Project Manager (Kim Young)	16.0	WK	4,354.78	69,676				$69,676
Mech Superintendent (Jordan Woodworth)	32.0	WK	4,995.16	159,845				$159,845
Project Engineer (Taylor Meulemans)	48.0	WK	3,673.03	176,305				$176,305
General Carpentry								
Layout (Crew)	176.0	HR	63.64	11,201				$11,201
Survey Instruments	4.0	MO	550.00			2,200		$2,200
Cleanup, Saftey and Protection	40.0	WK	912.70	36,508				$36,508
Dump Fees	10.0	LD	260.06			2,601		$2,601
Job Support Items								
Double Wide Trailers (Ocotillo)	4.5	MO	1,441.00			6,485		$6,485
Tool Trailer	10.0	MO	151.78		1,518			$1,518
Motorola Radios	42.0	MO	75.00			3,150		$3,150
Water Distribution	13,917.3	MH	0.31	4,360				$4,360
Drinking Water/Cups	13,917.3	MH	0.18			2,505		$2,505
Coolers	5.0	EA	30.00			150		$150
First Aid	10.0	MO	175.00			1,750		$1,750
Personal Protective Gear	13,917.3	MH	1.25			17,397		$17,397
Scaffolding/Stairs	20.0	EA	750.00			15,000		$15,000
Fire Extinguishers	12.0	EA	150.00			1,800		$1,800
Control Logistics								
Yard Charges/Services	10.0	MO	500.00			5,000		$5,000
Safety Railing	300.0	LF	7.15	1,696		450		$2,146
Safety Programs	13,917.3	MH	0.29			4,036		$4,036
Drug Testing	13,917.3	MH	0.12			1,670		$1,670
Equipment Cost								
Small Tools	13,917.3	MH	1.50			20,876		$20,876
Consumables	13,917.3	MH	1.50			20,876		$20,876
Forklift - Petibone 8000	4.0	MO	3,244.74		12,979			$12,979
Fuel, Oil & Parts-Equip	12,978.9	%	0.40			5,192		$5,192
Indirect Cost								
McCarthy Travel (Equipment QC)	1.0	LS	10,000.00			10,000		$10,000
Contractor Fee @ 9%	1,595,908.5	%	0.09					$143,632
11K – Equipment Installation Total				**1,265,871**	**162,879**	**131,586**	**20,360**	**$1,739,540**

Chandler WRF Improvements Project

GMP 2 Work Category Solicited Subcontractors Summary

Work Category: **13A Wet Pipe Fire Extinguishing System**

Subcontractor/Supplier Name	***Status***
RCI Systems	*Recommended*
Aero Automatic Sprinkler Company	*Proposed*
Foothills Fire Protection	*Proposed*
Arizona Verde Fire Protection	*Proposed*
Climatec	*Declined*
Western States Fire Protection Company	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **13A - Wet Pipe Fire Extinguishing System**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

COMPANY INFORMATION		RCI Systems	Arizona Verde Fire Protection	Foothills Fire	Aero Automatic Sprinkler	Western States Fire Protection
		Jeff Little	Wade Green	Kevin Huennekens	Jerry Wear	Travis Sticka
		(480) 694-0856	(602) 278-1111	(480) 951-3434	(602) 763-4162	(6022) 727-2200
		jlittle@rcifire.com	wade@avfp.net	kevin@foothillsfire.com	jwear@aerofire.com	travis.sticka@wsfp.us
TOTAL WORK CATEGORY PACKAGE VALUE		**$32,703**	**$44,298**	**$46,476**	**$63,014**	**DECLINED**
MCCARTHY SUBCONTRACT & FRONT END TERMS						
1	Compliant with McCarthy Front Ends	Yes	Yes	Yes	Yes	
2	Bid Submitted on McCarthy Bid Form	Yes	Yes	Yes	Yes	
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	N/A	N/A	N/A	N/A	
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing.	Yes	Yes	Yes	Yes	
5	Surety Company	Travelers Casualty & Surety	Western National Mutual Insurance Co.	Merchants Bonding Company	Travelers Casualty & Surety	
6	Surety AM Best Rating (Must be A- or Better)	A++	A+	A	A++	
7	AM Best Financial Size X($500M to $750M) or higher	Yes	Yes	No	Yes	
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	Yes	Yes	Yes	Yes	
9	Bond/CDI Cost	1.500%	1.600%	2.000%	0.500%	
10	Included Insurance Requirements (Per Matrix)	Yes	Yes	Yes	Yes	
11	GL Insurance Company Name	Travelers Property Casualty Co of America	Everest Indemnity Insurance Company	Great Divide Insurance Company	Old Republic Insurance Company	
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	A++	A+	A+	A+	
13	PRL Insurance (If required by the Front Ends)	Yes	Yes	Yes	Yes	
14	Pollution Insurance (If required by the Front Ends)	Yes	Yes	Yes	Yes	
15	Tier 1 Approved	Yes	Pending	Yes	Yes	
16	Tier 2 Approved	No	No	No	No	
17	Safety Items:	Yes				
18	OSHA Recordable Incident Rate (Current)	0	0.75	0.7	0.41	
19	Agrees to comply with PPE requirements including 100% glove policy	Yes	Yes	Yes	Yes	
20	Acknowledges updated ladder policy (platform ladders)	Yes	Yes	Yes	Yes	
21	Task Hazard Analysis included for all tasks	Yes	Yes	Yes	Yes	
22	Tie-off above 6' required	Yes	Yes	Yes	Yes	
23	Includes Hoisting for Sub's Own Work Scope	Yes	Yes	Yes	Yes	
24	Acknowledges Soils Report	Yes	Yes	Yes	Yes	
25	Acknowledges Addenda	Yes	Yes	Yes	Yes	
26	Hold Bid for 150 Days	Yes	Yes	Yes	Yes	
27	Sales Tax Included	No	No	No	No	
28	**COVID-19 Market Questions**					
29	How has your work program been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	5%	0%	10%	No. Less than 0.5% of Aero's total work delayed.	
30	Have you had any future work opportunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	Yes, less than 5% now	No	10%	No	
31	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No	No	No	
32	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No	No	No	No	
33	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No	No	No	
34	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	Yes, they are back now	No	Yes	No	
35	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	Yes	No	Yes	No	

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **13A - Wet Pipe Fire Extinguishing System**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	RCI Systems	Arizona Verde Fire Protection	Foothills Fire	Aero Automatic Sprinkler	Western States Fire Protection
		Jeff Little	Wade Green	Kevin Huennekens	Jerry Wear	Travis Sticka
		(480) 694-0856	(602) 278-1111	(480) 951-3434	(602) 763-4162	(6022) 727-2200
		jlittle@rcifire.com	wade@avfp.net	kevin@foothillsfire.com	jwear@aerofire.com	travis.sticka@wsfp.us
	TOTAL WORK CATEGORY PACKAGE VALUE	**$32,703**	**$44,298**	**$46,476**	**$63,014**	**DECLINED**
36	Do you have any overseas suppliers that may be impeding your supply chain?	Yes	No	Yes	No	
37						
38	Per Plans & Specifications	Yes	Yes	Yes	Yes	
39	Division 1 as it relates to this scope of work	Yes	Yes	Yes	Yes	
40	13930 - Wet Pipe Fire Extinguishing System	Yes	Yes	Yes	Yes	
41	15140 - Supports and Anchors	Yes	Yes	Yes	Yes	
42	15400 - Plumbing Fixtures and Equipment	Yes	Yes	Yes	Yes	
	Scope of Work					
	Base Bid:	$28,395	$42,600	$42,500	$64,900	
43	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 13A - Wet Pipe Fire Extinguishing System, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	Yes	Yes	Yes	
44	Check to Spec completed and submitted to McCarthy	Yes	Yes	Yes	Yes	
45	1 year warranty from Final Acceptance (Aug 2023)	Yes	Yes	Yes	Yes	
46	Material Escalation Costs	$1,135	Yes	Yes	Yes	
47	BIM Coordination	$1,690	Yes	Yes	Yes	
48	All work provided shall be manufactured, installed, and tested in accordance the latest standard of NFPA 13	Yes	Yes	Yes	Yes	
49	Correct piping material as specified in spec section 13930 section 2.2 Piping Materials	Yes	Yes	Yes	Yes	
50	Provide all necessary equipment as stated in spec section 13930 section 2.3 Equipment	Yes	Yes	Yes	Yes	
51	Include fire department connection	Yes	Yes	$2,065	Yes	
52	Piping to be painted.	WC 09D	WC 09D	WC 09D	-$3,500	
53	Connect to 6" fire protection main on the interior of building for fire riser as seen on C-1.22	Yes	Yes	Yes	Yes	
54	Furnish and install fire risers in accordance with C.O.C. standard detail FD144	Yes	Yes	Yes	$300	
55	Includes P.E. stamped fire sprinkler system shop drawings and permit costs for the City of Chandler	Yes	Yes	Yes	Yes	
56	Furnish and install fire alarm system with control panel	WC 16A	WC 16A	WC 16A	WC 16A	
57	Provide all interconnection wiring between equipment control panels and fire alarms	WC 16A	WC 16A	WC 16A	WC 16A	
58	Provide all anchors and epoxy required for the installation of the equipment	Yes	Yes	Yes	Yes	
59	Provide (5) fire alarm signs near each fire alarm bell	$1,000	$1,000	$1,000	$1,000	
60	O&M's per specification section 01730	Yes	Yes	Yes	Yes	
61	Training: per the Spec	Yes	Yes	Yes	Yes	
62	Performance testing: Per Spec	Yes	Yes	Yes	Yes	
63	Testing days/trips included:	1 Day	2 Days	Yes	Yes	
64	COVID-19 Scope Items					
65	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes	Yes	Yes	Yes	
66	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes	Yes	Yes	Yes	
67	All personnel onsite must maintain 6'0" spacing between personnel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes	Yes	Yes	Yes	

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **13A - Wet Pipe Fire Extinguishing System**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	RCI Systems	Arizona Verde Fire Protection	Foothills Fire	Aero Automatic Sprinkler	Western States Fire Protection
		Jeff Little	Wade Green	Kevin Huennekens	Jerry Wear	Travis Sticka
		(480) 694-0856	(602) 278-1111	(480) 951-3434	(602) 763-4162	(6022) 727-2200
		jlittle@rcifire.com	wade@avfp.net	kevin@foothillsfire.com	jwear@aerofire.com	travis.sticka@wsfp.us
	TOTAL WORK CATEGORY PACKAGE VALUE	**$32,703**	**$44,298**	**$46,476**	**$63,014**	**DECLINED**
68	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes	Yes	Yes	Yes	
69	All tools and equipment used must be sanitized each day.	Yes	Yes	Yes	Yes	
70	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes	Yes	Yes	Yes	
71	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	N/A	N/A	N/A	N/A	
72	Personnel are not allowed to carpool to the site or while onsite.	Yes	Yes	No	No	
73	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the appropriate testing and quarantine protocols.	Yes	Yes	Yes	Yes	
74						
75	End of Scope					
76	Bond/CDI Cost	$483	$698	$911	$314	
	TOTAL WORK CATEGORY PACKAGE VALUE	**$32,703**	**$44,298**	**$46,476**	**$63,014**	

BID PROPOSAL

Date April 7, 2021

Bid Proposal of * RCI Systems, LLC (hereinafter called "Bidder")

a ** Corporation organized and existing under the laws of the State of Arizona.

* Insert name of firm.
** Insert corporation, partnership, or individual, as applicable.

(INSERT OWNER'S ADDRESS)
TO: McCarthy Building Companies, Inc.
6225 North 24th Street, Suite 200
Phoenix, Arizona 85016

The Bidder, in compliance with your Invitation for Bids for the construction of Chandler Water Reclamation Facility Improvements having examined the Contract Documents entitled City of Chandler, Chandler WRF Improvements Project, and other related documents and being familiar with the site of the proposed work, and with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, and the progress of work to date, if any, hereby proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, perform all work, provide all services, and to construct all work in accordance with the Contract Documents set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required.

The Bidder shall attach a copy of Bidders' detailed estimate to its Bid Proposal. This estimate shall identify all quantities shown in the documents or anticipated along with corresponding labor, material and equipment pricing.

After Bid Proposals are received, tabulated, and evaluated by McCarthy, said Bidder agrees to meet with McCarthy for the purpose of determining any duplications, omissions, or mutually agreed bid adjustments. For these meetings, the Bidder agrees to provide a complete, detailed cost breakdown; a list of all sub-subcontractors proposed for use in the work; and a list of all items, materials and their manufacturers proposed for use in the work.

The Bidder, if awarded a Subcontract, agrees to commence work and to fully complete its Work in accordance with a schedule to be established in collaboration with McCarthy under the provisions of the Additional Subcontractor Conditions of the Specifications.

The Bidder acknowledges receipt of the following Addenda: 1-4.

BASE BID:

The Bidder agrees to perform all Wet Pipe Fire Extinguishing System (herein insert the title of the Work Category as it appears in the Additional Subcontractor Conditions) Work for Work Category No. 13A, as described in the Contract Documents, for the Lump Sum of Thirty-Eight Thousand One Hundred Seventy DOLLARS ($38,170.00).

BID BREAKDOWN:

Airport WRF Total Amount $38,170.00

- Aeration Basin $N/A.
- Blower Piping $9,775.00.
- Blower Ductbank $N/A.
- Filters $N/A.
- Maintenance Bldg $28,395.00.

Maintenance Bldg is Base Bid.
Blower Piping cost is the alternate for Sludge Holding

Ocotillo WRF Total Amount $N/A

- Aeration/Anoxic $N/A.
- RAS/WAS PS $N/A.
- Clarifiers 1& 2 $N/A.
- Filters $N/A..
- MCC Replacement $N/A..
- Reservoir $N/A..
- Roads/Sitework $N/A..

Performance & Payment Bond Cost *(If Applicable)* $573.00

Total Subcontract Amount $38,743.00

The name of the proposed Bonding Company is Great American Insurance Company

Bond rate 1.5 %

All applicable taxes, except sales and use taxes on materials and equipment which are affixed and made a part of the real estate of the Project, are included in the above Base Bid. Bidder agrees that this Bid Proposal shall be good and may not be withdrawn unless McCarthy does not send Bidder a Subcontract within one hundred ~~twenty (160) calendar days~~ fifty (150) calendar days after the opening date of Bid Proposals.

(Amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

ALTERNATES:

The Bidder further agrees that if any or all of the Alternates listed and described below are incorporated and accepted within sixty (60) calendar days after receipt of a Subcontract from McCarthy, the Bidder will adjust its Subcontract by the amount indicated opposite the Alternates listed below.

ALTERNATE NO. 1: Filter Disc in Basin 7 Installation:

ADD the sum of $ N/A .

ALTERNATE NO. 2: Clarifier 3 Rehabilitation

ADD the sum of $ N/A .

ALTERNATE NO. 3: Sludge Holding Tank and Blower Bldg No. 2

ADD the sum of $ N/A .

ALTERNATE NO. 4: Removal/Replacement of Diffusers in 2 Aeration Basins

ADD the sum of $ N/A .

ALTERNATE NO. 5: _____

ADD the sum of $ _____ .

CHANGE ORDER RATES: (Add separate sheet as needed)

Markup % (on rates and material): 15% .

Position: _____ Rate: _____ .

Position: _____ Rate: _____ .

Equipment: _____ Rate: _____ .

Equipment: _____ Rate: _____ .

SAFETY RECORDS

The Bidder certifies to the following Experience Modification Rates (EMR) and Incidence Rates for the three (3) most recent years:

	Year 2018	Year 2019	Year 2020
1. Compensation Experience Modification Rate:	0.66	0.69	0.69
2. Incidence Rate:			
(a) Number of hours employees worked in the year.	149,248	164,733	149,249
(b) Number of cases defined as recordable, from the OSHA Form 300 Log.	0	4	2
(c) Total Recordable Incidence Rate = (b) x (200,000 hours) / Hours Worked (a)	0	4.85	2.67

The Bidder understands that McCarthy reserves the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

SELECT AS APPROPRIATE

☒ The Bidder has completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program; OR

☐ The Bidder has not completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program because the Bidder has provided the Form and all such information to McCarthy in the past 12 months for the following project:

_____ Project, which bid on: _____.

RESPONSIVE BID REQUIREMENTS:

DO NOT ENCLOSE YOUR STANDARD TERMS AND CONDITIONS

If any exceptions are taken to the requirements of this Proposal form, attach a separate sheet listing those exceptions, stating the sections and paragraphs and the specific exception.	(initials)
In submitting this proposal, the Bidder certifies that this bid is valid for 150 calendar days.	(initials)
In submitting this Proposal as described herein, we agree to complete the work in accordance with the included Preliminary Construction Sequence.	(initials)
In submitting this Proposal, the Bidder certifies that all cost for extended warranties to start on the date of Substantial Completion is included.	(initials)
In submitting this proposal as described herein, we confirm that we have received, reviewed and agree to all commercial terms stated in the McCarthy Subcontract and Purchase Order Agreement. Any exception taken to the commercial terms stated in these Agreements must be listed on a separate sheet noting the article or paragraph and the specific exception. ***Bidders attached Standard Terms and Conditions will not be acknowledged or accepted as part of any given bid.***	(initials)
In submitting this proposal as described herein, the Bidder certifies that this bid is coordinated based on a complete set of documents and that there will be no claims for change order based on the assertion that the Bidder did not have a complete set of Bidding Documents.	(initials)
In submitting this proposal, the Bidder certifies that they have included all spare parts, training, O & M Manuals, shop drawings and administration costs as associated to comply with the requirements of the specifications and as listed for their scope of work.	(initials)
A bid will be considered non-responsive if the Subcontractor Pre-Qualification Form is not completed as part of the Bid Form **(or on file at McCarthy office)**.	(initials)
The Bidder, by submitting their bid, represents that they have read and understand the scope requirements of the Bidding Documents.	(initials)
The Bidder certifies that any proposed materials in this scope of work meet or exceeds the requirements stated in the specifications unless noted otherwise within this proposal.	(initials)
The bidder certifies that the price listed in this bid is a firm Price through the final delivery of the materials proposed herein, and that no material escalation will be accepted as part of this proposal.	(initials)

Within fifteen (10) days after receipt by the Bidder from McCarthy of the Subcontract or Purchase Order, the Bidder will execute and return to McCarthy said Subcontract or Purchase Order and if notified from McCarthy that Bidder is not to be enrolled in McCarthy's Contractor Default Insurance Program, deliver to McCarthy Performance and Labor and Material Payment Bonds for the Subcontract or a Supply Contract Bond for the Purchase Order, or the difference between the amount of the bid and such larger amount for which McCarthy may subcontract with another party to perform the work covered by said bid, together with all court costs, all attorney fees and all other expense of recovery, all of which shall not exceed the Bid Security attached in the amount of 15% of the bid, will become the property of McCarthy. The bonds shall name McCarthy as Obligee.

If an Individual:

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Partnership:

Authorized Signature: _____

Name (print): _____

Email: _____

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Corporation:

Authorized Signature: Jeff Little Digitally signed by Jeff Little DN: C=US, E=jlittle@rcifire.com, O=RCI Systems, CN=Jeff Little Date: 2021.04.07 15:19:11 -07'00'

Name (print): Jeff Little

Email: jlittle@rcifire.com

Title: Project Manager

Business Address: 1220 W. Geneva Dr.

Tempe, AZ 85281

Telephone 480.894.8711

Contractor License Number: 099074

General Liability Insurance Carrier (not the agent): Underwriters and Lloyd's London

*Please attach a sample certificate of insurance and current W9 form to your bid.

Chandler WRF Improvements Project

GMP 2 Work Category Solicited Subcontractors Summary

Work Category: **13B Pre-Engineered Metal Building**

Subcontractor/Supplier Name	***Status***
Arizona Corporate Buildings	*Recommended*
Colton Constructors Inc.	*Proposed*
Image Building Systems	*Declined*
VP Buildings	*Declined*
Architectural Building Systems	*Declined*
Bunger Steel	*Declined*
Butler Manufacturing - Fleming West	*Declined*
Hayward Builders	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **13B - Prefabricated Metal Building**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Arizona Corporate Builders LLC	Colton Constructors	Image Building Systems	Fleming West	Hayward Builders
		Dave Manarin	Grant Ballard	Enrique Mendez	Aaron Wolf	Beth Williams
		602-448-6079	602-828-1764	602-490-9548	480-951-5301	480-816-3350
		dave@azcorporatebuilders.com	grantb@coltonconst.com	enrique@imagebuildingsystems.com	awolf@flemingwest.com	neth@haywardbuilders.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$564,673**	**$682,065**	**No Bid**	**No Bid**	**No Bid**
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	Yes	Yes			
2	Bid Submitted on McCarthy Bid Form	Yes	Yes			
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	Yes	Yes			
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing.	4/15/2021	1/11/2021			
5	Surety Company	Travelers	Travelers			
6	Surety AM Best Rating (Must be A- or Better)	A++	A++			
7	AM Best Financial Size X($500M to $750M) or higher	10M	15M			
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	N/A	N/A			
9	Bond/CDI Cost	1.500%	1.500%			
10	Included Insurance Requirements (Per Matrix)	Yes	Yes			
11	GL Insurance Company Name	Travelers Indemnity Company of Connecticut	Amerisure Insurance Company			
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	A++	A			
13	PRL Insurance (If required by the Front Ends)	Yes	Yes			
14	Pollution Insurance (If required by the Front Ends)	Yes	Yes			
15	Tier 1 Approved	Yes	Yes			
16	Tier 2 Approved	N/A	N/A			
17	Safety Items:	Yes	Yes			
18	OSHA Recordable Incident Rate (Current)	1.27	1.00			
19	Agrees to comply with PPE requirements including 100% glove policy	Yes	Yes			
20	Acknowledges updated ladder policy (platform ladders)	Yes	Yes			
21	Task Hazard Analysis included for all tasks	Yes	Yes			
22	Tie-off above 6' required	Yes	Yes			
23	Includes Hoisting for Sub's Own Work Scope	Yes	Yes			
24	Acknowledges Soils Report	Yes	Yes			
25	Acknowledges Addenda	Yes	Yes			
26	Hold Bid for 150 Days	Yes	Yes			
27	Pricing good for the duration of the project	N/A	N/A			
28	Sales Tax Included	No	No			
29	**COVID-19 Market Questions**					
30	How has your work program been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No	Minimal impact or delays			
31	Have you had any future work opportunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No	Large southwest airlines hangar construction project start date delayed over 1 year by owner (swa)			
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No			
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No	No			

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **13B - Prefabricated Metal Building**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Arizona Corporate Builders LLC	Colton Constructors	Image Building Systems	Fleming West	Hayward Builders
		Dave Manarin	Grant Ballard	Enrique Mendez	Aaron Wolf	Beth Williams
		602-448-6079	602-828-1764	602-490-9548	480-951-5301	480-816-3350
		dave@azcorporatebuilders.com	grantb@coltonconst.com	enrique@imagebuildingsystems.com	awolf@flemingwest.com	neth@haywardbuilders.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$564,673**	**$682,065**	**No Bid**	**No Bid**	**No Bid**
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No			
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No	No			
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	Yes - Lead Times	No			
37	Do you have any overseas suppliers that may be impeding your supply chain?	No	No			
38						
39	Per Plans & Specifications	Yes	Yes			
40	Division 1 as it relates to this scope of work	Yes	Yes			
41	03600 Grout	By WC 03A	By WC 03A			
42	05010 Anchor Bolts, Toggle Bolts and Concrete Inserts	Yes	Yes			
43	05120 Structural Steel and Framing	Yes	Yes			
44	05500 - Metal Fabrications	Yes	Only Mezzanine, Stairs, Railings ,Crane runway beams & stops included from misc. structural			
45	07620 Sheet Metal Flashing and Trim	Yes	Yes			
46	07900 - Joint Sealers	Yes	Yes			
46	08950 Translucent Wall and Roof Assemblies	Yes	Yes			
47	13300 Metal Building Systems	Yes	YES			
Scope of Work						
Base Bid:		$616,044	$576,135			
48	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 13C - Prefabricated Metal Building, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	Yes			
49	Check to Spec completed and submitted to McCarthy	Yes	Yes			
50	1 year warranty from Final Acceptance (Aug 2023)	Yes	Yes			
51	**Airport WRF - Maintenance Building**					
52	Onsite supervision: Full time superintendent/safety manager	$15,000	Yes			
53	Shop Drawings per specification requirements	Yes	Yes			
54	Design Engineer licensed in state of Arizona	Yes	Yes			
55	Perform all design work associated with the PEMB structure including the interior Mezzanine and Canopy	Yes	Yes			
56	Meet all Design requirements as called out on Structural General Notes S-1 through S-5 in the drawings. S-5 specific load information for the Pre-Engineered Metal Building governs over the S-1 loading requirements.	Yes 5PSF Collateral Load	Yes			
57	Perform work in accordance with AISC 360	Yes	Yes			
58	Perform welding in accordance with AWS D1.1/D1.1M	Yes	Yes			
59	Furnish and Install PEMB Metal Building per Arizona applicable codes and requirements including the Mezzanine and Canopy	Yes	Yes			
60	Furnish and Install complete - Metal Wall Panel System per details	Yes	Yes			
61	Furnish and Install Skylights	Yes	Yes			

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **13B - Prefabricated Metal Building**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Arizona Corporate Builders LLC	Colton Constructors	Image Building Systems	Fleming West	Hayward Builders
		Dave Manarin	Grant Ballard	Enrique Mendez	Aaron Wolf	Beth Williams
		602-448-6079	602-828-1764	602-490-9548	480-951-5301	480-816-3350
		dave@azcorporatebuilders.com	grantb@coltonconst.com	enrique@imagebuildingsystems.com	awolf@flemingwest.com	neth@haywardbuilders.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$564,673**	**$682,065**	**No Bid**	**No Bid**	**No Bid**
62	Roof System R-Value of 30 or greater per specifications	Yes	Yes			
63	Wall System R-Value of 19 or greater per specifications	Yes	Yes			
64	Bridge Crane Runway Beams and Stops	Yes	Yes			
65	Gutters and Downspouts - Splash blocks by others	Yes	Yes			
66	Furnish Stair and Railings to Mezzanine	Yes	Yes			
67	Metal Liner Panels on Exterior walls to 8' elevation	Yes	Yes			
68	Anchor Bolts and Steel templates (Furnish Only)	Yes	Yes			
69	Framed openings for all exterior doors/windows	Yes	Yes			
70	openings for HVAC Ductwork through Walls including coordination of weathertight structure per detail 6 on drawing H-3.83	Yes	Yes			
71	Provide structural and anchorage calculation sealed by a registered structural engineer in the state of Arizona	Yes but no embedment	Yes			
72	All metallic surfaces (including pipe, supports, and enclosure) shall be primed per the requirements of the 09900 - Painting	Yes all MB Components	AS/Nucor Primer included			
73	Shipping shall be FOB jobsite	Yes	Yes			
74	Unloading & storage	Yes	Yes			
75	Temporary protection & enclosure	Yes	Yes			
76	Install Door frames and seal frames	$1,610	$2,000			
77	Building Water tight testing- by Field Verified	$8,350	$8,350			
78	Escalation Costs to hold bid for 150 days	Yes	$80,000			
79	Additional costs to go with Kalwall skylights vs std. translucent panel	Yes	$5,500			
80	Additional Warranty 5 years after Substantial Completion for Defective work and 35 year warranty for High Performance Coatings includes coverage for exterior pre-finished surfaces	Yes	Yes			
81	Value Engineering Option for Campana Building Systems (CBC) by Arizona Corporate Builders (Accepted in GMP 5/4/21 comments)	-$60,055	N/A			
82	Deductive to switch from Kalwall panels called out in specs to flat style translucent roof panels (Accepted in GMP 5/4/21 comments)	-$24,621	N/A			
83	COVID-19 Scope Items					
84	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes	Yes, if still applicable			
85	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes	Yes, if still applicable			
86	All personnel onsite must maintain 6'0" spacing between personnel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes	Yes, if still applicable			
87	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes	Yes, if still applicable			
88	All tools and equipment used must be sanitized each day.	Yes	Yes, if still applicable			
89	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes	Yes, if still applicable			
90	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	No Trailer	Yes, if still applicable			
91	Personnel are not allowed to carpool to the site or while onsite.	Yes	Yes, if still applicable			

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **13B - Prefabricated Metal Building**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Arizona Corporate Builders LLC	Colton Constructors	Image Building Systems	Fleming West	Hayward Builders
		Dave Manarin	Grant Ballard	Enrique Mendez	Aaron Wolf	Beth Williams
		602-448-6079	602-828-1764	602-490-9548	480-951-5301	480-816-3350
		dave@azcorporatebuilders.com	grantb@coltonconst.com	enrique@imagebuildingsystems.com	awolf@flemingwest.com	neth@haywardbuilders.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$564,673**	**$682,065**	**No Bid**	**No Bid**	**No Bid**
92	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the appropriate testing and quarantine protocols.	Yes	Yes, if still applicable			
93						
94	End of Scope					
95	Bond/CDI Cost	$8,345	$10,080			
	TOTAL WORK CATEGORY PACKAGE VALUE	**$564,673**	**$682,065**			

ARIZONA CORPORATE BUILDERS, LLC
STEEL BUILDING SPECIALIST

1555 W. University Drive, Suite 108
Tempe, Arizona 85281
(480) 967-0969 phone
(480) 967-2050 fax
ROC NO. 212723 213134

April 13, 2021 R1 4/14/21 **ACB QUOTE # M21132**

Craig Nagel
McCarthy Construction
VIA EMAIL: cnagel@mccarthy.com.
Phone: 913-424-9630

Re: AWRF MAINTENANCE STEEL BUILDING PROPOSAL -CHANDLER-GILBERT WRF

Arizona Corporate Builders, LLC (ACB) hereby submits the following CBC (Campana Building Systems) **STEEL BUILDING SYSTEMS supply and erect proposal for the AWRF Maintenance Building located at the Chandler-Gilbert WRF.**
This proposal is based on plans prepared by Motley Design Group dated 3/1/21 and per our abstract as described below. Addendums 1 thru 4 acknowledged. Please note

STEEL BUILDING SYSTEM DESCRIPTION:

One (1) each CBC (Campana Building Consultants) rigid modular frame clear span offset ridge steel building system, 75' wide x 100' long x 23' ¼" / 24' ¾" low side eave / 25' 1 ¼" ridge height
Frame Lines 2, 3, & 4 to have one interior column per rafter frame, and Frame Lines 1,5, and 6 to have two interior columns per rafter frame
Bay spacings: 5 @ 20'
One each lean-to canopy system 8'8" wide x 75' long x 10' 6 ¾" eave height

STEEL MEZZANINE SYSTEM:

Includes columns, beams, joist decking, edge angle, stairs, and handrail for steel framed mezzanine system.

DESIGN PARAMETERS:

Base Bid equals - Option 2 Cost of $607,294 plus $8,750 for the crane beams

- IBC 2018 Building Code
- Building Occupancy Classification: Class III
- 20 PSF Live Load (Non-reducible)
- 0 PSF Ground Snow
- 108 MPH Wind Load Exposure C
- 10 PSF Collateral Load (Superimposed Dead Load)
- Mezzanine Loads: 150 PSF Live Load
- Overhead Crane Loads: 6.3 Metric Tons
- Seismic Design: Ss □0.178, S1 □0.065
- Seismic Importance Factor: 1.25
- Site Class D
- Deflections. Roof Secondary Framing L/150, Wall Secondary L/90, Primary Framing L/180, and Lateral Drift H/200 or ¾" max..
- Fabricator Inspection Program for Manufacturers of Metal Building Systems MB-107: **STEEL BUILDING SYSTEMS** is in compliance with the Manufactures of Metal Building Systems **(AC472)** requirements for accreditation and is recognized under Section 1704.2.5.1 of the 2015 or 2018 International Building Code.
- **Note:** ***To the best of our knowledge, the design criteria listed above meets the governing building code. The "Engineer of Record" is responsible for verifying the design criteria. The engineer employed by the steel building manufacturer does not serve as the "Engineer of Record". A change in the design requirements may affect the building price.***

BRACING:
Lateral Bracing will be accomplished with □-bracing in the roof and side walls.

ROOF SHEETING:
Roof panels to be through fastened 26 gauge 'R' panel lap seam roofing (36" wide x 11/4" ribs @ 12" o/c) in a a factory standard 35 year P□DF (Kynar) paint finish warranty. Roof is complete with necessary sealants, trim and fasteners.

WALL SHEETING:
Wall panels to be through fastened 26 gauge, 36" wide with 1 ¼" ribs at 12" oc. Panels to have a factory standard 35 year P□DF (Kynar) paint finish warranty with necessary sealants, trim, and fasteners.

INTERIOR WALL LINER PANEL SHEETING:
Interior wall liner panel sheeting where shown on the drawings to be 26 gauge PBR panels with a white silicone polyester color finish.

BUILDING INSULATION:
The roof is to be insulated at the time of erection with a two layer R-13 (4") and R-19 (8") (R-30 roof) blanket insulation system. The laminate on the insulation will be a minimum UL-rated WMP 10 white reinforced vinyl.

Walls to be insulated at the time of erection with R-19 (6") blanket insulation system. The laminate on the insulation will be a minimum UL-rated WMP 10 white reinforced vinyl.

ANCHOR BOLTS:
Anchor Bolts and templates to be included.. ACB to provide Anchor Bolt layout plans and details.

WARRANTIES:
1. Panel Finish Warranty 35-years.
2. 5- □ears for Workmanship

BRIDGE CRANES:
Includes column stub supports, runway beams, and end stops for 6.3 Metric Ton x 50' span x 60' long overhead cranes system..

ENGINEERING & SHOP DRAWINGS:
Includes four (4) sets of **STEEL BUILDING SYSTEMS** shop drawings, including column location plan and structural calculations sealed by an Arizona registered engineer for the steel building system. Drawings and calculations will be available digitally. Note: Foundation design is not included and is the responsibility of the engineer of record.

BUILDING OPENINGS and ACCESSORIES:

1. Includes framed openings for all doors, overhead doors, windows, louvers, and other wall penetrations that exist in the PEMB wall framing areas and that are shown on the wall elevations.
2. All overhead doors, man doors and windows throughout the buildings are to be supplied and installed by others. Three (3) each framed openings for overhead doors, Four (4) each 3'4" x 7'2" framed openings for hollow metal doors/frames, and five (5) each 3' x 5' framed openings for windows, and numerous openings for supply and return ducts openings and wall exhaust systems.
3. Twelve (12) each 3' x 12' double dome skylights with roof curbs and sub-framed openings
4. Gutters and exterior downspouts on all eaves.

PROPOSAL EXCLUSIONS:

- Textura Fees.
- Roof Curbs
- Roof Hatches.
- Bird Netting.
- Sales or use taxes of any kind.
- Sun Shades of any kind.
- Finish painting of steel.
- Jamb Wrap Trim
- Galvanizing of any structural steel.
- Grouting or dry-pack of any kind.
- Special Inspection fees of any kind.
- Cleaning of steel after delivery to jobsite.
- Misc. steel and structural steel (i.e. any steel sized on drawings, etc.).
- Perforated metal panels.
- Caulking of other materials.
- Fire caulking at firewalls.
- Dump Fees
- Professional surveyor to check layout. ACB to be provided with at least (1) leveling nut to required grade.
- Footing and foundation design.
- Flashings and trims associated with non-metal roof systems.
- Underlayment (Tyvek) of any kind.
- Wood work of any kind (blocking, substrates, etc.).
- Metal blocking or strapping required by other trades for their installations.
- Composite wall panels.
- Metal wall sheeting for conventional steel structures.
- Metal stud work of any kind.
- Any steel that is designed and sized on the bid documents. This is usually picked up by the Misc. Steel package.
- Interior roof drains for interior gutters.
- Misc. backing and blocking for other trades unless specifically called out in this proposal.
- Cleaning or extreme straightening of anchor bolts.
- Dust abatement activities (i.e. vibration pads, water trucks, etc.).
- Material mockup of any kind.
- Contractual indemnification of others by ACB.
- Prevailing wages, premium wages, Davis Bacon Act wages.
- Provisions for Factory Mutual requirements (i.e. FM-60, FM-90, etc.).
- Provisions for Buy American or Buy America Act requirements.
- Liquidated or actual damages. (this is subject to negotiation).

Anything not specifically listed above

ADDITIONAL CLARIFICATIONS:

- All primary and secondary steel provided in this proposal will be primed with a red oxide primer. Please note that primer is not intended to be a finish paint system. It is intended to protect steel in transport to the jobsite.
- The pricing of this project has assumed that all the materials will be able to ship at a continuous time-frame.
- Contractor to provide access ramps onto the slabs for safe access of forklifts.
- Common walls between buildings are open to framing by others.
- ACB is not carrying any taxes in this pricing. This can be added per request.
- The cost of restricted access is excluded. ACB shall be provided with level access for 24 feet around the full perimeter of the building and the entire floor slab for men, materials and equipment. An adequate lay-down and shake-out area shall be provided adjacent to the access area.
- ACB standard insurance coverage: Commercial General Liability $1 million each occurrence, $2 million general aggregate and $2 million products and completed operations aggregate Automobile Liability Any Auto $1 million combined single limit; Workman's Compensation Insurance Employer Liability Limits $1,000,000/1,000,000/1,000,000.
- Any separate contract agreement for this work made as a result of this proposal shall be subject to the terms of this proposal in its entirety whether or not this proposal is referenced in the contract. Changes to the inclusions, exclusions and other terms of this proposal shall be void unless agreed to in writing by ACB.
- This quote is good for 30 days, subject to factory increases. Lead times for engineering and materials vary depending upon if the building requires architect approval or if it can be fabricated immediately. Duration commitments can be made at time of order subject to factory backlog. Monthly progress billings will be invoiced by the end of each month, with payment due by the 20th of the following month. Any unpaid balances will accrue interest per Arizona state law. We have figured that payment methods and procedures will follow the Arizona Prompt Pay Law.
- This proposal is subject to reasonable contractual terms.
- No provisions have been included for protection of concrete from tire marks. Typical erection includes the use of extended reach fork-lifts, scissor lifts and man lifts within the building envelope. The rubber tires from this equipment can be expected to leave marks on the concrete. The cleaning or protection from such marks has not been included in this cost.
- (1) mobilization has been included for red iron steel erecting. Additional mobilizations can be provided at additional costs.
- No provisions are included for site specific or special safety training other than the basic OSHA training unless noted otherwise.

BASE BID PRICING: CBC (CAMPANA BUILDING CONSULTANTS) STEEL BUILDING SYSTEM:

Arizona Corporate Builders, LLC will supply and erect the above described AWRF Maintenance Building for the lump sum price of: **$500,446.00 Excluding Tax & Bond.**

Note* Proposed Price is based on order placement within 30-days of proposal date and delivery within 150 days of proposal date.

OPTION 1:

To hold pricing 150 day until contract award / building order date, the revised supplied and erected price will be **$547,239.00 Excluding Taax & Bond**

OPTION #2 PRICING FOR NUCOR STEEL BUILDING SYSTEM:

ADD $607,294.00 To supply and Install Nucor Building Systems steel building in lieu of CBC (Campana Building Consultants) steel building. Pricing to remain valid for a period of 150 days to contract award / building order date.

Nucor Lead Times:

Due to Nucor's present backlog, Nucor will not provide drawing and delivery dates until they are provided an order date for the steel building. Presently on similar projects after order placement, shop drawing dates are pushing 16-18 weeks, and deliveries are pushing out to January 2022..

Respectfully Submitted

Arizona Corporate Builders, LLC
Dave Manarin – Vice President
Office: 480-967-0969
Cell: 602-448-6079

Nagel, Craig

From: Dave Manarin <dave@azcorporatebuilders.com>
Sent: Tuesday, April 20, 2021 3:42 PM
To: Nagel, Craig
Subject: RE: Chandler Gilbert WRF AWRF Maintenance Building

Follow Up Flag: Follow up
Flag Status: Completed

For a fulltime supervisor you will need to add $15,000.00
$75/mh x 40mh = $3,000.00/wk x 5 weeks = $15,000.00
Thanks,

Dave Manarin – Vice President

ARIZONA CORPORATE BUILDERS, LLC
STEEL BUILDING SPECIALIST

1555 W. Universtiy Dr. Suite 108
Tempe, AZ 85281
Office: 480-967-0969
Cell: 602-448-6079

From: Nagel, Craig <CNagel@McCarthy.com>
Sent: Tuesday, April 20, 2021 8:39 AM
To: Dave Manarin <dave@azcorporatebuilders.com>
Subject: RE: Chandler Gilbert WRF AWRF Maintenance Building

Dave,
Yes that should be sufficient but if there are issues then I would expect the field coordinator to be onsite as needed.
If we did require a full time supervisor what would be your add to have the coordinator there full time through erection?

Craig Nagel
Sr. Estimator
McCarthy Building Companies, Inc.
7930 Santa Fe Drive, Suite 200 | Overland Park, KS 66204
Direct: 913-202-7017
Mobile: 913-424-9630
mccarthy.com
LinkedIn | Twitter | Facebook | YouTube

From: Dave Manarin <dave@azcorporatebuilders.com>
Sent: Tuesday, April 20, 2021 10:36 AM
To: Nagel, Craig <CNagel@McCarthy.com>
Subject: RE: Chandler Gilbert WRF AWRF Maintenance Building

Hi Craig,
I will have you the breakouts by later today or first thing in the morning.

Hi Craig,
Attached please find our updated insurance certs.
Concerning the crane beam the price is $8750.00 for two each 60’ runs.
Thanks,

Dave Manarin – Vice President

1555 W. Universtiy Dr. Suite 108
Tempe, AZ 85281
Office: 480-967-0969
Cell: 602-448-6079



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Nagel, Craig

From: Dave Manarin <dave@azcorporatebuilders.com>
Sent: Tuesday, April 20, 2021 5:35 PM
To: Nagel, Craig
Subject: Escalation Pricing Breakout for Nucor Building Systems

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Craig,
We included and escalation fee of $74,728.00 included in the Nucor building price for holding the price for 150 days.
Thanks,

Dave Manarin – Vice President

ARIZONA CORPORATE BUILDERS, LLC
STEEL BUILDING SPECIALIST

1555 W. Universtiy Dr. Suite 108
Tempe, AZ 85281
Office: 480-967-0969
Cell: 602-448-6079

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Nagel, Craig

From: Dave Manarin <dave@azcorporatebuilders.com>
Sent: Thursday, April 22, 2021 11:23 AM
To: Nagel, Craig
Subject: RE: Escalation Pricing Breakout for Nucor Building Systems

Follow Up Flag: Follow up
Flag Status: Completed

Hi Craig,
See pricing below to install door frames and seal door frame to steel building.

a. Install door frame $250.00/each x 4 = $1,000.00
b. Caulk Door Frame $100.00/each x 4 = $ 400.00

SUBTOTAL: $1,400.00
15% OH&P $ 210.00
TOTAL: $1,610.00 Excluding Tax & Bond

Thank you,
Dave Manarin – Vice President

ARIZONA CORPORATE BUILDERS, LLC
STEEL BUILDING SPECIALIST
1555 W. Universtiy Dr. Suite 108
Tempe, AZ 85281
Office: 480-967-0969
Cell: 602-448-6079

From: Nagel, Craig <CNagel@McCarthy.com>
Sent: Thursday, April 22, 2021 9:09 AM
To: Dave Manarin <dave@azcorporatebuilders.com>
Subject: RE: Escalation Pricing Breakout for Nucor Building Systems

Yes that is a gap! Thank you for bringing it up.

Can you pick up setting of all exterior door frames and caulking required?

Craig Nagel
Sr. Estimator
McCarthy Building Companies, Inc.
7930 Santa Fe Drive, Suite 200 | Overland Park, KS 66204
Direct: 913-202-7017
Mobile: 913-424-9630
mccarthy.com
LinkedIn | Twitter | Facebook | YouTube

From: Dave Manarin <dave@azcorporatebuilders.com>
Sent: Thursday, April 22, 2021 11:06 AM

Nagel, Craig

From: Dave Manarin <dave@azcorporatebuilders.com>
Sent: Friday, April 23, 2021 10:10 AM
To: Nagel, Craig
Subject: FW: Chandler WRF - Skylight Proposal 4/7/21
Attachments: Chandler WRF - VE Skylight Option.pdf

Hi Craig,
To change skylights to double dome acrylic from the Kalwall system originally priced, there is a savings of $5500.00
The double dome skylights do not meet the specifications.
Attached is the quote.
Thanks,

Dave Manarin – Vice President

ARIZONA CORPORATE BUILDERS, LLC
STEEL BUILDING SPECIALIST

1555 W. Universtiy Dr. Suite 108
Tempe, AZ 85281
Office: 480-967-0969
Cell: 602-448-6079

From: Curtis Ferguson <CurtisF@norconindustries.net>
Sent: Friday, April 23, 2021 8:03 AM
To: Dave Manarin <dave@azcorporatebuilders.com>
Subject: RE: Chandler WRF - Skylight Proposal 4/7/21

Here is the VE option, thanks.

Curtis Ferguson

Sales
Norcon Industries, Inc.
E: curtisf@norconindustries.net
C: (480) 343-6645

From: Dave Manarin <dave@azcorporatebuilders.com>
Sent: Tuesday, April 20, 2021 3:49 PM
To: Curtis Ferguson <CurtisF@norconindustries.net>
Subject: FW: Chandler WRF - Skylight Proposal 4/7/21

Cutis,
Can you offer any value engineering options for the Kalwall skylights you proposed on 4/7/21 for the Chandler WRF project.
How about double dome skylights ? Please price out this option if it makes sense or let me know what if any VE options you may propose.
The GC (McCarthy) need something back tomorrow.

Chandler WRF Improvements Project
GMP 2 Work Category Solicited Subcontractors Summary
Work Category: **14A - Monorail, Trolley and Bridge Cranes**

Subcontractor/Supplier Name	***Status***
Hoist Systems	*Recommended*
Ace Industries	*Declined*
Konecranes	*Declined*
Bragg	*Declined*
Goble Sampson	*Declined*
Southwest Industrial Rigging	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **14A - Monorail, Trolley and Bridge Cranes**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Hoist Systems	Ace Industries	Konecranes Inc	Bragg Investment	Goble Sampson
		Jeff Sanuik	Mike Browne	Justyn Penfold	AJ Lizotte	Dan Bertschman
		602-254-9333	602-622-2441	602-541-3379	602-233-0205	610-406-2309
		jeff@hoistsystems.com	michael.browne@aceindustries.com	justyn.penfold@konecranes.com	aj.lizotte@braggcrane.com	dbertschman@goblesampson.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$231,563**	**Declined**	**Declined**	**Declined**	**Declined**
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	Yes				
2	Bid Submitted on McCarthy Bid Form	Yes				
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	N/A				
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing.	N/A				
5	Surety Company	N/A				
6	Surety AM Best Rating (Must be A- or Better)	N/A				
7	AM Best Financial Size X($500M to $750M) or higher	N/A				
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	N/A				
9	Bond/CDI Cost	1.295%				
10	Included Insurance Requirements (Per Matrix)	Yes				
11	GL Insurance Company Name	Kinsale				
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	A				
13	PRL Insurance (If required by the Front Ends)	Yes				
14	Pollution Insurance (If required by the Front Ends)	Yes				
15	Tier 1 Approved	Yes				
16	Tier 2 Approved	N/A				
17	Safety Items:	Yes				
18	OSHA Recordable Incident Rate (Current)	1.23				
19	Agrees to comply with PPE requirements including 100% glove policy	Yes				
20	Acknowledges updated ladder policy (platform ladders)	Yes				
21	Task Hazard Analysis included for all tasks	Yes				
22	Tie-off above 6' required	Yes				
23	Includes Hoisting for Sub's Own Work Scope	Yes				
24	Acknowledges Soils Report	N/A				
25	Acknowledges Addenda	Yes				
26	Hold Bid for 150 Days	Yes				
27	Pricing good for the duration of the project	N/A				
28	Sales Tax Included	N/A				
29	**COVID-19 Market Questions**					
30	How has your work program been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No				
31	Have you had any future work opportunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No				
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No				
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No				
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No				
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No				
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No				
37	Do you have any overseas suppliers that may be impeding your supply chain?	No				
38						

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **14A - Monorail, Trolley and Bridge Cranes**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Hoist Systems	Ace Industries	Konecranes Inc	Bragg Investment	Goble Sampson
		Jeff Sanuik	Mike Browne	Justyn Penfold	AJ Lizotte	Dan Bertschman
		602-254-9333	602-622-2441	602-541-3379	602-233-0205	610-406-2309
		jeff@hoistsystems.com	michael.browne@aceindustries.com	justyn.penfold@konecranes.com	aj.lizotte@braggcrane.com	dbertschman@goblesampson.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$231,563**	**Declined**	**Declined**	**Declined**	**Declined**
39	Per Plans & Specifications	Yes				
40	Division 1 as it relates to this scope of work	Yes				
41	Spec Section 03600	Yes				
42	Spec Section 05051	Yes				
43	Spec Section 05120	Yes				
44	Spec Section 09900	Yes				
45	Spec Section13300	Yes				
46	Spec Section 14200	Yes				
47	Spec Section 14630	Yes				
48	Spec Section 16161	Yes				
49	Spec Section 16225	Yes				
Scope of Work						
Base Bid:		$157,475				
50	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 14A - Monorail, Trolley and Bridge Crane in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes				
51	Check to Spec completed and submitted to McCarthy	N/A				
52	1 year warranty from Final Acceptance (Aug 2023)	Yes				
53	Heavy Duty Bridge Drives with totally enclosed gears in oil bath	Yes				
54	Thermal Protection on all motors	Yes				
55	Bridge Crane Rails	Yes				
56	Installation of Bridge Crane System	Yes				
57	Provide monorail hoist system, consisting of a single motor drive trolley, electric hoist, control panel, and all necessary components for a complete and operational system at both AWRF and OWRF	Yes				
58	Equipment for monorails should comply with Class C Service, ANSI Specification No. MH27.1 and the Monorail Manufacturers Association	Yes				
59	Electrification of monorail systems at AWRF and OWRF	Yes- Cable Reels				
60	Beams and Installation for Monorail systems	Yes				
61	Insurance Adders - 3 years PRL	$35,294				
62	Insurance Adders - 3 years POL	$20,833				
63	125% Load Testing	Yes				
64	Flushing and Replacement of startup fluids	N/A				
65	All required panels	Yes				
66	OWRF Beam Sizing and Installation	Yes				
67	Bridge Crane to Span ~ 44'4" x 60' long	Yes				
68	Provide structural and anchorage calculation sealed by a registered structural engineer in the state of Arizona	Yes				
69	All metallic surfaces (including pipe, supports, and enclosure) shall be primed per the requirements of the 09900 - Painting	Yes				
70	Shipping shall be FOB jobsite	Yes				
71	Unloading & storage	Yes				
72	Preventative maintenance	N/A				

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **14A - Monorail, Trolley and Bridge Cranes**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Hoist Systems	Ace Industries	Konecranes Inc	Bragg Investment	Goble Sampson
		Jeff Sanuik	Mike Browne	Justyn Penfold	AJ Lizotte	Dan Bertschman
		602-254-9333	602-622-2441	602-541-3379	602-233-0205	610-406-2309
		jeff@hoistsystems.com	michael.browne@aceindustries.com	justyn.penfold@konecranes.com	aj.lizotte@braggcrane.com	dbertschman@goblesampson.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$231,563**	**Declined**	**Declined**	**Declined**	**Declined**
73	O&M's per specification section 01781	Yes				
74	Training: per the Spec	Yes				
75	Manufactures Services	Yes				
76	Performance testing: Per Spec	Yes				
77	Testing days/trips included:	Per Spec				
78	Startup days/trips included:	Per Spec				
79	Hoisting Support	$15,000				
80	COVID-19 Scope Items					
81	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	No				
82	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	No				
83	All personnel onsite must maintain 6'0" spacing between personnel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes				
84	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes				
85	All tools and equipment used must be sanitized each day.	Yes				
86	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes				
87	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	N/A				
88	Personnel are not allowed to carpool to the site or while onsite.	No				
89	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the appropriate testing and quarantine protocols.	Yes				
90						
91	End of Scope					
92	Bond/CDI Cost	$2,960				
	TOTAL WORK CATEGORY PACKAGE VALUE	**$231,563**				

BID PROPOSAL

Date 04/23/2021 (revised)

Bid Proposal of * Hoist Systems, Inc. (hereinafter called "Bidder")

a ** Corporation organized and existing under the laws of the State of

Arizona.

* Insert name of firm.
** Insert corporation, partnership, or individual, as applicable.

(INSERT OWNER'S ADDRESS)
TO: McCarthy Building Companies, Inc.
6225 North 24th Street, Suite 200
Phoenix, Arizona 85016

The Bidder, in compliance with your Invitation for Bids for the construction of Chandler Water Reclamation Facility Improvements having examined the Contract Documents entitled City of Chandler, Chandler WRF Improvements Project, and other related documents and being familiar with the site of the proposed work, and with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, and the progress of work to date, if any, hereby proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, perform all work, provide all services, and to construct all work in accordance with the Contract Documents set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required.

The Bidder shall attach a copy of Bidders' detailed estimate to its Bid Proposal. This estimate shall identify all quantities shown in the documents or anticipated along with corresponding labor, material and equipment pricing.

After Bid Proposals are received, tabulated, and evaluated by McCarthy, said Bidder agrees to meet with McCarthy for the purpose of determining any duplications, omissions, or mutually agreed bid adjustments. For these meetings, the Bidder agrees to provide a complete, detailed cost breakdown; a list of all sub-subcontractors proposed for use in the work; and a list of all items, materials and their manufacturers proposed for use in the work.

The Bidder, if awarded a Subcontract, agrees to commence work and to fully complete its Work in accordance with a schedule to be established in collaboration with McCarthy under the provisions of the Additional Subcontractor Conditions of the Specifications.

The Bidder acknowledges receipt of the following Addenda: 1, 2 , 3, 4

.

BASE BID:

The Bidder agrees to perform all Bridge Crane and Monorails (herein insert the title of the Work Category as it appears in the Additional Subcontractor Conditions) Work for Work Category No. 14200 14630, as described in the Contract Documents, for the Lump Sum of One Hundred Fifty Seven Thousand, Four Hundred Seventy Five DOLLARS ($ 157,475.00).

BID BREAKDOWN:

Airport WRF Total Amount $ 112,815.00

- Aeration Basin $.
- Blower Piping $.
- Blower Ductbank $.
- Filters $ 49,320.00 .
- Maintenance Bldg $ 63,495.00 .

Ocotillo WRF Total Amount $ 44,660.00

- Aeration/Anoxic $.
- RAS/WAS PS $.
- Clarifiers 1& 2 $.
- Filters $ 44,660.00 ..
- MCC Replacement $ ..
- Reservoir $ ..
- Roads/Sitework $ ..

Performance & Payment Bond Cost *(If Applicable)* $

Total Subcontract Amount $ 157,475.00

The name of the proposed Bonding Company is _____

Bond rate _____%

All applicable taxes, except sales and use taxes on materials and equipment which are affixed and made a part of the real estate of the Project, are included in the above Base Bid. Bidder agrees that this Bid Proposal shall be good and may not be withdrawn unless McCarthy does not send Bidder a Subcontract within one hundred ~~twenty (160) calendar days~~ fifty (150) calendar days after the opening date of Bid Proposals.

(Amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

ALTERNATES:

The Bidder further agrees that if any or all of the Alternates listed and described below are incorporated and accepted within sixty (60) calendar days after receipt of a Subcontract from McCarthy, the Bidder will adjust its Subcontract by the amount indicated opposite the Alternates listed below.

ALTERNATE NO. 1: Filter Disc in Basin 7 Installation:

ADD the sum of $_____.

ALTERNATE NO. 2: Clarifier 3 Rehabilitation

ADD the sum of $_____.

ALTERNATE NO. 3: Sludge Holding Tank and Blower Bldg No. 2

ADD the sum of $_____.

ALTERNATE NO. 4: Removal/Replacement of Diffusers in 2 Aeration Basins

ADD the sum of $_____.

ALTERNATE NO. 5:_____

ADD the sum of $_____.

CHANGE ORDER RATES: (Add separate sheet as needed)

Markup % (on rates and material): 15□.

Position: Foreman Rate: 85.00/hr.

Position: Laborer Rate: 50.00/hr.

Equipment: Rental Equipment Rate: □15□.

Equipment: _____ Rate: _____.

SAFETY RECORDS

The Bidder certifies to the following Experience Modification Rates (EMR) and Incidence Rates for the three (3) most recent years:

	Year 2018	Year 2019	Year 2020
1. Compensation Experience Modification Rate:	1.34	1.30	1.23
2. Incidence Rate:			
(a) Number of hours employees worked in the year.	7280	7280	7280
(b) Number of cases defined as recordable, from the OSHA Form 300 Log.	0	0	0
(c) Total Recordable Incidence Rate = (b) x (200,000 hours) / Hours Worked (a)	0	0	0

The Bidder understands that McCarthy reserves the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

SELECT AS APPROPRIATE

☒ The Bidder has completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program; OR

☐ The Bidder has not completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program because the Bidder has provided the Form and all such information to McCarthy in the past 12 months for the following project:

_____ Project, which bid on: _____.

RESPONSIVE BID REQUIREMENTS:

DO NOT ENCLOSE YOUR STANDARD TERMS AND CONDITIONS

If any exceptions are taken to the requirements of this Proposal form, attach a separate sheet listing those exceptions, stating the sections and paragraphs and the specific exception.	JS (initials)
In submitting this proposal, the Bidder certifies that this bid is valid for 150 calendar days.	JS (initials)
In submitting this Proposal as described herein, we agree to complete the work in accordance with the included Preliminary Construction Sequence.	JS (initials)
In submitting this Proposal, the Bidder certifies that all cost for extended warranties to start on the date of Substantial Completion is included.	JS (initials)
In submitting this proposal as described herein, we confirm that we have received, reviewed and agree to all commercial terms stated in the McCarthy Subcontract and Purchase Order Agreement. Any exception taken to the commercial terms stated in these Agreements must be listed on a separate sheet noting the article or paragraph and the specific exception. ***Bidders attached Standard Terms and Conditions will not be acknowledged or accepted as part of any given bid.***	JS (initials)
In submitting this proposal as described herein, the Bidder certifies that this bid is coordinated based on a complete set of documents and that there will be no claims for change order based on the assertion that the Bidder did not have a complete set of Bidding Documents.	JS (initials)
In submitting this proposal, the Bidder certifies that they have included all spare parts, training, O & M Manuals, shop drawings and administration costs as associated to comply with the requirements of the specifications and as listed for their scope of work.	JS (initials)
A bid will be considered non-responsive if the Subcontractor Pre-Qualification Form is not completed as part of the Bid Form **(or on file at McCarthy office)**.	JS (initials)
The Bidder, by submitting their bid, represents that they have read and understand the scope requirements of the Bidding Documents.	JS (initials)
The Bidder certifies that any proposed materials in this scope of work meet or exceeds the requirements stated in the specifications unless noted otherwise within this proposal.	JS (initials)
The bidder certifies that the price listed in this bid is a firm Price through the final delivery of the materials proposed herein, and that no material escalation will be accepted as part of this proposal.	JS (initials)

Within fifteen (10) days after receipt by the Bidder from McCarthy of the Subcontract or Purchase Order, the Bidder will execute and return to McCarthy said Subcontract or Purchase Order and if notified from McCarthy that Bidder is not to be enrolled in McCarthy's Contractor Default Insurance Program, deliver to McCarthy Performance and Labor and Material Payment Bonds for the Subcontract or a Supply Contract Bond for the Purchase Order, or the difference between the amount of the bid and such larger amount for which McCarthy may subcontract with another party to perform the work covered by said bid, together with all court costs, all attorney fees and all other expense of recovery, all of which shall not exceed the Bid Security attached in the amount of 15% of the bid, will become the property of McCarthy. The bonds shall name McCarthy as Obligee.

If an Individual:

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Partnership:

Authorized Signature: _____

Name (print): _____

Email: _____

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Corporation:

Authorized Signature: 

Name (print): Jeff Sanuik

Email: jeff@hoistsystems.com

Title: President

Business Address: 2424 S. 19th St.

Phoenix, AZ 85034

Telephone 602-254-9333

Contractor License Number: 153799

General Liability Insurance Carrier (not the agent): Kinsale Insurance Agency

*Please attach a sample certificate of insurance and current W9 form to your bid.

The attached certificate is for the McCarthy Project: 23rd Ave WWTP. For this, project, I will be ADDING the proper Waiver of Subrgation required by McCarthy.

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **15A - Process Mechanical**

GMP Date: **5/4/2021 Rev 6/21/2021**

		Recommended				
COMPANY INFORMATION		**McCarthy** **Austin Hancock** **480-536-5168** ahancock@mccarthy.com				
TOTAL WORK CATEGORY PACKAGE VALUE		**$4,263,556**				
MCCARTHY SUBCONTRACT & FRONT END TERMS						
1	Compliant with McCarthy Front Ends	Yes				
2	Bid Submitted on McCarthy Bid Form	Yes				
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	N/A				
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing. (The date on the letter provided should be within the last 30 days and the letter should include the status of their line of credit.)	N/A				
5	Surety Company	Allianz-Starr				
6	Surety AM Best Rating (Must be A- or Better)	A+				
7	AM Best Financial Size X($500M to $750M) or higher	Yes				
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	Yes				
9	Bond/CDI Cost	0.000%				
10	Included Insurance Requirements (Per Matrix)	Yes				
11	GL Insurance Company Name	Allianz-Starr				
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	A+				
13	PRL Insurance (If required by the Front Ends)	Yes				
14	Pollution Insurance (If required by the Front Ends)	Yes				
15	Tier 1 Approved	Yes				
16	Tier 2 Approved	Yes				
17	Safety Items:	Yes				
18	OSHA Recordable Incident Rate (Current)	0.39				
19	Agrees to comply with PPE requirements including 100% glove policy	Yes				
20	Acknowledges updated ladder policy (platform ladders)	Yes				
21	Task Hazard Analysis included for all tasks	Yes				
22	Tie-off above 6' required	Yes				
23	Includes Hoisting for Sub's Own Work Scope	Yes				
24	Acknowledges Soils Report	Yes				
25	Acknowledges Addenda	Yes				
26	Hold Bid for 150 Days	Yes				
27	Pricing good for the duration of the project	Yes				
28	Sales Tax Included	No				
29	**COVID-19 Market Questions**					
30	How has your work program been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No				
31	Have you had any future work opportunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No				
32	Are you suffering productivity loss that is impacting the ability to complete work on time?	No				
33	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No				
34	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No				
35	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No				

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **15A - Process Mechanical**

GMP Date: **5/4/2021 Rev 6/21/2021**

		Recommended				
	COMPANY INFORMATION	**McCarthy** **Austin Hancock** **480-536-5168** ahancock@mccarthy.com				
	TOTAL WORK CATEGORY PACKAGE VALUE	**$4,263,556**				
36	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No				
37	Do you have any overseas suppliers that may be impeding your supply chain?	No				
38						
39	Per Plans & Specifications	Yes				
40	Division 1 as it relates to this scope of work	Yes				
41	02050 - Demolitions	Yes				
42	03600 - Grout	Yes				
43	05051 - Anchor Bolts, Toggle Bolts, and Concrete Inserts	Yes				
44	09920 - Coating Systems	Yes				
45	11217 - Sample Pumps	Yes				
46	11295 - Hydraulic Valves	Yes				
47	13447 - Electric Motor Actuators	Yes				
48	15010 - Basic Mechanical Requirements	Yes				
49	15030 - Cleaning Mechanical Systems	Yes				
50	15050 - Piping Systems	Yes				
51	15052 - Exposed Piping Installation	Yes				
52	15061 - Ductile Iron Pipe	Yes				
53	15062 - Steel Pipe	Yes				
54	15064 - Copper Pipe	Yes				
55	15065 - Thermoplastic Pipe and Accessories	Yes				
56	15066 - Stainless Steel Pipe	Yes				
57	15067 - Fiberglass Reinforced Plastic Pipe and Accessories	Yes				
58	15120 - Piping Specialties and Accessories	Yes				
59	15140 - Supports and Anchors	Yes				
60	15441 - Sump Pumps	Yes				
61	16161 - Control Panels	Yes				
62	16225 - Electric Motors 250 HP or Less	Yes				
Scope of Work						
Base Bid:		$4,264,541				
63	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 15A - Process Mechanical, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes				
64	Check to Spec completed and submitted to McCarthy	Yes				
65	1 year warranty from Final Acceptance (Aug 2023)	Yes				
66	**Areas of Process Pipe Demolition:**					
67	AWRF - Aeration Basins	Yes				
68	AWRF - Blower Piping	Yes				
69	AWRF - Filters	Yes				

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **15A - Process Mechanical**

GMP Date: **5/4/2021 Rev 6/21/2021**

		Recommended				
COMPANY INFORMATION		**McCarthy** **Austin Hancock** **480-536-5168** ahancock@mccarthy.com				
TOTAL WORK CATEGORY PACKAGE VALUE		**$4,263,556**				
70	OWRF - Aeration Basins	Yes				
71	OWRF - Anoxic Basins	Yes				
72	OWRF - Clarifier Splitter Box	Yes				
73	OWRF - Clarifiers 1 & 2	Yes				
74	OWRF - Filters	Yes				
75	**Areas OF Process Pipe Installation:**					
76	AWRF - Aeration Basins	Yes				
77	AWRF - Yard/Blower Piping	Yes				
78	AWRF - Filters	Yes				
79	OWRF - Aeration Basins	Yes				
80	OWRF - Anoxic Basins	Yes				
81	OWRF - Clarifier Splitter Box	Yes				
82	OWRF - Clarifiers 1 & 2	Yes				
83	OWRF - Filters	Yes				
84	OWRF - Reservoir	Yes				
85	All exposed process mechanical piping	Yes				
86	All tie-ins to process equipment including BNG kits at tie-ion location	Yes				
87	Testing, cleaning, and disinfection	Yes				
88	Exposed piping MOPOs	Yes				
89	BIM coordination	Yes				
90	All pipe/systems above grade and on the interior of structures up to the penetration points	Yes				
91	Provide all necessary supports, hangers, and anchor bolts required for all process mechanical pipe	Yes				
92	Air piping structural supports	By WC 05A				
93	Demo of process piping as required on demo drawings	Yes				
94	All equipment for hoisting, lifting, and setting materials	Yes				
95	Coring of existing walls that process mechanical pipe will go through and provide leak free penetrations	Yes				
96	Finish painting of pipe	By WC 09E				
97	The purchase of all process mechanical materials	Yes				
98	Installation of sample pumps and sump pumps	Yes				
99	All Piping not associated with the plumbing drawings	Yes				
100	Provide structural and anchorage calculation sealed by a registered structural engineer in the state of Arizona - For Supports	Yes				
101	Provide all anchors and epoxy required for the installation of the equipment	Yes				
102	Shipping shall be FOB jobsite	Yes				
103	Unloading & storage	Yes				
104	Temporary protection & enclosure	Yes				
105	Preventative maintenance	Yes				
106	O&M's per specification section 01781	Yes				
107	Training: per the Spec	Yes				
108	Manufactures Services	Yes				
109	Performance testing: Per Spec	Yes				
110	Testing days/trips included:	Yes				

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **15A - Process Mechanical**

GMP Date: **5/4/2021 Rev 6/21/2021**

		Recommended				
	COMPANY INFORMATION	**McCarthy**				
		Austin Hancock				
		480-536-5168				
		ahancock@mccarthy.com				
	TOTAL WORK CATEGORY PACKAGE VALUE	**$4,263,556**				
111	Startup days/trips included:	Yes				
112	Cost per additional day/trip:	Yes				
113	**GMP 1 Early Demo**	-$985				
114	COVID-19 Scope Items					
115	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes				
116	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes				
117	All personnel onsite must maintain 6'0" spacing between personnel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes				
118	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes				
119	All tools and equipment used must be sanitized each day.	Yes				
120	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes				
121	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes				
122	Personnel are not allowed to carpool to the site or while onsite.	Yes				
123	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the appropriate testing and quarantine protocols.	Yes				
124						
125	End of Scope					
126	Bond/CDI Cost	$0				
	TOTAL WORK CATEGORY PACKAGE VALUE	**$4,263,556**				

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
15A – Process Mechanical								
A - Blower Piping				**158,732**		**1,224,257**		**$1,382,989**
A 20" - 42" SST from Blower Building to ABs								
30 FRP Blind Flange	2.0	EA	5,458.68	1,171		9,747		$10,917
20 316 SS 150# Slip-On Flange	4.0	EA	2,509.30	5,705		4,332		$10,037
3 316 SST Bolt 1/8" Neo Gskt Kit ~A - SERVICE	12.0	EA	12.51			150		$150
20 316 SST Bolt 1/8" Neo Gskt Kit ~A - SERVICE	23.0	EA	290.66			6,685		$6,685
30 316 SST Bolt 1/8" Neo Gskt Kit ~A - Service	17.0	EA	649.23			11,037		$11,037
30 316 SST Bolt 1/8" Neo Gskt Kit	2.0	EA	649.23			1,298		$1,298
30 316 SST Bolt 1/8" Neo Gskt Kit ~A - SERVICE	9.0	EA	649.23			5,843		$5,843
30 316 SST Bolt 1/8" Neo Gskt Kit ~A - Service	6.0	EA	649.23			3,895		$3,895
42 316 SST Bolt 1/8" Neo Gskt Kit ~A - SERVICE	11.0	EA	1,427.11			15,698		$15,698
30 Flanged Expansion Joint ~AIR SERVICE	3.0	EA	23,205.22	5,028		64,588		$69,616
42 Flanged Expansion Joint ~AIR SERVICE	3.0	EA	27,883.24	2,900		80,750		$83,650
20 Flanged Expansion Joint ~LABOR ONLY - REINSTALL	4.0	EA	706.83	2,827				$2,827
20 Flanged Expansion Joint ~AIR SERVICE	4.0	EA	15,722.03	2,827		60,061		$62,888
42 FxF SST/Rubber Exp Joint Restrai ~AIR SERVICE	2.0	EA	27,883.24	1,933		53,833		$55,766
30 SS A778 304L Pipe Sch 10S PE ~LABOR ONLY	37.0	LF	106.93	3,956				$3,956
42 SS A778 304L Pipe Sch 10S PE ~LABOR ONLY	431.0	LF	141.37	60,929				$60,929
30 SS A778 304L Pipe Sch 10S PE ~LABOR ONLY	65.0	LF	106.93	6,951				$6,951
20 SS A778 304L Pipe Sch 10S PE ~LABOR ONLY	24.0	LF	76.12	1,827				$1,827
SST Blower Piping Fabrication LS	1.0	EA	747,714.41			747,714		$747,714
A 20" - 42" SST from Blower Building to ABs - SPT								
30 SST Pipe Saddle Fixed Support	1.0	EA	1,721.91	604		1,118		$1,722
42 SST Pipe Saddle Fixed Support	11.0	EA	2,229.02	9,304		15,216		$24,519
42 SST Pipe Saddle Roller Support	10.0	EA	1,304.33	7,250		5,794		$13,043
30 SST Pipe Saddle Roller Support	14.0	EA	1,033.71	6,766		7,706		$14,472
20 SST Pipe Saddle Roller Support	4.0	EA	765.57	1,208		1,854		$3,062
30 SST Strap for Concrete Saddle	21.0	EA	679.76	3,806		10,469		$14,275
42 SST Strap for Concrete Saddle	22.0	EA	889.15	5,316		14,245		$19,561
20 SST Strap for Concrete Saddle	4.0	EA	613.30	483		1,970		$2,453
A 20" - 42" SST from Blower Building to ABs - VLV								
3 150# Flanged Ball Valve ~A - SERVICE	6.0	EA	2,999.02	573		17,421		$17,994
30 Flg General Purpose BFV w/Hand W ~A - SERVICE	3.0	EA	13,777.00	2,465		38,866		$41,331
20 Flg General Purpose BFV w/Hand W ~LABOR ONLY - REINSTALL	4.0	EA	590.23	2,361				$2,361
30 Flg General Purpose BFV w/Hand W ~A - SERVICE	2.0	EA	13,777.00	1,643		25,911		$27,554
DEMO Air Blower Piping								
20 316 SST Bolt 1/8" Neo Gskt Kit	4.0	EA	290.66			1,163		$1,163
30 316 SST Bolt 1/8" Neo Gskt Kit	1.0	EA	649.23			649		$649
30 Demo Air Piping Supports ~W/Concrete Pads	6.0	EA	120.83	725				$725
30 Demo Air Piping Supports ~Hanger	2.0	EA	120.83	242				$242
30 Demo Air Piping Supports ~W/Concrete Pads	24.0	EA	132.91	3,190				$3,190
20 Demo of Blower Piping	50.0	LF	24.17	1,208				$1,208
30 Demo of Blower Piping	430.0	LF	24.17	10,391				$10,391
20 Flanged Expansion Joint ~SALVAGE	4.0	EA	353.42	1,414				$1,414
20 Flg General Purpose BFV w/Hand W ~SALVAGE	5.0	EA	295.12	1,476				$1,476
20 FRP Blind Flange	3.0	EA	4,334.04	1,631		11,371		$13,002
30 FRP Blind Flange	1.0	EA	5,495.53	622		4,873		$5,496
A - Filters				**125,434**		**249,497**		**$374,931**
BSHY 1" CPVC from Hypo Facility to Filters - AWRF								
1 CPVC Sch 80 45 Ell	5.0	EA	31.95	137		23		$160
1 CPVC Sch 80 90 Ell	13.0	EA	30.67	355		43		$399
1 CPVC Sch 80 Coupling	35.0	EA	55.45	1,827		114		$1,941
1 CPVC Sch 80 Tee	9.0	EA	44.56	358		43		$401
1 CPVC True Union Solv Weld Ball	6.0	EA	119.23	183		533		$715
1 D-204 'SST Pipe Hanger	17.0	EA	135.17	1,056		1,242		$2,298
1 D-206 'SST Flush Mount Unistrut	10.0	EA	195.23	466		1,486		$1,952
1 Sch 80 CPVC PE Pipe	354.0	LF	7.01	1,320		1,161		$2,481
BW 2" - 3" CPVC from BW Pumps to Filt/Sewer - AWRF								
2 150# Sch 80 CPVC VS PR Flange	13.0	EA	47.64	444		175		$619
3 150# Sch 80 CPVC VS PR Flange	16.0	EA	67.75	616		468		$1,084
2 150# Sch 80 CPVC VS PR Flange	4.0	EA	47.64	137		54		$191
3 150# Sch 80 CPVC VS PR Flange	12.0	EA	67.75	462		351		$813
2 150# Sch 80 CPVC VS PR Flange	1.0	EA	47.64	34		13		$48
3 150# Sch 80 CPVC VS PR Flange	4.0	EA	67.75	154		117		$271
2 150# Sch 80 CPVC VS PR Flange	1.0	EA	47.64	34		13		$48
3 150# Sch 80 CPVC VS PR Flange	4.0	EA	67.75	154		117		$271
2 150# Sch 80 CPVC VS PR Flange	1.0	EA	47.64	34		13		$48
3 150# Sch 80 CPVC VS PR Flange	4.0	EA	67.75	154		117		$271
3 2' SST Adjustable Pipe Support	5.0	EA	1,082.66	621		4,792		$5,413
3 250# Flanged Gate Valve	10.0	EA	762.21	2,243		5,379		$7,622
1x1/2 304 SS 150# Thd Conc Reducer	10.0	EA	55.21	472		80		$552
2x1 304 SS 150# Thd Hex Bushing	10.0	EA	54.51	336		210		$545
1/2x2 304 SS Sch 40 Nipple TxT	10.0	EA	5.76	31		27		$58
1x2 304 SS Sch 40 Nipple TxT	20.0	EA	7.20	62		82		$144
2 316 SST Bolt 1/8" Neo Gskt Kit	20.0	EA	11.32			226		$226
3 316 SST Bolt 1/8" Neo Gskt Kit	40.0	EA	12.51			500		$500

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
3 4' SST Adjustable Pipe Support	15.0	EA	967.19	1,864		12,644		$14,508
3 Core & Chip Wall ~12" Wall	5.0	EA	124.54			623		$623
3 CPVC Sch 80 45 Ell	20.0	EA	80.19	1,056		548		$1,604
3 CPVC Sch 80 90 Ell	35.0	EA	78.07	1,848		884		$2,732
3 CPVC Sch 80 Coupling	40.0	EA	170.75	6,139		691		$6,830
3x2 CPVC Sch 80 Reducer Coupling	10.0	EA	96.89	522		447		$969
3x1 CPVC Sch 80 Reducing Tee	10.0	EA	127.42	783		491		$1,274
3 CPVC Sch 80 Tee	25.0	EA	111.13	1,957		821		$2,778
3 CPVC True Union Solv Weld Ball	10.0	EA	667.49	901		5,774		$6,675
2 Flanged Expansion Joint ~CPVC Backwash System	10.0	EA	755.30	1,597		5,956		$7,553
Pressure Gauge ~PI 543 - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Gauge ~PI 533 - LABOR ONLY	1.0	EA	112.77	113				$113
Pressure Gauge ~PI 443 - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Gauge ~PI 433 - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Gauge ~PI 343 - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Gauge ~PI 333 - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Gauge ~PI 243 - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Gauge ~PI 233 - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Gauge ~PI 143 - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Gauge ~PI 133 - LABOR ONLY	1.0	EA	93.20	93				$93
3 Sch 40 304 SS Pipe ~Wall Pipe with Weep Ring	10.0	EA	551.75	217		5,300		$5,517
2 Sch 80 CPVC PE Pipe	2.0	LF	12.67	10		15		$25
3 Sch 80 CPVC PE Pipe	196.0	LF	21.31	1,340		2,838		$4,177
2 Sch 80 CPVC PE Pipe	8.0	LF	12.67	40		62		$101
3 Sch 80 CPVC PE Pipe	44.0	LF	21.31	301		637		$938
2000 316SS Thd Ball Valve	10.0	EA	146.11	541		921		$1,461
BW 2" - 3" CPVC from Filters to BW Pumps - AWRF								
2 150# Sch 80 CPVC VS PR Flange	80.0	EA	47.64	2,734		1,077		$3,811
3 2' SST Adjustable Pipe Support	45.0	EA	1,082.66	5,592		43,128		$48,720
1 304 SS 150# Thd Cap	10.0	EA	39.85	329		69		$398
1x1/2 304 SS 150# Thd Conc Reducer	16.0	EA	36.90	472		118		$590
2x1 304 SS 150# Thd Hex Bushing	20.0	EA	54.51	671		419		$1,090
1 304 SS 150# Thd Tee	10.0	EA	116.30	926		237		$1,163
1/2x2 304 SS Sch 40 Nipple TxT	16.0	EA	5.76	50		42		$92
1x2 304 SS Sch 40 Nipple TxT	79.0	EA	7.20	245		323		$569
2 316 SST Bolt 1/8" Neo Gskt Kit	10.0	EA	11.32			113		$113
3 316 SST Bolt 1/8" Neo Gskt Kit	70.0	EA	12.51			876		$876
2 CPVC Sch 80 90 Ell	18.0	EA	46.34	660		174		$834
3 CPVC Sch 80 90 Ell	6.0	EA	78.07	317		152		$468
2 CPVC Sch 80 90 Ell	1.0	EA	46.34	37		10		$46
3 CPVC Sch 80 90 Ell	3.0	EA	78.07	158		76		$234
2 CPVC Sch 80 90 Ell	5.0	EA	46.34	183		48		$232
3 CPVC Sch 80 90 Ell	3.0	EA	78.07	158		76		$234
2 CPVC Sch 80 90 Ell	1.0	EA	46.34	37		10		$46
3 CPVC Sch 80 90 Ell	3.0	EA	78.07	158		76		$234
2 CPVC Sch 80 Coupling	14.0	EA	76.74	974		100		$1,074
3 CPVC Sch 80 Coupling	5.0	EA	170.75	767		86		$854
2 CPVC Sch 80 Coupling	1.0	EA	76.74	70		7		$77
3 CPVC Sch 80 Coupling	20.0	EA	170.75	3,069		346		$3,415
3x2 CPVC Sch 80 Reducer Coupling	20.0	EA	96.89	1,044		894		$1,938
3x1 CPVC Sch 80 Reducing Tee	20.0	EA	127.42	1,566		983		$2,548
3x2 CPVC Sch 80 Reducing Tee	35.0	EA	127.42	2,740		1,720		$4,460
2 CPVC Sch 80 Tee	20.0	EA	66.95	1,081		258		$1,339
3 CPVC Sch 80 Tee	18.0	EA	111.13	1,409		591		$2,000
2 CPVC Sch 80 Tee	19.0	EA	66.95	1,027		245		$1,272
3 CPVC Sch 80 Tee	1.0	EA	111.13	78		33		$111
2 CPVC Sch 80 Tee	1.0	EA	66.95	54		13		$67
3 CPVC Sch 80 Tee	14.0	EA	111.13	1,096		460		$1,556
2 CPVC Sch 80 Tee	10.0	EA	66.95	541		129		$670
3 CPVC Sch 80 Tee	2.0	EA	111.13	157		66		$222
3 CPVC True Union Solv Weld Ball	5.0	EA	667.49	450		2,887		$3,337
2 Flanged Expansion Joint ~CPVC Backwash System	10.0	EA	755.30	1,597		5,956		$7,553
2 Sch 40 304 SS Pipe ~Wall Pipe with Weep Ring	35.0	EA	465.53	544		15,750		$16,294
2 Sch 80 CPVC PE Pipe	175.0	LF	12.67	870		1,348		$2,218
3 Sch 80 CPVC PE Pipe	108.0	LF	21.31	738		1,564		$2,302
2 Sch 80 CPVC PE Pipe	120.0	LF	12.67	596		924		$1,521
3 Sch 80 CPVC PE Pipe	72.0	LF	21.31	492		1,042		$1,535
1 2000 316SS Thd Ball Valve	30.0	EA	146.11	1,622		2,762		$4,383
Vacuum Indicator ~VI 542 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Indicator ~VI 532 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Indicator ~VI 442 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Indicator ~VI 432 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Indicator ~VI 342 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Indicator ~VI 332 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Indicator ~VI 242 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Indicator ~VI 232 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Indicator ~VI 142 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Indicator ~VI 132 - LABOR ONLY	1.0	EA	93.20	93				$93

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
Vacuum Transmittor ~VT 502 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Transmittor ~VT 501 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Transmittor ~VT 402 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Transmittor ~VT 401 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Transmittor ~VT 302 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Transmittor ~VT 301 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Transmittor ~VT 202 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Transmittor ~VT 201 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Transmittor ~VT 102 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Transmittor ~VT 101 - LABOR ONLY	1.0	EA	93.20	93				$93
D 4" CPVC from Filters to Sump Pumps - AWRF								
4 150# Sch 80 CPVC VS PR Flange	25.0	EA	120.86	2,035		987		$3,022
4 316 SST Bolt 1/8" Neo Gskt Kit ~D - SERVICE	25.0	EA	20.25			506		$506
4 CPVC Sch 80 90 Ell	33.0	EA	115.70	2,317		1,501		$3,818
4 CPVC Sch 80 Coupling	15.0	EA	272.43	3,747		340		$4,086
4 CPVC Sch 80 Tee	18.0	EA	148.09	1,879		787		$2,666
4x1' 0" DI FxF Cement Lined/Primer Coat ~TF x TF Wall Pipe with Weep Ring	19.0	EA	440.01	3,046		5,314		$8,360
4 Sch 80 CPVC PE Pipe	275.0	LF	29.84	2,392		5,813		$8,205
D 4" CPVC from Filters to Sump Pumps - AWRF - VLV								
4 Mud Valve Flg Non-Rising ~15.5' Stem Guide - Refer to M-7.04 det 401	5.0	EA	3,350.09	3,728		13,022		$16,750
D 4" CPVC from Sump Pumps to BW Waste Chan - AWRF								
4 150# Sch 80 CPVC VS PR Flange	6.0	EA	120.86	488		237		$725
4 316 SST Bolt 1/8" Neo Gskt Kit ~D - SERVICE	6.0	EA	20.25			122		$122
4 Core & Chip Wall	3.0	EA	135.37			406		$406
4 CPVC Sch 80 90 Ell	12.0	EA	115.70	843		546		$1,388
4 CPVC Sch 80 Coupling	6.0	EA	272.43	1,499		136		$1,635
4 CPVC Sch 80 Tee	6.0	EA	148.09	626		262		$889
4x1' 0" DI FxF Cement Lined/Primer Coat ~TF x TF Wall Pipe with Weep Ring	3.0	EA	440.01	481		839		$1,320
4 Sch 80 CPVC PE Pipe	72.0	LF	29.84	626		1,522		$2,148
Sump Pumps ~4" Pipe Outlet - PMP-SP-3	1.0	EA	12,653.86	1,491		11,163		$12,654
Sump Pumps ~4" Pipe Outlet - PMP-SP-2	1.0	EA	12,653.86	1,491		11,163		$12,654
Sump Pumps ~4" Pipe Outlet	1.0	EA	12,653.86	1,491		11,163		$12,654
D 4" CPVC from Sump Pumps to BW Waste Chan - AWRF - SPT								
4 D-206 'SST Flush Mount Unistrut	9.0	EA	279.91	839		1,680		$2,519
D 4" CPVC from Sump Pumps to BW Waste Chan - AWRF - VLV								
4 CPVC Solvent Weld Check Valve	3.0	EA	1,690.82	419		4,653		$5,072
DEMO AWRF Filters								
8 316 SS Sch 10 BW Cap	2.0	EA	492.46	759		226		$985
30 316 SST Bolt 1/8" Neo Gskt Kit	3.0	EA	649.23			1,948		$1,948
42 316 SST Bolt 1/8" Neo Gskt Kit	1.0	EA	1,427.11			1,427		$1,427
42 Ductile Iron C110 Blind Flange	1.0	EA	5,194.92	863		4,332		$5,195
30 Ductile Iron C110 Blind Flange	3.0	EA	1,861.26	2,036		3,548		$5,584
SW 2" - 4" CPVC from Filters to BW Header - AWRF								
2 150# Sch 80 CPVC VS PR Flange	20.0	EA	47.64	683		269		$953
2 304 SS 150# Socket Weld Flange	20.0	EA	224.62	3,343		1,150		$4,492
3 316 SST Bolt 1/8" Neo Gskt Kit	20.0	EA	12.51			250		$250
2 CPVC Sch 80 90 Ell	27.0	EA	46.34	990		262		$1,251
4 CPVC Sch 80 90 Ell	34.0	EA	115.70	2,387		1,547		$3,934
2 CPVC Sch 80 90 Ell	3.0	EA	46.34	110		29		$139
4 CPVC Sch 80 90 Ell	1.0	EA	115.70	70		45		$116
4 CPVC Sch 80 Coupling	15.0	EA	272.43	3,747		340		$4,086
2 CPVC Sch 80 Coupling	15.0	EA	76.74	1,044		107		$1,151
4x2 CPVC Sch 80 Reducing Tee	10.0	EA	166.48	1,044		621		$1,665
4 CPVC Sch 80 Tee	14.0	EA	148.09	1,461		612		$2,073
2 CPVC Sch 80 Tee	6.0	EA	66.95	324		77		$402
4 CPVC Sch 80 Tee	1.0	EA	148.09	104		44		$148
2 CPVC Sch 80 Tee	9.0	EA	66.95	487		116		$603
2 Sch 40 304 SS Pipe ~Wall Pipe with Weep Ring	10.0	LF	375.88	155		3,604		$3,759
4 Sch 80 CPVC PE Pipe	68.0	LF	29.84	592		1,437		$2,029
2 Sch 80 CPVC PE Pipe	158.0	LF	12.67	785		1,217		$2,002
4 Sch 80 CPVC PE Pipe	20.0	LF	29.84	174		423		$597
2 Sch 80 CPVC PE Pipe	7.0	LF	12.67	35		54		$89
4 Sch 80 CPVC PE Pipe	182.0	LF	29.84	1,583		3,847		$5,430
SW 2" - 4" CPVC from Filters to BW Header - AWRF - SPT								
4 D-206 'SST Flush Mount Unistrut	46.0	EA	279.91	4,287		8,589		$12,876
O - Aeration / Anoxic & MCC Replacement				**197,679**		**439,600**		**$637,279**
Anoxic Basin Mud Valves								
8 316 SST Bolt 1/8" Neo Gskt Kit	8.0	EA	37.23			298		$298
8 Mud Valve Flg Non-Rising ~28.5' Stem Guide - Refer to M-7.04-Det 401	8.0	EA	5,766.69	7,953		38,180		$46,134
DEMO OWRF Aeration Basins								
3 Demo NPW Pipe Supports	234.0	EA	31.07	7,270				$7,270
2 Demo NPW Piping	37.0	LF	18.64	690				$690

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
3 Demo NPW Piping	1,553.0	LF	4.35	6,754				$6,754
6 Demo NPW Piping	201.0	LF	8.08	1,624				$1,624
8 Demo SST Pipe	200.0	LF	14.29	2,858				$2,858
DEMO OWRF Anoxic Basins								
24 Demo Ductile Iron Piping	24.0	LF	211.45	5,075				$5,075
8 Demo Mud Valve	8.0	EA	664.54	5,316				$5,316
3 Demo PVC Pipe	150.0	LF	5.44	816				$816
1/2 Demo Seal Water Assembly ~SALVAGE AND REINSTALL ASSEMBLY	5.0	EA	362.48	1,812				$1,812
20x4' 6" DI FxF Glass Lined/Primer Coat ~SALVAGE & REINSTALL	5.0	EA	1,362.92	6,815				$6,815
20x3' 0" DI FxF Glass Lined/Primer Coat ~Floor Pipe with Weep Ring	5.0	EA	2,643.30	4,011		9,205		$13,216
20 FxF Glass/Primer 90 Ell ~SALVAGE & REINSTALL	5.0	EA	1,106.46	5,532				$5,532
36 Mag Flow Meter ~DEMO - LABOR ONLY	1.0	EA	2,222.59	2,223				$2,223
IMLR 20" DIGL from Pump to Discharge Channel								
0-160# Pressure Gauge	1.0	EA	93.20	93				$93
1/2 1500 316SS Thd 3pc FP Ball Valve	1.0	EA	526.82	46		481		$527
1/2 25-75# Thd Pressure Red Valve	1.0	EA	96.31	96				$96
4.5' x 4.5' SST Panel	1.0	EA	1,432.46	621		811		$1,432
1/2 600 Swt Ball Valve	4.0	EA	64.55	102		156		$258
1/2 LF 125# Thd Brz RS Globe Valve	2.0	EA	153.21	76		231		$306
1/2 LF 250# Swt Y Strainer Tap wPlug	1.0	EA	134.37	52		83		$134
36 Mag Flow Meter ~FIT 115/FE 115 - LABOR ONLY	1.0	EA	2,285.87	2,286				$2,286
Pressure Switch	1.0	EA	167.76	168				$168
1/2 Rotometer	1.0	EA	93.20	93				$93
1 Solenoid Valve	1.0	EA	1,174.07	62		1,112		$1,174
20 SST Strap for Concrete Saddle	1.0	EA	468.83	124		345		$469
1/2 Thd Braid SS Flex Connect	2.0	EA	132.16	58		206		$264
1/2 Type L Hard Copper Tube	20.0	LF	6.99	75		65		$140
1/2 Wrot Copper 90 Ell	14.0	EA	25.84	348		14		$362
1/2 Wrot Copper Female Adapter	5.0	EA	34.94	158		16		$175
1/2 Wrot Copper Tee	3.0	EA	37.08	106		5		$111
1/2 Wrot Copper Union	4.0	EA	45.94	142		42		$184
1/2 2000 316SS Thd Ball Valve	1.0	EA	168.10	46		122		$168
1x1/2 316 SS 150# Thd Hex Bushing	1.0	EA	27.83	21		7		$28
1/2x2 316 SS Sch 40 Nipple TxT	2.0	EA	6.74	6		7		$13
20 316 SST Bolt 1/8" Neo Gskt Kit ~RAS - SERVICE	3.0	EA	290.66			872		$872
20x3' 6" DI FxF Glass Lined/Primer Coat ~1" TAP for Instrumentation	1.0	EA	3,677.46	862		2,816		$3,677
20x1' 0" DI FxF Glass Lined/Primer Coat ~Floor Pipe PE x FL with Weep Ring	1.0	EA	2,413.08	680		1,733		$2,413
20 FxF Glass/Primer 90 Ell	1.0	EA	5,956.80	759		5,198		$5,957
Pressure Gauge ~PI 006 - LABOR ONLY	1.0	EA	93.20	93				$93
NPW 4" - 6" DICM from Yard to Aeration Basins								
1 316 SS 150# Socket Weld 45 Ell	8.0	EA	116.59	820		113		$933
1 316 SS 150# Socket Weld 90 Ell	4.0	EA	115.58	410		52		$462
2 316 SS 150# Socket Weld Flange	4.0	EA	246.48	669		317		$986
2x1 316 SS 150# Thd Conc Reducer	4.0	EA	107.26	291		138		$429
1/4 316 SS 150# Thd Coupling	312.0	EA	39.82	11,631		791		$12,423
1/2x1/4 316 SS 150# Thd Hex Bushing	312.0	EA	18.99	4,846		1,079		$5,926
1/4x2 316 SS Sch 40 Nipple TxT	312.0	EA	5.38	969		711		$1,680
2 316 SST Bolt & Isolation Kit ~NPW - SERVICE	8.0	EA	54.80			438		$438
3 316 SST Bolt 1/8" Neo Gskt Kit ~NPW - SERVICE	240.0	EA	12.51			3,002		$3,002
6 316 SST Bolt 1/8" Neo Gskt Kit ~NPW - SERVICE	45.0	EA	32.47			1,461		$1,461
1/4 Aeration Basin Spray Nozzles ~Spec 15120 2.1J	312.0	EA	257.82	11,631		68,807		$80,438
4x17' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	3.0	EA	1,352.97	1,180		2,879		$4,059
4x5' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	633.60	235		398		$634
4x17' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	4.0	EA	1,352.97	1,573		3,839		$5,412
4x9' 0" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	858.34	293		566		$858
4x6' 0" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	665.62	244		422		$666
4x17' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	4.0	EA	1,352.97	1,573		3,839		$5,412
4x16' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	1,311.24	386		925		$1,311
4x8' 0" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	791.19	273		518		$791
4x9' 0" DI FxF Cement Lined/Primer Coat	5.0	EA	794.08	1,463		2,507		$3,970
4x4' 0" DI FxF Cement Lined/Primer Coat	2.0	EA	472.06	420		524		$944
4x9' 0" DI FxF Cement Lined/Primer Coat	1.0	EA	794.09	293		501		$794
4x4' 0" DI FxF Cement Lined/Primer Coat	4.0	EA	472.06	840		1,048		$1,888
6x17' 6" DI FxF Cement Lined/Primer Coat	6.0	EA	1,320.78	2,915		5,009		$7,925
6x4' 0" DI FxF Cement Lined/Primer Coat	1.0	EA	577.03	272		306		$577
6x6' 6" DI FxF Cement Lined/Primer Coat	1.0	EA	739.68	336		404		$740

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
6x17' 6" DI FxF Cement Lined/Primer Coat	3.0	EA	1,320.78	1,458		2,505		$3,962
6x7' 0" DI FxF Cement Lined/Primer Coat	1.0	EA	771.71	349		423		$772
6x8' 0" DI FxF Cement Lined/Primer Coat	1.0	EA	837.02	375		462		$837
6x10' 6" DI FxF Cement Lined/Primer Coat	1.0	EA	965.50	405		560		$966
6x2' 6" DI FxF Cement Lined/Primer Coat	2.0	EA	479.68	466		493		$959
6x2' 0" DI FxF Cement Lined/Primer Coat	1.0	EA	447.03	220		227		$447
6x7' 6" DI FxF Cement Lined/Primer Coat	1.0	EA	804.37	362		443		$804
6x11' 6" DI FxF Cement Lined/Primer Coat	1.0	EA	1,016.52	417		600		$1,017
6x1' 6" DI FxF Cement Lined/Primer Coat	1.0	EA	414.37	207		207		$414
4x17' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	13.0	EA	1,352.97	5,113		12,476		$17,589
4x5' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	2.0	EA	633.59	471		796		$1,267
4x17' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	1,352.97	393		960		$1,353
4x9' 0" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	858.34	293		566		$858
4x6' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	697.63	252		446		$698
4x17' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	8.0	EA	1,352.97	3,146		7,677		$10,824
4x16' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	2.0	EA	1,311.24	773		1,850		$2,622
4x8' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	826.31	285		542		$826
4x9' 0" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	858.34	293		566		$858
4x9' 0" DI FxF Cement Lined/Primer Coat	1.0	EA	794.09	293		501		$794
4x6' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	697.63	252		446		$698
4x8' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	826.32	285		542		$826
4x9' 0" DI FxF Cement Lined/Primer Coat	2.0	EA	794.09	585		1,003		$1,588
4x17' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	7.0	EA	1,352.97	2,753		6,718		$9,471
4x5' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	633.59	235		398		$634
4x9' 0" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	858.34	293		566		$858
4x6' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	697.63	252		446		$698
4x17' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	8.0	EA	1,352.97	3,146		7,677		$10,824
4x16' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	2.0	EA	1,311.24	773		1,850		$2,622
4x8' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	826.32	285		542		$826
4x5' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	633.59	235		398		$634
4x17' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	8.0	EA	1,352.97	3,146		7,677		$10,824
4x9' 0" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	858.34	293		566		$858
4x6' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	697.63	252		446		$698
4x17' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	4.0	EA	1,352.97	1,573		3,839		$5,412
4x8' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	826.32	285		542		$826
4x9' 0" DI FxF Cement Lined/Primer Coat	1.0	EA	794.09	293		501		$794
4x5' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	633.59	235		398		$634
4x17' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	3.0	EA	1,352.97	1,180		2,879		$4,059
4x9' 0" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	858.34	293		566		$858
4x6' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	697.63	252		446		$698
4x16' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	1,311.24	386		925		$1,311
4x17' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	3.0	EA	1,352.97	1,180		2,879		$4,059
4x8' 6" DI FxF Cement Lined/Primer Coat ~1/2" Tap every 4' 8" O.C.	1.0	EA	826.32	285		542		$826
4x9' 0" DI FxF Cement Lined/Primer Coat	1.0	EA	794.09	293		501		$794
6 FxF Cement/Primer 45 Ell	1.0	EA	273.45	175		99		$273
4 FxF Cement/Primer 45 Ell	48.0	EA	207.94	6,531		3,449		$9,981
4 FxF Cement/Primer 90 Ell	26.0	EA	216.63	3,764		1,868		$5,632
6 FxF Cement/Primer 90 Ell	5.0	EA	290.20	895		556		$1,451
4 FxF Cement/Primer 90 Ell	9.0	EA	216.63	1,303		647		$1,950
6x4 FxF Cement/Primer Conc Red	6.0	EA	217.65	846		460		$1,306
6 FxF Cement/Primer Cross	3.0	EA	567.36	1,035		668		$1,702

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
4x2 FxF Cement/Primer Red Tee	4.0	EA	274.65	696		403		$1,099
4 FxF Cement/Primer Tee	10.0	EA	332.49	2,131		1,194		$3,325
6 FxF Cement/Primer Tee	1.0	EA	427.12	264		163		$427
4 FxF Cement/Primer Tee	1.0	EA	332.49	213		119		$332
1 Hose Bib	4.0	EA	618.28	224		2,249		$2,473
1 Sch 40 316 SS Pipe	16.0	LF	23.94	149		234		$383
1 Stainless Steel Quick Disconnect	4.0	EA	235.63	124		818		$943
NPW 4" - 6" DICM from Yard to Aeration Basins - SPT								
6 D-205 '4' SST Adjustable Pipe Su	1.0	EA	1,264.01	155		1,109		$1,264
6 D-206 'SST Flush Mount Unistrut	7.0	EA	326.58	870		1,416		$2,286
4 Structural Support ~Detail 2 - S-3.09	138.0	EA	1,078.39	11,575		137,242		$148,817
NPW 3" - 6" DICM from Yard to Aeration Basins - VLV								
6 250# Flanged Gate Valve	1.0	EA	1,274.45	480		794		$1,274
3 250# Flanged Gate Valve	6.0	EA	762.21	1,346		3,227		$4,573
NPW/SHY/CAR 1" - 2.5" CPVC from Yard to IMLR Pumps								
2-1/2 150# Sch 80 CPVC VS PR Flange	2.0	EA	65.19	75		56		$130
2 150# Sch 80 CPVC VS PR Flange	4.0	EA	47.64	137		54		$191
1-1/2 150# Sch 80 CPVC VS PR Flange	4.0	EA	42.82	127		45		$171
1 150# Sch 80 CPVC VS PR Flange	4.0	EA	38.03	119		33		$152
1/2 2000 316SS Thd Ball Valve	1.0	EA	168.10	46		122		$168
1-1/2x1/2 316 SS 150# Thd Hex Bushing	1.0	EA	37.45	21		17		$37
1/2x2 316 SS Sch 40 Nipple TxT	2.0	EA	6.74	6		7		$13
1 316 SST Bolt 1/8" Neo Gskt Kit	3.0	EA	7.74			23		$23
1-1/2 316 SST Bolt 1/8" Neo Gskt Kit	3.0	EA	8.64			26		$26
2 316 SST Bolt 1/8" Neo Gskt Kit	3.0	EA	11.32			34		$34
2-1/2 316 SST Bolt 1/8" Neo Gskt Kit	3.0	EA	12.22			37		$37
2-1/2 316 SST Bolt 1/8" Neo Gskt Kit ~NPW - SERVICE	2.0	EA	12.22			24		$24
1-1/2 CPVC Sch 40 Coupling	13.0	EA	37.84	412		80		$492
1-1/2 CPVC Sch 40 Coupling	10.0	EA	37.84	317		62		$378
2 CPVC Sch 80 45 Ell	10.0	EA	47.08	367		104		$471
1 CPVC Sch 80 45 Ell	10.0	EA	31.95	273		46		$319
1-1/2 CPVC Sch 80 45 Ell	17.0	EA	42.23	560		158		$718
2 CPVC Sch 80 90 Ell	10.0	EA	46.34	367		97		$463
1 CPVC Sch 80 90 Ell	16.0	EA	30.67	437		53		$491
1-1/2 CPVC Sch 80 90 Ell	31.0	EA	40.95	1,021		249		$1,269
2 CPVC Sch 80 90 Ell	2.0	EA	46.34	73		19		$93
1-1/2 CPVC Sch 80 Cap	2.0	EA	24.22	34		15		$48
1 CPVC Sch 80 Cap	2.0	EA	21.72	30		14		$43
2 CPVC Sch 80 Cap	2.0	EA	27.11	39		16		$54
2 CPVC Sch 80 Coupling	4.0	EA	76.74	278		29		$307
1 CPVC Sch 80 Coupling	7.0	EA	55.45	365		23		$388
2 CPVC Sch 80 Coupling	12.0	EA	76.74	835		86		$921
1 CPVC Sch 80 Coupling	11.0	EA	55.45	574		36		$610
2-1/2x2 CPVC Sch 80 Reducer Coupling	2.0	EA	66.24	88		44		$132
2x1 CPVC Sch 80 Reducer Coupling	1.0	EA	55.46	36		19		$55
2x1-1/2 CPVC Sch 80 Reducer Coupling	1.0	EA	55.46	36		19		$55
2 CPVC Sch 80 Tee	6.0	EA	66.95	324		77		$402
1 CPVC Sch 80 Tee	12.0	EA	44.56	477		58		$535
1-1/2 CPVC Sch 80 Tee	14.0	EA	58.19	652		162		$815
2 CPVC Solvent Weld Check Valve	2.0	EA	322.11	96		549		$644
2 CPVC True Union Solv Weld Ball	1.0	EA	249.18	48		201		$249
1 CPVC True Union Solv Weld Ball	1.0	EA	119.23	30		89		$119
1-1/2 CPVC True Union Solv Weld Ball	2.0	EA	188.53	83		294		$377
1-1/2 D-206 'SST Flush Mount Unistrut	39.0	EA	214.98	2,423		5,961		$8,384
2 D-206 'SST Flush Mount Unistrut	19.0	EA	220.06	1,181		3,001		$4,181
1 D-206 'SST Flush Mount Unistrut	20.0	EA	195.23	932		2,973		$3,905
2-1/2 Flanged Backflow Preventer	1.0	EA	2,881.35	247		2,635		$2,881
2 Hose Bib	2.0	EA	630.71	137		1,125		$1,261
1-1/2 Hose Bib	2.0	EA	618.28	112		1,125		$1,237
Pressure Gauge	1.0	EA	93.20	93				$93
1 PVC True Union Solv Weld Ball	1.0	EA	88.02	30		58		$88
1-1/2 Sch 80 CPVC PE Pipe	26.0	LF	10.52	129		144		$274
2 Sch 80 CPVC PE Pipe	123.0	LF	12.67	611		947		$1,559
2-1/2 Sch 80 CPVC PE Pipe	3.0	LF	17.26	17		35		$52
1 Sch 80 CPVC PE Pipe	200.0	LF	7.01	746		656		$1,401
1-1/2 Sch 80 CPVC PE Pipe	370.0	LF	10.52	1,839		2,053		$3,892
2 Sch 80 CPVC PE Pipe	59.0	LF	12.67	293		454		$748
RAS 24" DIGL from Anox Basin to Clarifiers								
24 316 SST Bolt 1/8" Neo Gskt Kit ~RAS - SERVICE	2.0	EA	441.95			884		$884
24x14' 6" DI FxF Glass Lined/Primer Coat ~CONCRETE ENCASED	1.0	EA	8,490.88	1,209		7,281		$8,491
24x1' 0" DI FxF Glass Lined/Primer Coat ~TF x TF Wall Pipe with Weep Ring	1.0	EA	3,802.70	739		3,063		$3,803
24 FCA Rest CI Adpt x 125# Flg	1.0	EA	3,114.22	790		2,324		$3,114
24 FxF Glass/Primer 90 Ell	1.0	EA	7,797.61	898		6,900		$7,798
O - Clarifiers				**12,819**		**12,124**		**$24,942**
DEMO OWRF Clarifiers 1 & 2								
6 Core & Chip Wall ~24" Wall	2.0	EA	379.03			758		$758

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
30 Core & Chip Wall ~24" Wall	2.0	EA	3,032.26			6,065		$6,065
6 Demo Ductile Iron Piping	50.0	LF	67.66	3,383				$3,383
30 Demo Ductile Iron Piping	20.0	LF	338.31	6,766				$6,766
SCUM 6" DIGL from Clarifiers 1 & 2 to PS								
6 316 SST Bolt & Isolation Kit ~SCUM - SERVICE	4.0	EA	142.95			572		$572
6 316 SST Bolt 1/8" Neo Gskt Kit ~SCUM - SERVICE	10.0	EA	32.47			325		$325
6x2' 0" DI FxF Glass Lined/Primer Coat	2.0	EA	564.10	440		688		$1,128
6x4' 6" DI FxF Glass Lined/Primer Coat	2.0	EA	793.44	569		1,018		$1,587
6x1' 6" DI FxF Glass Lined/Primer Coat ~MJ x TF Wall Pipe With Weep Ring	2.0	EA	677.69	414		942		$1,355
6x2' 6" DI FxF Glass Lined/Primer Coat	2.0	EA	610.09	466		754		$1,220
6 Ductile C110 MJ DP Short Sleeve	2.0	EA	254.66	423		87		$509
6 FxF Glass/Primer 90 Ell	2.0	EA	636.86	358		916		$1,274
O - Effluent Storage Reservoir				**4,386**		**7,211**		**$11,597**
DEMO OWRF Effluent Storage Reservoir								
24 316 SST Bolt 1/8" Neo Gskt Kit	2.0	EA	441.95			884		$884
24 Demo Valve & Coupling ~Butterfly and Stem	2.0	EA	1,691.56	3,383				$3,383
24 Ductile Iron C110 Blind Flange	2.0	EA	3,665.05	1,003		6,327		$7,330
O - Filters				**99,782**		**179,770**		**$279,553**
BSHY 1" CPVC from Hypo Facility to Filters - OWRF								
1 CPVC Sch 80 45 Ell	10.0	EA	31.95	273		46		$319
1 CPVC Sch 80 90 Ell	14.0	EA	30.67	383		47		$429
1 CPVC Sch 80 Cap	4.0	EA	21.72	60		27		$87
1 CPVC Sch 80 Coupling	29.0	EA	55.45	1,514		95		$1,608
1 CPVC Sch 80 Tee	14.0	EA	44.56	557		67		$624
1 CPVC True Union Solv Weld Ball	4.0	EA	119.23	122		355		$477
1 D-204 'SST Pipe Hanger	13.0	EA	135.17	808		949		$1,757
1 Sch 80 CPVC PE Pipe	323.0	LF	7.01	1,204		1,059		$2,263
BW 2" - 3" CPVC from BW Pumps to Filt/Sewer - OWRF								
2 150# Sch 80 CPVC VS PR Flange	8.0	EA	47.64	273		108		$381
3 150# Sch 80 CPVC VS PR Flange	14.0	EA	67.75	539		409		$948
2 150# Sch 80 CPVC VS PR Flange	2.0	EA	47.64	68		27		$95
3 150# Sch 80 CPVC VS PR Flange	7.0	EA	67.75	270		205		$474
2 150# Sch 80 CPVC VS PR Flange	2.0	EA	47.64	68		27		$95
3 150# Sch 80 CPVC VS PR Flange	1.0	EA	67.75	39		29		$68
2 150# Sch 80 CPVC VS PR Flange	6.0	EA	47.64	205		81		$286
3 150# Sch 80 CPVC VS PR Flange	2.0	EA	67.75	77		58		$135
2 150# Sch 80 CPVC VS PR Flange	1.0	EA	47.64	34		13		$48
3 150# Sch 80 CPVC VS PR Flange	1.0	EA	67.75	39		29		$68
2 150# Sch 80 CPVC VS PR Flange	1.0	EA	47.64	34		13		$48
3 150# Sch 80 CPVC VS PR Flange	5.0	EA	67.75	193		146		$339
3 250# Flanged Gate Valve	10.0	EA	762.21	2,243		5,379		$7,622
1x1/2 304 SS 150# Thd Conc Reducer	10.0	EA	55.21	472		80		$552
2x1 304 SS 150# Thd Hex Bushing	10.0	EA	54.51	336		210		$545
1/2x3 316 SS Sch 40 Nipple TxT	10.0	EA	8.27	31		52		$83
1x3 316 SS Sch 40 Nipple TxT	20.0	EA	10.92	62		156		$218
2 316 SST Bolt 1/8" Neo Gskt Kit ~BWW - SERVICE	4.0	EA	11.32			45		$45
2 316 SST Bolt 1/8" Neo Gskt Kit ~BW - SERVICE	4.0	EA	11.32			45		$45
2 316 SST Bolt 1/8" Neo Gskt Kit ~BWW - SERVICE	4.0	EA	11.32			45		$45
2 316 SST Bolt 1/8" Neo Gskt Kit ~BW - SERVICE	4.0	EA	11.32			45		$45
2 316 SST Bolt 1/8" Neo Gskt Kit ~BWW - SERVICE	4.0	EA	11.32			45		$45
2 316 SST Bolt 1/8" Neo Gskt Kit ~BW - SERVICE	4.0	EA	11.32			45		$45
2 316 SST Bolt 1/8" Neo Gskt Kit ~BWW - SERVICE	4.0	EA	11.32			45		$45
2 316 SST Bolt 1/8" Neo Gskt Kit ~BW - SERVICE	4.0	EA	11.32			45		$45
2 316 SST Bolt 1/8" Neo Gskt Kit ~BWW - SERVICE	4.0	EA	11.32			45		$45
2 316 SST Bolt 1/8" Neo Gskt Kit ~BW - SERVICE	4.0	EA	11.32			45		$45
3 316 SST Bolt 1/8" Neo Gskt Kit ~BWW - SERVICE	4.0	EA	12.51			50		$50
3 316 SST Bolt 1/8" Neo Gskt Kit ~BW - SERVICE	4.0	EA	12.51			50		$50
3 316 SST Bolt 1/8" Neo Gskt Kit ~BWW - SERVICE	4.0	EA	12.51			50		$50
3 316 SST Bolt 1/8" Neo Gskt Kit ~BW - SERVICE	4.0	EA	12.51			50		$50
3 316 SST Bolt 1/8" Neo Gskt Kit ~BWW - SERVICE	4.0	EA	12.51			50		$50
3 316 SST Bolt 1/8" Neo Gskt Kit ~BW - SERVICE	4.0	EA	12.51			50		$50
3 316 SST Bolt 1/8" Neo Gskt Kit ~BWW - SERVICE	4.0	EA	12.51			50		$50
3 316 SST Bolt 1/8" Neo Gskt Kit ~BW - SERVICE	4.0	EA	12.51			50		$50
3 316 SST Bolt 1/8" Neo Gskt Kit ~BWW - SERVICE	4.0	EA	12.51			50		$50
3 316 SST Bolt 1/8" Neo Gskt Kit ~BW - SERVICE	4.0	EA	12.51			50		$50
3 4' SST Adjustable Pipe Support	20.0	EA	967.19	2,485		16,858		$19,344
3 CPVC Sch 80 45 Ell	35.0	EA	80.19	1,848		958		$2,807
3 CPVC Sch 80 90 Ell	45.0	EA	78.07	2,377		1,137		$3,513
3 CPVC Sch 80 Coupling	29.0	EA	170.75	4,451		501		$4,952
3x2 CPVC Sch 80 Reducer Coupling	10.0	EA	96.89	522		447		$969
3x2 CPVC Sch 80 Reducing Tee	10.0	EA	127.42	783		491		$1,274
3 CPVC Sch 80 Tee	35.0	EA	111.13	2,740		1,149		$3,890
3 CPVC True Union Solv Weld Ball	10.0	EA	667.49	901		5,774		$6,675
2 Flanged Expansion Joint ~CPVC BW System	10.0	EA	755.30	1,597		5,956		$7,553
Pressure Gauge ~PI 443 - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Gauge ~PI 433 - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Gauge ~PI 143 - LABOR ONLY	1.0	EA	93.20	93				$93

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
Pressure Gauge ~PI 133 - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Gauge ~PI 343 - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Gauge ~PI 333 - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Gauge ~PI 243 - LABOR ONLY	2.0	EA	93.20	186				$186
Pressure Gauge ~PI 143 - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Gauge ~PI 133 - LABOR ONLY	1.0	EA	93.20	93				$93
2 Sch 40 304 SS Pipe ~Wall Pipe with Weep Ring	1.0	EA	475.53	16		460		$476
3 Sch 40 304 SS Pipe ~Wall Pipe with Weep Ring	5.0	EA	551.75	109		2,650		$2,759
2 Sch 40 304 SS Pipe ~Wall Pipe with Weep Ring	4.0	EA	475.53	62		1,840		$1,902
3 Sch 40 304 SS Pipe ~Wall Pipe with Weep Ring	3.0	EA	551.75	65		1,590		$1,655
2 Sch 40 304 SS Pipe ~Wall Pipe with Weep Ring	3.0	EA	475.53	47		1,380		$1,427
3 Sch 40 304 SS Pipe ~Wall Pipe with Weep Ring	2.0	EA	551.75	43		1,060		$1,103
2 Sch 40 304 SS Pipe ~Wall Pipe with Weep Ring	2.0	EA	475.53	31		920		$951
2 Sch 80 CPVC PE Pipe	3.0	LF	12.67	15		23		$38
3 Sch 80 CPVC PE Pipe	160.0	LF	21.31	1,094		2,316		$3,410
2 Sch 80 CPVC PE Pipe	4.0	LF	12.67	20		31		$51
3 Sch 80 CPVC PE Pipe	50.0	LF	21.31	342		724		$1,066
2 Sch 80 CPVC PE Pipe	1.0	LF	12.67	5		8		$13
3 Sch 80 CPVC PE Pipe	25.0	LF	21.31	171		362		$533
2 Sch 80 CPVC PE Pipe	2.0	LF	12.67	10		15		$25
3 Sch 80 CPVC PE Pipe	25.0	LF	21.31	171		362		$533
1 2000 316SS Thd Ball Valve	10.0	EA	146.11	541		921		$1,461
BW 2" - 3" CPVC from Filters to BW Pumps - OWRF								
2 150# Sch 80 CPVC VS PR Flange	56.0	EA	47.64	1,914		754		$2,668
3 2' SST Adjustable Pipe Support	12.0	EA	1,082.66	1,491		11,501		$12,992
1 304 SS 150# Thd Cap	8.0	EA	39.85	263		55		$319
1x1/2 304 SS 150# Thd Conc Reducer	16.0	EA	55.21	756		128		$883
2x1 304 SS 150# Thd Hex Bushing	16.0	EA	54.51	537		335		$872
1 304 SS 150# Thd Tee	8.0	EA	116.30	741		190		$930
1/2x3 316 SS Sch 40 Nipple TxT	16.0	EA	8.27	50		83		$132
1x3 316 SS Sch 40 Nipple TxT	56.0	EA	10.92	174		437		$611
2 316 SST Bolt 1/8" Neo Gskt Kit ~BWW - SERVICE	112.0	EA	11.32			1,267		$1,267
2 CPVC Sch 80 45 Ell	9.0	EA	47.08	330		94		$424
3 CPVC Sch 80 45 Ell	12.0	EA	80.19	634		329		$962
2 CPVC Sch 80 45 Ell	3.0	EA	47.08	110		31		$141
2 CPVC Sch 80 90 Ell	21.0	EA	46.34	770		203		$973
3 CPVC Sch 80 90 Ell	16.0	EA	78.07	845		404		$1,249
2 CPVC Sch 80 90 Ell	7.0	EA	46.34	257		68		$324
2 CPVC Sch 80 Cap	8.0	EA	27.11	154		63		$217
2 CPVC Sch 80 Coupling	4.0	EA	76.74	278		29		$307
3 CPVC Sch 80 Coupling	16.0	EA	170.75	2,455		277		$2,732
2 CPVC Sch 80 Coupling	12.0	EA	76.74	835		86		$921
3x2 CPVC Sch 80 Reducer Coupling	16.0	EA	96.89	835		715		$1,550
3x2 CPVC Sch 80 Reducing Tee	16.0	EA	127.42	1,253		786		$2,039
2 CPVC Sch 80 Tee	34.0	EA	66.95	1,838		438		$2,276
3 CPVC Sch 80 Tee	7.0	EA	111.13	548		230		$778
2 CPVC Sch 80 Tee	26.0	EA	66.95	1,405		335		$1,741
3 CPVC Sch 80 Tee	9.0	EA	111.13	705		296		$1,000
2 D-307 'SST Extended Mount Unistr	24.0	EA	290.84	1,491		5,489		$6,980
2 Flanged Expansion Joint ~CPVC BW System	8.0	EA	755.30	1,277		4,765		$6,042
2 Sch 40 304 SS Pipe ~Wall Pipe with Weep Ring	48.0	EA	475.53	746		22,080		$22,826
2 Sch 80 CPVC PE Pipe	43.0	LF	12.67	214		331		$545
3 Sch 80 CPVC PE Pipe	4.0	LF	21.31	27		58		$85
2 Sch 80 CPVC PE Pipe	67.0	LF	12.67	333		516		$849
3 Sch 80 CPVC PE Pipe	62.0	LF	21.31	424		898		$1,321
2 Sch 80 CPVC PE Pipe	65.0	LF	12.67	323		501		$824
3 Sch 80 CPVC PE Pipe	22.0	LF	21.31	150		319		$469
2 Sch 80 CPVC PE Pipe	85.0	LF	12.67	423		655		$1,077
1 2000 316SS Thd Ball Valve	24.0	EA	139.11	1,297		2,041		$3,339
Vacuum Indicator ~VI 442 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Indicator ~VI 432 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Indicator ~VI 342 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Indicator ~VI 332 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Indicator ~VI 242 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Indicator ~VI 232 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Indicator ~VI 142 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Indicator ~VI 132 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Transmittor ~VT 441 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Transmittor ~VT 431 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Transmittor ~VT 341 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Transmittor ~VT 331 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Transmittor ~VT 241 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Transmittor ~VT 231 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Transmittor ~VT 141 - LABOR ONLY	1.0	EA	93.20	93				$93
Vacuum Transmittor ~VT 131 - LABOR ONLY	1.0	EA	93.20	93				$93
D 4" CPVC from Filters to Sump Pumps - OWRF								
4 150# Sch 80 CPVC VS PR Flange	22.0	EA	120.86	1,791		868		$2,659
4 316 SST Bolt 1/8" Neo Gskt Kit ~D - SERVICE	14.0	EA	20.25			284		$284

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
4 CPVC Sch 80 45 Ell	10.0	EA	107.79	702		376		$1,078
4 CPVC Sch 80 90 Ell	16.0	EA	115.70	1,123		728		$1,851
4 CPVC Sch 80 Coupling	10.0	EA	272.43	2,498		227		$2,724
4 CPVC Sch 80 Tee	10.0	EA	148.09	1,044		437		$1,481
4x1' 0" DI FxF Cement Lined/Primer Coat ~TF x TF Wall Pipe With Weep Ring	11.0	EA	440.01	1,763		3,077		$4,840
4 Sch 80 CPVC PE Pipe	121.0	LF	29.84	1,053		2,558		$3,610
D 4" CPVC from Filters to Sump Pumps - OWRF - VLV								
4 Mud Valve Flg Non-Rising ~12.5' Stem Guide - Ref to M-7.04 401	4.0	EA	3,300.28	2,982		10,219		$13,201
D 4" CPVC from Sump Pumps to Sewer - OWRF								
4 150# Sch 80 CPVC VS PR Flange	12.0	EA	120.86	977		474		$1,450
4 316 SST Bolt 1/8" Neo Gskt Kit ~D - SERVICE	12.0	EA	20.25			243		$243
4 CPVC Sch 80 45 Ell	6.0	EA	107.79	421		226		$647
4 CPVC Sch 80 90 Ell	10.0	EA	115.70	702		455		$1,157
4 CPVC Sch 80 Coupling	4.0	EA	272.43	999		91		$1,090
4 CPVC Sch 80 Tee	4.0	EA	148.09	418		175		$592
4x1' 0" DI FxF Cement Lined/Primer Coat ~TF x TF Wall Pipe With Weep Ring	3.0	EA	440.01	481		839		$1,320
4 Sch 80 CPVC PE Pipe	26.0	LF	29.84	226		550		$776
Sump Pumps ~4" Outlet - PMP-539-251	1.0	EA	12,653.86	1,491		11,163		$12,654
Sump Pumps ~4" Outlet - PMP-539-151	1.0	EA	12,653.86	1,491		11,163		$12,654
D 4" CPVC from Sump Pumps to Sewer - OWRF - VLV								
4 CPVC Solvent Weld Check Valve	2.0	EA	1,690.82	280		3,102		$3,382
DEMO OWRF Filters								
42 Mag Flow Meter ~DEMO - LABOR ONLY	1.0	EA	2,371.21	2,371				$2,371
Sample Pump ~RELOCATE	1.0	EA	1,449.91	1,450				$1,450
SW 2" - 4" CPVC from Filters to BW Header - OWRF								
2 150# Sch 80 CPVC VS PR Flange	8.0	EA	47.64	273		108		$381
2 304 SS 150# Socket Weld Flange	8.0	EA	224.62	1,337		460		$1,797
2 316 SST Bolt 1/8" Neo Gskt Kit ~BWW - SERVICE	8.0	EA	11.32			91		$91
4 CPVC Sch 80 90 Ell	28.0	EA	115.70	1,966		1,274		$3,240
2 CPVC Sch 80 90 Ell	20.0	EA	46.34	733		194		$927
4 CPVC Sch 80 Coupling	12.0	EA	272.43	2,997		272		$3,269
2 CPVC Sch 80 Coupling	12.0	EA	76.74	835		86		$921
4x2 CPVC Sch 80 Reducer Coupling	4.0	EA	122.91	278		213		$492
4 CPVC Sch 80 Tee	16.0	EA	148.09	1,670		699		$2,369
2 CPVC Sch 80 Tee	16.0	EA	66.95	865		206		$1,071
2 Sch 40 304 SS Pipe ~Wall Pipe with Weep Ring	4.0	LF	375.88	62		1,441		$1,504
4 Sch 80 CPVC PE Pipe	25.0	LF	29.84	217		528		$746
2 Sch 80 CPVC PE Pipe	112.0	LF	12.67	557		862		$1,419
4 Sch 80 CPVC PE Pipe	155.0	LF	29.84	1,348		3,276		$4,625
SW 2" - 4" CPVC from Filters to BW Header - OWRF - SPT								
4 D-206 'SST Flush Mount Unistrut	40.0	EA	279.91	3,728		7,468		$11,196
O - RAS/WAS Pump Station				**129,214**		**318,414**		**$447,627**
DEMO OWRF RAS/WAS Pump Station								
12 316 SST Bolt 1/8" Neo Gskt Kit	2.0	EA	86.96			174		$174
16 316 SST Bolt 1/8" Neo Gskt Kit	2.0	EA	156.05			312		$312
6 Core & Chip Wall ~18" Wall	1.0	EA	324.89			325		$325
12 Core & Chip Wall ~18" Wall	4.0	EA	649.77			2,599		$2,599
6 Demo Ductile Iron Piping	108.0	LF	32.31	3,489				$3,489
12 Demo Ductile Iron Piping	152.0	LF	34.17	5,194				$5,194
12 Demo Ductile Iron Piping ~HIGH	108.0	LF	47.84	5,167				$5,167
16 Demo Ductile Iron Piping ~HIGH	49.0	LF	93.20	4,567				$4,567
12 Demo RAS/WAS Pipe Supports ~Floor Mounted	24.0	EA	93.20	2,237				$2,237
12 Demo RAS/WAS Pipe Supports ~Hangers	12.0	EA	86.99	1,044				$1,044
16 Demo RAS/WAS Pipe Supports ~Hangers	5.0	EA	80.77	404				$404
1 Demo Seal Water Assembly	5.0	EA	173.97	870				$870
18 Demo Valve & Coupling ~Flex Coupling	1.0	EA	1,304.79	1,305				$1,305
18 Demo Valve & Coupling ~PLUG	2.0	EA	1,304.79	2,610				$2,610
18 Demo Valve & Coupling ~Flex Coupling	1.0	EA	1,304.79	1,305				$1,305
12 Ductile Iron C110 Blind Flange	2.0	EA	876.91	421		1,333		$1,754
16 Ductile Iron C110 Blind Flange	2.0	EA	1,474.32	636		2,312		$2,949
RAS 12" - 18" DIGL from RAS Pumps to IMLR Disch. Chan								
1x1/2 150# Blk Mall Conc Reducer	6.0	EA	45.55	242		31		$273
1 304 SS 150# Thd 90 Ell	25.0	EA	73.74	1,569		275		$1,843
1 304 SS 150# Thd Cap	3.0	EA	39.85	99		21		$120
2x1 304 SS 150# Thd Conc Reducer	6.0	EA	100.77	436		168		$605
2x1 304 SS 150# Thd Hex Bushing	3.0	EA	54.51	101		63		$164
1 304 SS 150# Thd Tee	19.0	EA	116.30	1,759		451		$2,210
2x3 316 SS Sch 40 Nipple TxT	1.0	EA	19.04	4		15		$19
1/2x3 316 SS Sch 40 Nipple TxT	6.0	EA	8.27	19		31		$50
1x3 316 SS Sch 40 Nipple TxT	21.0	EA	10.92	65		164		$229
2x3 316 SS Sch 40 Nipple TxT	1.0	EA	19.04	4		15		$19
1x3 316 SS Sch 40 Nipple TxT	11.0	EA	10.92	34		86		$120
2x3 316 SS Sch 40 Nipple TxT	1.0	EA	19.04	4		15		$19
1x3 316 SS Sch 40 Nipple TxT	1.0	EA	10.92	3		8		$11
12 316 SST Bolt 1/8" Neo Gskt Kit ~RAS - SERVICE	23.0	EA	86.96			2,000		$2,000

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
16 316 SST Bolt 1/8" Neo Gskt Kit ~RAS - SERVICE	24.0	EA	156.05			3,745		$3,745
18 316 SST Bolt 1/8" Neo Gskt Kit ~RAS - SERVICE	4.0	EA	232.29			929		$929
2x1 Cast Iron Hex Head Bushing	3.0	EA	39.92	84		36		$120
12x3' 0" DI FxF Glass Lined/Primer Coat ~(2) 2" tap for Inst. & ARV	1.0	EA	2,614.10	470		2,144		$2,614
12x1' 6" DI FxF Glass Lined/Primer Coat ~(2) 2" tap for Inst. & ARV	1.0	EA	2,293.75	398		1,896		$2,294
12x1' 6" DI FxF Glass Lined/Primer Coat ~FL x PE	4.0	EA	912.11	1,591		2,058		$3,648
16x2' 6" DI FxF Glass Lined/Primer Coat	1.0	EA	2,124.21	606		1,518		$2,124
12x1' 6" DI FxF Glass Lined/Primer Coat ~(2) 2" tap for Inst. & ARV	1.0	EA	2,293.75	398		1,896		$2,294
12x1' 6" DI FxF Glass Lined/Primer Coat ~FL x PE	2.0	EA	912.11	795		1,029		$1,824
16x4' 6" DI FxF Glass Lined/Primer Coat	1.0	EA	2,696.57	701		1,996		$2,697
16x5' 0" DI FxF Glass Lined/Primer Coat	2.0	EA	2,839.87	1,449		4,231		$5,680
12x9' 0" DI FxF Glass Lined/Primer Coat	1.0	EA	2,685.22	651		2,035		$2,685
12x1' 0" DI FxF Glass Lined/Primer Coat ~FL x PE	2.0	EA	795.18	727		863		$1,590
12x13' 0" DI FxF Glass Lined/Primer Coat	1.0	EA	3,468.47	772		2,697		$3,468
16x2' 6" DI FxF Glass Lined/Primer Coat	1.0	EA	2,124.21	606		1,518		$2,124
16x1' 6" DI FxF Glass Lined/Primer Coat	1.0	EA	1,835.97	555		1,281		$1,836
16x2' 6" DI FxF Glass Lined/Primer Coat	1.0	EA	2,124.21	606		1,518		$2,124
16 Ductile Iron C110 Blind Flange ~2" Tap for Flushing	2.0	EA	1,556.13	636		2,476		$3,112
16 FCA Rest CI Adpt x 125# Flg	1.0	EA	2,037.80	574		1,464		$2,038
18 Flex Coupling Rest (PE x PE)	2.0	EA	1,552.32	1,212		1,893		$3,105
12 Flex Coupling Rest (PE x PE)	4.0	EA	903.13	1,479		2,134		$3,613
12 FxF Glass/Primer 45 Ell	1.0	EA	1,714.95	395		1,320		$1,715
16 FxF Glass/Primer 45 Ell	4.0	EA	2,528.44	2,242		7,872		$10,114
16 FxF Glass/Primer 90 Ell	2.0	EA	3,092.96	1,130		5,056		$6,186
16x12 FxF Glass/Primer Conc Red	2.0	EA	2,541.35	973		4,110		$5,083
16x12 FxF Glass/Primer Red Wye	3.0	EA	6,404.80	2,179		17,035		$19,214
16 FxF Glass/Primer Tee	2.0	EA	4,670.59	1,553		7,788		$9,341
1 Liquid Flow Switch ~LABOR ONLY	1.0	EA	83.88	84				$84
12 Mag Flow Meter ~FIT 153 - LABOR ONLY	1.0	EA	972.38	972				$972
Pressure Gauge ~PI 156B - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Gauge ~PI 155B - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Gauge ~PI 154B - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Switch ~PSH 156	1.0	EA	167.76	168				$168
Pressure Switch ~PSH 155	1.0	EA	167.76	168				$168
Pressure Switch ~PSH 154	1.0	EA	167.76	168				$168
1 Sch 40 304 SS Pipe	164.0	LF	23.94	1,528		2,397		$3,925
1 2000 316SS Thd Ball Valve	6.0	EA	146.11	324		552		$877
1 304 SS 150# Thd 45 Ell	10.0	EA	72.34	621		102		$723
RAS 12" - 18" DIGL from RAS Pumps to IMLR Disch. Chan - SPT								
16 D-204 'SST Pipe Hanger	3.0	EA	729.64	466		1,723		$2,189
12 D-204 'SST Pipe Hanger	6.0	EA	404.20	746		1,680		$2,425
12 D-205 '4' SST Adjustable Pipe Su	9.0	EA	1,378.70	1,678		10,731		$12,408
16 D-205 '4' SST Adjustable Pipe Su	4.0	EA	1,975.10	994		6,906		$7,900
1 D-307 'SST Extended Mount Unistr	26.0	EA	268.20	1,212		5,762		$6,973
RAS 12" - 18" DIGL from RAS Pumps to IMLR Disch. Chan - VLV								
12 150# AWWA Flg Plug Valve w/Lever	3.0	EA	2,990.58	2,203		6,768		$8,972
18 150# AWWA Flg Plug Valve w/Lever	2.0	EA	7,418.03	2,134		12,702		$14,836
16 150# AWWA Flg Plug Valve w/Lever	3.0	EA	6,990.66	2,816		18,155		$20,972
2 Combination Air Relief/Vacuum Va ~PSH-449-156	1.0	EA	5,269.48	186		5,083		$5,269
2 Combination Air Relief/Vacuum Va ~PSH-449-155	1.0	EA	5,269.48	186		5,083		$5,269
2 Combination Air Relief/Vacuum Va ~PSH-449-154	1.0	EA	5,269.48	186		5,083		$5,269
Ball Valve for Flushing Connection	1.0	EA	597.39	56		541		$597
12 Flg Swing Check Valve	3.0	EA	5,283.19	1,240		14,610		$15,850
RAS 12" DIGL from Wet Well to RAS Pumps								
0-160# Pressure Gauge	3.0	EA	93.20	280				$280
1 1500 316SS Thd 3pc FP Ball Valve	3.0	EA	890.03	173		2,497		$2,670
1 25-75# Thd Pressure Red Valve	3.0	EA	137.31	412				$412
1x1/2 304 SS 150# Thd Conc Reducer	3.0	EA	55.21	142		24		$166
2x1 304 SS 150# Thd Hex Bushing	3.0	EA	54.51	101		63		$164
1/2x3 316 SS Sch 40 Nipple TxT	3.0	EA	8.27	9		15		$25
1x3 316 SS Sch 40 Nipple TxT	6.0	EA	10.92	19		47		$66
10 316 SST Bolt 1/8" Neo Gskt Kit ~RAS - SERVICE	3.0	EA	75.05			225		$225
12 316 SST Bolt 1/8" Neo Gskt Kit ~RAS - SERVICE	31.0	EA	86.96			2,696		$2,696
1 600 Swt Ball Valve	12.0	EA	121.52	492		966		$1,458
1 CPVC Sch 80 45 Ell	10.0	EA	31.95	273		46		$319
1 CPVC Sch 80 90 Ell	17.0	EA	30.67	465		57		$521
1 CPVC Sch 80 Coupling	26.0	EA	55.45	1,357		85		$1,442
1 CPVC Sch 80 Tee	13.0	EA	44.56	517		62		$579
1 D-204 'SST Pipe Hanger	30.0	EA	135.17	1,864		2,191		$4,055
12x2' 6" DI FxF Glass Lined/Primer Coat ~TF x FL Wall Pipe with Weep Ring	1.0	EA	1,758.62	451		1,308		$1,759
12x2' 6" DI FxF Glass Lined/Primer Coat	2.0	EA	1,411.38	902		1,921		$2,823
12x2' 0" DI FxF Glass Lined/Primer Coat ~TF x FL Wall Pipe with Weep Ring	1.0	EA	1,656.59	432		1,225		$1,657

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
12x1' 6" DI FxF Glass Lined/Primer Coat ~PE x FL	2.0	EA	912.11	795		1,029		$1,824
12x6' 0" DI FxF Glass Lined/Primer Coat ~PE x FL - 2" Tap for Inst.	1.0	EA	2,368.92	560		1,808		$2,369
12x3' 6" DI FxF Glass Lined/Primer Coat	1.0	EA	1,611.07	485		1,126		$1,611
12x2' 0" DI FxF Glass Lined/Primer Coat ~PE x FL	2.0	EA	1,029.04	864		1,194		$2,058
12x6' 0" DI FxF Glass Lined/Primer Coat ~PE x FL - 2" Tap for Inst.	1.0	EA	2,368.92	560		1,808		$2,369
12x3' 6" DI FxF Glass Lined/Primer Coat	1.0	EA	1,611.07	485		1,126		$1,611
12x2' 6" DI FxF Glass Lined/Primer Coat ~TF x FL Wall Pipe with Weep Ring	1.0	EA	1,758.62	451		1,308		$1,759
12x6' 0" DI FxF Glass Lined/Primer Coat ~PE x FL - 2" Tap for Inst.	1.0	EA	2,368.92	560		1,808		$2,369
12x3' 6" DI FxF Glass Lined/Primer Coat	1.0	EA	1,611.07	485		1,126		$1,611
12x2' 6" DI FxF Glass Lined/Primer Coat ~TF x FL Wall Pipe with Weep Ring	1.0	EA	1,758.62	451		1,308		$1,759
12x1' 6" DI FxF Glass Lined/Primer Coat	1.0	EA	1,192.42	398		795		$1,192
12 Ductile Iron C110 Blind Flange	1.0	EA	876.91	211		666		$877
12 Flex Coupling Rest (PE x PE)	3.0	EA	903.13	1,109		1,600		$2,709
12 FxF Glass/Primer 90 Ell ~Flange x Flare	4.0	EA	2,402.63	1,635		7,975		$9,611
12x10 FxF Glass/Primer Conc Red	3.0	EA	1,574.21	994		3,729		$4,723
1 LF 125# Thd Brz RS Globe Valve	6.0	EA	256.18	384		1,153		$1,537
1 LF 250# Swt Y Strainer Tap wPlug	3.0	EA	184.21	201		351		$553
Pressure Gauge ~PI 156A - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Gauge ~PI 155A - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Gauge ~PI 154A - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Switch	3.0	EA	167.76	503				$503
1 Rotometer	3.0	EA	93.20	280				$280
1 Sch 80 CPVC PE Pipe	323.0	LF	7.01	1,204		1,059		$2,263
1 Solenoid Valve	3.0	EA	1,174.07	186		3,336		$3,522
1 2000 316SS Thd Ball Valve	3.0	EA	146.11	162		276		$438
1 Thd Braid SS Flex Connect	6.0	EA	186.12	190		927		$1,117
1 Type L Hard Copper Tube	60.0	LF	12.69	298		463		$761
1 Wrot Copper 90 Ell	42.0	EA	45.23	1,644		255		$1,899
1 Wrot Copper Female Adapter	15.0	EA	61.83	755		173		$927
1 Wrot Copper Tee	9.0	EA	69.22	514		109		$623
1 Wrot Copper Union	12.0	EA	82.09	693		292		$985
RAS 12" DIGL from Wet Well to RAS Pumps - SPT								
12 D-205 '2' SST Adjustable Pipe Su	7.0	EA	1,240.25	1,305		7,377		$8,682
RAS 12" DIGL from Wet Well to RAS Pumps -VLV								
12 150# AWWA Flg Plug Valve w/Lever	4.0	EA	2,990.58	2,938		9,025		$11,962
WAS 6" DIGL from WAS Pumps to SHT								
1x1/2 150# Blk Mall Conc Reducer	4.0	EA	45.55	162		21		$182
1 304 SS 150# Thd 45 Ell	12.0	EA	72.34	746		122		$868
1 304 SS 150# Thd 90 Ell	15.0	EA	73.74	941		165		$1,106
1 304 SS 150# Thd Cap	2.0	EA	39.85	66		14		$80
2x1 304 SS 150# Thd Conc Reducer	4.0	EA	100.77	291		112		$403
2x1 304 SS 150# Thd Hex Bushing	2.0	EA	54.51	67		42		$109
1 304 SS 150# Thd Tee	15.0	EA	116.30	1,389		356		$1,745
1/2x3 316 SS Sch 40 Nipple TxT	4.0	EA	8.27	12		21		$33
1x3 316 SS Sch 40 Nipple TxT	21.0	EA	10.92	65		164		$229
2x3 316 SS Sch 40 Nipple TxT	2.0	EA	19.04	7		31		$38
1x3 316 SS Sch 40 Nipple TxT	1.0	EA	10.92	3		8		$11
6 316 SST Bolt 1/8" Neo Gskt Kit ~WAS - SERVICE	25.0	EA	32.47			812		$812
2x1 Cast Iron Hex Head Bushing	2.0	EA	39.92	56		24		$80
6x3' 6" DI FxF Glass Lined/Primer Coat ~2" Tap for Inst.	1.0	EA	1,256.57	258		998		$1,257
6x2' 6" DI FxF Glass Lined/Primer Coat	1.0	EA	610.09	233		377		$610
6x3' 6" DI FxF Glass Lined/Primer Coat ~2" Tap for Inst.	1.0	EA	1,256.57	258		998		$1,257
6x2' 6" DI FxF Glass Lined/Primer Coat	1.0	EA	610.09	233		377		$610
6x2' 0" DI FxF Glass Lined/Primer Coat ~FL x PE	2.0	EA	461.85	440		484		$924
6x1' 0" DI FxF Glass Lined/Primer Coat ~FL x PE	1.0	EA	363.31	193		170		$363
6x1' 6" DI FxF Glass Lined/Primer Coat ~FL x PE	1.0	EA	409.93	207		203		$410
6x6' 6" DI FxF Glass Lined/Primer Coat	1.0	EA	991.61	336		655		$992
6x4' 6" DI FxF Glass Lined/Primer Coat	1.0	EA	793.44	285		509		$793
6x2' 0" DI FxF Glass Lined/Primer Coat	1.0	EA	564.10	220		344		$564
6x6' 6" DI FxF Glass Lined/Primer Coat ~FL x PE	1.0	EA	889.36	336		553		$889
6x1' 0" DI FxF Glass Lined/Primer Coat ~FL x PE	1.0	EA	363.31	193		170		$363
6x5' 6" DI FxF Glass Lined/Primer Coat ~2" tap for ARV	1.0	EA	1,443.50	311		1,133		$1,443
6 Ductile Iron C110 Blind Flange	1.0	EA	286.10	86		200		$286
6 Flex Coupling Rest (PE x PE)	3.0	EA	574.27	757		966		$1,723
6 FxF Glass/Primer 45 Ell	2.0	EA	577.38	349		806		$1,155
6 FxF Glass/Primer 90 Ell	2.0	EA	636.86	358		916		$1,274
6 FxF Glass/Primer Wye	2.0	EA	1,096.84	577		1,617		$2,194
6 Mag Flow Meter ~FIT 163 - LABOR ONLY	1.0	EA	541.18	541				$541
Pressure Gauge ~PI 166B - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Gauge ~PI 165B - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Switch ~PSH 166	1.0	EA	167.76	168				$168
Pressure Switch ~PSH 165	1.0	EA	167.76	168				$168
1 Sch 40 304 SS Pipe	86.0	LF	23.94	802		1,257		$2,058

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
1 2000 316SS Thd Ball Valve	4.0	EA	146.11	216		368		$584
WAS 6" DIGL from WAS Pumps to SHT - SPT								
6 D-204 'SST Pipe Hanger	10.0	EA	290.14	1,243		1,659		$2,901
1 D-206 'SST Flush Mount Unistrut	28.0	EA	195.23	1,305		4,162		$5,467
WAS 6" DIGL from WAS Pumps to SHT - VLV								
6 150# AWWA Flg Plug Valve w/Lever	2.0	EA	1,065.51	783		1,348		$2,131
2 Combination Air Relief/Vacuum Va ~PSH-449-166	1.0	EA	4,271.66	186		4,085		$4,272
2 Combination Air Relief/Vacuum Va ~PSH-449-165	1.0	EA	4,271.66	186		4,085		$4,272
6 Flg Swing Check Valve	2.0	EA	1,595.31	460		2,731		$3,191
WAS 6" DIGL from Wet Well to WAS Pumps								
1x1/2 304 SS 150# Thd Conc Reducer	2.0	EA	55.21	94		16		$110
2x1 304 SS 150# Thd Hex Bushing	2.0	EA	54.51	67		42		$109
1/2x3 316 SS Sch 40 Nipple TxT	2.0	EA	8.27	6		10		$17
1x3 316 SS Sch 40 Nipple TxT	4.0	EA	10.92	12		31		$44
6 316 SST Bolt 1/8" Neo Gskt Kit ~WAS - SERVICE	27.0	EA	32.47			877		$877
6 Core & Chip Wall ~18" Wall	1.0	EA	324.89			325		$325
6x4' 0" DI FxF Glass Lined/Primer Coat	1.0	EA	760.79	272		489		$761
6x1' 6" DI FxF Glass Lined/Primer Coat ~TF x TF Wall Pipe with Weep Ring	1.0	EA	662.53	207		456		$663
6x1' 0" DI FxF Glass Lined/Primer Coat	2.0	EA	465.57	386		545		$931
6x3' 0" DI FxF Glass Lined/Primer Coat	1.0	EA	662.87	245		417		$663
6x15' 6" DI FxF Glass Lined/Primer Coat	1.0	EA	1,772.74	464		1,309		$1,773
6x1' 0" DI FxF Glass Lined/Primer Coat ~PE x FL	2.0	EA	363.31	386		340		$727
6x1' 6" DI FxF Glass Lined/Primer Coat	1.0	EA	498.84	207		292		$499
6x5' 6" DI FxF Glass Lined/Primer Coat	1.0	EA	892.84	311		582		$893
6x1' 6" DI FxF Glass Lined/Primer Coat	1.0	EA	498.84	207		292		$499
6x3' 6" DI FxF Glass Lined/Primer Coat	1.0	EA	705.90	258		447		$706
6x3' 0" DI FxF Glass Lined/Primer Coat	1.0	EA	662.87	245		417		$663
6x2' 6" DI FxF Glass Lined/Primer Coat ~2" Tap for Inst.	1.0	EA	1,160.76	233		928		$1,161
6x3' 0" DI FxF Glass Lined/Primer Coat ~2" Tap for Inst.	1.0	EA	1,213.54	245		968		$1,214
6 Ductile Iron C110 Blind Flange	1.0	EA	286.10	86		200		$286
6 Flex Coupling Rest (PE x PE)	1.0	EA	574.27	252		322		$574
6 FxF Glass/Primer 45 Ell	4.0	EA	577.38	698		1,611		$2,310
6 FxF Glass/Primer 90 Ell ~Flange x Flare	1.0	EA	746.52	179		568		$747
6 FxF Glass/Primer Wye	2.0	EA	1,096.84	577		1,617		$2,194
Pressure Gauge ~PI 166A - LABOR ONLY	1.0	EA	93.20	93				$93
Pressure Gauge ~PI 165A - LABOR ONLY	1.0	EA	93.20	93				$93
1 2000 316SS Thd Ball Valve	2.0	EA	146.11	108		184		$292
WAS 6" DIGL from Wet Well to WAS Pumps - SPT								
6 D-205 '2' SST Adjustable Pipe Su	8.0	EA	1,125.55	1,243		7,762		$9,004
6 SST Knee Brkt Support	5.0	EA	1,153.50	932		4,835		$5,767
WAS 6" DIGL from Wet Well to WAS Pumps - VLV								
6 150# AWWA Flg Plug Valve w/Lever	3.0	EA	1,065.51	1,174		2,022		$3,197
O - Reservoir				**16,166**		**30,626**		**$46,792**
SAMPLE 6" OWRF Reservoir								
6 316 SS 150# Socket Weld Flange	3.0	EA	674.02	1,044		978		$2,022
6 316 SS Sch 10 BW 90 Ell	1.0	EA	765.81	620		146		$766
6 316 SST Bolt 1/8" Neo Gskt Kit	21.0	EA	32.47			682		$682
6 316 SST Bolt 1/8" Neo Gskt Kit ~2.5" Anchors	1.0	EA	32.47			32		$32
6 316 SST Bolt 1/8" Neo Gskt Kit	2.0	EA	32.47			65		$65
6 D-307 'SST Extended Mount Unistr	15.0	EA	402.61	1,977		4,063		$6,039
Reservoir Sample Pump ~6" Inlet	1.0	EA	4,877.22	1,384		3,494		$4,877
6 Sch 40 316L SS Pipe	1.0	LF	274.12	38		237		$274
6 Sch 40 316L SS Pipe ~Wall Pipe with Weep Ring	1.0	LF	686.19	38		649		$686
6 Sch 40 316L SS Pipe ~3 Columns of 1/2" Holes Every 5" O.C.	21.0	LF	283.98	789		5,175		$5,964
6 Steel Pipe Wall Sleeve ~See Detail 103 pg M-7.02	8.0	EA	177.87	395		1,028		$1,423
6 VENT M-7.02 Detail 206 ~	10.0	EA	2,396.14	9,883		14,078		$23,961
O - Splitter Box Mods				**6,599**		**16,331**		**$22,929**
Clarifier Splitter Box Mud Valves								
4 316 SST Bolt 1/8" Neo Gskt Kit	3.0	EA	20.25			61		$61
6 316 SST Bolt 1/8" Neo Gskt Kit	3.0	EA	32.47			97		$97
4 Mud Valve Flg Non-Rising ~12'2" Stem Guide - Refer to det M-7.04 401	3.0	EA	3,300.28	2,237		7,664		$9,901
6 Mud Valve Flg Non-Rising ~12'2" Stem Guide - Refer to det M-7.04 401	3.0	EA	3,581.84	2,237		8,509		$10,746
DEMO OWRF Clarifier Splitter Box								
4 Demo Mud Valve	3.0	EA	335.52	1,007				$1,007
6 Demo Mud Valve	3.0	EA	372.80	1,118				$1,118
Z - General Requirements (both plants)				**335,429**	**70,452**	**277,903**		**$1,035,902**
Project/Field Supervision								
Assistant Project Manager (Dylan Hess)	12.0	WK	4,354.78	52,257				$52,257
Mech Superintendent (Jordan Woodworth)	33.0	WK	4,995.16	164,840				$164,840
Project Engineer (Patrick Hoffman)	28.0	WK	3,673.03	102,845				$102,845
General Carpentry								
BIM / VDC Services	1,497.6	HR	90.00			134,784		$134,784
Engineered Support Costs	1.0	LS	12,500.00			12,500		$12,500
Job Support Items								

Estimate Detail

Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity		Unit Price	Labor Total	Equip Total	Mat Total	Sub Total	Total
Double Wide Trailers (Ocotillo)	5.5	MO	1,441.00			7,926		$7,926
Tool Trailer	12.0	MO	151.78		1,821			$1,821
Storage Trailer	12.0	MO	151.78		1,821			$1,821
Motorola Radios	60.0	MO	75.00			4,500		$4,500
Water Distribution	14,717.3	MH	0.31	4,610				$4,610
Drinking Water/Cups	14,717.3	MH	0.18			2,649		$2,649
Personal Protective Gear	14,717.3	MH	1.25			18,397		$18,397
Temp Ladders/Stairs	16.0	EA	400.00			6,400		$6,400
Control Logistics								
Safety Equipment	1.0	LS	7,500.00			7,500		$7,500
Safety Programs	14,717.3	MH	0.29			4,268		$4,268
Drug Testing	14,717.3	MH	0.12			1,766		$1,766
Equipment Cost								
Rough Terrain Crane-65 Ton	1.0	MO	27,022.40	10,877	16,146			$27,022
Small Tools	14,717.3	MH	1.50			22,076		$22,076
Mechanical Tools	14,717.3	MH	1.50			22,076		$22,076
Forklift - Petibone 8000	5.0	MO	3,244.74		16,224			$16,224
Scissor Lift	24.0	MO	822.10		19,730			$19,730
Builders Level	16.0	MO	575.00		9,200			$9,200
Mob In and Out	1.0	LS	7,500.00			7,500		$7,500
Fuel, Oil & Parts-Equip	52,654.0	%	0.40			21,062		$21,062
Pickup Trucks Jobsite	9.0	MO	612.19		5,510			$5,510
Fuel, Oil & Parts-PU/Van/Gator	9.0	MO	500.00			4,500		$4,500
Contractor Fee @ 9%	3,912,423.4	%	0.09					$352,118
15A – Process Mechanical Total				**1,086,239**	**70,452**	**2,755,732**		**$4,264,541**

Chandler WRF Improvements Project

GMP 2 Work Category Solicited Subcontractors Summary

Work Category: **15B HVAC & Plumbing**

Subcontractor/Supplier Name	***Status***
McCarthy Building Companies	*Recommended*
Karber Corporation	*Proposed*
Pueblo Mechanical	*Proposed*
Patriot Mechanical AZ	*Declined*
Uni-Tech Mechanical	*Declined*
Comfort Systems USA Southwest	*Declined*
HACI Mechanical Contractors	*Declined*
Midstate Mechanical	*Declined*
TDIndustries	*Declined*
Tempe Mechanical	*Declined*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **15B - HVAC & Plumbing**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	McCarthy	Karber	Pueblo Mechanical	Tempe Mechanical	Midstate Mechanical
		Martin Vierra	Aaron Miller	Jason Ochap	Julia Young	Evan Jones
		(602) 903-0513	(602) 469-6541	(602) 741-5418	(480) 287-7028	(602) 470-1920
		mvierra@mccarthy.com	amiller@karbercorporation.com	jasono@pueblo-mechanical.com	jquigg@tempemechanical.net	ejones@midstatemechanical.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$737,661**	**$748,060**	**INCOMPLETE**	**DECLINED**	**DECLINED**
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	Yes	Yes	Yes		
2	Bid Submitted on McCarthy Bid Form	Yes	Yes	Yes		
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	N/A	Pending	No		
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing.	Yes	Yes	Yes		
5	Surety Company	Allianz-Starr	Great American Insurance Company	XL Specialty Insurance Company		
6	Surety AM Best Rating (Must be A- or Better)	A+	A+	A+		
7	AM Best Financial Size X($500M to $750M) or higher	Yes	Yes	Yes		
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	Yes	Yes	Yes		
9	Bond/CDI Cost	N/A	2.000%	1.550%		
10	Included Insurance Requirements (Per Matrix)	Yes	Yes	Yes		
11	GL Insurance Company Name	Travelers	Selective Insurance Company of America	Valley Forge Insurance Company		
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	A+	A	A		
13	PRL Insurance (If required by the Front Ends)	Yes	Yes	Yes		
14	Pollution Insurance (If required by the Front Ends)	Yes	Yes	Yes		
15	Tier 1 Approved	Yes	Yes	Pending		
16	Tier 2 Approved	Yes	No	No		
17	Safety Items:	Yes	Yes	Yes		
18	OSHA Recordable Incident Rate (Current)	.39	1.86	Pending		
19	Agrees to comply with PPE requirements including 100% glove policy	Yes	Yes	Yes		
20	Acknowledges updated ladder policy (platform ladders)	Yes	Yes	Yes		
21	Task Hazard Analysis included for all tasks	Yes	Yes	Yes		
22	Tie-off above 6' required	Yes	Yes	Yes		
23	Includes Hoisting for Sub's Own Work Scope	Yes	Yes	Yes		
24	Acknowledges Soils Report	N/A	N/A	N/A		
25	Acknowledges Addenda	Yes	Yes	Yes		
26	Hold Bid for 150 Days	Yes	Yes	Yes		
27	Sales Tax Included	No	No	No		
28	**COVID-19 Market Questions**					
29	How has your work program been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	The result has been a stoppage or delay of less than 5% due to the COVID-19 situation.	Minimally, 5%	No		
30	Have you had any future work opportunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	The total impact to our sales will be less than 5%.	Less than 5%	No		
31	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No	No		
32	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	No	No	No		
33	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No	No		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **15B - HVAC & Plumbing**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	McCarthy	Karber	Pueblo Mechanical	Tempe Mechanical	Midstate Mechanical
		Martin Vierra	Aaron Miller	Jason Ochap	Julia Young	Evan Jones
		(602) 903-0513	(602) 469-6541	(602) 741-5418	(480) 287-7028	(602) 470-1920
		mvierra@mccarthy.com	amiller@karbercorporation.com	jasono@pueblo-mechanical.com	jquigg@tempemechanical.net	ejones@midstatemechanical.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$737,661**	**$748,060**	**INCOMPLETE**	**DECLINED**	**DECLINED**
34	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No	No	No		
35	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	No	Yes	Yes		
36	Do you have any overseas suppliers that may be impeding your supply chain?	No	No	No		
37						
38	Per Plans & Specifications	Yes	Yes	No		
39	Division 1 as it relates to this scope of work	Yes	Yes	Yes		
40	02050 - Demolitions	Yes	Yes	No		
41	03600 - Grout	By WC 03A	By WC 03A	By WC 03A		
42	05051 - Anchor Bolts, Toggle Bolts, and Concrete Inserts	Yes	Yes	Yes		
43	099200 - Coating Systems	By WC 09D	By WC 09D	By WC 09D		
44	15120 - Piping Specialties and Accessories	Yes	Yes	No		
45	15146 - Plumbing Specialties	Yes	Yes	No		
46	15190 - Mechanical Identification	Yes	Yes	Yes		
47	15260 - Piping Insulation	Yes	Yes	No		
48	15290 - Ductwork Insulation	Yes	Yes	Yes		
49	15400 - Plumbing Fixtures and Equipment	Yes	Yes	No		
50	15410 - Plumbing Piping	Yes	Yes	No		
51	15430 - Plumbing Specialties	Yes	Yes	No		
52	15440 - Plumbing Fixtures	Yes	Yes	No		
53	15450 - Plumbing Equipment	Yes	Yes	No		
54	15680 - Evaporative Coolers	Yes	Yes	Yes		
55	15732 - Air Conditioning Units	Yes	Yes	Yes		
56	15791 - Air Conditioning Unit	Yes	Yes	Yes		
57	15831 - Centrifugal Exhaust Fans	Yes	Yes	Yes		
58	15885 - Air Cleaning	Yes	Yes	Yes		
59	15890 - Ductwork	Yes	Yes	Yes		
60	15910 - Ductwork Accessories	Yes	Yes	Yes		
61	15936 - Air Outlets and Inlets	Yes	Yes	Yes		
62	15982 - Line Voltage Thermostat	Yes	Yes	Yes		
63	15990 - Testing, Adjusting, and Balancing	Yes	Yes	Yes		
Scope of Work						
Base Bid:		$670,710	$696,816	$371,066		
64	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 15B - HVAC & Plumbing, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	Yes	No		
65	Check to Spec completed and submitted to McCarthy	Yes	Yes	Yes		
66	1 year warranty from Final Acceptance (Aug 2023)	Yes	Yes	Yes		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **15B - HVAC & Plumbing**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	McCarthy	Karber	Pueblo Mechanical	Tempe Mechanical	Midstate Mechanical
		Martin Vierra	Aaron Miller	Jason Ochap	Julia Young	Evan Jones
		(602) 903-0513	(602) 469-6541	(602) 741-5418	(480) 287-7028	(602) 470-1920
		mvierra@mccarthy.com	amiller@karbercorporation.com	jasono@pueblo-mechanical.com	jquigg@tempemechanical.net	ejones@midstatemechanical.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$737,661**	**$748,060**	**INCOMPLETE**	**DECLINED**	**DECLINED**
67	Material escalation accounted for	$61,776.00	$29,216	$65,000.00		
68	**AWRF Blower Building:**					
69	Demo of existing side mounted exhaust fans (Exclude patch back)	Yes	Yes	No		
70	Furnish and install new exhaust fans - includes saw cut of wall	Yes	$1,200	$1,200		
71	Test, adjust, and balancing	Yes	Yes	Yes		
72	**AWRF Maintenance Building:**					
73	Fabricate and install galvanized ductwork with inner liner insulation - excludes pre-primed or painted ductwork	Yes	Yes	Yes		
74	Furnish and install (2) evaporative cooler - excludes housekeeping pad	Yes	Yes	Yes		
75	Furnish and install (1) split system AC unit with pre-insulated soft rolled ACR line - excludes housekeeping pad	Yes	Yes	Yes		
76	Furnish and install (1) packaged heat pump unit - excludes housekeeping pad	Yes	Yes	Yes		
77	Furnish and install (1) ceiling mounted exhaust fans with galvanized ductwork	Yes	Yes	Yes		
78	Furnish and install (36) diffusers, grilles, and registers	Yes	Yes	Yes		
79	Furnish and install (1) louvers	Yes	Yes	Yes		
80	Stand alone thermostats	Yes	Yes	Yes		
81	Potable water to evaporative cooler and evaporative cooler drains	Yes	Yes	Yes		
82	Install smoke detectors, furnished by WC 16A	Yes	Yes	Yes		
83	Excludes fabricated structural supports	Yes	Yes	Yes		
84	Test, adjust, and balancing	Yes	Yes	Yes		
85	BIM	Yes	Yes	No		
86	Underground and above ground sanitary piping	Yes	Yes	No		
87	Underground and above ground domestic water systems	Yes	Yes	No		
88	Air compressors and associated piping	Yes	Yes	No		
89	Furnish and install (1) air compressor	Yes	Yes	No		
90	Furnish and install pressure reducing valves	Yes	Yes	No		
91	Furnish and install (1) water heater	Yes	Yes	No		
92	Furnish and install (1) circulation pump	Yes	Yes	No		
93	Furnish and install (1) expansion tank	Yes	Yes	No		
94	Furnish and install (1) sand/oil separators	Yes	Yes	No		
95	Furnish and install (1) electric drinking fountain	Yes	Yes	No		
96	Furnish and install (1) ice maker	Yes	Yes	No		
97	Furnish and install (2) lavatories	Yes	Yes	No		
98	Furnish and install (1) sink	Yes	Yes	No		
99	Furnish and install (1) mop sink	Yes	Yes	No		
100	Furnish and install (2) water closets	Yes	Yes	No		
101	Furnish and install (2) shower heads and valves	Yes	Yes	No		
102	Furnish and install (2) shower drains	Yes	Yes	No		
103	Furnish and install (4) hose bibbs	Yes	Yes	No		
104	Furnish and install (4) hose reels	Yes	$2,285	No		
105	Furnish and install compressed air couplings	Yes	Yes	No		
106	Furnish and install 28 LF of trench drain with trap guard	Yes	Yes	No		
107	Furnish and Install (3) Floor drains	Yes	Yes	No		
108	Furnish and install (3) floor sinks	Yes	Yes	No		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **15B - HVAC & Plumbing**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	McCarthy	Karber	Pueblo Mechanical	Tempe Mechanical	Midstate Mechanical
		Martin Vierra	Aaron Miller	Jason Ochap	Julia Young	Evan Jones
		(602) 903-0513	(602) 469-6541	(602) 741-5418	(480) 287-7028	(602) 470-1920
		mvierra@mccarthy.com	amiller@karbercorporation.com	jasono@pueblo-mechanical.com	jquigg@tempemechanical.net	ejones@midstatemechanical.com
	TOTAL WORK CATEGORY PACKAGE VALUE	**$737,661**	**$748,060**	**INCOMPLETE**	**DECLINED**	**DECLINED**
109	Furnish and install (11) wall cleanouts	Yes	Yes	No		
110	Furnish and install (5) surface and floor cleanouts	Yes	Yes	No		
111	Furnish and install (2) reducing back flow preventers	Yes	Yes	No		
112	Insulating hot water piping only	Yes	Yes	No		
113	Furnish and install (2) air filters	Yes	Yes	No		
114	Furnish and install (2) air regulators and pressure gauges	Yes	Yes	No		
115	Furnish and install (4) plumbing shut off valves and panels	$500	$500	$500		
116	Excludes roof drains	Yes	Yes	Yes		
117	Excludes welding booth and welding booth piping	Yes	Yes	Yes		
118	Provide all anchors and epoxy required for the installation of the equipment	Yes	Yes	Yes		
119	O&M's per specification section 01730	Yes	Yes	Yes		
120	Spare Parts per the Specifications	$1,175	Yes	Yes		
121	Testing days/trips included:	Yes	Yes	Yes		
122	Startup days/trips included:	Yes	Yes	Yes		
123	Additional Warranty per Spec	$3,500	$3,375	Yes		
124	COVID-19 Scope Items					
125	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes	Yes	Yes		
126	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes	Yes	Yes		
127	All personnel onsite must maintain 6'0" spacing between personnel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes	Yes	Yes		
128	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes	Yes	Yes		
129	All tools and equipment used must be sanitized each day.	Yes	Yes	Yes		
130	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes	Yes	Yes		
131	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes	N/A	N/A		
132	Personnel are not allowed to carpool to the site or while onsite.	Yes	Yes	No		
133	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the appropriate testing and quarantine protocols.	Yes	Yes	Yes		
134						
135	End of Scope					
136	Bond/CDI Cost	$0	$14,668	$6,785		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$737,661**	**$748,060**	**$444,551**		

6225 N 24th Street, Suite 200 Phoenix, AZ 85016 (480) 449-4700 www.mccarthy.com

Date: 4/7/2021

To: McCarthy Building Companies, Inc

Attn: Austin Hancock

Re: City of Chandler - WRF Improvements

We are pleased to submit a proposal on the above referenced project. Our prices are valid for 30 days unless written approval is obtained from McCarthy Building Company prior to expiration. This proposal contains the following items and is assumed the HVAC and Plumbing design to follow the Agency Review Drawings and Specifications dated March 2021.

Scope: Mechanical: Maintenance Building

- Fabricate and install all Ductwork per SMACNA Standards with inner liner insulation
  - Galvanized Ductwork
  - Excludes pre-primed or Paintlock ductwork
- Furnish and install (2) Evaporative Cooler (Approx. 84,000 CFM)
  - Single Wall Painted Galvanized Construction & Stainless Steel Wet Section Components
  - Excludes housekeeping pad
- Furnish and install (1) Split System Air Conditioning Unit (Approx. 790 CFM)
  - Furnish and install pre-insulated soft rolled ACR line set
  - Excludes housekeeping pad
- Furnish and install (1) Packaged Heat Pump Unit (Approx. 2400 CFM)
  - Excludes housekeeping pad
- Furnish and install (1) Ceiling Mounted Exhaust Fans (Approx. 500 CFM)
  - Ductwork to be Galvanized
- Furnish and install (Approx. 36) Diffusers, Grilles & Registers
- Furnish and install (Approx. 1) Louvers
- Controls to be stand-alone thermostats (excludes integration to BAS controls and SCATA)
- Potable Water to Evaporative cooler to be Copper Type L pipe and wrought copper fittings
- Evaporative Cooler drains to be Copper Type M pipe and wrought copper fittings
  - Drain to grade
- Excludes furnishing smoke detectors and wiring of smoke detectors
- Excludes fabricated structural supports
- Test, Adjusting, and Balancing
- BIM
- Daily clean-up

Mechanical Maintenance Building: **$ 409,143**
Add 15% material & equipment escalation $ 44,865

Scope: Mechanical: Sludge Holding

- Fabricate and install all Ductwork per SMACNA Standards with inner liner insulation
  - Aluminum Ductwork
  - Excludes pre-primed or Paintlock ductwork
- Furnish and install (1) Evaporative Cooler (Approx. 17,000 CFM)
  - Single Wall Painted Galvanized Construction & Stainless Steel Wet Section Components
  - Excludes housekeeping pad
- Furnish and install (1) Split System Air Conditioning Unit (Approx. 790 CFM)
  - Furnish and install pre-insulated soft rolled ACR line set
  - Excludes housekeeping pad
- Furnish and install (1) Air Conditioning Unit (Approx. 6000 CFM)
  - Excludes housekeeping pad
- Furnish and install (Approx. 12) Diffusers, Grilles & Registers
- Furnish and install (Approx. 4) Louvers
- Potable Water to Evaporative cooler to be Copper Type L pipe and wrought copper fittings
  - Assumes civil contractor to provide potable water no further than 5 FT from equipment
- Evaporative Cooler drains to be Copper Type M pipe and wrought copper fittings
  - Drain to grade
- Controls to be stand-alone thermostats (excludes integration to BAS controls and SCATA)
- Excludes furnishing smoke detectors and wiring of smoke detectors

Arizona Contractors License Nos. 080911-004, 080910-003; Nevada Contractors License Nos. 006125, 0011780; New Mexico Contractors License no. 019326
Ari Conditioning & Refrigeration License No. 138400; Plumbing License No. 251222

- Excludes Concrete Encasement of all Pipe Systems
- Excludes fabricated structural supports
- Test, Adjusting, and Balancing
- BIM
- Daily clean-up

Mechanical Sludge Holding: **$ 185,137**
Add 15% material & equipment escalation $ 18,846

Scope: Mechanical: Blower Building

- Make-safe and demo of existing (5) Side Mounted Exhaust Fans
  - Excludes patch back of existing openings
- Furnish and install (5) Wall Mounted Exhaust Fans (Approx. (2) 5000 CFM, (2) 5,250 CFM, & (1) 6200 CFM)
  - Saw Cut of Wall
- Controls to be stand-alone thermostats (excludes integration to BAS controls and SCATA)
- Test, Adjusting, and Balancing
- Daily clean-up

Mechanical Blower Building: **$ 53,414**
Add 15% material & equipment escalation $ 2,851

Mechanical Equipment Clarifications:

- Includes Spare Parts per Specification
- Includes (1) Startup Assistance Visit and (1) Training Visit per Equipment Manufacturer
- Includes a five year parts and one year labor warranty for the Air Conditioning Unit compressor, refrigerant system and coils. With the exception of those components, we are including one year of warranty for all work, material and equipment.

Scope: Plumbing: Maintenance Building

- Underground Sanitary to be Sch 40 PVC pipe and fittings
- Aboveground Sanitary to be Sch 40 PVC pipe and fittings
- Underground Domestic Water system to be Copper Type "K" pipe and wrought copper fittings
- Aboveground Domestic Water system to be Copper Type "L" pipe and wrought copper fittings
  - Domestic Hot Water to be insulated with 1" mineral-fiber insulation
- Compressed Air to be Copper Type "L" pipe and wrought copper fittings
- Domestic Water to Evaporative cooler to be Copper Type L pipe and wrought copper fittings
- Evaporative Cooler drains to be Copper Type M pipe and wrought copper fittings
  - Drain to grade
- Condensate drains to be Copper Type M pipe and wrought copper fittings
  - Drain to grade
- Commercial Grade Equipment
  - Furnish and install (1) Air Compressor
  - Furnish and install (1) Air Dryer
  - Furnish and install (2) Pressure Reducing Valves
  - Furnish and install (1) Water Heater
  - Furnish and install (1) Circulation Pump
  - Furnish and install (1) Expansion Tank
  - Furnish and install (1) Sand/Oil Separator
- Commercial Grade Plumbing Fixture
  - Furnish and install (1) Electric Drinking Fountain
  - Furnish and install (1) Ice Maker
  - Furnish and install (2) Lavatories
  - Furnish and install (1) Sink
  - Furnish and install (1) Mop Sink
  - Furnish and Install (2) Water Closets
  - Furnish and install (2) Shower Heads and Valves
  - Furnish and install (2) Shower Drains
  - Furnish and install (4) Hose Bibbs
  - Furnish and install (4) Hose Reels
  - Furnish and install (1) Compressed Air Quick Coupling
  - Furnish and install (28 LF) of Trench Drain
    - Floor Drains and Sinks provided with Trap Guard
  - Furnish and install (3) Floor Drains
  - Furnish and install (3) Floor Sink
- Daily clean-up

Arizona Contractors License Nos. 080911-004, 080910-003; Nevada Contractors License Nos. 006125, 0011780; New Mexico Contractors License no. 019326
Ari Conditioning & Refrigeration License No. 138400; Plumbing License No. 251222

- Excludes Concrete Encasement of all Pipe Systems
- Excludes Welding Booth and Welding Booth Piping
- Excludes Roof Drains

Plumbing Maintenance Building:	**$ 208,153**
Add 15% material & equipment escalation	$14,060

Exclusions: Taxes, escalation costs, development fees, engineering, permits, bond, Davis-Bacon wages, 6 day work week & over-time, Storm Drain System, Grease Waste System, Medical Gas System, Medical Vacuum System, Medical Air System, roof patch, wall patch, concrete x-ray, concrete pour back & patch, electrical wiring, hard dig, import/export of backfill materials, temporary water, waterproofing, firestop, restroom accessories, kitchen equipment including hood, painting, fire protection, LEED accreditation, splash blocks, T-Rating, heat tracing wire, temporary jobsite trailer hook-up, r/o system, site water meter and backflow preventer, piping beyond 5' out from building.

Please call if you have any questions.

Respectfully,

Tyler Cordon
MEP Estimator

Arizona Contractors License Nos. 080911-004, 080910-003; Nevada Contractors License Nos. 006125, 0011780; New Mexico Contractors License no. 019326
Ari Conditioning & Refrigeration License No. 138400; Plumbing License No. 251222

Chandler WRF Improvements Project

GMP 2 Work Category Solicited Subcontractors Summary

Work Category: **16A Electrical, Instrumentation, and Controls**

Subcontractor/Supplier Name	***Status***
Ludvik Electric	*Recommended*
Wilson Electric	*Proposed*
Sturgeon Electric	*Proposed*

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **16A - Electrical, Instrumentation & Controls**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	**Ludvik Electric**	Wilson Electric	Sturgeon Electric		
		Kelvin Ng	Tim Hunt	Jack Park		
		602-777-5023	602-910-9406	602-819-9110		
		KNg@Ludvik.com	Thunt@WilsonElectric.net	JPark@MYRGroup.com		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$5,828,369**	**$6,997,608**	**$8,139,090**		
	MCCARTHY SUBCONTRACT & FRONT END TERMS					
1	Compliant with McCarthy Front Ends	Yes	Yes	Yes		
2	Bid Submitted on McCarthy Bid Form	Yes	Yes	Yes		
3	Bid Bond Included with Bid (if over $250k Sub/$500k Supplier)	Yes	Yes	Yes		
4	Current Bank Reference Letter that shows Subcontractor or Vendor is in good standing.	Yes	Yes	Yes		
5	Surety Company	Hartford Fire Insurance Agency	Hartford Accident and Indemnity Company	Liberty Mutual Insurance Company		
6	Surety AM Best Rating (Must be A- or Better)	A+	A+	A		
7	AM Best Financial Size X($500M to $750M) or higher	XV $2B +	XV $2B +	XV $2B +		
8	Anticipated contract amount is less than the Federal UW Limit as listed on the Treasury Listing	Yes	Yes	Yes		
9	Bond/CDI Cost	0.800%	1.000%	0.650%		
10	Included Insurance Requirements (Per Matrix)	Yes	Yes	Yes		
11	GL Insurance Company Name	The Phoenix Insurance Company	Arch Insurance Company	Zurich		
12	GL Insurance Carrier AM Best Rating (Must be A- or Better)	A++	A+	A+		
13	PRL Insurance (If required by the Front Ends)	Yes	Yes	Yes		
14	Pollution Insurance (If required by the Front Ends)	Yes	Yes	Yes		
15	Tier 1 Approved	In review	Approved	In review		
16	Tier 2 Approved	In review	In review w/ risk	In review		
17	Agrees with McCarthy Subcontract Agreement Terms	No - Markups	Wilson Reviewing	No - Markups		
18	Safety Items:	Yes	Yes	Yes		
19	OSHA Recordable Incident Rate (Current)	.27	.99	0		
20	Agrees to comply with PPE requirements including 100% glove policy	Yes	Yes	Yes		
21	Acknowledges updated ladder policy (platform ladders)	Yes	Yes	Yes		
22	Task Hazard Analysis included for all tasks	Yes	Yes	Yes		
23	Tie-off above 6' required	Yes	Yes	Yes		
24	Includes Hoisting for Sub's Own Work Scope	Yes	Yes	Yes		
25	Acknowledges Soils Report	Yes	Yes	Yes		
26	Acknowledges Addenda	Yes	Yes	Yes		
27	Hold Bid for 150 Days	Yes	Yes	2wks - Exp 4/23		
28	Pricing good for the duration of the project	Yes	Yes	Labor yes, Matl. No		
29	Sales Tax Included	Gross Receipts	Gross Receipts	Gross Receipts		
30	**COVID-19 Market Questions**					
31	How has your work program been impacted by the COVID-19 situation? % of work stopped or delayed by more than 2 weeks?	No	No	No		
32	Have you had any future work opportunities canceled or delayed? What % of your future sales are projected to be impacted by COVID-19?	No	No	No		
33	Are you suffering productivity loss that is impacting the ability to complete work on time?	No	No	No		
34	Have you had any difficulty with employees not wanting to come to work because of the risk of infection?	Yes - office. Resolved now.	No	No		
35	Have you experienced any unusual voluntary turnover as a result of COVID-19?	No	No	No		
36	Have you had to furlough or make a reduction in staff or go to a reduced workweek as a result of COVID-19 market conditions?	No	No	Yes, furlough some training dept.		
37	Have you experienced and/or do you anticipate any issues with existing suppliers or vendors?	Not COVID related	No	Yes - Siemens. Should be overcome now		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **16A - Electrical, Instrumentation & Controls**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	**Ludvik Electric**	Wilson Electric	Sturgeon Electric		
		Kelvin Ng	Tim Hunt	Jack Park		
		602-777-5023	602-910-9406	602-819-9110		
		KNg@Ludvik.com	Thunt@WilsonElectric.net	JPark@MYRGroup.com		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$5,828,369**	**$6,997,608**	**$8,139,090**		
38	Do you have any overseas suppliers that may be impeding your supply chain?	No	Yes - Some gear and PVC Coated Conduit items & resin	No		
39						
40	Per Plans & Specifications as follows:	Yes	Yes	Yes		
41	Division 1 as it relates to this scope of work	Yes	Yes	Yes		
42	03600 - Grout - as it applies to this scope of work	By WC 03A	By WC 03A	By WC 03A		
43	05051 - Anchor bolts, toggle bolts, and concrete inserts as applies to scope	Yes	Yes	Yes		
44	07840 - Firestopping - as it applies to this scope of work	Yes	Yes	Yes		
45	07900 - Joint Sealers - as it applies to this scope of work	Yes	Yes	Yes		
46	13110 - Cathodic Protection System - as it applies to this scope of work	Yes	Yes	Yes		
47	13128 - Electric Operator - as it applies to this scope of work	Yes	Yes	Yes		
48	13447 - Electric Motor Actuators - as it applies to this scope of work	Yes	Yes	Yes		
49	Division 16	Yes	Yes	Yes		
50	Division 17	Yes	Yes	Yes		
Scope of Work						
Base Bid:		$4,900,600	$6,922,040	$8,062,243		
51	Provide all labor, materials, tools, equipment and appurtenances as required to perform the Work Category 16A Electrical, Instrumentation and Controls, in accordance with and reasonably inferable from the Contract Documents, complete and without exception unless otherwise noted below, including, but not limited to the following:	Yes	Yes	Yes		
52	Check to Spec completed and submitted to McCarthy with all submittals	Yes	Yes	Yes		
53	1 year warranty from Final Acceptance (Aug 2023)	Yes	Yes	Yes		
54	Temporary electrical connections for trailers and site power as defined in the front ends, line item 44.	Yes	Yes	Yes		
55	De-energize, make safe and demolish electrical items to allow for structural demolition.	Yes	Yes	Yes		
56	Relocation, and demolition of electrical and controls items as defined in the contract documents. Take care not to damage items in the demolition process and turn over items as outlined in the contract documents.	Yes	Yes	Yes		
57	De-term, removal and reinstallation of light poles at AWRF Filters and OWRF SHT Structure. Concrete bases will be by WC03A	$28,700	Yes	Yes		
58	De-term, new conductors and conduit for Airport filter deck light poles	$12,100	Yes	Yes		
59	Temporary electrical and controls as required to maintain a fully operational, automated system. Inclusive of, but not limited to the AWRF MCC-AER feeders, OWRF Anoxic, OWRF Blower MCC and OWRF Reservoir Ductbank Relocation.	Yes - to the extent shown in the CD's	Yes	Yes		
60	Includes MCC gutter/side car boxes for AWRF MCC-AER to accomplish bottom entry to the mains and maintain UL listing.	Yes - directly into MCC, not a dedicated gutter/box	Yes	Yes		
61	Includes crews and overtime cost to perform the OWRF Anoxic/Blower MCC/Clarifier MOPO work during the 2/1/22 - 3/31/22 window.	$50,000	Yes	Yes		
62	Electrical Gear Vendor	Eaton	Eaton	Eaton		
63	Blower Building MCC-449-001/002 Replacement Cost	$252,862	Incl.	Incl.		
64	Blower Building MCC-449-001/002 Cost from 45-150 days	$62,625	Incl.	Incl.		
65	Temp Blower Building MCC Cost	-$375,200	N/A	-$225,000		
66	Lock out tag out (LOTO) Safety Program	Yes	Yes	Yes		
67	Development and approval of Electrical MOPO plans prior to any MOPO work proceeding.	Yes	Yes	Yes		
68	Any extended warranties as required by the individual Contract Documents or provided by manufacturers are to be included.	Yes	Yes	Yes		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **16A - Electrical, Instrumentation & Controls**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	**Ludvik Electric**	Wilson Electric	Sturgeon Electric		
		Kelvin Ng	Tim Hunt	Jack Park		
		602-777-5023	602-910-9406	602-819-9110		
		KNg@Ludvik.com	Thunt@WilsonElectric.net	JPark@MYRGroup.com		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$5,828,369**	**$6,997,608**	**$8,139,090**		
69	Shop drawings, duct bank lay drawings, and all other required submittal packages associated with the scope of work.	Yes	Yes	Yes		
70	BIM/VDC coordination files/models/documents and coordinate location of all equipment/materials with other trades, including below grade and in-slab conduits/duct banks. ALL electrical work regardless of size shall be modeled.	Yes	Yes	Yes		
71	All material handling and hoisting for scope of work including unloading, organizing, storage, transport of equipment/materials from staging area to place of installation.	Yes	Yes	Yes		
72	Perform preventative maintenance of all electrical equipment including equipment provided by others. Submit maintenance reports on a weekly basis, as applicable.	Yes	Yes	Yes		
73	All sleeves, core drilling, saw cutting, asphalt cutting, link seal, and fire caulking related to scope of work. All existing surfaces will require restoration to original condition including paving, painting, etc.	Yes	Yes	Yes		
74	All grouting & dry packing associated with electrical and controls installation.	By WC 03A	By WC 03A	By WC 03A		
75	All supports, hardware, etc. required as specified to mount the electrical/control equipment being provided and provided with other work packages.	Yes	Yes	Yes		
76	Comply with requirements of Hazardous Classifications as required and outlined in Contract Documents.	Yes	Yes	Yes		
77	Furnish new seal off's for all conduits in hazardous areas. Reference E-3.37 Note 4.	Yes	Yes	Yes		
78	All required excavation, backfill, compaction to sub grade, and asphalt as necessary for the ductbank installation.	Yes	Yes	$53,000		
79	Integrally colored concrete for ductbanks (mixed at batch plant).	Yes	Yes	Yes		
80	Ductbank reinforcement as defined in the contract documents.	Yes	Yes	Yes		
81	Electrical manhole/pull boxes, and grounding; additional manholes/ hand holes for a code compliant system.	Yes	Yes	Yes		
82	Mandreling of conduits including maintaining a log.	Yes	Yes	Yes		
83	Trench plating of open trenches for roadways associated with scope of work.	Yes	Yes	Yes		
84	Spare conduits and future conduits are included with mule tape and any other requirements.	Yes	Yes	Yes		
85	Complete conduit routing including but not limited to switchgear, motor control centers, variable frequency drives, panel boards, disconnects, and local emergency stops. Coordinate top vs. bottom entry to maintain UL listing.	Yes	Yes	Yes		
86	Complete all conduit routing to all mechanical equipment and control equipment as required.	Yes	Yes	Yes		
87	HVAC Wiring	Yes	Yes	Yes		
88	HVAC Controls Wiring	By WC 15B	By WC 15B	By WC 15B		
89	Receive, store, and install all Vendor provided panels, equipment, instruments, etc.	Yes	Yes	Yes		
90	Panel Vendor (Name of Company)	Vertech	RDC/Alliance/Prime	Keller		
91	I&C Sub (If different from above)	Vertech	RDC/Alliance/Prime	Keller		
92	Programmer (If different from above)	Vertech	RDC/Alliance/Prime	Keller		
93	Install, anchor, and test all Switchgear, Transformers, Motor Control Centers, VFD's, Disconnects, Panel Boards, PLC Cabinets, RIO Cabinets, Control Panels that are not skid mounted.	Yes	Yes	Yes		
94	Local Emergency Stops as required.	Yes	Yes	Yes		
95	Includes lighting package	Yes	Yes	Yes		
96	All deflection and expansion fittings as required.	Yes	Yes	Yes		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **16A - Electrical, Instrumentation & Controls**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Ludvik Electric	Wilson Electric	Sturgeon Electric		
		Kelvin Ng	Tim Hunt	Jack Park		
		602-777-5023	602-910-9406	602-819-9110		
		KNg@Ludvik.com	Thunt@WilsonElectric.net	JPark@MYRGroup.com		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$5,828,369**	**$6,997,608**	**$8,139,090**		
97	Classified area seal off's: I. A detailed conduit seal-off plan identifying all seal-off locations shall be submitted to CMAR prior to installation of conduits. ii. A mock up of a seal off shall be completed, reviewed and approved by AHJ, CMAR, and Owner/Engineer prior to installing any seal-off's. Mock up shall demonstrate: iii. Conduit entry/exit through a concrete slab and masonry wall with seal-off being the first fitting. iv. Seal-off shall be 40% fill rated – wire fill must not exceed rating of seal-off. v. Seal-off shall be rated for the orientation it will be installed (horizontal or vertical). vi. Seal-off shall have conductor installed and separated to ensure full encasement by Chico sealing compound. If utilizing multiconductor cable that is not rated for classified spaces, outer jacked shall be stripped off at the seal-off location and wires separated to ensure full encasement by sealing compound. vii. Packing of seal-off. viii. Pouring of seal-off.	Yes	Yes	Yes		
98	Prior to pouring any seal-off, submit an inspection request to AHJ, CMAR and Owner/Engineer	Yes	Yes	Yes		
99	Includes 480V field disconnects for all MOV's/Actuators per RFI #23 response.	Yes	Yes	Yes		
100	Includes new conduits/ductbank from Blower Building to Secondary Clarifiers per RFI #49 response.	Yes	Yes	Yes		
101	Includes conduits/ductbank via EHH-10 at the OWRF filters per RFI #50 response.	Yes	Yes	Yes		
102	Acknowledges existing SHT MCC-610-001/002 breaker sizing per RFI # 51 response (500AT/600AF in lieu of 600AT/800AF).	Yes	Yes	Yes		
103	Lightning protection system with master label per RFI #55 response (SHT and SHT Blower Building).	Yes	Yes	Yes		
104	Per RFI #56 response, is OCAL or RobRoy being provided? Acknowledges that same manufacturers products will be used exclusively and not mixed and matched.	OCAL	OCAL	Yes - Not sure on which will be chosen		
105	Coordination with process piping, & mechanical equipment vendors, for a completely integrated electrical and instrumentation system.	Yes	Yes	Yes		
106	All electrical/instrumentation racks.	Yes	Yes	Yes		
107	Termination of all electrical equipment and instrumentation.	Yes	Yes	Yes		
108	Layout of electrical equipment, control panels, and PLC's equipment pads. Pads will be formed and poured by others.	Yes	Yes	Yes		
109	Temporarily tag all control wiring at final destination.	Yes	Yes	Yes		
110	Equipment tags, and signage as required.	Yes	Yes	Yes		
111	Obtain all permits necessary for performance and completion of the work.	Yes	Yes	Yes		
112	Develop conductor and conduit schedule. Coordinate with I&C contractor to ensure proper quantity of conductors are installed.	Yes	Yes	Yes		
113	On-site supervision for all concrete pours, including off hour pours if applicable.	Yes	Yes	yes		
114	Temporary warning and instructional signage as required.	Yes	Yes	Yes		
115	Temporary panel schedules will be installed and updated during the project.	Yes	Yes	Yes		
116	Infrared Panel Scanning of Panelboards per Spec 16470 3.4D	$4,800	Yes	Yes		
117	Fire Alarm Scope of work as defined in the contract documents, including coordination of inspections and AHJ permit approval.	Yes	Yes	Yes		
118	Furnish and install sunscreens for as required for this work category.	Yes	Yes	Yes		
119	All field instruments and devices.	Yes	Yes	Yes		
120	DCS system per spec 17451, including upgrades to the Distributed Control System to integrate the new AWRF disc filters to the existing SCADA System.	$489,340	Yes	$190,000		
121	SCADA System Programming	Yes	Yes	Yes		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **16A - Electrical, Instrumentation & Controls**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	Ludvik Electric	Wilson Electric	Sturgeon Electric		
		Kelvin Ng	Tim Hunt	Jack Park		
		602-777-5023	602-910-9406	602-819-9110		
		KNg@Ludvik.com	Thunt@WilsonElectric.net	JPark@MYRGroup.com		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$5,828,369**	**$6,997,608**	**$8,139,090**		
122	Includes all new PLC cabinets as defined in the contract documents. Coordinate component spacing with manufacturers recommendations for overall cabinet sizing, including 10% spare space. Coordinate cabinet sizing with room size, layout and door ways.	Yes	Yes	Yes		
123	Includes new ethernet cabinets, ethernet cables, terminations, switches and fiber converters.	Yes	Yes	Yes		
124	Project Start Up - Electrical Subcontractor will designate a startup person whose sole responsibility will be to work with McCarthy startup team during all phases of startup. This person will have the authority to direct the Electrical Subcontractor's field personnel to assist in any portion of the startup process. This will be for the entire phase of the startup schedule. This will include submission of startup plans and test and source data.	Yes	Yes	Yes		
125	Coordination of loop verification during startup process.	Yes	Yes	Yes		
126	Continuity testing of all conductors and cabling as required. Includes Megger testing of all power conductors #12 AWG and larger. Create, update, and submit updates in a log to CMAR.	Yes	Yes	Yes		
127	NETA testing as defined in spec 16920 - 3.1.	Yes	Yes	Yes		
128	Electrical contractor will coordinate all AHJ inspections with McCarthy.	Yes	Yes	Yes		
129	Complete point to point checkout of all power, control, analog, discrete wiring and submission reports to McCarthy startup team prior to any startup of equipment or systems. Third Party Grounding verification will be submitted to McCarthy prior to energize of any electrical equipment.	Yes	Yes	Yes		
130	All Equipment grounding/bonding including dedicated ground conductor per conduit in accordance with spec 16170.	Yes	Yes	Yes		
131	All breakers to be tested prior to commissioning - per spec.	Yes	Yes	Yes		
132	Required testing power source.	Yes	Yes	Yes		
133	Pre-testing of all instruments and equipment prior to any formal Owner/Engineer witnessed testing.	Yes	Yes	Yes		
134	Develop and maintain instrument calibration log and provide to McCarthy as requested.	Yes	Yes	Yes		
135	Develop and continually update master I/O list. Initial I/O list to be submitted within 30 days of contract execution.	Yes	Yes	Yes		
136	I/O testing plan including a completed end to end test (CEET) plan.	Yes	Yes	Yes		
137	Factory Acceptance Testing (FAT) as required.	Yes	Yes	Yes		
138	Spare parts and tools.	Yes	Yes	Yes		
139	Maintain as-builts for the EIC scopes of work in the project electronic planroom.	Yes	Yes	Yes		
140	Short Circuit, Coordination Study, and Arc Flash Hazard Report per spec 16951. Includes set up of new breakers and devices per the study and existing breakers that may be modified or have load added to them as a result of this project. This also includes programming and testing of MV protective relays.	Yes	Yes	Yes		
141	Provide lifting lugs for proper installation	Yes	Yes	Yes		
142	Provide structural and anchorage calculation sealed by a registered structural engineer in the state of Arizona as it applies to this scope of work.	Yes	Yes	Yes		
143	Provide all anchors and epoxy required for the installation of the equipment	Yes	Yes	Yes		
144	City of Chandler approved panel vendor - reference RFI #85 response	Yes	Yes	Yes		
145	Temporary protection & enclosure	Yes	Yes	Yes		
146	Preventative maintenance	Yes	Yes	Yes		
147	O&M's per specification section 01781	Yes	Yes	Yes		
148	Training per specification 01821	Yes	Yes	Yes		
149	Spare Parts per the Specifications	Yes	Yes	Yes		
150	Manufactures Services	Yes	Yes	Yes		
151	Performance testing: Per Spec	Yes	Yes	Yes		
152	Additional Warranty per Spec	Yes	Yes	Yes		
153	EIC Supervision and Support	$200,000	N/A	N/A		
154	EIC Work Category Support	$30,000	$30,000	$30,000		

Project Name: Chandler WRF Improvements
Project No. WW1901.401

Work Category: **16A - Electrical, Instrumentation & Controls**

GMP Date: **5/4/2021 Rev 6/21/2021**

Recommended

	COMPANY INFORMATION	**Ludvik Electric**	Wilson Electric	Sturgeon Electric		
		Kelvin Ng	Tim Hunt	Jack Park		
		602-777-5023	602-910-9406	602-819-9110		
		KNg@Ludvik.com	Thunt@WilsonElectric.net	JPark@MYRGroup.com		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$5,828,369**	**$6,997,608**	**$8,139,090**		
155	OWRF Filter Ductbank WCS - North Side of filters have light poles, receptacles, flow meter, and feeders for filter #4.	$20,000	$20,000	$20,000		
156	AWRF Filter Ductbank WCS - South side of filters 1-8 has two j-boxes with twisted/shielded pairs and 277/480v feeders that likely go to the deck mounted panelboards. The ductbank that feeds the j-boxes and panels needs to be relocated to allow for the 12" BWW line to be installed.	$20,000	$20,000	$20,000		
157	Travel to Gear Manufacturer WCS - Two trips to Eaton factories in North Carolina and Vermont to check on MCC/Elect. Gear fabrication. Ensures we are on track for the 2 month MOPO window at OWRF.	$7,500	$7,500	$7,500		
158	Electrical Material Escalation	$100,000	Incl.	N/A		
159	MCC-TH2 Temporary Provisions	$50,000	Incl.	Incl.		
160	**GMP 1 Early Demo**	-$21,215	-$21,215	-$21,215		
161	**GMP 1 Early Submittals**	-$50,000	-$50,000	-$50,000		
162	COVID-19 Scope Items					
163	Proposal includes CDC, Federal, State and Local OSHA guidelines for COVID-19.	Yes	Yes	Yes		
164	Your proposal shall include all productivity, schedule, and other impacts to cost and schedule.	Yes	Yes	Yes		
165	All personnel onsite must maintain 6'0" spacing between personnel and shall have facemasks on at all times that align with CDC, Federal, State or Local OSHA guidelines for COVID-19.	Yes	Yes	Yes		
166	Work activities that require personnel to be closer than 6'0" must have a plan presented and approved by McCarthy before work activity commences. Work activities within 6'0" shall also include the appropriate masks and PPE while performing the work.	Yes	Yes	Yes		
167	All tools and equipment used must be sanitized each day.	Yes	Yes	Yes		
168	Personnel must comply with all hand washing and sanitizing requirements set by McCarthy.	Yes	Yes	Yes		
169	Subcontractors with onsite trailers must sanitize trailer interior high contact areas and restroom facilities daily. Subcontractors must have a plan approved by McCarthy to maintain 6' social distancing within the trailer as required by the AHJ.	Yes	Yes	Yes		
170	Personnel are not allowed to carpool to the site or while onsite.	Yes	Yes	Yes		
171	Any personnel reporting symptoms must be immediately reported to McCarthy and follow the appropriate testing and quarantine protocols.	Yes	Yes	Yes		
172						
173	End of Scope					
174	Bond/CDI Cost	$46,257	$69,283	$52,562		
	TOTAL WORK CATEGORY PACKAGE VALUE	**$5,828,369**	**$6,997,608**	**$8,139,090**		

08-19-2014 Rev.
Front Ends

BID PROPOSAL

Date April 9, 2021

Bid Proposal of * Ludvik Electric Co. (hereinafter called "Bidder")

a ** Corporation organized and existing under the laws of the State of

Colorado.

* Insert name of firm.
** Insert corporation, partnership, or individual, as applicable.

(INSERT OWNER'S ADDRESS)
TO: McCarthy Building Companies, Inc.
6225 North 24th Street, Suite 200
Phoenix, Arizona 85016

The Bidder, in compliance with your Invitation for Bids for the construction of Chandler Water Reclamation Facility Improvements having examined the Contract Documents entitled City of Chandler, Chandler WRF Improvements Project, and other related documents and being familiar with the site of the proposed work, and with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, and the progress of work to date, if any, hereby proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, perform all work, provide all services, and to construct all work in accordance with the Contract Documents set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required.

The Bidder shall attach a copy of Bidders' detailed estimate to its Bid Proposal. This estimate shall identify all quantities shown in the documents or anticipated along with corresponding labor, material and equipment pricing.

After Bid Proposals are received, tabulated, and evaluated by McCarthy, said Bidder agrees to meet with McCarthy for the purpose of determining any duplications, omissions, or mutually agreed bid adjustments. For these meetings, the Bidder agrees to provide a complete, detailed cost breakdown; a list of all sub-subcontractors proposed for use in the work; and a list of all items, materials and their manufacturers proposed for use in the work.

The Bidder, if awarded a Subcontract, agrees to commence work and to fully complete its Work in accordance with a schedule to be established in collaboration with McCarthy under the provisions of the Additional Subcontractor Conditions of the Specifications.

The Bidder acknowledges receipt of the following Addenda: 1 through 4

BASE BID:

The Bidder agrees to perform all Electrical, Instrumentation, and Controls (herein insert the title of the Work Category as it appears in the Additional Subcontractor Conditions) Work for Work Category No: 16A, as described in the Contract Documents, for the Lump Sum of Four Million, Nine Hundred Thirty-Nine Thousand , Eight Hundred and Five DOLLARS ($ 4,939,805.00).

BID BREAKDOWN:

Airport WRF Total Amount		$ 1,843,500.00
-	Aeration Basin	$ N/A .
-	Blower Piping	$ 27,800.00 .
-	Blower Ductbank	$ 401,900.00 .
-	Filters	$ 871,300.00 .
-	Maintenance Bldg	$ 542,500.00 .
Ocotillo WRF Total Amount		$ 3,057,100.00
-	Aeration/Anoxic	$ 827,400.00 .
-	RAS/WAS PS	$ 294,000.00 .
-	Clarifiers 1& 2	$ 154,400.00 .
-	Filters	$ 620,700.00 ..
-	MCC Replacement	$ 887,800.00 ..
-	Reservoir	$ 272,800.00 ..
-	Roads/Sitework	$ N/A ..

Performance & Payment Bond Cost *(If Applicable)* $ 39,205.00

Total Subcontract Amount $ 4,939,805.00

The name of the proposed Bonding Company is Hartford Fire Insurance Agency

Bond rate 8/10 of 1 %

All applicable taxes, except sales and use taxes on materials and equipment which are affixed and made a part of the real estate of the Project, are included in the above Base Bid. Bidder agrees that this Bid Proposal shall be good and may not be withdrawn unless McCarthy does not send Bidder a Subcontract within one hundred ~~twenty (160) calendar days~~ fifty (150) calendar days after the opening date of Bid Proposals.

(Amounts shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

ALTERNATES:

The Bidder further agrees that if any or all of the Alternates listed and described below are incorporated and accepted within sixty (60) calendar days after receipt of a Subcontract from McCarthy, the Bidder will adjust its Subcontract by the amount indicated opposite the Alternates listed below.

ALTERNATE NO. 1: Filter Disc in Basin 7 Installation:

ADD the sum of $ 92,600.00 + Bond .

ALTERNATE NO. 2: Clarifier 3 Rehabilitation

ADD the sum of $ 47,500.00 + Bond .

ALTERNATE NO. 3: Sludge Holding Tank and Blower Bldg No. 2

ADD the sum of $ 1,063,300.00 + Bond .

ALTERNATE NO. 4: Removal/Replacement of Diffusers in 2 Aeration Basins

ADD the sum of $ N/A .

ALTERNATE NO. 5: Delete "Temporary" scope of work required by delayed delivery of MCC-449-001/002.

DEDUCT the sum of $ 375,200.00 .

CHANGE ORDER RATES: (Add separate sheet as needed)

Markup % (on rates and material): 15% .

Position: Foreman Rate: $ 64.08 per hour .

Position: Electrician Rate: $ 44.95 per hour .

Equipment: _____ Rate: _____ .

Equipment: _____ Rate: _____ .

SAFETY RECORDS

The Bidder certifies to the following Experience Modification Rates (EMR) and Incidence Rates for the three (3) most recent years:

	Year 2018	Year 2019	Year 2020
1. Compensation Experience Modification Rate:	.69	.67	.55
2. Incidence Rate:			
(a) Number of hours employees worked in the year.	1,321,044	1,616,845.70	1,508,403.46
(b) Number of cases defined as recordable, from the OSHA Form 300 Log.	8	9	2
(c) Total Recordable Incidence Rate = (b) x (200,000 hours) / Hours Worked (a)	1.21	1.11	.27

The Bidder understands that McCarthy reserves the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

SELECT AS APPROPRIATE

☐ The Bidder has completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program; OR

☒ The Bidder has not completed the Prequalification Form together with all other required data for McCarthy's' Contractor Default Insurance Program because the Bidder has provided the Form and all such information to McCarthy in the past 12 months for the following project:

Confirmed on file at McCarthy and current ~~Project, which bid on:~~ _____.

RESPONSIVE BID REQUIREMENTS:

DO NOT ENCLOSE YOUR STANDARD TERMS AND CONDITIONS

If any exceptions are taken to the requirements of this Proposal form, attach a separate sheet listing those exceptions, stating the sections and paragraphs and the specific exception.	(initials)
In submitting this proposal, the Bidder certifies that this bid is valid for 150 calendar days.	(initials)
In submitting this Proposal as described herein, we agree to complete the work in accordance with the included Preliminary Construction Sequence.	(initials)
In submitting this Proposal, the Bidder certifies that all cost for extended warranties to start on the date of Substantial Completion is included.	(initials)
In submitting this proposal as described herein, we confirm that we have received, reviewed and agree to all commercial terms stated in the McCarthy Subcontract and Purchase Order Agreement. Any exception taken to the commercial terms stated in these Agreements must be listed on a separate sheet noting the article or paragraph and the specific exception. ***Bidders attached Standard Terms and Conditions will not be acknowledged or accepted as part of any given bid.***	(initials)
See attached sample McCarthy Subcontact with Ludvik mark-ups.	
In submitting this proposal as described herein, the Bidder certifies that this bid is coordinated based on a complete set of documents and that there will be no claims for change order based on the assertion that the Bidder did not have a complete set of Bidding Documents.	(initials)
See Ludvik Clarification Letter attached.	
In submitting this proposal, the Bidder certifies that they have included all spare parts, training, O & M Manuals, shop drawings and administration costs as associated to comply with the requirements of the specifications and as listed for their scope of work.	(initials)
A bid will be considered non-responsive if the Subcontractor Pre-Qualification Form is not completed as part of the Bid Form **(or on file at McCarthy office)**.	(initials)
The Bidder, by submitting their bid, represents that they have read and understand the scope requirements of the Bidding Documents.	(initials)
The Bidder certifies that any proposed materials in this scope of work meet or exceeds the requirements stated in the specifications unless noted otherwise within this proposal.	(initials)
The bidder certifies that the price listed in this bid is a firm Price through the final delivery of the materials proposed herein, and that no material escalation will be accepted as part of this proposal.	(initials)

Within fifteen (10) days after receipt by the Bidder from McCarthy of the Subcontract or Purchase Order, the Bidder will execute and return to McCarthy said Subcontract or Purchase Order and if notified from McCarthy that Bidder is not to be enrolled in McCarthy's Contractor Default Insurance Program, deliver to McCarthy Performance and Labor and Material Payment Bonds for the Subcontract or a Supply Contract Bond for the Purchase Order, or the difference between the amount of the bid and such larger amount for which McCarthy may subcontract with another party to perform the work covered by said bid, together with all court costs, all attorney fees and all other expense of recovery, all of which shall not exceed the Bid Security attached in the amount of 15% of the bid, will become the property of McCarthy. The bonds shall name McCarthy as Obligee.

If an Individual:

Authorized Signature: _____

Name (print): _____

Email: _____

Business Address: _____

_____

If a Partnership:

Authorized Signature: _____

Name (print): _____

Email: _____

Authorized Signature: _____

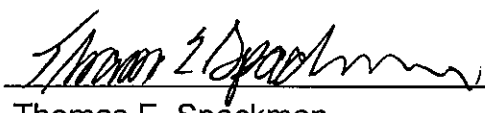
Name (print): _____

Email: _____

Business Address: _____

_____

If a Corporation:

Authorized Signature: 

Name (print): Thomas E. Spackman

Email: tspackman@ludvik.com

Title: Chief Estimator

Business Address: 1020 E. University Dr.

Phoenix, AZ 85034

Telephone (602) 777-5000

Contractor License Number: 088575 (C-11)

General Liability Insurance Carrier (not the agent): The Phoenix Insurance Company

*Please attach a sample certificate of insurance and current W9 form to your bid.

Reference: City of Chandler Water Reclamation Facility Improvements Project

Subject: **ELECTRICAL BID SCOPE CLARIFICATIONS**

1. The following items are understood to be provided by McCarthy so have not been included in our proposal:
    a. Contract sales tax, permits, utility company costs and fees.
    b. Removal of refuse from site. We will deposit refuse in your dumpster.
    c. Grouting and all formed concrete (i.e. pads, bases, curbs, etc.). Per McCarthy Front Ends Section 67, grouting is to be provided by the Concrete subcontractor.
    d. Process and mechanical connections, piping, tubing, fittings, valves, spools, etc.
    e. Stormwater Pollution Prevention Plan (SWPPP). Ludvik will comply with McCarthy's overall SWPPP for the project.
    f. Site dust control (dust control for our own excavation is included), construction water, compaction testing, and concrete testing.
    g. Toilet facilities and sanitization stations.
2. Our Bid Proposal includes the Eaton gear package, which is the only package offered in full compliance with the project design documents. Note that SQ D has offered a gear package which is lower in price, however it is incomplete and would also be subject to approval, due to deviations from the project design documents.
3. Ludvik's bid to supply MCC-449-001/002 was provided in a separate proposal as requested and is not included in this bid proposal.
4. Per coordination with Foxboro, the sole source provider for the Section 17451 DCS Equipment and Programming, they have stated that the current design does not provide sufficient information for Foxboro to provide a quote. Foxboro has stated that the existing plant control systems at AWRF and OWRF consist of a mixture of Foxboro equipment and Modicon PLCs and that the manufacturer of each existing control panels interfaced in this project must be identified and scopes of work clarified by the Engineer. Ludvik has requested this information however a response was not available at the time of bid. As such, interfaces to existing control panels for this project are assumed and based on availability of existing I/O points with any modifications to existing control panels to be provided by the Owner or determined when enough information is available. Modicon programming has been included for the new PLC at the OWRF Sludge Handing facility. All other programming is based on being provided by the Owner or determined when enough information is available.
5. Excavation, backfill, and concrete are included for underground electrical work, with rebar for ductbank portions under roads as specifically identified on the Electrical drawings.
6. Demolition of identified electrical items on the Electrical drawings is included, with "cut & make-safe" included for areas identified to be mass demoed (i.e.: OWRF Filter basins, Anoxic Basin UG ductbank section, Secondary Clarifier bridges, Finished Reservoir UG ductbank section, etc...).
7. There are drawing discrepancies regarding the conduits to equipment at the Aeration basins. To the best of our assessment based on the available information, it is our understanding that all conduits from the Blower building electrical room to equipment at the Aeration basin are existing and to be reused. No new conduits for these runs have been included.

CLARIFICATIONS: (continued)

8. As a specific conduit routing format was not identified or designated (detail) for the re-feed of equipment on the Anoxic basin from the new westside ductbank, our proposal is based on exposed conduit run overhead along the basin walkways.
9. During the 4/5/2021 bid walk at the OWRF plant the follow drawing discrepancies were noted though investigation and coordination with McCarthy and the OWRF plant electrician. As such Ludvik is basing our proposal on the following deviations:
    a. The existing conduit routing path for the primary feeders to MCC-449-001/002 from the "Existing Main Switchgear" was not able to be determined at the time of bid. Ludvik has included 500' per run for the replacement feeder conductors to be routed through existing conduits P449-101 and P449-200.
    b. Ludvik was informed that "Existing ATS-BP" shown on drawing E-3.36 was removed in a prior project is no longer present. To the knowledge of the plant Electrician, existing transformer T-BP, previously fed from ATS-BP, is now fed directly from MCC-449-001/002. As such, in lieu of new circuits P449-214 and P449-119 we have included replacement of a feeder from MCC-449-001/002 to transformer T-BP.
    c. A location for Panel LPC identified on drawing E-3.36 to be fed from Panel LPB could not be found. As such our proposal is based providing replacement feeder conductors in existing conduit LPB-28/30/32 not exceeding 200'.
10. Drawing E-3.35 indicates to stub-out a "spare" 2" conduit (conduit P449-201) however it is not indicated where to stub this conduit to. We have included this stub out 5' to just outside of the Electric room.
11. Replacement of ductbank along the south end of the existing Finish Water Reservoir is included based on conduits identified within ductbank #62 in the "as-built" drawing provided in McCarthy 3/18/2021 email. Temporary re-routing of ductbank circuits during construction is based on exposed PVC conduit re-routed from adjacent manholes to affected devices during construction. As instructed by McCarthy, cost is based on ability to re-use the existing conductors for the temporary and in the replacement ductbank.
12. The existing network topography for the individual plant Fire Alarm systems was not provided in the Bid documents. Our proposal is based on the ability to interconnect with the existing Fire Alarm systems via existing plant fiber optic network.
13. Per request by McCarthy, contingency costs have been included in our base bid to provide temporary equipment and wiring to maintain electrical service to equipment being fed from MCC-449-001/002 if new MCC delivery is delayed outside the 2/2/2022 – 4/1/2022 plant shut-down window. As instructed, temporary equipment is to be placed within the north end of the existing Aeration Blower building. Temporary raceway will be routed exposed to existing pullbox and manhole with McCarthy to provide measure for physical protection. Temporary equipment and wiring are included in accordance with regulatory codes, not per permanent installation specifications. Current lead times for the temporary equipment is 10 weeks for submittals (if submittals will be required for temporary) and 12 weeks for equipment delivery after authorization for procurement is received.
14. Both treatment plants are set up with "Main-Tie-Main" redundancy. This has clearly allowed partial shutdowns for the work to be done without temporary electrical as detailed throughout the MOPOs in Section 01012. Our proposal includes the optional temporary MCC option if needed. No other temporary electrical is identified to be needed, so none is included.

CLARIFICATIONS: (continued)

15. General temporary power is included as specified in McCarthy Front Ends Section 44 with primary power for McCarthy construction trailers at AWRF to be derived from existing breaker in MCC-RW as instructed. It is understood that construction trailer power will not be required at the OWRF site as McCarthy will be utilizing the existing "Old Admin" building as the site construction field office.
16. Electrical and instrumentation items specified under other sections, identified to be furnished by other sections, or understood to be provided by others are not included. The following items are typical of these:
    a. Painting by Work Category 09D
    b. Security System – Per 4/5/2021 Engineer's Q&A response #61, is not included.
    c. 11335 Secondary Clarifier – Motor control panel with strobe.
    d. 11371 Positive Displacement Blowers – Packaged blower system with skid mounted instruments (pressure and temperature switches, sensors and gauges).
    e. 11400 Disk Filter System – Vendor control panel, power panel, pressure transducer, float switch, pressure gauge, and vacuum transmitter.
    f. 13447 Electric Actuators – Identified on McCarthy P&ID Responsibility Matrix to be furnished by Vendor or Process contractor. We have included electrical connections to actuators as shown on the Electrical drawings.
    g. 13930 Wet Pipe Fire Extinguishing System – Flow and tamper switches and bell.
    h. 14630 Hoists, Trolleys, Monorails – Control panel, pendant controls, festoon cabling, etc…
    i. 15441 Sump Pumps – Control panel and float switches.
    j. 15680 Evaporative Coolers – Fused main disconnect, control panel (VFD / motor starter), and smoke detectors.
    k. 15982 Line Voltage Thermostat
    l. 16225 Electric Motors 250HP or less.
17. Specifications 13110 Cathodic Protection and 13128 Electrical Operators were not issued and are not provide by Ludvik.
18. Bidder's detailed estimate is confidential with proprietary information and is therefore not submitted.

This proposal is submitted for a mutually agreeable subcontract and schedule. Please contact us at 602-777-5000 with any questions or for additional information.

Sincerely,
LUDVIK ELECTRIC CO.

Kelvin Ng
Estimator

Jones, Michael

From: Kelvin Ng <KNg@ludvik.com>
Sent: Monday, April 19, 2021 6:00 PM
To: Perpich, Ben
Subject: 2274 Chandler WRF Improvements - LE clarifications to 4/14/2021 McCarthy Scope Review questions (with Foxboro)

Ben,

In follow-up to the items discussed during the 4/14/2021 scope review meeting with McCarthy and Ludvik, please see below for our clarifications on the items of concern:

Item 57 OWRF SHT relocated light poles –

Drawing D-3.01 Keyed Notes 3 and 4 states to relocate (3) light poles and electrical conduit (assumed to be the power conduit for these light poles) and see electrical sheets for details. The electrical drawings however do not show any work related to these light fixtures. Based on the assumption that these (3) fixtures will be relocated within the same general area (perimeter of the new sludge holding facility) **ADD $28,700.00** to our proposal for Ludvik to relocate these fixtures, including rerouting of the underground fixture power circuit. Concrete pole bases are to be provided by others. McCarthy has carried $28,700 in the scope sheet for escalation.

Item 58 AWRF FILTER deck light fixtures –

Electrical drawings and Demo drawings D-1.14 through D-1.17 for the AWRF Filter deck did not indicate the removal of any of the existing lights. Per discussion with McCarthy, it is our understanding that the fixture along the walls between the filter basins (8 stanchion fixtures) will need to be removed to facilitate basin modification and then re-installed and re-fed. **ADD $12,100.00** for Ludvik to R&R these fixtures and re-feed from existing circuits. McCarthy has carried $12,100 in the scope sheet for escalation.

Item 76 OWRF RAS/WAS seal offs per E-3.37 Note 4 –

Ludvik has included a seal-off for conduit C449-150 for the level sensor within the RAS/WAS wetwell required by drawing E-3.37 Note 4.

Item 79 GENERAL ductbank reinforcement –

Section 16137-3.1.I identifies general requirements for ductbank reinforcement with the condition, “Unless otherwise shown on the drawings…”. As drawing Details 101, 105, and 106 on E-701 ductank do not show reinforcement, none are included for “typical” ductbanks. McCarthy Front Ends Work, Category 16A item 4.t. however specifies for rebar to be placed under traffic areas. As such, Ludvik included rebar reinforcement for ductbanks identified to be per Detail 106 (ductbanks under pavement).

Item 115 GENERAL infrared scanning of panelboards –

McCarthy Front Ends item 77 stated “Infrared testing may be provided to Subcontractor for inspection of various components of the Subcontractor’s work as listed below.” and as such was believed by Ludvik to convey that infrared testing, if required would be provided by others.

Please **ADD $4,800.00** to our bid for Ludvik to provide the Section 16470-3.4D infrared testing on panelboards that are either new or modified by Ludvik in this project, no other infrared testing is included.

McCarthy has carried $4,800 in the scope sheet for escalation.

Item 119 & 120 GENERAL upgrades to Foxboro DCS systems and SCADA system programming –

ADDER for Ludvik to provide the hardware equipment and programming by Vertech to incorporate the changes indicated in the project design documents, includes the necessary hardware and programming of the Foxboro and Modicon equipment. Ludvik submits this adder in compliance with the design documents and with the

necessary approved vendors - **$489,340.00.** This price is based on the Owner providing access to their Foxboro Developer software and terminals at both the AWRF and OWRF locations

McCarthy has carried $489,340 in the scope sheet for escalation.

Item 141 GENERAL structural and anchorage calculation –

For clarification, Ludvik has included structural calculation for the light poles as required by detail 501 on drawing E-7.03. No other structural or anchorage calculations was identified to be required or have been included by Ludvik.

NOTE: Please ADD 8/10 of 1% to amounts listed above for bond, if required.

BTW – There appears to be a discrepancy in the amount that is listed as Ludvik's overall base bid on the McCarthy checklist. The checklist lists an amount of $5,192,667 which was to be inclusive of the "Base Bid" amount listed on our 4/9/2021 proposal and the cost for MCC-449-001/002 which was provided in a separate proposal. Where the discrepancy lies is that the $4,939,805.00 amount included Bond, whereas the $252,862.00 amount for MCC-449-001/002 is "plus bond". If both items are contracted together our bond adder for the MCC would be .8% which would make our total base bid amount $5,194,690.00 ($4,939,805. + $254,885.)

Please let me know if additional clarification is required on any of these items.
Thanks,

Kelvin Ng
Estimator
Ludvik Electric Co
Main (602) 777-5000
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Jones, Michael

From: Kelvin Ng <KNg@ludvik.com>
Sent: Monday, April 26, 2021 3:56 PM
To: Perpich, Ben
Subject: 2274 Chandler WRF Improvements - Additional information required per McCarthy 4/21 conversation
Attachments: Resume - Dan Robb 04-23-21.pdf; Resume - Rick Taylor 04-23-21.pdf; Ludvik AZ Current Projects.pdf; LE OWRF 2 month shut down approach.pdf

Ben,

Per McCarthy's request for additional information, Ludvik submits the following:

1) Ludvik's Project Manager will be Rick Taylor and Superintendent will be Dan Robb for this project. See their Resumes attached. Note the previous Ludvik/McCarthy projects in their Resumes. The Lake Pleasant Water Treatment Plant was $31 million electrical and the Deer Valley WTP East Basins was $19 million electrical.

2) See Ludvik AZ Current Projects .PDF attached.

3) Area break-down of material costs and labor hours –

AREA	MAT $	LBR HRS
|| AWRF AERATION	$ 11,500	170
|| AWRF BLWR DB	$ 314,300	1180
|| AWRF FILTER	$ 591,900	4920
|| AWRF MAINT BLDG	$ 390,200	2690
|| OWRF AERATION / ANOXIC	$ 579,100	4180
|| OWRF RAS/WAS PS	$ 241,700	770
|| OWRF CLAR 1&2	$ 96,500	1010
|| OWRF FILTER	$ 412,000	3580
|| OWRF MCC REPLACE	$ 353,200	3180
|| OWRF RESERVOIR	$ 166,500	1870
|| ALT AWRF FILTER #6	$ 61,600	620
|| ALT OWRF CLAR #3	$ 28,000	390
|| ALT OWRF SLUDGE AREA	$ 912,900	3000
|| ALT OWRF TEMP MCC	$ 294,000	1620

Note: Item "OWRF MCC REPLACEMENT" does not include the cost for MCC-449-001/002, which was quoted separately.

4) Additional cost to extend quoted amount for MCC-449-001/002 –
As it was our understanding that MCC-449-001/002 would be purchased early, Ludvik quoted (LE proposal dated 4/9/2021) lowest pricing good for 45 days (longest duration the manufacturer would agree to hold their price) to offer the Owner to best available option. Please ADD $62,675.00 to the proposal amount for Ludvik to hold the price for 150 days from the proposal date. MCC

5) What is Ludvik's plan for the 2-month shut-down at OWRF? –
See LE OWRF 2-Month Shut Down Approach .PDF attached.

6) How is Ludvik accounting for material escalation costs to hold pricing for the 150 days bids are good for and through the 2-year project duration –
Ludvik's bid is valid for acceptance and Notice to Proceed within 150 days. Ludvik is at risk for this, so additional money was included for unavoidable escalation costs. Upon Notice to Proceed, purchase orders and subcontracts will be issued to lock-in as much pricing as possible. With the electrical "hard-bid", the escalation included was minimized in the effort to win the bid. Escalation is going from bad to worse. If this had not been a "low bid" electrical project we would have recommended that more escalation cost needed to be included. If possible, we would request an additional 2.8% ($100,000) for material escalation be added.
McCarthy has carried $100k in the scope sheet for escalation.

7) Review of project documents for potential areas of issue –
At the request of McCarthy, we have conducted another review of our estimate in relation to the project documents and have identify the following items that may need additional consideration:
   a) Modifications to AWRF MCC-TH2 (Drawing E-1.91) – The upgrade of the Main-Tie-Main breakers in MCC-TH2 to 100% rated units is a substantial modification, requiring approximately 2-4 days for EATON services to complete. During this time the entirety of MCC-TH2 would be out of service. The MOPO addressing this work (Section 01012, page 10, item 1.7) however only lists "Constraints" as "TBD" and no temporary power or equipment are identified to be required or have been included. We recommend further coordination between McCarthy, the Engineer, and the Owner to determine if any temporary electrical is needed and if so, what needs to be added. If not, we recommend an appropriate allowance amount be included in McCarthy's overall GMP to cover potential temporary power and equipment.
McCarthy has carried $50k in the scope sheet for escalation.
   b) OWRF Finish Water Ductbank Replacement – Per directions to bidders, proposals were to be based on the re-use of existing conductors for the temporary construction and for the final permanent installation. The procedure would be that the existing conductors would be removed from the existing conduits, a temporary raceway system would be constructed of exposed PVC conduits which the existing conductors would be re-pulled into and utilized during the construction phase, then once the replacement "permanent" ductbank is in place, the existing conductors would again be pulled out of the temporary PVC conduits and pulled into the new "permanent" conduits for final installation. Ludvik recommends that all of this wire and cable should be replaced instead of re-used in the final installation for proper quality to the owner. This can be provided by adding $45,200 to our proposal.
If care is taken not to damage conductors, replacements should not be required. This has not been carried in the scope sheet.
   c) Additional CAD work for As-builts –
Ludvik misnderstood the expectation for as-builts being CAD vs. PDF and daily vs. weekly updates. This was not the expectation and has not been carried in the scope sheet.
In our proposal, Ludvik had included and accounted for CAD costs to meet the requirements of the bid documents for construction coordination, record drawings, and final as-builts. In the 4/14/2021 meeting, McCarthy listed "daily CAD as-built updates". As-built CAD work is included by Ludvik, based on normal updating as applicable. If "daily CAD as-built updates" are required, we request an additional $60,000 be added to our proposal for the more stringent requirement.
   d) Two Month Plant Shutdown –
With this project "hard-bid", costs were minimized by limiting the work scope required to be completed during the 2-month plant shutdown (see LE OWRF 2 month shut down approach .PDF). Ludvik's planned approach would have substantial portion of exposed and UG electrical raceways already completed prior to the actual shut- down, limiting the amount of work required to be performed during the shutdown. This plan minimized the need for overtime to very little or none being required and as discussed at the McCarthy 4/14 post bid meeting, to provide overtime as needed for the 2-month shut-down. If upon review of Ludvik's planned approach, in coordination with the overall construction schedule, McCarthy determines that scheduling would have conflicts prohibiting Ludvik's completion of our required "preliminary" work, during the 2-month shut down high work area congestion with other trades is anticipated, Owner's operations do not allow for work to be completed as noted, or that overtime will be needed for scheduling acceleration, we would request an additional $50,000 be added.
McCarthy anticipates overtime will be needed for this MOPO. $50,000 has been carried in the scope sheet.

NOTE: Please ADD 8/10 of 1% to amounts listed in Items 4 through 7 for bond, if required.

Kelvin Ng
Estimator

Ludvik 2022 OWRF 2-month plant shut-down – Planned approach for completion of work scope

Scope of work projected to be completed at OWRF during 2022 two-month plant shut-down:

1) Replacement of existing Aeration Blower room electrical equipment. (MCC-449-001/002, ATS-B1, transformer T-LPB, panel LP-B, and associated feeder circuits)
2) Replace motor starter bucket in MCC-419-001/002 for Anoxic mixers.
3) Replace branch circuits to Anoxic Basin equipment.

Pre-requisites:

Upon award -

1) Ludvik to place the order for the electrical gear submittals with emphasis on MCC-449-001/002, ATS-B1, transformer T-LPB, and panel LP-B. (Note: Ludvik will be requesting an expedited review with approval for production for this submittal).
2) Perform preliminary inspection of MCC-449-001/002 and determine current conduit and cable locations.
3) CAD layout drawings for conduit raceways at the OWRF Anoxic basin.
4) Assemble submittals for commodity materials and submit for expedited review and approval.

Work to be completed prior to shut-down -

1) Installation of Anoxic basin UG ductbanks and overhead conduits to basin field equipment, with only final connection at MCC-419-001/002 electric building and at the basin field equipment to remain to be completed.
2) Installation of new UG ductbanks and exposed conduits at the Aeration Blower Building required by the MCC replacement drawings.
3) Preliminary rough-in of panel LP-B in new location.

Shut-down (Manpower 3-crews): (Work performed after appropriate safety procedures)

Crew 1 to begin demolition of electrical equipment and non-required exposed conduits within the Aeration Blower Electric Room (i.e.: MCC-449-001/002, ATS-B1, transformer T-LPB, panel T-LP-B, and associated power, control, and signal circuits to the first connection point). Upon completion of demolition work Crew 1 to proceed with install of new electrical equipment and interior building interconnect conduits and wiring, transitioning to replacement of misc. branch feeders from Aeration Blower Electric Room.

Crew 2 to remove and replace the primary feeder conductors for MCC-449-001/002 from the Main Switchgear. Upon completion of initial task, Crew 2 to transition to removal and replacement of power, control, and signal conductors from Aeration Basin equipment back to the Aeration Blower building electric room. Once complete with Aeration Basin work, Crew 2 to then assist Crew 1 and Crew 3 with the replacement of misc. branch feeders from Aeration Blower Electric Room.

Crew 3 to disconnect Anoxic Basin equipment and remove existing exposed conduit and wiring back to MCC-419-001/002 electrical building, allowing McCarthy to remove the obsolete ductbank on the south end of the Anoxic basin. Crew 3 to install new starter buckets into MCC-419-001/002. Crew 3 would then complete the final connection of the new Anoxic Basin east ductbank to MCC-419-001/002 electric building, connect conduit at field equipment, pull conductors, and terminate. Crew 3 to then assist Crew 1 and Crew 2 with the replacement of misc. branch feeders from Aeration Blower Electric Room.

City of Chandler Water Reclamation Facility Improvements Project

GMP #2 CLARIFICATIONS AND ASSUMPTIONS

May 4th, 2021, rev. 6/21/21

General

1. Liquidated damages have been assumed to be per MAG section 108.9.
2. Transaction Privilege Tax has been included at 7.8% based on the projects being in the City of Chandler. Tax exemptions have been included.
3. No cost has been included for security guards.
4. The following are City of Chandler project costs and have not been included in the GMP:
    a. Temporary/construction/startup use and permanent utility hookup and usage costs including power, sewer, reuse water.
    b. The cost of potable water, reuse water, sewer, power, other utilities and chemical usage during construction and start-up.
    c. All permits not listed below including but not limited to Building and Environmental Permits, MCDES and ADEQ permitting fees, plan review fees and impact costs.
        i. Note the permits included in this GMP are SWPPP, dust control, construction trailers, and FAA obstruction clearance.
    d. Special Inspection Fees
    e. Asbestos testing and Hazardous Waste removal.
    f. Furnishings, Fixtures, and Equipment (FFE) and design of FFE
5. The Engineer's trailer has been included as one 24 x 60 trailer for a duration of 24 months.
6. Section 4.1.4 of the Construction Services Contract (Construction Manager at Risk) is rewritten as follows:
    "4.1.4 CM@RISK is responsible for undertaking all necessary action contemplated under the contract documents to construct the Project and ensure timely and quality completion of the Project at a cost within the Guaranteed Maximum Price (GMP)."
7. COVID-19/Force Majeure Allowance: This allowance to be used only under authorization by the City. This allowance is available if the parties agree conditions that directly arise out of or directly result from the COVID19 pandemic or other force majeure event as defined in General Conditions Article 6.2.14, which may excuse a party's performance under this clause. The party who seeks to invoke this clause must give the other party written notice 30 days after the occurrence of the event giving rise to such condition and the parties must agree in writing to the length of excused or suspended performance. An allowance has been established to cover increases in costs incurred by Contractor resulting from the COVID19 pandemic or force majeure event, which allowance may be used by Contractor subject to the prior written approval of the City, which approval shall not be unreasonably withheld.
8. Allowances have been included as defined in 15.3.2.1.
9. The rate for the G/L insurance is 0.95% and meets the requirements of 11.2.1.1.
10. Work Categories 01B-Maintenance of Plant Operations, 02B – Earthwork & Yard Piping, 03A – Concrete, 11K – Equipment Installation, and 15A – Process Mechanical, 15B- HVAC/Plumbing have been included as self-performed by McCarthy on a Fixed Price basis.
11. An allowance for 90% to 100% design reconciliation has been included.
12. This GMP has been developed assuming a 2-month complete shutdown of the Aeration/Anoxic basis and RAS/WAS pump station at OWRF.
13. The manufacture for the maintenance building is an alternate equal and the skylights includes are the roof flush mounted type not Kalwal per specifications.
14. The following work (or components of the work) have not been included.
    a. Provide and install Disc Filter #6 at the Filters at AWRF (concrete work for Filter #6 has been included in WC 03A)
    b. Clarifier #3 removal and replacement and all associated/adjacent work at OWRF.
    c. Sludge Holding Tanks, Blower Building, and all associated/adjacent sitework/yard piping/tie-ins at OWRF.

d. Removal and replacement of Aeration basin diffusers at 2 Aeration Basins at AWRF. (note 2 basins included in base GMP cost)

Demolition

1. The concrete pipe supports at the bottom of the AWRF Aeration basin are to remain in place and be reused. All existing diffuser stainless steel anchors have been included as cut flush painted over with epoxy.
2. AWRF existing Filter #1 demolition & structural modifications have not been included. Demolition limits of the structure are included from the south wall of Filter #2 to the north.
3. The removal of an average of 4 feet of grit at the OWRF anoxic/aeration has been included in the cost.
4. At the AWRF Filters, it has been assumed no work will be required to the floors after demolition of the existing underdrain system. (grout has been included where shown under the new disc filters)

Earthwork and Piping

1. Structure over-excavation and backfill has not been included.
2. CLSM backfill has been included for the portions of structures that bear on backfill zones due to differing bottom elevations. All other structure backfill locations will utilize onsite native material.
3. An allowance has not been included for additional excavation below structures where loose soil is encountered that may need remedial work with CLSM. (assumed Owner contingency can be utilized if required)
5. All liquids and solids removed from pipelines to accommodate tie-ins have been included to be returned to the plant process (no offsite hauling included).
6. BW-12" on C-1.26 alignment has been revised to tie into the existing Filters at 1212.50 and run to the existing manhole southeast of the Filters. The manhole called out as Note 1 on C-1.26 has not been included.

Structural / Concrete

1. Per Q&A #121- 4' of grout has been included at the AWRF filter backwash channel in lieu of a piping header. The piping will be cored into the channel and left open ended.
2. No patching of the underside of the reservoir has been included. Reservoir wall patch has been included to patch tie-holes and remove fins as required.
3. An allowance of $15,000 has been included for concrete wall repairs at the AWRF aeration basins for 2 basins.
4. Waterstop has not been included at the OWRF new trough deck to existing wall or deck to new wall joints.
5. At the AWRF Filter existing Effluent channel (section 1 & 2 on S-1.67), installation of drill and epoxy dowels has not been included at the existing effluent channel infill slab (none shown).
6. Stripping of vertical formwork has been included to strip at a maximum duration of 24 hours. Stripping sooner than 24 hours will be evaluated on a case by case basis.

Process Equipment and Mechanical (Work Categories 11A to 15B)

1. This GMP includes the purchase cost of two RAS Pumps as it is understood that the Owner has already purchased one pump. Installation costs have been included for all 3 pumps.
2. Process Equipment has been included with pricing based on payments to the vendors in excess of 75% of their contract value. (Values will be assigned/held for submittals, O&M's training, and startup).

Electrical

1. An IT Allowance for the Maintenance Building/Disc Filters at AWRF has not been included (this is new scope and the amount hasn't defined yet at the time of the GMP).
2. Reinforcing has been included under roadways only. (this matches previous work performed)
3. Costs have been included for Programming based on the information in the 90% documents. It is understood that this scope is changing, and costs will be updated once the 100% for construction documents are received.

Number	Date	Spec/Drawing	Question	Received by Wilson on	Wilson Response	Wilson Response Date
1	3/17/2021	15066	Specs calls out for 316L SST for the air piping. Should this be 304SS?	3/24/2021	Stainless Steel pipe material shall be 304L SS. The specification will be updated accordingly in the "For Construction" set.	3/26/2021
2	3/17/2021	S-1.21 & M-1.26	Structural plans show beams connecting blower piping supports; however, the beams will block the roadway where the supports change heights. Can the beams running acrossed the road be removed?	3/24/2021	The beams will be removed. The structural drawings will be updated in the "For Construction" set.	3/30/2021
3	3/19/2021	G-4 Sewer Note 7	Where is Note 7 applicable in the drawings? Where is asphalt T-Top required?	3/24/2021	Chandler Development Services requires this note as written. However, Section 02315 shall govern.	4/2/2021
4	3/19/2020	D-1.12	Note 12 - There is not an existing flange at this location. Can we fill with 1/2 sack slurry like note 3 or should we add a flange?	3/24/2021	The pipe shall be filled a minimum of 2' with 1/2 sack slurry and capped. Drawings will be updated accordingly in the "For Construction" set.	3/26/2021
5	3/19/2020	M-1.25	Is note 10 a MOV Butterfly valve?	3/24/2021	Note 10 refers to a manual butterfly valve. Please note that all butterfly valves for the new air piping are manual and that wherever the manual actuators are not accessible, they shall be equipped with a chain wheel. The need for chain wheels will be reflected in the "For Construction" set.	3/26/2021
6	3/19/2020	M-1.65 - M-1.68	Drawings call out BW piping as PVC but specs call out CPVC. What is correct?	3/24/2021	Piping shall be CPVC schedule 80. Drawings will be updated accordingly in the "For Construction" set.	3/26/2021
7	3/19/2020	M-1.67 & M-1.68	Note 11 on both pages contradict each other. What is correct?	3/24/2021	Solids collection manifold inside filter basin shall be 4" PVC and will be provided by the disc filter vendor. Drawings will be updated accordingly in the "For Construction" set.	3/26/2021
8	3/19/2021	M-1.64	Vendor control panels are blocking access to the walkway leading to the spiral staircases. Can any panels be moved?	3/24/2021	Drawings will be updated with panels relocated in the "For Construction" set.	3/26/2021
9	3/22/2021	I-1.61/Typ. For AWRF and OWRF	Drawings depict an EDR. However, EDR does not appear to be defined in any of the symbols and legend sheets. 1) Please define what EDR stands for. 2) Please advise if this EDR is inteded to be an actuator. 3) Please clarify if the intent is to have the LOR, OSC, and Open/Closed light indication integral to the this assumed atuator or is this EDR intended to be a stand alone control panel?	3/24/2021	1) & 2) EDR stands for Electric Drive and denotes electric actuators. This nomenclature is being used for now because it was used during the last OWRF Expansion Project. Please note that the City is in the process of standardizing their equipment tags and this nomenclature may be revised to match new City standards in the "For Construction" set. 3) Controls are integral to the actuator	3/26/2021
10	3/22/2021	I-1.61/Typ.	The drawings depict a level switch high - float. No Elevation is provided for the high level float on this sheet and no levels are provided for any other floats. The specs did not appear to have a table or schedule for elevations. Please provide elevations for all of the floats to be set at.	3/24/2021	See Instruments table as part of the Disc Filters process control descriptions in Specification 17454 Control Description.	3/26/2021
11	3/22/2021	I-1.62/Typ. For AWRF and OWRF	The filter PID sheets depict Solids Waste & Backwash Valves with 120 VAC source power for the motor. Please advise if field disconnects are required for these valves or if the intent is to have disconnecting means via the Vendor Power Panel (VPP).	3/24/2021	Disconnect switches are not required for these vendor-provided valves, and they shall be powered from the VPP.	3/26/2021
12	3/22/2021	I-1.63/Tpy. /17121	Numerous PID sheets depict pressure and vacuum gauges. Spec 17121 states to provide all pressure gauges as 6" diameter with 0-200PSI range. Please confirm the intent is to have ALL pressure and vacuum gauges with 6" dial diameter and 0-200PSI ranges. If not, please provide specific sizes and ranges for all gauges.	3/24/2021	The pressure and vacuum gauges in the filter areas are provided by the disc filter vendor.	3/26/2021
13	3/22/2021	I-1.69/Typ./11400	Numerous PID sheets depict motors but do not depict a motor horsepower size. In this specific example, sheet I-1.69 depicts sump pumps and spec 11400 does not depict a pump motor HP. Please provide all motor sizes.	3/24/2021	Motor HP ratings are not shown on P&IDs. See E-sheets for electrical power ratings. The sump pumps are not provided by the disc filter vendor and are specified in Specification 15441. Please note that Specification 11400 was not meant to be provided as part of this GMP2. Contractor shall follow 11400 provided as part of GMP1. This will be updated accordingly in the "For Construction" set.	3/26/2021
14	3/22/2021	I-3.00/16912 2.1A	Sheet I-3.00 calls out ESWT-610-002. Spec 16912 2.1 A calls out minimum 8 port ethernet switch. Please advise if 8 ports are sufficient or if a larger ethernet switch shall be provided.	3/24/2021	8 managed port Ethernet switch will be satisfactory.	3/26/2021

Number	Date	Spec/Drawing	Question	Received by Wilson on	Wilson Response	Wilson Response Date
15	3/22/2021	I-3.00/17461	Sheet I-3.00 calls out PLC-610-002. 1) Please confirm that this PLC is intended to be an M340 as defined in spec 17461. 2) Please confirm that no hot standby PLC is required to be installed. 3)Please confirm that no redundant power supplies or bridging diodes are to be installed. 3) Please advise if there are specific required clearances between PLC, power supply, IO terminal blocks & panduit, etc. that would drive the size of the enclosure to grow. 4) Please advise if a spare OIT/HMI is required.	3/24/2021	1) Yes, PLC shall be M340 per spec 17461 2) No hot standby PLC is required 3) UPS shall be provided as described in specifications 16161 and 17461 4) Provide spare space for 10% additional future I/O 5) No spare OIT is required.	3/26/2021
16	3/22/2021	I-3.01/E-3.47/16912 2.1A	Sheet I-3.01 calls out ECOM-FLT ethernet switch base. Sheet E-3.47, keyed note 28 calls out a ECOM-FLT communication cabinet. 1) Please confirm that the ethernet switch base is to be installed in this cabinet. 2) Please confirm that an 8 port switch is to be installed here as defined in spec 16912 2.1A	3/24/2021	1) Yes, install new switch in this ECOM-FILT cabinet, as described in E sheets. 2) 8 managed port Ethernet switch will be satisfactory.	3/26/2021
17	3/22/2021	I-3.02/E3.04&3.05	Sheet I-3.02, starter STR-419-006 states "typical for 4 (note 3)" which is slightly confusing, eluding to replacing starters for IMLR pumps #3, #4 & #5. Sheets E-3.04 & 3.05 just show replacing the power conductors for IMLR pumps #3, #4, & #5 if the conduits are modified. 1) Please confirm that the note on sheet I-3.02 is not referring to starters them selves and is just referring to controls conductor replacement?	3/24/2021	Confirmed, Note 3 is referring to replacement of control conductors for the 3 existing soft starter driven IMR pumps.	3/26/2021
18	3/22/2021	I-3.02	Sheet I-3.02 depicts LCP-419-006 and states typical for 4, see note 4. Please confirm that this note just means that one new LCP is being provided for pump #6 and that the controls wiring will need to be redone with the conduit reroute.	3/24/2021	Confirmed, Note 4 is referring to one new LCP for new IMLR pump 6 and replacement of control conductors to the existing pumps.	3/26/2021
19	3/22/2021	I-3.02/Typ.	Sheet I-3.02 calls out FSL-419-006, 601A & 601B. Please advise what the flow shall activate the switch at. Please review all other FSL's and update accordingly.	3/24/2021	See Specification 17454 Part 1.7.A.8. for FSL-419-006 (IMLR Pump Flow Switches) set point and Specification 17134 Part 2.1.C. for FSL-419-601A & 601B (IMLR Pump Seal Water Assembly Flow Switches) activation flow rate.	3/26/2021
20	3/22/2021	I-3.02	Sheet I-3.02 calls out a "PSW" by IMLR pump #6. PSW is not in the abbreviations on sheet I-0.00. Please advise if this is a pressure switch or if it is an instrument at all.	3/24/2021	PSW stands for pump seal water. The acronym will be updated in the "For Construction" set.	3/26/2021
21	3/22/2021	I-3.02/I-3.31/Typ.	Several flow meters are shown throughout the documents. Please provide flow ranges for each individual flow meter.	3/24/2021	MLR flow meter (FIT-419-115) shall have the same flow range as the existing MLR flow meter. RAS Pumps flow meter (FIT-449-153) and WAS Pumps flow meter (FIT-449-163) shall have the same flow range as the existing flow meters they are replacing. Thermal Mass Air Flow Meters located at Proposed Sludge Holding Tanks 3 & 4 shall have the same range as the existing Sludge Holding Tanks 1 and 2 (both have flow ranges of 0-2000 scfm). These ranges will be updated in Specification 17454 in the "For Construction" set.	3/26/2021
22	3/22/2021	E-3.39/I-3.32/M-3.34	Sheet M-3.32 depicts the WAS pumps in bold and notes 22 & 23 (23 is not actually shown) call out new WAS Pumps. Sheet E-3.39, note 8 states to de-energize, remove and re-install the WAS pumps, LCP's and disconnects. Sheet I-3.32 calls out new WAS Pumps, LCP's and disconnects. Please confirm that all WAS pumps, LCP's and disconnects are to be demolished and new ones provided.	3/24/2021	New WAS pumps and associated equipment are confirmed, E-3.39 note 8 will be edited in the "For Construction" set.	3/26/2021
23	3/22/2021	I-3.41/I-3.44/I-3.47/I-3.50	Sheets I-3.41/44/47 & 50 do not show a disconnect for the ACE/MOV. As a comparison, the AWRF filters have inlet gate disconnects. Please advise if field disconnects are required for the actuators.	3/24/2021	Yes, provide 480V, 30A, NEMA 3R rated disconnect switch for all actuators. Drawings will be updated accordingly in the "For Construction" set.	3/26/2021
24	3/22/2021	I-3.85	Sheet I-3.85 shows Sludge Transfer Gate #3 with EDR-610-300. 1) Please advise if the controls for this MOV are to be integral to the actuator or if a separate LCP is required. 2) No field disconnect is shown for this device, please advise if a field disconnect is required.	3/24/2021	1) Controls are integral to the actuator. 2) Yes, provide 480V, 30A, NEMA 3R rated disconnect switch for each actuator. Drawings will be updated accordingly in the "For Construction" set.	3/26/2021
25	3/22/2021	I-3.85/I-3.86	Sheet I-3.85/3.86 calls out ZSO-610-320/420 as an open indication for the 18" plug valve. Please provide details on how this switch is to be installed with this manually operated valve.	3/24/2021	Integral position switches are typically provided by the valve manufacturer. Installation shall be coordinated with the valve manufacturer selected.	3/26/2021
27	3/22/2021	S-3.43 & M-3.44	Location of the spiral stairs for the OWRF filter basins are shown in two different locations on the mechanical and structural drawings. Which is correct?	3/24/2021	The Mechanical Drawings show the correct location. Structural Drawings will be corrected in the "For Construction" set.	3/26/2021

Number	Date	Spec/Drawing	Question	Received by Wilson on	Wilson Response	Wilson Response Date
28	3/23/2021	A-1.82	Please confirm Maintenance Building Equipment provided and installed by the owner? Refering to the Workbenches, Welding booth, Milling Machine, Welding Equipment Storage, Lathe, Industrial Press, Drill Press and Blasting Cabinet shown on drawing A-1.82 in workshop space 112 between columns 2&3.	3/24/2021	Equipment/machinery in shop space will be provided and installed by the owner.	3/26/2021
29	3/23/2021	A-1.82 & A-1.88	Please clarify the wall type of the south wall for Corridor 106. On Drawing A-1.82 it shows a dashed line with dots and could not find this on a detail schedule or general key drawing. On drawing A-1.88 the finish schedule calls out a gypsum board finish for that wall. This type of wall type as shown on A-1.82 is also used for a wall type shown @ column line 4 across and column line 3.	3/24/2021	The dashed lines at the south side of Corridor 106, as well as the dashed lines along Grid 2, 3, and 4, are indicating the main steel framing lines above. They are not walls. The dash-dot lines are the grid lines. There is no wall on the south side of 106, although the wall that runs all along Grid 5 continues above the opening into the corridor. See also elevation on Section B-B.	3/26/2021
30	3/23/2021	A-1.86	Please clarify the material type for the Liner Panel as called out on drawing A-1.86	3/24/2021	Liner panels are corrugated metal panels suppled with the metal building. Manufacturer's standard liner panel is acceptable.	3/26/2021
31	3/23/2021	A-1.92	Please confirm that the Furniture shown on drawing A-1.92 owner furnished and owner installed? If the Contractor is to furnish please provide specifications for these items.	3/24/2021	Office furniture, lockers, ice machine, refrigerator, etc. will be provided by the owner. This will be reflected in the "For Construction" set.	3/31/2021
32	3/23/2021	11335	Section 2.18 of the Secondary Clarifier Spec calls out the requirements for painting and surfact prep of non-submerged steel. Please confirm requirements of submerged steel.	3/24/2021	All submerged materials shall be 304SS or FRP and do not get coated. All other material (other than aluminum) shall be coated per Specification 09900.	3/26/2021
33	3/24/2021	A-1.84/5 & A-3.84/5	Please provide specification requirements for the Eagle Eye Bird Control Devices and the Pro-Peller bird scare devices for both the new Blower Building and the Maintenance Building.	3/24/2021	Products supplied by Bird Barrier America, Inc. of Carson, CA (www.birdbarrier.com). "Eagle Eye": silver color. Provide wind powered kit model EE-1WS, mounting pole EE-XP6. "Pro-Peller": Silver color, model EE-PPS.	3/26/2021
34	3/24/2021		Please confirm that the following items are to be priced as alternates for the GMP: Clarifier 3, Sludge Holding Tank and Blower Bldg, 2 of the Aeration Basins removal and installation, and the installation of 6th Disc Filter	3/24/2021	Confirmed: OWRF Clarifier 3, OWRF SHTs 3&4 and Blower Building (and associated equipment, roadways, etc.), two of the AWRF Aeration Basins Aeration Diffusers replacement, and the installation of the 6th disc filter at AWRF shall be priced as alternates.	3/26/2021
35	3/24/2021	17310	The prob listed in specification section 17310 is no longer manufactured please provide an updated model number.	3/24/2021	Provide Hach Company, LDO Model 2 Dissolved Oxygen Probe. The updated specification is attached to the email accompanying these responses (sent on 2021.03.26)	3/26/2021
36	3/24/2021	15107	Please advise is specification section 15107 is still applicable? If so please provide	3/24/2021	15107 is still applicable and is attached to the email accompanying these responses (sent on 2021.03.26)	3/26/2021
37	3/24/2021	9921	Please advise is specification section 09921 is still applicable? If so please provide	3/24/2021	09921 is still applicable and is attached to the email accompanying these responses (sent on 2021.03.26)	3/26/2021
38	3/24/2021	15732	Specification sections 15732 and 15781 seem to be labeled the same please advise which one is applicable to the project.	3/24/2021	Specification Section 15781 shall be used for this Project, please disregard Section 15732. This will be updated in the "For Construction" set.	3/26/2021
39	3/24/2021	S-1/S-5	On Drawing S-5 for the Pre-engineered metal building notes under 2.02.B refers to the superimposed dead load to be 20 PSF, while the rest of the items refer back to the structural design parameters located on S-1. When looking at S-1 the superimposed dead load 2.01.A is called out to be 25 PSF. Please confirm while loading to be used.	3/24/2021	The note on S-5 under "Pre-Engineered Metal Building" pertains to the AWRF Maintenance Building while the note on S-1 pertains to the OWRF Blower Building.	3/26/2021
40	3/24/2021	A-1.83	Please confirm that the Bridge Crane rails in the maintenance building is to span 60 Lf from grid 2 to 5.	3/24/2021	Confirmed, Grids 2 to 5, B to D. See crane rails indicated on Reflected Ceiling Plan.	3/26/2021
41	3/24/2021	M-3.65 & S-3.60	Note 6 on sheet M-3.65 says to relocate shade canopy from MBR CCB. A callout on S-3.60 says to salvage the existing canopy at the CCB. Please confirm if the canopy will be relocated or salvaged.	3/24/2021	The Southeast canopy at the MBR CCB will be relocated to the Reservoir Inlet Channel. No work will be done to any of the other canopies on the MBR CCB. Drawing notes will be updated in the "For Construction" set.	3/26/2021

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42	3/24/2021	M-1.27	Does the elbow in note 6 need additonal supports?	3/24/2021	Yes a saddle type support shall be used for this application. Please refer detail 202 sheet M-7.02 for specifications. Drawings will be updated in the "For Construction" set.	3/26/2021
43	3/24/2021	M-3.11	Will the 16" Plug Valve againt the wall work in the positioning as see on the called out?	3/24/2021	Position will be revised for the "For Construction" set.	3/26/2021
44	3/24/2021	M-3.67	On Sheet M 3.67 please advise on the type of pipe in Note 8?	3/24/2021	Pipe shall be CPVC Schedule 80 and will be updated in the "For Construction" set.	3/26/2021
45	3/24/2021	G-4 Gen Note 11	Note 11 states "all backfill shall be half-sack CLSM". Where is this actually required?	3/29/2021	Chandler Development Services requires this note as written. However, Section 02315 shall govern.	4/2/2021
46	3/24/2021	G-4 Gen Note 11	Note 11 states "surface replacement shall be in accordance with MAG Std Dtl 200 T-Top". Where is this actually required?	3/29/2021	See response to Question #45	4/2/2021
47	3/24/2021	G-4 Sewer Note 7	Note 7 states "pipe backfill shall be 1/2 sack CLSM". Where is this actually required?	3/29/2021	See response to Question #3	4/2/2021
48	3/24/2021	C-1.22	Note 11 on C-1.22 states new concrete pipe supports, see structural sheets for details. C-1.22 only shows 5 ea of these similar pipe supports called out. Per S-1.21 it references Detail 1 on S-15 for pipe supports, and calls out 20' max spacing. Please confirm spacing on the Dtl 1 S-15 pipe supports, as well as how much CLSM is required underneath each foundation shown on the detail.	3/29/2021	New pipe supports for the proposed 42" and existing 30" air piping on the west side of the Aeration Basins shall be per structural Details 1 &2 on Sheet S-15, every 20' O.C. CLSM backfilling is not required if native soil is recompacted or if new engineered fill is placed as described in Supplement No. 3 of the Geotechnical Report (dated March 17, 2021).	4/2/2021
49	3/25/2021	E-3.33/3.34 & E-2.05, 3.30, 3.31	The conduit block diagrams on sheets E-3.33 & 3.34 depict conduits LP419-05, LP419-07, A479-100A, A479-200A, & A479-300A. Said conduits do not state "in existing", suggesting that these are new conduits going from LP-419-001 & PCP-449-001 to Secondary Clarifiers #1, #2 and #3. However, sheets E-2.05, 3.30 & 3.31 do not depict any new ductbank going to the Secondary Clarifiers. 1) Please adivise if new ductbanks need to be installed to Secondary Clarifiers #1, #2 and #3.	3/29/2021	Conduits LP419-05, LP419-07 were existing from existing LP-419-001 TO PPB-479-300. Refer to Note 3 & 5 on sheet E-3.33 (LP-419-001 is in MCC-419-001/002) Conduits A479-100A, A479-200A & A479-300A will be new conduits from new Clarifier MCPs to the existing PCP-449-001. Parts of those conduits (between the clarifier and the Blower Building) will need to be buried. This will be reflected in the "For Construction" set.	3/31/2021
50	3/25/2021	E-3.46, 3.51-3.56	Sheet E-3.46 depicts new ductbank coming out of EHH-10. However, the conduit block diagrams on sheets E-3.51 - 3.56 do not appear to show anything passing through EHH-10. 1) Please clarify the intention of a new ductbank branching from EHH-10 and update conduit block diagrams accordingly to show loads passing through the hand hole.	3/29/2021	Refer to sheet 3.56, conduits C539-101, C539-201, C539-301, C539-401, A539-104, A539-204, A539-304 and A539-404 should be routed from existing PCP-539-002 via existing conduits and existing EHH-12, EHH-10 and new conduits/ductbank from existing EHH-10 to new EMH-10B and Control Pullboxes/Analog Pullboxes. Sheet E-3.56 will be updated in the "For Construction" set.	3/31/2021
51	3/25/2021	E-3.81 & 3.82	Sheet E-3.81 depicts the new MCC bucket starters/breakers as being a 500AT/600AF for MCC-610-001 and 600AT/800AF for MCC-610-002. Note 2 on sheet E-3.82 states to furnish new 500AT/600AF breakers. 1) Please confirm which sized breakers are required.	3/29/2021	Furnish 500AT/600AF breakers. Sheet E-3.81 will be updated (change breaker 7J from 600AT/800AF to 500AT/600AF) in the "For Construction" set.	3/31/2021
52	3/25/2021	D-3.30	Keynote 9. Where is Slurry required in the pipe.	3/29/2021	Slurry is required in the 24" Dia Inlet and Outlet pipes in the West Reservoir Inlet/Outlet Chamber. Slurry will extend into the pipes 2'-0". The 2'-0" of slurry will also be added to the inlet and outlet pipe where proposed blind flanges are shown in the West Valve Chamber. This will be updated in the "For Construction" set.	3/31/2021
53	3/25/20201	C-3.26	Keynote 3. Per Concrecrete Encasement Detail 102 on C-7.01 & Profile A on C-3.92. The concrete pipe encasement will be sticking out of the bottom of the retention basin at the southeast of the reservior. Is this the intended design?	3/29/2021	Concrete Pipe Encasement shall be per typical detail 104 on sheet C-7.01 wherever there is less than 4' of cover. Pipe profiles on Sheet C-3.92 are mislabeled: Profile A is for OVF-42-DIP and Profile B is for INF-48-DIP and proposed grades are missing. This will be updated in the "For Construction" set.	3/31/2021

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54	3/25/2021	C-1.24	Sheet C-1.24 shows a pipe support structure in the middle of roadway for 30" air line to Blower Bldg. Per S-1.21, M-1.22 and M-1.24 this pipe support is not shown in the roadway. Please confirm that pipe support structure will not be placed in the roadway.	3/29/2021	Please verify if the comment is meant for the 42-inch air pipe instead of 30-inch. There should not be a pipe support for the 42-inch air pipe in the middle of the roadway. Sheet C-1.24 shall be updated to show the pipe supports as shown on structural sheet S-1.21 changes in the "For Construction" drawings set.	3/31/2021
55	3/25/2021	Spec 16062	A lightning protection system is specified in spec 16062. The drawings and said spec do not appear to have details about which structures are required to have lightning protection. Please advise what specific structures require lightning protection.	3/29/2021	Lighting protection shall be installed for the new Sludge Holding Tanks (SHT) and new SHT Blower building. Specification 16062 will be updated in the "For Construction" set.	3/31/2021
56	3/25/2021	Spec 16111 2.3 G	Is PVC coated conduit by Ocal an acceptable equal?	3/29/2021	Yes, PVC coated conduit by OCAL is acceptable.	3/31/2021
57	3/25/2021	Spec 16111 3.1D	Section 16111-3.1.D states “Conduit runs in buildings and structures to be exposed except as specifically noted or accepted by the Engineer”. As there are several new structures and buildings on this project, will embedding of branch power, control, and communications conduits be acceptable, this will limit congestion and minimize costs associated with overhead exposed conduit runs? Examples for conduit embedment would be for receptacle and communication conduits at the AWRF Maintenance building; instrumentation and lighting conduits at the OWRF Finish Water Reservoir and on the upper deck of the OWRF Sludge Holding Tank; receptacles, communication, and panel interconnect conduits at the OWRF Blower/Electric Building.	3/29/2021	Embedding the new conduit runs in new buildings and new structures is acceptable.	3/31/2021
58	3/25/2021	Spec 16111 3.1N	Conduit Section 16111-3.1.N states that unless approved in advance by the Engineer, all UG to above ground conduits are to have GRC elbows and risers. As Section 16137-3.1.H describes specific instances that underground conduit may terminate with PVC coated elbows and RNC risers and bell ends, the situations described are understood to be pre-approvedby the Engineer. If this is not correct, identify the specific locations were installation in accordance with Section 16137-3.1.H will be acceptable.	3/29/2021	For this project 16137-3.1.H is only applicable for conduits terminating at MCC main breaker sections, and floor mounted 480V panelboards acting as a service entrance to a building/room. For all other equipment, for eg. Filters VPPs, provide per 16111 - 3.1.N	3/31/2021
59	3/25/2021	Spec 05051, 16050, 16190	There is a discrepancy regarding materials for electrical supports and hardware. Sections 05051 and 16050 identifies all hardware to be 316 stainless steel, and expansion anchors not allowed. Section 16190-2.3 and 2.4 however allows for zinc plated supports, hardware, and acceptance of lead expansion anchors. Please advise which is correct.	3/29/2021	Per Specification 16010 section 1.4.C, provide materials which meet the more stringent requirements in cases of conflicts.	3/31/2021
60	3/25/2021	Spec 11217	Spec section 11217 calls out (3) self priming sample pumps at the OWRF Reclaimed Water Reservoir. These pumps are not shown in the mechanical or instrumentation drawings. Please confirm location and quantity desired.	3/29/2021	There will be one (1) self priming sample pump at the OWRF Reclaimed Water Reservoir. Pump is located under the canopy on top of the Reservoir Inlet Chamber and is shown on sheet I-3.61 as SAM-530-001. Exact number and Location shall be provided in the "For Construction" set.	3/31/2021
61	3/25/2021	E-3.87	Key note 11 identifies a "Security UPS". Please advise if there is a security system or devices that this UPS will feed.	3/29/2021	Please ignore. Security UPS/System will be deleted in the "For Construction" set.	3/31/2021
62	3/25/2021	E-3.27	Drawing E-3.27 Keyed Notes 23 through 30 indicate the Secondary Clarifier #3 Floc Mixers 1 through 4 to be removed however none of the demolition single-line or panel schedule drawings issued show these mixers. Where are these mixers are currently fed from?	3/29/2021	The Floc mixers are powered from the Clarifier #3 control panel located on the Clarifier basin.	3/31/2021
63	3/25/2021	D-3.11	Keynote 13 & 14. Is the intent to remove and cap and abandon these NPW / Air Lines for the structure expansion and have no reroute.	3/29/2021	Yes, these two pipes are to be abandoned after they have been demo'd and capped.	3/31/2021
64	3/25/2021	E-1.21	Drawing E-1.21 note 4 states for damaged conduit sections in existing ductbanks to be removed and disposed. As the condition of existing UG conduits will not be known until the removal of the existing conductors is attempted, the exact amount of excavation and ductbank removal cannot be accurately accounted for. 1) Are there any additional details about the extent of the damage? 2) Please elaborate on the intention of the demolition of this ductbank and what extents the demo should go to.	3/29/2021	Abandon existing underground conduit sections. Design notes will be modified in the "For Construction" set.	3/31/2021

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65	3/25/2021	E-1.94	Maintenance building drawing E-1.94 shows a fixture designated “EM” that appears to depict a “2-Head” emergency light fixture however the fixture schedule on drawing E-0.05 does not contain a description for a fixture of this type. As this fixture is located adjacent to an exit fixture which per the fixture schedule is to have “twin LED remote head emergency lights” it is assumed that the “EM” fixture was drawn in error. If this is not correct, provide a specification (mfg. & model) for the “EM” fixture type.	3/29/2021	Ignore EM fixture shown on E-1.94. They will be removed in the "For Construction" set.	3/31/2021
66	3/25/2021	E-0.05, E-1.94	The light Fixture Schedule on drawing E-0.05 list fixture Type “E” as a 2’x4’ troffer. Several fixtures on drawing E-1.94 are designated as Type “E” however they do not share the same dimensions, with some appearing to be 2’x2’. As no 2’x2’ fixtures are identified on the Fixture Schedule it is assumed that they should be provided similar to the 2’x4’ Type ”E” fixture described. If this is not correct, provide a specification (mfg. & model) for the 2’x2’ fixture type.	3/29/2021	Provide both 2' x 2' and 2' x 4' troffer fixtures of the same model. Fixture schedule shall be modified in the "For Construction" set.	3/31/2021
67	3/25/2021	D-3.01	Drawing D-3.01 Keyed Note 3 indicates to relocate light pole and to see Electrical sheets for details. The Electrical drawings however do not indicate any work regarding any existing light poles. Where are the light poles to be relocated to and what size conduit and conductors are to be provided?	3/29/2021	They will be kept in generally the same area as they are currently located, moved slightly as to avoid structures and equipment. Specific relocation/conduits of these light poles will be added to the "For Construction" set.	3/31/2021
68	3/25/2021	E-0.03, E-1.65, E-1.67 through E-1.72, and E-3.86	The drawing scale on sheet E-0.03, E-1.65, E-1.67 through E-1.72, and E-3.86 is not correct. Please revise the drawing scale so that the correct quantities may be included.	3/29/2021	Scale was revised and those drawings are attached to the responses (sent 3/31/2021)	3/31/2021
69	3/25/2021	E-7.03 & 16117	There are some discrepancies regarding the manhole configurations. Per Detail 333 on drawing E-7.03 manholes are to have minimum interior dimensions of 3’-11” x 3’-11” x 4’-1” and a 3’ x 3’ hinged steel hatch. Section 16117 however specifies a minimum interior dimension of 48” x 66” x 54” and a 30” diameter cast-iron frame and cover. Which is correct?	3/29/2021	Furnish electrical manhole per section 16117. Detail 333 will be revised to match the min dimensions shown in 16117 in the "For Construction" set.	3/31/2021
70	3/25/2021	13300-2.3 & 2.5B	The Pre-Engineered Metal Building spec. calls for installed thermal resistance of R-30 Roof & R-19 Walls. Please verify these assumption for insulation requirements are correct. PBR screw down Roof: R-11 unfaced over purlins & R-19 WMP-VR facing between the purlins (no thermal blocks on screw down roofs) PBR screw down walls: Thermal tape on O/S of wall girts, R-19 min with WMP-VR facing between girts. The spec sheet says "Installed R Value" We are installing an R30 and R19 (as assumed above) or does that mean the expectation is the overall performance of the system after install to be R30 and R19? (Massive difference with the latter one typically requiring a standing seam roof with thermal blocks in the roof and rigid insulation board in the walls).	3/29/2021	The proposed metal building walls/ceilings insulation materials and methods are acceptable. Because the space is evaporatively cooled, it is exempt from the IECC, and so “installed” R-values at the specified amounts is not required.	3/31/2021
71	3/25/2021	Specification section 13300	Please confirm the entire mezzanine loading is to be designed for heavy storage (250 PSF live load)?	3/29/2021	Architectural specifications require that the building withstand code-required loads. The mezzanine is used for storage.	3/31/2021
72	3/25/2021	Specification section 13300	Will an addition of a Portal Frame be acceptable? Per Nucor this will be required and can be placed at a few different locations along Line B between columns 4&5 or 3&4 or 2&3.	3/29/2021	Additional structural elements may be proposed and are generally acceptable, as required to meet code-required loading capacities; however, added structural elements are subject to approval with respect to complying with owner’s functional and spatial requirements within the building. The location at Grid B from 4 to 5 would probably interfere with the mezzanine stairs. The other two locations will be reviewed with the Owner and be reflected in the "For Construction" set.	3/31/2021
73	3/25/2021	Specification section 13300	Please confirm no protective coatings are required for the Primary or Secondary structural steel fo the Pre-Engineered Maintenance Building?	3/29/2021	All framing members are specified to have shop prime coating. See 13300 2.10 A.	3/31/2021

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74	3/26/2021	17451	Section 17451 Distributed Control System specifies Foxboro as the sole source provider for the DCS Equipment and Programming. The Schneider Electric Proposal team (Foxboro) has stated that they do not have sufficient information to generate a proposal at this time and have requested the following information, please see the comments below: a) Provide the network topography of the new and existing DCS equipment, identify what equipment is existing Foxboro. b) Please provide a master list of new Input / Output requirements to be connected to the existing Foxboro DCS. c) Identify what field device interface are needs (Protocols- network type) to integrate new devices. d) Identify the number and details of new HMI displays needed. e) What are the control processor current capabilities, to evaluate for expansion. f) What are the current Network capabilities. g) What control algorithms required.	3/29/2021	All new signals will be programmed into SCADA (Wonderware) through Ethernet over Fiber optic. No connections from new Filters equipment will be made to existing DCS cabinets. The For Construction design package will show revised communication network diagrams.	4/2/2021
75	3/26/2021	C-3.46	Please confirm that the intent is to demo and repave this area with new asphalt/curb/gutter	3/29/2021	Yes, that is correct. A Partial Site Plan for this area will be included in the "For Construction" set.	3/31/2021
76	3/26/2021	S-3.02 Section 2	Please confirm if CLSM will be needed under and around new columns or if backfill will be acceptable.	3/29/2021	Please clarify this question as no digging should be required below the columns because they will be anchored to the existing Aeration Basin structure footing. CMAR may elect to use CLSM if compaction of backfill in the area above the footing is not possible due to space constraints.	3/31/2021
77	3/26/2021	M-3.86	Keynotes 3 & 4 Is this manual or a electric motor actuated valve? If it is manual operated. Is it buried nut operator or above ground hand wheel operator w/ torque tube? Is the plug valve open position switch electrically controlled or manual/analog?	3/29/2021	The two 18" Plug Valves on each Sludge Holding Tanks drain pipes are manual operated with a hand wheel located 42" above grade and a torque tube. The open position switch is electrically controlled, see sheets I-3.85 & I-3.86. Please note that the equipment number for the position switch on sheet I-3.85 will be changed to "320" as read on the PCIS signal location in the "For Construction" set.	3/31/2021
78	3/26/2021	E-3.05, 3.24 & 3.25. Spec 11335 2.5 B 3.	Spec 11335 and sheets E-3.05, 3.24 & 3.25 call out VFD's to be mounted in the secondary clarifier motor control panels. Typically clarifier drive motors are on FVNR starters. 1) Please advise if VFD's are to be installed in lieu of FVNR starters. 2) If the intention is to have VFD's installed in the motor control panels, please provide air conditioning requirements to keep the MCP's housing the VFD's cool.	3/29/2021	1) Provide VFDs per design 2) VFDs were sized to minimize heating. See specification 16161 Control Panels for requirements of panel HVAC.	3/31/2021
79	3/26/2021	E-1.78 - 1.80 and I-1.79	Sheet I-1.79 shows start/stop and status for the disc filter sump pumps to admin via I/O ADM 2 and CMS. Sheets E-1.78 through 1.80 depict the motor control panels for the filter sump pumps (MCP-SP-1, 2 & 3) and do not show any conduit or conductors leaving the MCP's to get to admin. 1) Please advise if control and status are to go to SCADA in admin. 2) If so, please advise if existing ductbank is to be used or if new ductbank is to be installed to accomplish this. 3) Can ethernet cards be installed in the MCP's to get comms to admin via the new fiber optic cabling or is this required to be hardwired #14 conductors?	3/29/2021	1) Sump Pump statuses are required to go to SCADA. 2) Design will be modified to have sump pump signals report to Filter vendor PLCs 3) Sump pump signals will also travel to SCADA over fiber optic cable.	4/2/2021
80	3/25/2021	D-1.17, S-1.61-S1.62 & S -1.68	Per note 5 on D-1.17 the existing wall between filters 2 & 3 requires an opening length and height of 12'x8'. The structural drawings show the length and height of these openings to be 12'x10' between filters 2-3, 4-5, & 6-7. Please confirm which opening size is correct.	4/1/2021	Dimensions shown on Structural Sheets are correct (12'x10' wall openings). This will be updated in the "For Construction" set.	4/2/2021
81	3/25/2021	M-3.67	Please provide structural details for the corrugated steel structure located at the OWRF Reserviors.	4/1/2021	The corrugated steel structure is the Southeast canopy from the MBR CCB which is being relocated above the Reservoir Inlet Channel. A note will be added in the "For Construction" set to clarify.	4/2/2021
82	3/25/2021	Specification section 01300	Spec section 01300-1.4.B states the Engineer will return shop drawings with 35 days of receipt. This duration is significantly higher than most projects and McCarthy would request that the submittal review time frame be changed to 14 days.	4/1/2021	All recent projects for the City of Chandler (OWRF & AWRF) have had the same review timeframe specified (30 to 35 days) in the contract documents. Timeframe specified shall remain the same. However, like any previous projects, Wilson will strive to return shop drawings in a timely manner and will expedite reviews upon request.	4/2/2021

Number	Date	Spec/Drawing	Question	Received by Wilson on	Wilson Response	Wilson Response Date
83	3/25/2021	Spec 09920	Specification section 09920 refers to sewer coatings please advise on where exactly this will be required. If the manhole is existing then please advise on the existing coating in order to match.	4/1/2021	There are two new manholes that will require coating. Refer to Sheet C-1.26 and C-3.25. There is one connection to an existing manhole that will require protective coating repair, see Sheet C-1.22. Records show that coating of this existing manhole is T-Lock except for the grade rings and the base which are coated with Sauereisen 210 (CMAR to field verify).	4/2/2021
84	3/25/2021	Spec 09920	Please advise if Tnemec can be noted as an alternative coat spec 3.5. See the back up documentation provided.	4/1/2021	Please refer to the City of Chandler List o Approved Products (see attached to email sent 2021.04.02). Tnemec is not listed and therefore is not acceptable. Any of the coating systems listed will be acceptable. Specification 09920 will be updated in the "For Construction" set.	4/2/2021
85	3/29/2021	Spec 16161	Spec 16161 1.4 B lists approved control panel manufacturers. 1) Please remove Zak Controls from the list. 2) Please advise if Prime Controls may be added as an approved panel manufacturer.	4/1/2021	1) Zak Controls will be retained. 2) Prime Controls will be added to For Construction specifications.	4/2/2021
86	3/29/2021	C-3.41 - C-3.46	Please confirm that the correct scale is 1"=40'0" and not 1"=20' as currently shown.	4/1/2021	These sheets were printed on 11"x17" PDF instead of 22"x34" PDF. The correct scale is 1"=20'. Scale off scale provided in drawing (lower right). This will be corrected in the "For Construction" set.	4/2/2021
87	3/29/2021	M-1.22	Will there need to be sliding supports for A line added to adjust for movement of the pipe?	4/1/2021	Sliding/fixed supports will be evaluated and shown in the "For Construction" set. For cost estimation, please use the attached saddle detail that will be required on top of the pipe support type shown on S-1.22.	4/2/2021
88	3/30/2021	S-5	The General Structural Notes on section S-5 calls out a 20 psf superimposed dead load to be applied to the building. If this is applied to the pre-engineered maintenance building then the roof framing per Nucor erector would need to be changed to bar joists and have a standing seam roof system instead of a screw down PBR roof. Please clarify if this is correct or if that 20 PSF would not apply for this building.	4/1/2021	Superimposed dead load (Pre-Engineered Metal Building Note 2.02.B on Sheet S-5) will changed to 10psf in the "For Construction" set.	4/2/2021
89	3/29/2021	S-3.61	The diameter of the columns in the reservoir are 27 inches. This is not a standard size for sonotube, but the next size up is 30 inches. Please confirm the column sizes may be increased to a 30 inch diameter column in lieu of 27 inches as shown.	4/1/2021	CMAR may elect to pour 30" columns but at no cost increase to the project.	4/2/2021
90	3/30/2021	I-3.31	Is the ball valve in line with the 16" RAS line or is that part of a flushing connection?	4/1/2021	The ball valve is part of the flushing connection. There is a 2-inch pvc ball valve and a 2-inch SST ball valve that are used in the drain line. This will be revised in the "For Construction" set.	4/2/2021
91	3/30/2021	M-3.04	The drawing of the areation basins show metal pipe supports on the west side of the center walkway but not on the east side. Will supports be required at all sides at areation basins 2A, 2B, and 2C?	4/1/2021	The pipe support as detailed in the Structural sheets are required at all sides of all aeration basins (1A, 1B, 1C, 2A, 2B, 2C). The only exception is the north side of aeration basin 2A where Detail 405 on Sheet M-7.04 is called out.	4/2/2021
92	3/31/2021	Spec 14200 / A-1.83	Specification section 14200 calls out for the crane to span 25 ft while the drawings scale out at 44'-4" please confirm which one is correct.	4/1/2021	Section 14200, paragraph 2.02 B. 3 should read: “Span: approximately 44’-4”, length as required to span between crane rails indicated on plans.” This will be updated in the "For Construction" set.	4/2/2021
93	3/30/2021	A-1.82	On A-1.82 grid line 5-A on the exterior of the building an air compressor is shown in this location. While on H-1.83 the evap cooler and heat pump unit is shown in the same location. Sheet P-1.83 shows the air compressor located at 2-A. Please advice on which one is correct.	4/1/2021	HVAC drawings shall govern for the location of the evap cooler, heat pump and air compressor. Architectural drawings will be revised accordingly in the "For Construction" set.	4/2/2021

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94	3/31/2021	E-3.36 & E-2.02	The Conduit Block Diagram on E-3.35 indicates that the main feeder conductors for MCC-449-001/002 (conduits P449-101 & P449-200) are to be replaced. It is indicated that these conductors are to be routed through existing conduits to the “Existing Main Switchgear” however the location of the Main Switchgear is not identified. Please identify the specific location and routing path to the “Existing Main Switchgear” so that accurate cable footages can be included by all bidders.	4/1/2021	Main Switchgear location will be identified in the "For Construction" drawings. Contractor to field verify routing of wires to MCC-449-001 and MCC-449-002.	4/2/2021
95	3/31/2021	E-1.96	Drawing E-1.96 Conduit Block Diagram indicates conduits C2FA and C2FB to contain “3-#3/0 AWG & #3 GND” however, the panel being fed, LP-MT-100, is indicated to be a “3-Phase, 4-Wire”. Should the conductors be changed to “4-#3/0 AWG & #3 GND” or should panel LP-MT-100 be changed to “3-Phase, 3-Wire”?	4/1/2021	LP-MT-100 will be 3 Ph 4 Wire, Wire quantities will be 2 sets of 4-#3/0 AWG & #3 GND. Sheet E-1.96 will be modified in the "For Construction" set.	4/2/2021
96	3/31/2021	E-1.96	The Conduit Block Diagram on drawing E-1.96 indicates 1” conduits to be routed from the ECOM-MT panel to multiple Ethernet and Telephone port locations. As no conductors are identified to be provided, it is understood that the cabling and Ethernet and Telephone jacks will be furnished and installed by others (Owner’s communications contractor?). If this is not correct and cable and jacks are to be furnished by the Electrical Contractor, provide specifications for the cabling and jacks to be provided.	4/1/2021	Ethernet and telephone jacks and wiring shall be in the Contractor's scope. Final details of wiring will be provided in the "For Construction" set.	4/2/2021
97	3/31/2021	E-1.93 & 1.97	The Conduit Block Diagram on drawing E-1.97 shows conduit “PP1-02” to be routed to “Grinder Bench” however a location for this “Grinder Bench” does not appear to be identified on sheet E-1.93. Please advise where the bench grinder shall be located to estimate conduit and conductor quantities.	4/1/2021	Install conduit from the lighting panel to nearest pull box and label it for a future Grinder bench. Dedicate circuit shown on lighting panel with a label. Wires need not be installed.	4/2/2021
98	3/31/2021	E-1.92 & 1.97	The Conduit Block Diagram on drawing E-1.97 shows conduit “PP1-24” and “PP1-26” to route to “UPS” units (per panel schedule PP-MT-100 these UPS units are “future”). Where are these “future UPS” units to be located?	4/1/2021	These circuits are to be reserved for Future UPS inside ECOM-MT-100.	4/2/2021
99	3/31/2021	E-1.94	The light fixture layout drawing on E-1.94 for the Maintenance Building, appears to be missing a few local light switches for individual areas (i.e.: Tool storage Area 113, Men’s and Women’s locker rooms and Restrooms, Office 104 and 105, Breakroom, Area 115 Open Storage). Should any additional local light switches be added? If yes, what specific locations and quantities?	4/1/2021	Provide hand switches for each Locker room and Restroom. Sheet E-1.94 will be modified in the "For Construction" set	4/2/2021
100	3/31/2021	A-1.86	Architectural drawing A-1.86 appears to show the type “A” and “F” fixtures (35 qty) located within the Maintenance Building (including mezzanine area) to be suspended. Per Section 16500-3.1.C suspended fixtures are to be connected by a length of “SO” cord to an individual twist-lock receptacle, please confirm this requirement will be applicable to all 35 fixtures	4/1/2021	Yes, provide per specification 16500-3.1.C	4/2/2021
101	3/31/2021	S-3.44	Please confirm that the beam size and over hang length for the monorail girder at Ocotillo WRF	4/1/2021	The over hang length for the monorail girder shall be 10'-0" beyond the north support columns. The beam will be sized by the monorail manufacturer. These requirements will be incorporated in the "For Construction" set.	4/2/2021
102	3/31/2021	E-3.24, E-3.25, E-3.37, I-3.32	There is a discrepancy in the Single-Line drawing for MCC-449-001/002 regarding the WAS pumps. Per the Conduit Block Diagram on drawing E-3.37 and P&ID drawing I-3.32, WAS Pumps PMP-449-165 and PMP-449-166 are to be fed from motor starter within MCC-449-001/002.Single-line drawing E-3.24 & E-3.25 however do not indicate a motor starter in the MCC for these pumps as they are connected straight to feeder breakers within the MCC.	4/1/2021	WAS pump shall be driven by a NEMA Size 2 Starter inside the MCC. Sheets E-3.24 and e-3.25 will be edited in the "For Construction" set.	4/2/2021
103	3/31/2021	E-3.20, E-3.24, E-3.25	The Aeration Blower Schematic on drawing E-3.20 is indicated to be typical for blower BLR-449-901,BLR-449-902, and BLR-449-903, and does not show a requirement for a “bypass contactor”. Single-Line drawing E-3.25 for blowers BLR-449-902, and BLR-449-903 however indicate “SSS/BC”, implying bypass contactors. Note Single-Line drawing E-3.24 for blower BLR-449-901 does not indicate a bypass contactor. Are bypass contactors required for Aeration Tank Blowers BLR-449-902, and BLR-449-903? If yes, should a bypass contactor also be added for blower BLR-449-901 (drawing E-3.24)?	4/1/2021	The soft starter modules shall be provided with an integral shorting contactor per specification 16482 section 2.7. A physical bypass contactor is not required for these blowers. Sheet E-2.5 will be edited in the "For Construction" set.	4/2/2021
104	3/31/2021	E-3.04	On the Single-Line for Internal Mixed Liquor Pump PMP-419-006 (drawing E-3.04) there is a capacitor shown on the “load” side of disconnect switch DSC-419-006 however a size (KVAR) was not identified. What size capacitor is to be included for the bid?	4/1/2021	Coordinate with manufacturer for kVAR rating of Capacitors for these pumps, provide per their recommendation.	4/2/2021

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105	3/31/2021	D-1.14 & S-1.63	Please reference the attached photo of the existing filters 4&5. There is an existing overflow trough that is not shown to be demolished. Should this trough remain in place? There is also a new deck that is required to be installed on the existing wall between filters 4&5. The east end of the deck will span over the overflow trough and up to the overflow box. Please provide additional information for the connection of the deck to the east exterior wall of the filters.	4/1/2021	Trough shall be demolished. Detail for connecting concrete walkway at overflow point where shown in the reference photo will be shown in the "For Construction" set.	4/2/2021
106	3/31/2021	D-1.14 & S-1.63	Please reference the attached photo of the existing platform above filters 2&3. The demolition drawings do not show this platform to be removed. The structural drawings show 2 new platforms and a new concrete walkway in filters 2&3 which will conflict with this existing platform. Please confirm this walkway is to be removed and should be part of the demoltion scope.	4/1/2021	Platform shall be removed and will be shown in the "For Construction" set. Contractor to confirm support structures for existing equipment are not affected prior to removal or platform.	4/2/2021
107	3/31/2021	D-1.14 & S-1.63	Please reference the attached photo of filter gates at AWRF. The demolition drawings require these gates to be removed, but the structural drawings do not show replacement grating is needed to fill the void at the gate locations. Please confirm that new grating should be installed at these locations once the gates have been removed.	4/1/2021	New grating shall be installed in entirety on North-South walkway from existing Filters 2 thru 7 after removal of gates. This will be shown in the "For Construction" set.	4/2/2021
108	3/31/2021	D-3.07 & D-3.08	Reference note 2 on D-3.07 & D-3.08 and section B on D-3.08. The demolition detail shows that 2 feet of the deck is to remain in place and the rest of the wall at these locations should be removed to the top of the deck. Due to the congested area the demo contractor needs to remove the entire section of wall at these locations and then a 2 FT concrete beam would need to be poured back. Please confirm this is acceptable and if so please provide a beam detail.	4/1/2021	Removal of the wall will be acceptable and new column-walls with a beam to support the grating will be required. Those details will be shown in the "For Construction" set.	4/5/2021
109	3/31/2021	Specification 11310	Section 2.6 A. of specification 11310 Vertical Turbine Pump, references specification 09920 Coating Systems. Specification 09920 refers to the coating system for manholes. Please confirm this was meant to reference Specification 09900 - Painting?	4/1/2021	Confirmed, Specification 09900-Painting was the intended reference. This will be updated in the "For Construction" set.	4/2/2021
110	3/31/2021	Specification 06600	Section 2.1 of specification 06600 - Fiberglass Fabrications, lists the accpetable manufacturers. Please confirm if Enduro is an acceptable manufacturer for the Clarifier FRP components.	4/1/2021	Clarifier FRP components will fall under the Clarifier Unit Responsibility and FRP manufacturer will be acceptable as long as it meets Specification Section 06600 requirements.	4/2/2021
111	3/31/2021	Specification 113171	Section 2.4 F. 1. of specification 11317 - Positive Displacement Blowers, calls for a High Enclosure Air Temperature Switch. Aerzen is recommending this not be included as the enclosure fan is driven by the blower shaft so there is no mode of failure. When Aerzen has provided these they are prone to nuisance shutdowns. Please confirm the high enclosure air temperature switch is not required.	4/1/2021	High Enclosure Air Temperature Switch is not required.	4/2/2021
112	3/31/2021	Specificaiton 11317	Section 3.1 B requires (2) eight hour days of programming from the blower manufacturer. Please confirm this service is not necessary as only gauges and switches will be supplied.	4/1/2021	Include service requirement as is.	4/2/2021
113	3/31/2021	Specification 16225	Section 2.2A.14 of specification 16225, requires bearing life to be rated at 100,000 hours minimum. Bearing life for a motor on a belt drive is expected to be 60,000 hours. Please confirm the requirement can be reduced to the 60,000 hours for the bearing on the Positive Displacement Blower.	4/1/2021	Requirement shall be 100,000 hour life time.	4/2/2021
114	3/31/2021	Specification 16225	Section 2.7 of specification 16225, lists the accpetable manufacturers for motors. Please confirm if WEG is an acceptable motor manufacturer?	4/1/2021	WEG is acceptable.	4/2/2021
115	3/31/2021	Specification 11335 and Drawings M-3.4, M-3.2, M-3.28	Specification section 11335 - Secondary Clarifier Mechanism describes the clarifier to include a conventional skimmer design with a scum box at the periphery of the tank and a skimmer arm with a hinged skimmer mechanism. Drawings M-3.4, M-3.2, and M-3.28 detail a full trough skimmer arm with a scum box on the pepriphery of the tank. Please see attachment and confirm if the intention is to have a skimmer design as shown on CSW801-01 GA or conventional skimmer design as shown on drawing 100FT C4D Salitrillo-151.	4/1/2021	The specification 11335 description is correct, and the relevant drawings will be updated in the "For Construction" set to show the skimmer arm and mechanism more clearly. The intention is to have the conventional skimmer design as shown on drawing 100FT C4D Salitrillo-151.	4/2/2021
116	3/31/2021	Specification 11310	Section 2.4 D. 6. and 2.4 J. 2. Of specification section 11310 reference Specification 15050 and 15958 for design specification on resonant frequency. Specification section 15050 is the general pipe specification and section 15958 was not provided. Please provide specifications for resonant frequency.	4/1/2021	Refer to "Questions 116 & 117 Attachment" for replacement of Sections 2.4.D.6 and 2.4.J.2 Specification 11310 will be updated in the "For Construction" set.	4/2/2021

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117	3/31/2021	Specification 11310	Section 2.5 of specification 11310 includes the field quality control test level requirements for performance, vibration, and noise testing. The requirements for each level of testing is not shown. Please provide descriptions for testing requirements per level.	4/1/2021	Refer to "Questions 116 & 117 Attachment" for replacement of Section 2.5 Specification 11310 will be updated in the "For Construction" set.	4/2/2021
118	4/8/2021	A-3.83	The existing sludge blower building has acoustical panels inside but drawings don't show acoustical paneling for the new sludge blower building, nor is there a spec section for acoustical panels. Please confirm in acoustical panels will be requied for the new blower building.	4/12/2021	Confirmed, acoustical panels are required for the new blower building. See Specification 09511. This detail will be shown in the "For Construction" set.	4/15/2021
119	4/8/2021	S-3.01 & S-3.02	The Aeration Basin drawings don't currently show support beams under the 2" grating where the channel is widened. Please confirm if supports are needed at this location or if the grating thickness needs to change to compensate for the span.	4/12/2021	The new concrete wall will have a recessed shelf angle per Detail 3/S-11. The existing wall will need a post-installed shelf angle per Detail 3/S-11. This will be updated in the "For Construction" set.	4/15/2021
120	4/8/2021	S-3.87	Due to potential concrete corrosion, please confirm if concrete filled stair tread for the sludge holding tank is correct.	4/12/2021	Stairs shall match existing aluminum stairs at Sludge Holding Tanks 1 & 2. This will be reflected in the "For Construction" set.	4/15/2021
121	4/12/2021	C-1.26, C-1.27	Call out #3 on C-1.26 shows a new 12" BW line to new sewer manhole running directly south of the Filters Bldg. On C-1.27 the profile of this new 12" DIP line is shown. The invert info on the 48" SE CCP is incorrect and per as-builts is at 1205.3. This closes the window of running a new 12" DIP line connecting the new manhole to the Filters bldg. Installation of the new manhole at the specified location isn't feasible either due to proximity of existing BWW 24" DIP line. Please review these conflicts and discuss options of reverting back to 60% design.	4/12/2021	"04/15/2021: This issue was discussed with McCarthy on 4/13/2021. McCarthy is investigating Option 2A/2B (of pdf file ""BWW-12-DIP Routing"" provided by McCarthy) with Disc Filter manufacturer. 04/20/2021: Per discussion with McCarthy on 4/20/2021, the connection of the BWW-12-DIP shall be on the west side of the existing manhole, NOT to the exisitng FTW line (which connects to the east side of the existing manhole per field verification). Change of discharge piping configuration shall be reviewed by the Disc Filter manufacturer to ensure the backwash pumps do not need to be upsized."	4/20/2021
122	4/12/2021	M-3.04	Please confirm that the NPW around the perimeter of the Aeration Basins is suppose to be ductile iron pipe.	4/12/2021	Confirmed, NPW piping around the perimeter of the Aeration Basins shall be ductile iron.	4/15/2021
123	4/12/2021	M-1.24	Please confirm that note 13 and note 8 are suppose to be different types of expansion joints.	4/12/2021	Confirmed. Air piping expansion joints located 6' above grade or higher shall be of stainless steel type per Specification Section 15120.2.1.C. All other air piping expansion joints shall be of rubber type per Specification Section 15120.2.1.B.	4/15/2021
124	4/12/2021	Spec 03 3000 Part 3.4-G	Spec section 03 3000 part 3.4-G calls for concrete temperatures at or below 80 degrees farenheight during placement. Reginal suppliers will not guarantee to McCarthy placements at 80 degrees. ACI allows for temps up to 90 degrees and in many cirumstances, local tollerances can reach up to 95 degrees farenheight in the Phoeni Metro area. Please confirm that a max of 90 degrees is acceptable.	4/12/2021	A maximum of 90 degrees is acceptable.	4/15/2021
125	4/12/2021	Spec 03 3000 & GSN note 2.06	Discrepencies between concrete mixes have been noted between 03300 part 1.1-C, 03300 part 2.3-A and concrete mix table 2.06-A in general structure notes for the following items: Location of mixes by PSI strength, PSI strengths, Air entrainment content/percentages, water/cement ratios by mx and similar. Please confirm that the GSN table is to govern.	4/12/2021	GSN table shall govern. GSN and Spec will be reconciled in the "For Construction" set.	4/15/2021
126	4/12/2021	Spec 03300 3.7 Conc Curing	Specification section 03300 3.7 Concrete Curing & Protection states that after concrete placement is finished to "Start initial curing and keep continuously moist for not less than 72 hours." Can the use of curing compound be used for the inital curing method in place of wet curing?	4/12/2021	Curing compound is acceptable.	4/15/2021

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127	4/12/2021	Spec 099000	Please confirm that the intent is not to recoat factory prefinished items as pumps, other processed equiment, MCCs, HVACs and Electrical/Instrumentation Panels	4/12/2021	All factory coated items shall meet 09900 (unless material is stainless steel, aluminum or galvanized). If 09900 requirements are not met, they will need to be recoated per 09900.	4/15/2021
128	4/12/2021	C-3.92 M-3.67	**CONFIRM ELEVATION OF NEW RW-48-DIP RUNNING FROM EXIST. CCB TO RESERVOIR** -PROFILE ON C-3.92 SHOWS INV. 1268 -MECHANICAL DRAWINGS SHOW INV 1274 AT THE NEW RESERVOIR -OWRF AS-BUILTS SHOW EXISING RW LINE RUNNING FROM THE CCB TO THE RWPS AT INV. 1274. -OWRF AS-BUILTS ALSO SHOW CONFLICT WITH EXISTING RW-36-DIP PIPING RUNNING E-W ON THE SOUTH SIDE OF THE CCB AT INV 1268	4/12/2021	The invert elevation shown on Profile C is incorrect and should be 1174.0' throughout as shown on the Mechanical Drawings. Pipe profile will be corrected for the "For Construction" set.	4/15/2021
129	4/12/2021	S-3.02 Section 2	**EX/BF/CLSM for 3 Columns at A-Basin** Is existing overhang self-supported? This will most likely be undermined during excavations of columns. Will CLSM backfill be required underneath overhang and if so to what extent? What is the possibility of using a drilled pier in lieu of the proposed formed column?	4/12/2021	The existing overhang is self supporting. CLSM is not necessary. Drilled piers cannot be used because of the existing foundation.	4/15/2021
130	4/12/2021		Please clarify if Backflow Preventers are needed on all Potable water lines. Confirm if these will be required or not.	4/12/2021	Potable water lines dedicated to fire protection systems at the OWRF new SHT Blower Building and AWRF Maintenance Building are to be equipped with City of Chandler Standard Detail FD-144 - Fire Sprinkler Riser w/ Backflow Preventer (Approved by Fire Marshal Only). All other potable water lines shall be equipped with City of Chandler Standard C-311 - Reduced Pressure-Principle Backflow Prevention Assembly Installation - 3" and Under. Drawings will be adjusted to show this in the "For Construction" submittal.	4/15/2021
131	4/13/2021	Specification 11217	Section 2.1 A calls for the sample pump to be Model J+ Goulds pump. This specific model does not meet the specification. Please confirm this is the correct model. Pump Data has been attached for reference.	4/14/2021	This is the correct model, pump criteria will be corrected in Specification 11217 Sample Pumps for the "For Construction" Set.	4/15/2021
132	4/13/2021	S-3.01 & S-3.02	The west wall of the aeration basin shows (35) 6 inch cores are to be installed to allow for the new wall to be placed and vibrated. We would like to propose that the new slab be lengthened from 3' to 3'6". By increasing the slab length by 6 inches this will allow the new 12" wall to still be 6 inches under the existing deck and extend 6 inches west of the existing deck. This would remove the requirement to core 33 of the 35 six inch cores, the existing handrail could remain in place and the new wall could be poured to the same elevation of the existing deck which would leave a better finish. Please confirm this is acceptable.	4/14/2021	This will not be acceptable. The original design shall be followed per sheets S-3.01 & S-3.02 as shown.	4/15/2021
133	4/13/2021	D-1.15&1.16, S-1.61/1.62 & S-1.67	The demolition drawings show to sawcut a 5'x8' opening for the new effluent channel on the east side of the AWRF filters. S-1.67 shows the sawcut opening as 2 different sizes. Section one shows the opening to be 6'x8' adn section 2 shows the opening to be 5'x8'. Sheets S-1.61/1.62 shows the walls passing through the new sawcut openings which would need to be 6' wide. If the new walls are to pass through the new sawcut openings should the height of the openings match the height of the tall walls as shown on section 2 on S-1.67 for a TOW elevation of 1223.58. Please confirm the sawcut openings at each location.	4/13/2021	Typical sawcut opening (shown on Section D, Sheet D-1.15) shall be 6'W x 8'H at all sections for new effluent channel. Top of new wall elevations vary between 1218.51' (effluent weir), 1223.58' (East wall of each Pump Gallery), and 1224.58' (wall inside existing 'twin' grouted wash-water channels).	4/16/2021
134	4/14/2021	Specification 11285	Please Confirm if one set of stop logs are required for each guide frame. This would apply to the set of stop logs at the OWRF Anoxic Effluent channel, Splitter Box, Filter stop logs, and Chlorine Contact Basin stop logs.	4/14/2021	Yes, each guide frame shall have its own set of stop logs.	4/15/2021
135	4/14/2021	Specification 11285	Section 2.2 D.3.a. of specification 11285 states, "Each stop log shall be outfitted with a continuous resilient lip seal along the botttom and both sides to restrict leakage in accordance with the requirements listed in the specification." When stating "both sides" is that referring to the back and front of stop logs or left and right side of the stop log. Please see attachment, additional notes sheet, note number 11.	4/14/2021	The specification refers to the left and right side. The design intent is to have both seating and unseating heads as specified in the schedule.	4/15/2021
136	4/14/2021	15290-3	Confirm there should be insulation requirements are used for the ductwork connected to the heat pump supply and return.	4/16/2021	There shall be insulation for the package heat pump system (supply / return ductwork) that serves the office/restroom areas.	4/20/2021

Number	Date	Spec/Drawing	Question	Received by Wilson on	Wilson Response	Wilson Response Date
137	4/14/2021	15290-3	1.7B Acoustic Duct Insulation note 2 a - Please confirm if the ductwork from the evaporative cooler should be lined.	4/16/2021	No duct insulation is required for the evaporative cooler ductwork.	4/20/2021
138	4/16/2021		When the existing aeration basin diffuser piping is removed can the stainless steel anchor bolts for the supports be cut off flush and left as is without doing any patching.	4/16/2021	The stainless steel anchors shall be cut flush, leaving the ends exposed. Then, coat with 4”x4” per anchor end with Sikagard 62.	4/20/2021
139	4/16/2021	M-3.04	Sheet M3.04 calls out for 3” DIP for the NPW piping please confirm whether or not this can be changed to 4” DIP.	4/16/2021	Confirmed. 4" DIP may be used in lieu of 3" DIP.	4/16/2021
140	4/20/2021	See attached PDF Titled - OWRF Filter Elevations	Ocotillo As-builts from 1984 indicate top of slab elevation at 1177.69. Sheet S-3.47 in the 90% docs indicate 1179.10. Please confirm which elevation is correct. If the 1984 elevation is correct, do the new Disc Filters need to be lowered by 1.41ft or is whats currently drawn correct?	4/21/2021	The vertical datum for the OWRF was changed multiple times since it was originally built in 1984. Please refer to Survey Notes on Partial Site Plans and Partial Yard Piping Plans (i.e. Sheets C-3.05, C-3.25). Elevations shown in this drawing set are based on best available information (see Survey Note 1). CMAR shall provide location and elevation confirmations per Survey Notes 2 and 3.	4/29/2021
141	4/20/2021	See attached PDF Titled - OWRF Filter Manhole	Ocotillo - Disc Filters - Per the attached document. Would it be acceptable to flip the 03", 04", & 10" Lines 180degrees so that the new proposed manhole avoids any conflict with the existing electrical/communication manholes?	4/21/2021	From available Navisworks AsBuilts, it appears that the manhole location proposed by CMAR would conflict with an existing electrical ductbank. New manhole location shall remain as shown on the Agency Review set.	4/29/2021
142	4/20/2021	01010 - 1.1 A. 2. f.	Please update to say filters 1 & 2 to match drawings.	4/21/2021	This comment was already addressed in the Agency Review set.	4/29/2021
143	4/20/2021	01010 - 1.1 A. 3. c.	Please delete since Contractor is only responsible for dust control, SWPPP, Trailer, and FAA Obstruction Clearance.	4/21/2021	Contractor shall indicate permits they are responsible for. Specification language shall remain.	4/29/2021
144	4/20/2021	01010 - 1.7 C	Insert "When possible" at the beginning of this item. "The CONTRACTOR shall connect to existing utilities without disrupting or interrupting the operation of the services of the existing utilities."	4/21/2021	These items will be discussed with the OWNER, ENGINEER on a case by case basis. Specification language shall remain.	4/29/2021
145	4/20/2021	01012 - 1.2	Process, solids and washdown water will be reintroduced into the process unless specified otherwise instead of offsite disposal. All grit removed from anoxic basin at OWRF to be hauled off by COC.	4/21/2021	CMAR shall confirm with COC if acceptable, on a case by case basis. For grit disposal, see response to Question 186.	4/29/2021
146	4/20/2021	01012 - 1.2 B. 10	Please update to say when possible City will make initial break and flush lines prior to Contractors work	4/21/2021	These items will be discussed with the OWNER, ENGINEER on a case by case basis. Specification language shall remain.	4/29/2021
147	4/20/2021	01012 - 1.2 B. 16	Delete "No additional compensaton will be made for work that may be needed during after hours or on weekends." and replace with "CONTRACTOR will account for after hours or weekend work as needed to minimize disruption to normal operation."	4/21/2021	No additional compensation outside of what is included in the GMP shall be accepted. Contractor needs to bid the work per the specifications. Specification language shall remain.	4/29/2021
148	4/20/2021	01012 - 1.3 A. 1	We would like to request the review time be changed from 30 days prior to 21 days prior since we have already been discussing/reviewing most of these MOPO plans.	4/21/2021	All recent projects for the City of Chandler (OWRF & AWRF) have had the same review timeframe specified (30 to 35 days) in the contract documents. Timeframe specified shall remain the same. However, like any previous projects, Wilson will respond in a timely manner.	4/29/2021
149	4/20/2021	01012 - 1.3 A. 6	Add verbiage to allow designated McCarthy personnel operate switches and breakers on the Owner's behalf with written consent "Shutdown of Electrical Systems: CONTRACTOR shall lock out and tag circuit breakers and switches operated by the OWNER, or may operate switches and breakers with written permission from the OWNER, and check cables and wires to be sure that they are de-energized to ground potential before Work begins. Upon completion of the Work, CONTRACTOR shall remove the locks and tags and notify the ENGINEER that the facilities are available for use."	4/21/2021	OWNER will operate all existing equipment. However, these items will be discussed with the OWNER, ENGINEER on a case by case basis. Specification language shall remain.	4/29/2021
150	4/20/2021	01500 - 3.1	Delete requirement for security and responsibility for Owner's property and other private property. - GMP does not include any security guards and we cannot be responsible for Owner's property where we aren't working. Security is interpreted as fencing and a locked gate.	4/21/2021	This comment was already addressed in the Agency Review set.	4/29/2021

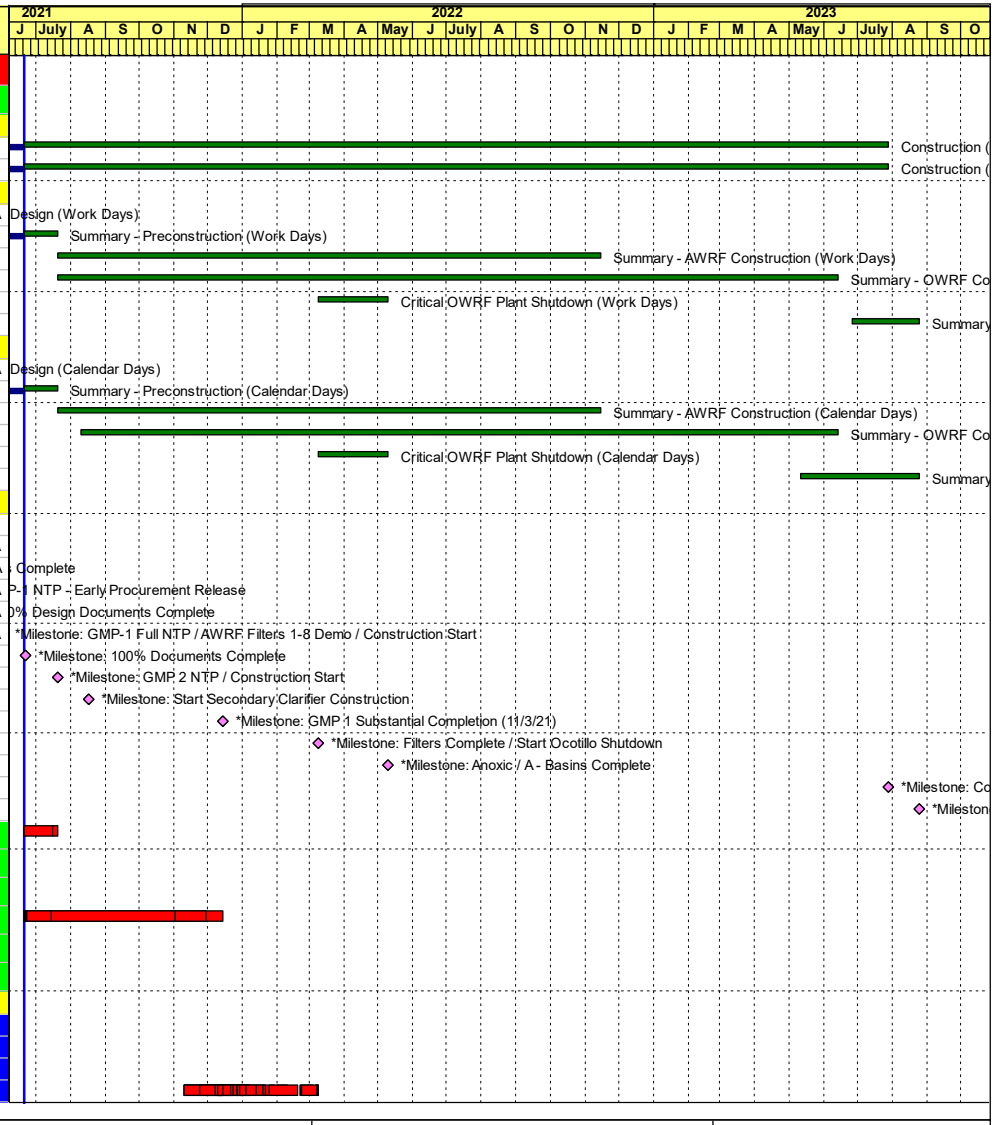
Number	Date	Spec/Drawing	Question	Received by Wilson on	Wilson Response	Wilson Response Date
151	4/20/2021	01650 - 2.1 A. 2	Specify which systems require metalurgical tests and accelerometer recordings during shipment - GMP currently includes neither of these requirements for any systems.	4/21/2021	This comment was already addressed in the Agency Review set.	4/29/2021
152	4/20/2021	01650 - 2.1 B. 3	Remove reference to 75% of Contract amount. - Billing for startup and testing will be as established in the project Schedule of Values. Most vendors require payment at or in excess of 75% upon receipt of approved goods.	4/21/2021	Specification language is standard and shall remain.	4/29/2021
153	4/20/2021	01650 - 3.8 A	Revise to reflect Owner's actual preferences. Better to delete training at bid time than to try to get a credit later. Provide list to Owner for review of what is required/desired	4/21/2021	This comment was already addressed in the Agency Review set.	4/29/2021
154	4/20/2021	01715 - 3.3	Hydrostatic testing of existing structures where new additions occurred will only be visual at the interfaces between new and existing - Contractor cannot be held responsible for condition of existing structures.	4/21/2021	Existing structures shall be visually inspected prior to connection to new structures to document condition. Connections between existing and new structures shall be inspected and compared to prior condition. These items will be discussed with the OWNER, ENGINEER on a case by case basis. Specification language shall remain.	4/29/2021
155	4/20/2021	01715 - 3.3. J. 2	Test measurements are required every 12 hours - We would like this included as every 24 hours.	4/21/2021	Test measurement requirements stated in this specification shall remain. These items will be discussed with the OWNER, ENGINEER on a case by case basis for review and approval from the City and Engineer.	4/29/2021
156	4/20/2021	01800 - Equip Sched.	Delete references to Disc Filter Unit 6 and appurtenances at AWRF - Only five (5) filters are included in GMP for AWRF	4/21/2021	Design will include 6 filters at AWRF. Construction is for five filters at this time. Specification language shall remain.	4/29/2021
157	4/20/2021	15050 - 3.4 A. 4	Specification states "Piping larger than 24" cleaned manually or with a cleaning ball or swab" - In lieu of using swab or cleaning ball, line will be flushed prior to final connection.	4/21/2021	This comment was already addressed in the Agency Review set.	4/29/2021
158	4/20/2021	15051 - 3.4 D. 1	A pressure test also accounts for leakage - why are these specified as two separate tests? Only a pressure test or a leakage test will be conducted depending upon piping system.	4/21/2021	Test requirements stated in this specification shall remain. These items will be discussed with the OWNER and ENGINEER on a case by case basis for review and approval.	4/29/2021
159	4/20/2021	15052- 3.4 D. 1	Leakage testing to be performed after pressure test - Delete requirement; see 3.1 B 1. A pressure test also accounts for leakage - why are these specified as two separate tests? Only a pressure test or a leakage test will be conducted depending upon piping system.	4/21/2021	See response to Question 158	4/29/2021
160	4/20/2021	16161 - 2.1 D. 1	Other places in the spec call for black background with white lettering, this calls for white back ground with black lettering. Please confirm/advise if this is intended to be different from other identification requirements in the spec.	4/21/2021	Provide per specification 16161 2.1.D.1	4/29/2021
161	4/20/2021	17452/17454/17456	Please elaborate on nuances with existing Foxboro equipment and any specific requirements with integrating new eqiupment with the existing system.	4/21/2021	1) At AWRF new hardwired connections (Influent gate actuators, Filter sump pumps) to plant Foxboro DCS cabinets shall be integrated into SCADA via the Wonderware platform. The new signals shall be integrated into the SCADA to meet all requirements of the Control Description Specification 17454. For AWRF, Contractor shall hire system integrator holding relevant experience in Foxboro systems. 2) Specifications 17452 and 17456 deal with PLCs. PLCs are not part of a Foxboro DCS system. 17451, 17452, 17456. 17461 are for modifications to OWRF Modicon PLCs and programming of the same.	4/29/2021
162	4/20/2021	1300-1.1A	Please update this section to state that all submittals are to be transmitted electronically utilizing the software agreed upon by the team. No costs for printing submittals will be included in the GMP 2 package.	4/21/2021	b. Specifications 17452 and 17456 deal with PLCs. PLCs are not part of a Foxboro DCS system. 17451, 17452, 17456. 17461 are for modifications to OWRF Modicon PLCs and programming of the same.	4/29/2021

Number	Date	Spec/Drawing	Question	Received by Wilson on	Wilson Response	Wilson Response Date
163	4/20/2021	01300-1.4.A	No hardcopies will be submitted and all docuements will be generated utilizing Bluebeam which is compatible with Adobe	4/21/2021	See response to Question 162.	4/29/2021
164	4/20/2021	01300-1.6.A,B,C & D	Please remove this requirement to track ALL materials and equipment as the project team will utilize the CPM schedule to track and update status for large equipment, but smaller material invoices will be provided as needed for backup to the Owner's pay application for a specific dollar value agreed to by the project team. If this requirement cannot be removed we will need to add a full time position to track ALL materials as requested and the cost would be significant to the project value	4/21/2021	Specification language is standard and shall remain. Contractor will be required to supply all backup/invoices for major subs and suppliers with the Pay App and Wilson will ask for smaller material invoices on a case by case basis. Major procurement items shall be tracked in the CPM schedule.	4/29/2021
165	4/20/2021	01300-1.10.A	Daily reports will be entered into Procore by the project team. Engineer will be provided access or reports can be sent on a weekly or monthly basis.	4/21/2021	Daily Reports will need to be furnished to the Engineer daily via email by 9:00am the following day after activities take place. Contractor and Engineer shall agree on the format prior to start of work.	4/29/2021
166	4/20/2021	01300-1.15.D	No hard copies will be provided for submittals, O&Ms, etc. All submittal documentation will be provided electronically.	4/21/2021	See response to Question 158	4/29/2021
167	4/20/2021	01310 Progress Schedules	Please update the specifications to accept electronic copies of the CPM schedule as the following items are not usually provided: 24x36 inch prints, floppy disk data, mylar copies, etc.	4/21/2021	Specification will be updated in the "For Construction" set but the requirement for hard copies per response to Question 158 shall remain.	4/29/2021
168	4/20/2021	01380 - 1.1.B	Please modify to state that photos will be provided electronically and filed in a digital folder specific to the corresponding site and structure/area. The name of the photo will not be modified with a description, date, job title, location or station, and direction of view. StructionSite will also be provide to show progress updates of the areas. A professional photographer will not be provided except for final photos and aerial photos.	4/21/2021	Photos can be provided electronically on thumb drive with each pay app as required by the City's Contract. However, the photos shall be named in accordance with Specification requirements.	4/29/2021
169	4/20/2021	01380 - 1.2	Modify to state that digital photos will be provided electronically through box or Procore and please remove D as no photo prints will be provided.	4/21/2021	Specification will be updated in the "For Construction" set.	4/29/2021
170	4/20/2021	01400 - 1.6 & 01451 1.1.B	These sections contradict each other. Please confirm all testing will be paid furnished by Owner and CMAR shall carry any additional testing for QC purposes	4/21/2021	Contractor shall conduct testing per Specifications for the QC purposes. OWNER will conduct testing for QA purposes as indicated in Specification 01451.	4/29/2021
171	4/20/2021	01500-3.1	Contractor will not be modifying or adding any gates or accesses and will secure facility when leaving the site. Contractor is not providing security for the projects.	4/21/2021	See response to Question 150.	4/29/2021
172	4/20/2021	01500-D.2	A 24'x60' trailer will be provided at the AWRF facility and will include a conference area, and offices with a window. Please confirm what furnishings will actually be needed as the list in the specification has not been included with all requests to save budget for the Owner.	4/21/2021	Furnishings will be needed and Wilson field staff will coordinate with McCarthy team to come up with a final list of items needed for the project.	4/29/2021
173	4/20/2021	01500-E	Pest control has not been included	4/21/2021	Pest control will not be needed unless pest are encountered in the office spaces. If pests are encountered, McCarthy shall be responsible for pest mitigation.	4/29/2021
174	4/20/2021	01660-1.4.B	Field and test data will be provided electronically	4/21/2021	Specification will be updated to require test data to be provided in accordance to Specification Section 01300.1.4.A. (electronically and one hard copy).	4/29/2021
175	4/20/2021	01700-1.3.10	Please modify to state electronic versions of the trainings are to be provided as video tapes are not utilized anymore	4/21/2021	Specification will be updated to require training videos to be submitted on two (2) external hard drives.	4/29/2021
176	4/20/2021	01715-1.1B	Please modify to state AWRF Disc Filters 2-7	4/21/2021	This is for Disc Filters 1 through 6 which will be installed in Filter Basins 2 through 7. Specification language shall remain.	4/29/2021
177	4/20/2021	01715-3.3B.3	Due to the time constraint at the Anoxic/Aeration/RAS/WAS PS please confirm that testing of the gates, valves, etc will not be required, but a visual test can be completed as the structures are brought back online	4/21/2021	Testing required as indicated in the Specifications. These items will be discussed with the OWNER and ENGINEER on a case by case basis for review and approval.	4/29/2021
178	4/20/2021	01715-I.1	Please confirm that a 5 gallon bucket can be utilized for the "Open-topped container"	4/21/2021	Confirmed.	4/29/2021
179	4/20/2021	01715-J.5	Please remove this section as the structures that will be tested will be so large that a test container will not be able to be provided to fulfill this requirement.	4/21/2021	Testing required as indicated in the Specifications. These items will be discussed with the OWNER and ENGINEER on a case by case basis for review and approval.	4/29/2021

Number	Date	Spec/Drawing	Question	Received by Wilson on	Wilson Response	Wilson Response Date
180	4/20/2021	01720-C.2	Please modify to all documentation will be stored electronically and will be provided upon request.	4/21/2021	A hard copy of the drawing and specifications shall be kept onsite for City inspector use. Other documentation such as As-Builts, RFIs, Submittals, etc., shall be kept electronically.	
181	4/20/2021	01720-F.3	Pricing has not been included to modify all CAD/Revit files to match the asbuilt locations. Please delete section or modify to state that all asbuilts may be provided in PDF format.	4/21/2021	Specification refers to *supplemental* drawings, not the original CAD drawings. Specification language shall remain.	4/29/2021
182	4/20/2021	01730-D.4	Please modify to state that O&Ms can be provided in electronic format.	4/21/2021	See response to Question 158	4/29/2021
183	4/20/2021	02050-1.3.2	Please remove as demolition will not require any preventative maintenance information	4/21/2021	Specification will be updated in the "For Construction" set.	4/29/2021
184	4/21/2021		Is 42" depth acceptable as that is the standard depth for pallet storage racks vs the 48" called out on the drawing A-1.82?	4/21/2021	This option will be evaluated and, if acceptable, will be included in the "For Construction" set.	4/29/2021
185	4/21/2021		At the entry way into the storage room there are two 4x6x10 racks (one on each side of doorway). Would one 12' long rack be ok in lieu of an 8' and a 6'? This would be a better layout for pallet storage.	4/21/2021	This option will be evaluated and, if acceptable, will be included in the "For Construction" set.	4/29/2021
186	4/21/2021		At the Anoxic/Aeration Basin at OWRF a grit/basin clean up of it is assumed 4 feet of grit clean up at the bottom of the basins.	4/21/2021	4' is an estimate. However, actual grit quantity may vary and shall need to be removed entirely. Provide unit cost for removal.	4/29/2021
187	4/21/2021	13300	Please advise if Campana for the PEMB is a viable "or equal".	4/21/2021	Architect is not familiar with this manufacturer. CMAR shall submit product data and a substantiation of the alternate, including evidence of satisfactory installations of similar products, for review and approval.	4/29/2021
188	4/21/2021	11217 - Sample Pumps 11310 - Vertical Turbine Pumps 11311.1 - Submersible Pumps for Dry Pit Application 11314 - End Suction Centrifugal Pumps	Please confirm anchorage calculations for pump installation are not required.	4/21/2021	Provide anchorage per specifications.	4/29/2021
189	4/21/2021	Specification 11221	Section 1.1 B in specification 11221 Hyperbolic Mixers and Accessories requires the existing mixer base plates to be reused. Please confirm the existing Hyperbolic Mixer bases must be reused.	4/21/2021	Existing mixer ***metal*** base shall ***not*** be reused. The existing concrete equipment pad shall be reused with some modifications that will be included in the "For Construction" set.	4/29/2021
190	4/21/2021		When the AWRF filter underdrains and grout are removed, we are assuming that the structural slab finish will be rough. The drawings do not address any modifications to the finish of the slab. Please provide direction for finishes and repairs that will be required.	4/21/2021	Structural slab is expected to be smooth. Underdrain anchors shall be cut and patched per the same requirements described in response to Question 138.	4/29/2021
191	4/21/2021	03100-3.7.A.1	Stripping of forms vary per situation. Please confirm that all vertical surfaces can be stripped within 12 hours of placing concrete. This would apply to all slabs, decks beam edges, and walls. All horizontal shoring for decks and beams will remain in place until design strength has been achieved.	4/21/2021	All vertical surface should follow the specification schedule. Contractor shall submit a concrete placement schedule by placement (Slabs, walls, etc.), and Wilson/NSB will evaluate how the spec is to be enforced (based on temperature, type of build, etc.)	4/29/2021
192	4/21/2021	03300-1.1.C	Due to the schedule requirements for the AWRF filters a concrete trial batch cannot be provided in time to meet the pour dates required. In reviewing the specifications for 23rd Ave it looks like the "Type 3" 5,000 PSI concrete is very similar to the Class "A" 5,000 PSI concrete. Please confirm it is acceptable to utlize the same mix provided by Cemex at 23rd Ave for the AWRF Filters until a trial batch can be provided and approved.	4/21/2021	Utilizing the same mix by Cemex at 23rd Ave is acceptable for the AWRF Filters. McCarthy shall provide a break history on this mix (and any other future mixes to be used) for review and approval.	4/27/2021

Number	Date	Spec/Drawing	Question	Received by Wilson on	Wilson Response	Wilson Response Date
193	4/27/2021		At 60% the CJ's at the Reservoir were laid out per the specifications, at GMP the CJ location has changed from the specifications. Attached is the drawing in Green show what the documents callout and the blue what McCarthy would propose. Please confirm if this is acceptable.	4/27/2021	The CJs will have to be as shown on the drawings. This doesn't deviate from the spec in the sense that 03251.3.2.B. notes that "Locate and install construction joints as shown." Also, please note that the CJs will have to go all the way to the slab edge, which will be shown in the "For Construction" set. Please see markups from NSB, attached.	

Activity ID	Activity Name	Orig Dur	Start	Finish
Chandler Water Reclamation Facility Improvements		927	06-Jan-20 A	25-Aug-23
Overview		927	06-Jan-20 A	25-Aug-23
Summary		547	01-Jun-21 A	28-Jul-23
SUM-DUR-B	Construction (Work Days)	547	01-Jun-21 A	28-Jul-23
SUM-DUR-A	Construction (Calendar Days)	786	01-Jun-21 A	28-Jul-23
Project Summary (Work Days)		575	13-May-20 A	25-Aug-23
O-SUM-325	Summary - Design (Work Days)	44	13-May-20 A	24-Mar-21 A
O-SUM-285	Summary - Preconstruction (Work Days)	0	24-Jul-20 A	20-Jul-21
O-SUM-295	Summary - AWRF Construction (Work Days)	337	20-Jul-21	14-Nov-22
O-SUM-305	Summary - OWRF Construction (Work Days)	483	20-Jul-21	13-Jun-23
O-SUM-275	Critical OWRF Plant Shutdown (Work Days)	44	09-Mar-22	09-May-22
O-SUM-315	Summary - Project Close-out (Work Days)	44	26-Jun-23	25-Aug-23
Project Summary (Calendar Days)		827	13-May-20 A	25-Aug-23
O-SUM-335	Summary - Design (Calendar Days)	44	13-May-20 A	24-Mar-21 A
O-SUM-345	Summary - Preconstruction (Calendar Days)	0	24-Jul-20 A	20-Jul-21
O-SUM-365	Summary - AWRF Construction (Calendar Days)	483	20-Jul-21	14-Nov-22
O-SUM-355	Summary - OWRF Construction (Calendar Days)	673	10-Aug-21	13-Jun-23
O-SUM-375	Critical OWRF Plant Shutdown (Calendar Days)	62	09-Mar-22	09-May-22
O-SU-385	Summary - Project Close-out (Calendar Days)	106	12-May-23	25-Aug-23
Milestones		927	06-Jan-20 A	25-Aug-23
MIL-100	*Milestone: Project Award	0	06-Jan-20 A	
MIL-110	*Milestone: 30% Design Documents Complete	0		24-Jun-20 A
MIL-140	*Milestone: 60% Design Documents Complete	0		11-Nov-20 A
MIL-160	*Milestone: GMP-1 NTP - Early Procurement Release	0		01-Mar-21 A
MIL-150	*Milestone: 90% Design Documents Complete	0		15-Mar-21 A
MIL-190	*Milestone: GMP-1 Full NTP / AWRF Filters 1-8 Demo / Construction Start	0		01-Jun-21 A
MIL-180	*Milestone: 100% Documents Complete	0		21-Jun-21*
MIL-120	*Milestone: GMP 2 NTP / Construction Start	0	20-Jul-21*	
MIL-230	*Milestone: Start Secondary Clarifier Construction	0	17-Aug-21	
MIL-170	*Milestone: GMP 1 Substantial Completion (11/3/21)	0		14-Dec-21*
A-FIL-SU-255	*Milestone: Filters Complete / Start Ocotillo Shutdown	0		08-Mar-22
A-FIL-SU-265	*Milestone: Anoxic / A - Basins Complete	0		09-May-22*
MIL-130	*Milestone: Construction Complete / Substantial Completion	0		28-Jul-23*
PRJ-CLS-1050	*Milestone: Final Completion	0		25-Aug-23
Preconstruction		325	13-May-20 A	17-Aug-21
Contracts		152	01-Mar-21 A	16-Aug-21
GMP #2 - Change Order		20	20-Jul-21	16-Aug-21
Procurement		362	09-Mar-21 A	14-Jun-22
Procurement GMP2 (3/19/21)		257	12-May-21 A	25-Apr-22
Construction		516	01-Jun-21 A	13-Jun-23
AWRF		425	01-Jun-21 A	03-Feb-23
Site		25	20-Jul-21	23-Aug-21
Blower Facilities		377	10-Aug-21	03-Feb-23
Aeration Basins		230	20-Jul-21	14-Jun-22
Filters		214	01-Jun-21 A	05-Apr-22



Run Date - 18-Jun-21
Start Date - 06-Jan-20
Finish Date - 25-Aug-23
Data Date - 21-Jun-21

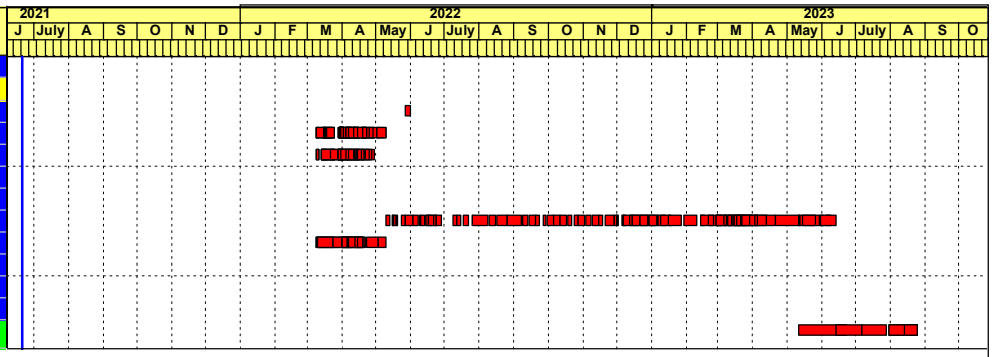
- Remaining Level of Effort
- Actual Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work

Chandler Water Reclamation Facility Improvements

McCARTHY®

00 - City Summary

Activity ID	Activity Name	Orig Dur	Start	Finish
	Maintenance Bldg	267	27-Oct-21	14-Nov-22
	OWRF	483	20-Jul-21	13-Jun-23
	Site	345	20-Jul-21	28-Nov-22
	Anoxic Basins	199	27-Oct-21	09-Aug-22
	Aeration Basin	231	20-Jul-21	15-Jun-22
	Splitter Box	151	02-May-22	05-Dec-22
	Secondary Clarifiers	405	17-Aug-21	22-Mar-23
	Filters	278	10-May-22	13-Jun-23
	RAS / WAS Pump Station	76	09-Mar-22	23-Jun-22
	Chlorine Contact Basin	75	15-Apr-22	01-Aug-22
	Reclaimed Water Storage	337	10-Aug-21	07-Dec-22
	Existing Reclaimed Water Storage	331	10-Aug-21	29-Nov-22
	Close Out / Project Completion	74	12-May-23	25-Aug-23



Run Date - 18-Jun-21
Start Date - 06-Jan-20
Finish Date - 25-Aug-23
Data Date - 21-Jun-21

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work

Chandler Water Reclamation Facility Improvements

McCARTHY®

City of Chandler Water Reclamation Facility Improvements Project

List of GMP Plans and Specifications

GMP 2 Specifications

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Section 01013- Engineering Services	2	March 2021
Section 01040- Coordination	2	March 2021
Section 01050- Field Engineering/Surveying	1	March 2021
Section 01090- Reference Standards/Abbreviations	9	March 2021
Section 01201- Preconstruction Conference	2	March 2021
Section 01202- Progress Meetings	2	March 2021
Section 01300- Submittals	60	March 2021
Section 01310- Progress Schedule	10	March 2021
Section 01380- Construction Photographs	3	March 2021
Section 01400- Quality Control	2	March 2021
Section 01410- Testing	1	March 2021
Section 01412- Stormwater Pollution Prevention Plan and Permit	3	March 2021
Section 01414- Earthmoving and Dust Control	2	March 2021
Section 01451- Testing Laboratory Services Furnished by Owner	3	March 2021
Section 01500- Construction Facilities and Temporary Controls	12	March 2021
Section 01640- Materials and Equipment	5	March 2021
Section 01650- Starting of Systems	9	March 2021
Section 01660- Field Tests of Equipment	3	March 2021
Section 01700- Contract Closeout	2	March 2021
Section 01710- Cleaning	3	March 2021
Section 01715- Testing of Hydraulic Structures	7	March 2021
Section 01720- Record Documents	4	March 2021
Section 01730- Operation and Maintenance Data	4	March 2021
Section 01750- Spare Parts and Maintenance Materials	2	March 2021
Section 01800- Equipment Schedule	20	March 2021
Section 01821- Instruction of Operations and Maintenance Personnel	6	March 2021
Section 02050- Demolitions	9	March 2021
Section 02100- Site Preparation	5	March 2021
Section 02150- Shoring	3	March 2021
Section 02315- Earthwork, Excavation, and Backfill	21	March 2021
Section 02318- Crushed Stone, Gravel, and Decomposed Granite	3	March 2021

Section 02319- Riprap	3	March 2021
Section 02371- Filter Fabric for Riprap Channels	4	March 2021
Section 02500- Asphalt Pavement	3	March 2021
Section 02580- Pavement Markings	3	March 2021
Section 02751- Portland Cement Concrete Paving	6	March 2021
Section 03100- Concrete Formwork	9	March 2021
Section 03200- Concrete Reinforcement	8	March 2021
Section 03251- Concrete Joints	11	March 2021
Section 03300- Cast-In-Place Concrete	23	March 2021
Section 03600- Grout	8	March 2021
Section 04820- Reinforced Unit Masonry Assemblies	19	March 2021
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Section 05500- Metal Fabrications	12	March 2021
Section 05510- Metal Stairs	10	March 2021
Section 05521- Aluminum Handrail	11	March 2021
Section 05521- Pipe and Tube Railings	4	March 2021
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Section 06410- Architectural Wood Casework	5	March 2021
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Section 07900- Joint Sealers	4	March 2021
Section 08110- Steel Doors and Frames	7	March 2021
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Section 08331- Overhead Coiling Doors	4	March 2021
Section 08511- Aluminum Windows	4	March 2021
Section 08710- Door Hardware	4	March 2021
Section 08800- Glazing	7	March 2021
Section 08950- Translucent Wall and Roof Assemblies	9	March 2021
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Section 09900- Painting	21	March 2021
Section 09900.1- Architectural Paints and Coatings	7	March 2021

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Section 10400- Equipment Identification Plates	5	March 2021
Section 10425- Signs	7	March 2021
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Section 11217- Sample Plumps	4	March 2021
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Section 11285- Hydraulic Gates and Stop Logs	20	March 2021
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Section 11310- Vertical Turbine Pumps	15	March 2021
Section 11311.1- Submersible Pumps for Dry Pit Application	10	March 2021
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Section 11371- Positive Displacement Blowers	11	March 2021
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Section 11376- Coarse Bubble Aeration System	11	March 2021
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Section 15010- Basic Mechanical Requirements	3	March 2021
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Section 15050- Piping Systems	19	March 2021
Section 15051- Buried Piping Installation	17	March 2021
Section 15052- Exposed Piping Installation	11	March 2021
Section 15061- Ductile Iron Pipe	9	March 2021
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Section 15260- Piping Insulation	5	March 2021
Section 15290- Ductwork Insulation	4	March 2021
Section 15400- Plumbing Fixtures and Equipment	7	March 2021
Section 15410- Plumbing Piping	12	March 2021
Section 15410- Plumbing Specialties	3	March 2021
Section 15440- Plumbing Fixtures	4	March 2021
Section 15441- Sump Pumps	6	March 2021
Section 15450- Plumbing Equipment	2	March 2021
Section 15680- Evaporative Coolers	7	March 2021
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Section 15781- Air Conditioning Unit	3	March 2021
Section 15831- Centrifugal Exhaust Fans	2	March 2021
Section 15885- Air Cleaning	4	March 2021
Section 15890- Ductwork	5	March 2021
Section 15910- Ductwork Accessories	4	March 2021
Section 15803- Air Outlets and Inlets	2	March 2021
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Section 16001- Packaged Systems and Packaged Control Panels	4	March 2021
Section 16010- Electrical: Basic Requirements	8	March 2021
Section 16050- Basic Materials and Methods	3	March 2021
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Section 16062- Lighting Protection	8	March 2021
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Section 16440- Disconnect Switches	2	March 2021
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Section 16611- Static Uninterruptible Power Supply	3	March 2021
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Section 17150- Limit and Position Switches	3	March 2021
Section 17221- Electronic 4-20MA Indicators	3	March 2021
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Section 17310- Dissolved Oxygen Sensor and Analyzer/Transmitter	3	March 2021
Section 17325- Turbidity and TSS Analyzer	5	March 2021
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GMP 1 Plans

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G – 1	Cover	90% Submittal		3/15/2021
G – 2	Sheet Index 1	90% Submittal	3/15/2021 @2:48:09 PM	3/15/2021
G – 3	Sheet Index 2	90% Submittal	3/15/2021 @2:48:35 PM	3/15/2021
G – 4	General Notes – 1	90% Submittal	3/12/2021 @3:37:27 PM	3/15/2021
G – 5	General Notes – 2	90% Submittal	3/12/2021 @3:38:34 PM	3/15/2021
G – 6	Process and Site Legend	90% Submittal	3/12/2021 @3:40:55 PM	3/15/2021
G – 9	AWRF Hydraulic Profile	90% Submittal	3/12/2021 @3:48:55 PM	3/15/2021
G – 10	OWRF Hydraulic Profile	90% Submittal	3/13/2021 @10:56:13 AM	3/15/2021
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G – 12	OWRF Process Schematic	90% Submittal	3/13/2021 @11:36:34 AM	3/15/2021
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D – 1.11	AWRF – Aeration Basins 1-4 Diffusers Demolition Overall Plan	90% Submittal	3/15/2021 @9:14:11 AM	3/15/2021
D – 1.12	AWRF – Aeration Basins 1-4 Diffusers Demolition Details	90% Submittal	3/15/2021 @9:16:59 AM	3/15/2021
D – 1.13	AWRF – Blower Piping Demolition Sheets	90% Submittal	3/15/2021 @1:55:31 PM	3/15/2021
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D – 1.15	AWRF – Filter Demolition Sections	90% Submittal	3/15/2021 @9:26:16 AM	3/15/2021
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D – 3.21	OWRF – Traveling Bridge Filter No. 1 and No. 2 Overall Demolition Sections	90% Submittal	3/15/2021 @9:48:07 AM	3/15/2021
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D – 3.25	OWRF – RAS\WAS Pump Station Demolition Details	90% Submittal	3/15/2021 @10:02:00 AM	3/15/2021
D – 3.30	OWRF – Effluent Storage Reservoir Overall Demolition Plan and Sections	90% Submittal	3/15/2021 @10:04:29 AM	3/15/2021

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C – 1.22	AWRF – Partial Yard Piping Plan-1	90% Submittal	3/11/2021 @12:45:16 PM	3/15/2021
C – 1.24	AWRF – Partial Yard Piping Plan-3	90% Submittal	3/12/2021 @4:13:02 PM	3/15/2021
C – 1.26	AWRF – Partial Yard Piping Plan-5	90% Submittal	3/12/2021 @8:56:14 AM	3/15/2021
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C – 1.43	AWRF – Grading and Drainage Site Plan-2	90% Submittal	3/15/2021 @9:28:33 AM	3/15/2021
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M – 1.01	AWRF – Aeration Basin No. 1 Plan and Section	90% Submittal	3/15/2021 @10:44:38 AM	3/15/2021
M – 1.02	AWRF – Aeration Basin No. 1 Sections	90% Submittal	3/15/2021 @11:11:02 AM	3/15/2021
M – 1.03	AWRF – Aeration Basin No. 2 Plan and Section	90% Submittal	3/15/2021 @10:47:37 AM	3/15/2021
M – 1.04	AWRF – Aeration Basin No. 2 Sections	90% Submittal	3/15/2021 @11:12:53 AM	3/15/2021
M – 1.21	AWRF – Blower Piping Rendering 1	90% Submittal	3/15/2021 @11:32:41 AM	3/15/2021
M – 1.22	AWRF – Blower Piping Rendering 2	90% Submittal	3/15/2021 @11:32:41 AM	3/15/2021
M – 1.23	AWRF – Blower Piping Rendering 3	90% Submittal	3/15/2021 @11:32:41 AM	3/15/2021
M – 1.24	AWRF – Blower Piping Overall Plan	90% Submittal	3/12/2021 @4:39:14 PM	3/15/2021
M – 1.25	AWRF – Blower Piping Plan and Section	90% Submittal	3/15/2021 @11:35:18 AM	3/15/2021
M – 1.26	AWRF – Blower Piping Plan and Section 1	90% Submittal	3/15/2021 @11:32:43 AM	3/15/2021
M – 1.27	AWRF – Blower Piping Plan and Section 2	90% Submittal	3/15/2021 @11:32:44 AM	3/15/2021

M – 1.28	AWRF – Blower Piping Plan and Section 3	90% Submittal	3/15/2021 @11:32:45 AM	3/15/2021
M – 1.61	AWRF – Disc Filter Rendering 1	90% Submittal	3/15/2021 @11:42:51 AM	3/15/2021
M – 1.62	AWRF – Disc Filter Rendering 2	90% Submittal	3/15/2021 @11:42:51 AM	3/15/2021
M – 1.63	AWRF – Disc Filter Rendering 3	90% Submittal	3/15/2021 @11:42:51 AM	3/15/2021
M – 1.64	AWRF – Filters Overall Plan	90% Submittal	3/12/2021 @4:28:40 PM	3/15/2021
M – 1.65	AWRF – Disc Filters Basin 5 Plan	90% Submittal	3/15/2021 @11:42:52 AM	3/15/2021
M – 1.66	AWRF – Disc Filter Pump Gallery	90% Submittal	3/15/2021 @11:42:54 AM	3/15/2021
M – 1.67	AWRF – Disc Filters Sections 1	90% Submittal	3/15/2021 @11:42:55 AM	3/15/2021
M – 1.68	AWRF – Disc Filters Sections 2	90% Submittal	3/15/2021 @11:42:56 AM	3/15/2021
M – 3.01	OWRF – Aeration and Anoxic Basins Rendering	90% Submittal	3/13/2021 @7:12:49 AM	3/15/2021
M – 3.02	OWRF – Aeration Basins Rendering	90% Submittal	3/15/2021 @11:54:47 AM	3/15/2021
M – 3.03	OWRF – Anoxic Basins Rendering	90% Submittal	3/13/2021 @7:12:50 AM	3/15/2021
M – 3.04	OWRF – Aeration Basin Overall Plan	90% Submittal	3/15/2021 @11:54:49 AM	3/15/2021
M – 3.05	OWRF – Aeration Basin Sections and Details 1	90% Submittal	3/15/2021 @11:54:50 AM	3/15/2021
M – 3.06	OWRF – Anoxic Basins Overall Plan	90% Submittal	3/13/2021 @7:16:25 AM	3/15/2021
M – 3.07	OWRF – Anoxic Basins Sections and Details 1	90% Submittal	3/15/2021 @11:54:52 AM	3/15/2021
M – 3.08	OWRF – Anoxic Basins Sections and Details 2	90% Submittal	3/15/2021 @11:54:53 AM	3/15/2021
M – 3.09	OWRF – Anoxic Basins Sections and Details 3	90% Submittal	3/15/2021 @11:54:54 AM	3/15/2021
M – 3.10	OWRF – RAS\WAS Pump Station Rendering 1	90% Submittal	3/13/2021 @7:12:50 AM	3/15/2021
M – 3.11	OWRF – RAS\WAS Pump Station Rendering 2	90% Submittal	3/13/2021 @7:12:51 AM	3/15/2021
M – 3.12	OWRF – RAS\WAS Pump Station Rendering 3	90% Submittal	3/13/2021 @7:12:51 AM	3/15/2021
M – 3.13	OWRF – RAS\WAS Pump Station Plan View	90% Submittal	3/13/2021 @7:16:31 AM	3/15/2021
M – 3.14	OWRF – RAS\WAS Pump Station Sections	90% Submittal	3/13/2021 @12:04:55 PM	3/15/2021
M – 3.21	OWRF – Splitter Box Rendering	90% Submittal	3/13/2021 @7:12:51 AM	3/15/2021

M – 3.22	OWRF – Splitter Box Overall Plan	90% Submittal	3/15/2021 @11:54:55 AM	3/15/2021
M – 3.23	OWRF – Splitter Box Section	90% Submittal	3/13/2021 @7:16:35 AM	3/15/2021
M – 3.24	OWRF – Secondary Clarifiers Rendering 1	90% Submittal	3/15/2021 @12:11:06 PM	3/15/2021
M – 3.26	OWRF – Secondary Clarifiers No. 1 and No. 2 Overall Plan	90% Submittal	3/15/2021 @12:48:42 PM	3/15/2021
M – 3.27	OWRF – Secondary Clarifiers No. 1 and No. 2 Sections and Details	90% Submittal	3/15/2021 @12:25:51 PM	3/15/2021
M – 3.28	OWRF – Secondary Clarifier No. 3	90% Submittal	3/15/2021 @12:25:52 PM	3/15/2021
M – 3.29	OWRF – Secondary Clarifier No. 3 Sections and Details	90% Submittal	3/15/2021 @12:25:53 PM	3/15/2021
M – 3.30	OWRF – Secondary Clarifiers Typical Details	90% Submittal	3/15/2021 @12:25:53 PM	3/15/2021
M – 3.31	OWRF – RAS\WAS Pump Station Rendering 1	90% Submittal	3/15/2021 @1:56:21 PM	3/15/2021
M – 3.32	OWRF – RAS\WAS Pump Station Rendering 2	90% Submittal	3/15/2021 @1:56:21 PM	3/15/2021
M – 3.33	OWRF – RAS\WAS Pump Station Rendering 3	90% Submittal	3/15/2021 @1:56:21 PM	3/15/2021
M – 3.34	OWRF – RAS\WAS Pump Station Plan View	90% Submittal	3/15/2021 @1:57:16 PM	3/15/2021
M – 3.35	OWRF – RAS\WAS Pump Station Sections	90% Submittal	3/15/2021 @1:57:17 PM	3/15/2021
M – 3.41	OWRF – Disc Filters Rendering 1	90% Submittal	3/15/2021 @12:29:01 PM	3/15/2021
M – 3.42	OWRF – Disc Filters Rendering 2	90% Submittal	3/15/2021 @12:29:02 PM	3/15/2021
M – 3.43	OWRF – Disc Filters Rendering 3	90% Submittal	3/15/2021 @12:29:02 PM	3/15/2021
M – 3.44	OWRF – Disc Filters Overall Plan	90% Submittal	3/15/2021 @12:29:04 PM	3/15/2021
M – 3.45	OWRF – Disc Filters Lower Plan	90% Submittal	3/15/2021 @12:29:05 PM	3/15/2021
M – 3.46	OWRF – Disc Filters Basin 4 Plan	90% Submittal	3/15/2021 @12:29:06 PM	3/15/2021
M – 3.47	OWRF – Disc Filters Pump Gallery Plan	90% Submittal	3/15/2021 @12:29:06 PM	3/15/2021
M – 3.48	OWRF – Disc Filters Sections and Details 1	90% Submittal	3/15/2021 @12:29:09 PM	3/15/2021
M – 3.49	OWRF – Disc Filters Sections and Details 2	90% Submittal	3/15/2021 @12:29:10 PM	3/15/2021
M – 3.61	OWRF – Reclaimed Water Reservoir Rendering 1	90% Submittal	3/15/2021 @9:34:02 AM	3/15/2021
M – 3.63	OWRF – Reclaimed Water Reservoir Rendering 3	90% Submittal	3/15/2021 @9:34:03 AM	3/15/2021

M – 3.64	OWRF – Reclaimed Water Reservoir Overall Plan	90% Submittal	3/15/2021 @12:36:09 PM	3/15/2021
M – 3.65	OWRF – Reclaimed Water Reservoir Lower Plan	90% Submittal	3/15/2021 @12:36:09 PM	3/15/2021
M – 3.66	OWRF – Reclaimed Water Reservoir Upper Plan	90% Submittal	3/15/2021 @12:36:10 PM	3/15/2021
M – 3.67	OWRF – Reclaimed Water Reservoir Sections 1	90% Submittal	3/15/2021 @9:25:50 AM	3/15/2021
M – 3.81	OWRF – Sludge Holding Tanks Blower Building Rendering 1	90% Submittal	3/15/2021 @12:41:07 PM	3/15/2021
M – 3.82	OWRF – Sludge Holding Tanks Blower Building Rendering 2	90% Submittal	3/15/2021 @12:41:07 PM	3/15/2021
M – 3.83	OWRF – Sludge Holding Tanks Blower Building Rendering 3	90% Submittal	3/15/2021 @12:41:08 PM	3/15/2021
M – 3.84	OWRF – Sludge Holding Tanks Lower Plan	90% Submittal	3/13/2021 @7:42:04 AM	3/15/2021
M – 3.85	OWRF – Sludge Holding Tanks Upper Plan	90% Submittal	3/13/2021 @7:42:06 AM	3/15/2021
M – 3.86	OWRF – Sludge Holding Tanks Sections and Details 1	90% Submittal	3/13/2021 @7:42:07 AM	3/15/2021
M – 3.87	OWRF – Sludge Holding Tanks Blower Building Plan	90% Submittal	3/13/2021 @7:42:08 AM	3/15/2021
M – 3.88	OWRF – Sludge Holding Tanks Blower Building Sections	90% Submittal	3/13/2021 @7:42:10 AM	3/15/2021
M – 3.89	OWRF – Sludge Holding Tanks Blower Foul Air Pipe Sections	90% Submittal	3/15/2021 @12:41:08 PM	3/15/2021
M – 7.01	Typical Details 1	90% Submittal	3/12/2021 @4:49:38 PM	3/15/2021
M – 7.02	Typical Details 2	90% Submittal	3/12/2021 @4:47:37 PM	3/15/2021
M – 7.03	Typical Details 3	90% Submittal	3/12/2021 @4:48:19 PM	3/15/2021
M – 7.04	Typical Details 4	90% Submittal	3/12/2021 @4:49:00 PM	3/15/2021
M – 7.05	Typical Details 5	90% Submittal	3/12/2021 @4:50:06 PM	3/15/2021
M – 7.06	Typical Details 6	90% Submittal	3/15/2021 @10:08:22 AM	3/15/2021
M – 7.07	Typical Details 7	90% Submittal	3/12/2021 @4:51:33 PM	3/15/2021
S – 1	General Structural Notes 1	90% Submittal	3/11/2021 @3:41:19 PM	3/15/2021
S – 2	General Structural Notes 2	90% Submittal	3/11/2021 @3:41:19 PM	3/15/2021
S – 3	General Structural Notes 3	90% Submittal	3/11/2021 @3:41:20 PM	3/15/2021
S – 4	General Structural Notes 4	90% Submittal	3/11/2021 @3:41:21 PM	3/15/2021

S – 5	General Structural Notes 5	90% Submittal	3/11/2021 @3:41:21 PM	3/15/2021
S – 6	Abbreviations	90% Submittal	3/11/2021 @3:41:22 PM	3/15/2021
S – 10	Typical Details 1	90% Submittal	3/11/2021 @3:41:23 PM	3/15/2021
S – 11	Typical Details 2	90% Submittal	3/11/2021 @3:41:24 PM	3/15/2021
S – 12	Typical Details 3	90% Submittal	3/11/2021 @3:41:25 PM	3/15/2021
S – 13	Typical Details 4	90% Submittal	3/11/2021 @3:41:26 PM	3/15/2021
S – 14	Typical Details 5	90% Submittal	3/11/2021 @3:41:27 PM	3/15/2021
S – 15	Standard Details 6	90% Submittal	3/11/2021 @3:41:28 PM	3/15/2021
S – 16	Standard Details 7	90% Submittal	3/11/2021 @3:41:28 PM	3/15/2021
S – 1.21	AWRF – Air Piping Foundation Plan	90% Submittal	3/11/2021 @3:41:29 PM	3/15/2021
S – 1.22	AWRF – Air Piping Sections 1	90% Submittal	3/11/2021 @3:41:30 PM	3/15/2021
S – 1.61	AWRF – Filters Lower Plan - A	90% Submittal	3/11/2021 @3:41:31PM	3/15/2021
S – 1.62	AWRF – Filters Lower Plan - B	90% Submittal	3/11/2021 @3:41:32 PM	3/15/2021
S – 1.63	AWRF – Filters Upper Plan - A	90% Submittal	3/11/2021 @3:41:33 PM	3/15/2021
S – 1.64	AWRF – Filters Upper Plan - B	90% Submittal	3/11/2021 @3:41:34 PM	3/15/2021
S – 1.65	AWRF – Filters Crane Rail Framing Plan	90% Submittal	3/11/2021 @3:41:34 PM	3/11/2021 @3:41:34 PM
S – 1.66	AWRF – Filters Sections 1	90% Submittal	3/11/2021 @3:41:36 PM	3/15/2021
S – 1.67	AWRF – Filters Sections 2	90% Submittal	3/11/2021 @3:41:37 PM	3/15/2021
S – 1.68	AWRF – Filters Sections 3	90% Submittal	3/11/2021 @3:55:12 PM	3/15/2021
S – 1.69	AWRF – Filters Sections 4	90% Submittal	3/11/2021 @3:41:40 PM	3/15/2021
S – 1.70	AWRF – Filters Sections 5	90% Submittal	3/11/2021 @3:41:41 PM	3/15/2021
S – 1.71	AWRF – Filters Sections 6	90% Submittal	3/11/2021 @3:41:42 PM	3/15/2021
S – 3.01	OWRF – Aeration Basin Plans	90% Submittal	3/11/2021 @3:41:43 PM	3/15/2021
S – 3.02	OWRF – Aeration Basins Sections and Details 1	90% Submittal	3/11/2021 @3:41:45 PM	3/15/2021

S – 3.03	OWRF – Aeration Basins Sections and Details 2	90% Submittal	3/11/2021 @3:41:46 PM	3/15/2021
S – 3.04	OWRF – Aeration Basins Sections and Details 3	90% Submittal	3/11/2021 @3:41:47 PM	3/15/2021
S – 3.05	OWRF – Anoxic Basins Plan	90% Submittal	3/11/2021 @3:41:48 PM	3/15/2021
S – 3.06	OWRF – Anoxic Basins Sections and Details 1	90% Submittal	3/11/2021 @3:41:49 PM	3/15/2021
S – 3.07	OWRF – Anoxic Basins Sections and Details 2	90% Submittal	3/11/2021 @3:41:50 PM	3/15/2021
S – 3.08	OWRF – Anoxic Basins Sections and Details 3	90% Submittal	3/11/2021 @3:41:52 PM	3/15/2021
S – 3.09	OWRF – Anoxic Basins Sections and Details 4	90% Submittal	3/11/2021 @3:41:52 PM	3/15/2021
S – 3.21	OWRF – Secondary Clarifiers Upper Plan	90% Submittal	3/11/2021 @3:41:53 PM	3/15/2021
S – 3.22	OWRF – Secondary Clarifiers Sections 1	90% Submittal	3/11/2021 @3:41:54 PM	3/15/2021
S – 3.41	OWRF – Disc Filters Lower Plan	90% Submittal	3/11/2021 @3:41:55 PM	3/15/2021
S – 3.42	OWRF – Disc Filters Channel Level	90% Submittal	3/11/2021 @3:41:55 PM	3/15/2021
S – 3.43	OWRF – Disc Filters Upper Plan	90% Submittal	3/11/2021 @3:41:56 PM	3/15/2021
S – 3.44	OWRF – Disc Filters Canopy Framing	90% Submittal	3/11/2021 @3:41:57 PM	3/15/2021
S – 3.45	OWRF – Disc Filters Sections 1	90% Submittal	3/11/2021 @3:41:57 PM	3/15/2021
S – 3.46	OWRF – Disc Filters Sections 2	90% Submittal	3/11/2021 @3:41:58 PM	3/15/2021
S – 3.47	OWRF – Disc Filters Sections 3	90% Submittal	3/11/2021 @3:41:59 PM	3/15/2021
S – 3.48	OWRF – Disc Filters Canopy Sections and Details	90% Submittal	3/11/2021 @3:42:00 PM	3/15/2021
S – 3.49	OWRF – Disc Filters Sections and Details 1	90% Submittal	3/11/2021 @3:42:02 PM	3/15/2021
S – 3.50	OWRF – Disc Filters Sections and Details 1	90% Submittal	3/11/2021 @3:42:04 PM	3/15/2021
S – 3.51	OWRF – Disc Filters Sections and Details 1	90% Submittal	3/11/2021 @3:42:05 PM	3/15/2021
S – 3.52	OWRF – Disc Filters Platform Plan and Details	90% Submittal	3/11/2021 @3:42:06 PM	3/15/2021
S – 3.60	OWRF – Chlorine Contact Basin No. 3 Plans and Sections	90% Submittal	3/11/2021 @3:42:07 PM	3/15/2021
S – 3.61	OWRF – Reservoir Lower Plan	90% Submittal	3/11/2021 @3:42:07 PM	3/15/2021

S – 3.62	OWRF – Reservoir Upper Plan	90% Submittal	3/11/2021 @3:42:08 PM	3/15/2021
S – 3.63	OWRF – Reservoir Finished Grade Plan	90% Submittal	3/11/2021 @3:42:08 PM	3/15/2021
S – 3.64	OWRF – Reservoir Enlarged Plans 1	90% Submittal	3/11/2021 @3:42:09 PM	3/15/2021
S – 3.65	OWRF – Reservoir Enlarged Plans 2	90% Submittal	3/11/2021 @3:42:10 PM	3/15/2021
S – 3.66	OWRF – Reservoir Enlarged Plans 2	90% Submittal	3/11/2021 @3:42:11 PM	3/15/2021
S – 3.67	OWRF – Reservoir Sections 1	90% Submittal	3/11/2021 @3:42:12 PM	3/15/2021
S – 3.68	OWRF – Reservoir Sections 2	90% Submittal	3/11/2021 @3:42:13 PM	3/15/2021
S – 3.69	OWRF – Reservoir Sections 3	90% Submittal	3/11/2021 @3:42:14 PM	3/15/2021
S – 3.70	OWRF – Reservoir Sections 4	90% Submittal	3/11/2021 @3:42:16 PM	3/15/2021
S – 3.71	OWRF – Reservoir Sections 5	90% Submittal	3/11/2021 @3:42:17 PM	3/15/2021
S – 3.72	OWRF – Reservoir Sections 6	90% Submittal	3/11/2021 @3:42:19 PM	3/15/2021
S – 3.73	OWRF – Reservoir Sections 7	90% Submittal	3/11/2021 @3:42:21 PM	3/15/2021
S – 3.74	OWRF – Reservoir Sections 8	90% Submittal	3/11/2021 @3:42:22 PM	3/15/2021
S – 3.81	OWRF – Sludge Holding Tanks Lower Plan	90% Submittal	3/11/2021 @3:42:22 PM	3/15/2021
S – 3.82	OWRF – Sludge Holding Tanks Upper Plan	90% Submittal	3/11/2021 @3:42:23 PM	3/15/2021
S – 3.83	OWRF – Sludge Holding Tanks Upper Plan Reinforcement	90% Submittal	3/11/2021 @3:42:24 PM	3/15/2021
S – 3.84	OWRF – Sludge Holding Tanks Sections 1	90% Submittal	3/11/2021 @3:42:24 PM	3/15/2021
S – 3.85	OWRF – Sludge Holding Tanks Sections and Details 2	90% Submittal	3/11/2021 @3:42:27 PM	3/15/2021
S – 3.86	OWRF – Sludge Holding Tanks Sections and Details 3	90% Submittal	3/11/2021 @3:42:27 PM	3/15/2021
S – 3.87	OWRF – Sludge Holding Tanks Sections and Details 4	90% Submittal	3/11/2021 @3:42:29 PM	3/15/2021
S – 3.88	OWRF – Sludge Holding Tanks Blower Building Sections and Details 1	90% Submittal	3/11/2021 @3:42:31 PM	3/15/2021
S – 3.89	OWRF – Sludge Holding Tanks Blower Building Sections and Details 2	90% Submittal	3/11/2021 @3:42:32 PM	3/15/2021
S – 3.90	OWRF – Sludge Holding Tanks Blower Building Sections and Details 3	90% Submittal	3/11/2021 @3:42:35 PM	3/15/2021
S – 3.91	OWRF – Sludge Holding Tanks Blower Building Sections and Details 4	90% Submittal	3/11/2021 @3:42:35 PM	3/15/2021

S – 4.01	AWRF – Maintenance Building Foundation Plan	90% Submittal	3/11/2021 @3:42:36 PM	3/15/2021
S – 4.02	AWRF – Maintenance Building Foundation Sections 1	90% Submittal	3/11/2021 @3:42:38 PM	3/15/2021
A – 1.21	AWRF Blower Building Patch Notes	90% Submittal		3/15/2021
A – 3.81	OWRF – Sludge Holding Tanks Blower Building Code Sheet	90% Submittal	3/12/2021 @2:03:04 PM	3/15/2021
A – 3.82	OWRF – Sludge Holding Tanks Blower Building Schedules and Details	90% Submittal	3/12/2021 @2:03:04 PM	3/15/2021
A – 3.83	OWRF – Sludge Holding Tanks Blower Building Floor and Reflected Ceiling Plans	90% Submittal	3/12/2021 @2:03:04 PM	3/15/2021
A – 3.84	OWRF – Sludge Holding Tanks Blower Building Roof Plan and Sections	90% Submittal	3/12/2021 @2:03:04 PM	3/15/2021
A – 3.85	OWRF – Sludge Holding Tanks Blower Building Exterior Elevations	90% Submittal	3/12/2021 @2:03:04 PM	3/15/2021
A – 1.81	AWRF – Maintenance Building Code Analysis	90% Submittal	3/12/2021 @2:03:04 PM	3/15/2021
A – 1.82	AWRF – Maintenance Building Floor Plans	90% Submittal	3/12/2021 @2:03:04 PM	3/15/2021
A – 1.83	AWRF – Maintenance Building Reflected Ceiling Plan	90% Submittal	3/12/2021 @2:03:04 PM	3/15/2021
A – 1.84	AWRF – Maintenance Building Roof Plan	90% Submittal	3/12/2021 @2:03:04 PM	3/15/2021
A – 1.85	AWRF – Maintenance Building Elevations	90% Submittal	3/12/2021 @2:03:04 PM	3/15/2021
A – 1.86	AWRF – Maintenance Building Sections	90% Submittal	3/12/2021 @2:03:04 PM	3/15/2021
A – 1.87	AWRF – Maintenance Building Interior Elevations	90% Submittal	3/12/2021 @2:03:04 PM	3/15/2021
A – 1.88	AWRF – Maintenance Building Schedules	90% Submittal	3/12/2021 @2:03:04 PM	3/15/2021
A – 1.89	AWRF – Maintenance Building Details	90% Submittal	3/12/2021 @2:03:04 PM	3/15/2021
A – 1.90	AWRF – Maintenance Building Details	90% Submittal	3/12/2021 @2:03:04 PM	3/15/2021
A – 1.91	AWRF – Maintenance Building Details	90% Submittal	3/12/2021 @2:03:04 PM	3/15/2021
A – 1.92	AWRF – Maintenance Building Furniture Plan	90% Submittal	3/12/2021 @2:03:04 PM	3/15/2021
H – 1.21	AWRF – Aeration Basin Blower Bldg. Mech. Schedules, General Notes & Details	90% Submittal	3/9/2021 @2:32:32 PM	3/15/2021
H – 1.22	AWRF – Aeration Basin Blower Bldg. Mechanical HVAC Demolition Floor Plan	90% Submittal	3/9/2021 @2:31:05 PM	3/15/2021
H – 1.23	AWRF – Aeration Basin Blower Bldg. Mechanical HVAC Remodel Floor Plan	90% Submittal	3/9/2021 @2:29:18 PM	3/15/2021

H – 1.81	AWRF – Maintenance Building Mechanical Schedules and General Notes	90% Submittal	3/11/2021 @8:22:39 AM	3/15/2021
H – 1.82	AWRF – Maintenance Building Mechanical Schedules and Calculations	90% Submittal	3/11/2021 @8:22:59 AM	3/15/2021
H – 1.83	AWRF – Maintenance Building Mechanical Floor Plans	90% Submittal	3/11/2021 @8:28:36 AM	3/15/2021
H – 1.84	AWRF – Maintenance Building Mechanical Details	90% Submittal	3/10/2021 @1:47:34 PM	3/15/2021
H – 1.85	AWRF – Maintenance Building Mechanical Details	90% Submittal	3/10/2021 @1:51:31 PM	3/15/2021
H – 3.81	OWRF – Sludge Holding Tank Blower Building No. 2 Mechanical Schedules and General Notes	90% Submittal	3/9/2021 @2:23:31 PM	3/15/2021
H – 3.82	OWRF – Sludge Holding Tank Blower Building No. 2 Mechanical HVAC Floor Plan	90% Submittal	3/9/2021 @2:16:10 PM	3/15/2021
H – 3.83	OWRF – Sludge Holding Tank Blower Building No. 2 Mechanical Details	90% Submittal	3/9/2021 @2:10:22 PM	3/15/2021
P – 1.81	AWRF – Maintenance Building Plumbing Schedules and General Notes	90% Submittal	3/11/2021 @8:33:49 AM	3/15/2021
P – 1.82	AWRF – Maintenance Building Plumbing Schedules and Calculations	90% Submittal	3/11/2021 @8:33:29 AM	3/15/2021
P – 1.83	AWRF – Maintenance Building Plumbing Floor Plans	90% Submittal	3/11/2021 @10:52:49 AM	3/15/2021
P – 1.84	AWRF – Maintenance Building Plumbing Details	90% Submittal	3/11/2021 @8:34:22 AM	3/15/2021
P – 1.85	AWRF – Maintenance Building Plumbing Details	90% Submittal	3/11/2021 @8:34:41 AM	3/15/2021
P – 1.86	AWRF – Maintenance Building Plumbing Riser Diagrams	90% Submittal	3/11/2021 @1:01:57 PM	3/15/2021
E – 0.0	Electrical Symbols and Legend	90% Submittal	3/12/2021 @3:24:57 PM	3/15/2021
E – 0.01	AWRF – Plant Overall Site Plan	90% Submittal	3/12/2021 @3:25:06 PM	3/15/2021
E – 0.02	AWRF – Blower Building & Secondary Clarifiers 1-3 Partial Site Plan	90% Submittal	3/12/2021 @3:25:14 PM	3/15/2021
E – 0.03	AWRF – Filter Basins Partial Site Plan	90% Submittal	3/12/2021 @3:25:21 PM	3/15/2021
E – 0.04	AWRF – Maintenance Building Partial Site Plan	90% Submittal	3/12/2021 @3:25:28 PM	3/15/2021
E – 0.05	Lighting Fixture Schedule	90% Submittal	3/12/2021 @3:25:30 PM	3/15/2021
E – 1.21	AWRF – Plant Overall Single Line Diagram – Demolition	90% Submittal	3/12/2021 @3:25:32 PM	3/15/2021
E – 1.22	AWRF – Plant Overall Single Line Diagram Modifications	90% Submittal	3/12/2021 @3:25:34 PM	3/15/2021

E – 1.23	AWRF – MCC-AER Single Line Diagram Modifications 1 of 2	90% Submittal	3/12/2021 @3:25:36 PM	3/15/2021
E – 1.24	AWRF – MCC-AER Single Line Diagram Modifications 2 of 2	90% Submittal	3/12/2021 @3:25:38 PM	3/15/2021
E – 1.25	AWRF – MCC-BL2 Single Line Diagram Modifications	90% Submittal	3/12/2021 @3:25:40 PM	3/15/2021
E – 1.26	AWRF – Blower Building Demolition Power Plan	90% Submittal	3/12/2021 @3:25:47 PM	3/15/2021
E – 1.27	AWRF – Blower Building Area Modifications Power Plan	90% Submittal	3/12/2021 @3:25:56 PM	3/15/2021
E – 1.28	AWRF – Blower Building Power Conduit Block Diagram	90% Submittal	3/12/2021 @3:25:58 PM	3/15/2021
E – 1.61	AWRF – Existing Filter Basins 1-4 Panel Schedules - Demolition	90% Submittal	3/12/2021 @3:26:06 PM	3/15/2021
E – 1.62	AWRF – Existing Filter Basins 5-8 Panel Schedules - Demolition	90% Submittal	3/12/2021 @3:26:12 PM	3/15/2021
E – 1.63	AWRF – Filter Basins Panel Schedules – Modifications 1 of 2	90% Submittal	3/12/2021 @3:26:22 PM	3/15/2021
E – 1.64	AWRF – Filter Basins Panel Schedules – Modifications 2 of 2	90% Submittal	3/12/2021 @3:26:28 PM	3/15/2021
E – 1.65	AWRF – Existing Filter Basins 1-8 Power Plan - Demolition	90% Submittal	3/12/2021 @3:26:38 PM	3/15/2021
E – 1.66	AWRF – Filter Basin Overall Electrical Plan	90% Submittal	3/12/2021 @3:26:48 PM	3/15/2021
E – 1.67	AWRF – Filter Basins DS1 Power Plan	90% Submittal	3/12/2021 @3:26:59 PM	3/15/2021
E – 1.68	AWRF – Filter Basins DS2 Power Plan	90% Submittal	3/12/2021 @3:27:10 PM	3/15/2021
E – 1.69	AWRF – Filter Basins DS3 Power Plan	90% Submittal	3/12/2021 @3:27:20 PM	3/15/2021
E – 1.70	AWRF – Filter Basins DS4 Power Plan	90% Submittal	3/12/2021 @3:27:30 PM	3/15/2021
E – 1.71	AWRF – Filter Basins DS5 Power Plan	90% Submittal	3/12/2021 @3:27:41 PM	3/15/2021
E – 1.72	AWRF – Filter Basins DS6 Power Plan	90% Submittal	3/12/2021 @3:27:52 PM	3/15/2021
E – 1.73	AWRF – Filter Basins Controls Conduit Plan	90% Submittal	3/12/2021 @3:28:02 PM	3/15/2021
E – 1.74	AWRF – Filter Basins Power Conduit Block Diagram 1 of 4	90% Submittal	3/12/2021 @3:28:06 PM	3/15/2021
E – 1.75	AWRF – Filter Basins Power Conduit Block Diagram 2 of 4	90% Submittal	3/12/2021 @3:28:08 PM	3/15/2021
E – 1.76	AWRF – Filter Basins Power Conduit Block Diagram 3 of 4	90% Submittal	3/12/2021 @3:28:11 PM	3/15/2021
E – 1.77	AWRF – Filter Basins Power Conduit Block Diagram 4 of 4	90% Submittal	3/12/2021 @3:28:15 PM	3/15/2021
E – 1.78	AWRF – Filter Basins Controls Conduit Block Diagram 1 of 3	90% Submittal	3/12/2021 @3:28:17 PM	3/15/2021

E – 1.79	AWRF – Filter Basins Controls Conduit Block Diagram 2 of 3	90% Submittal	3/12/2021 @3:28:20 PM	3/15/2021
E – 1.80	AWRF – Filter Basins Controls Conduit Block Diagram 3 of 3	90% Submittal	3/12/2021 @3:28:23 PM	3/15/2021
E – 1.81	AWRF – Filter Basins Sump Pump Schematic Diagram	90% Submittal	3/12/2021 @3:28:26 PM	3/15/2021
E – 1.82	AWRF – Fiber Optic System Single Line Diagram Demolition	90% Submittal	3/12/2021 @3:28:29 PM	3/15/2021
E – 1.83	AWRF – Fiber Optic System Single Line Diagram Modifications	90% Submittal	3/12/2021 @3:28:32 PM	3/15/2021
E – 1.84	AWRF – Filter Basins Lighting Plan	90% Submittal	3/12/2021 @3:28:43 PM	3/15/2021
E – 1.91	AWRF – MCC-TH2 Single Line Diagram Modifications	90% Submittal	3/15/2021 @2:23:58 PM	3/15/2021
E – 1.92	AWRF – Maintenance Building Panel Schedules	90% Submittal	3/15/2021 @10:27:21 AM	3/15/2021
E – 1.93	AWRF – Maintenance Building Ground Level Power Plan	90% Submittal	3/15/2021 @10:09:01 AM	3/15/2021
E – 1.94	AWRF – Maintenance Building Lighting Plan Sheet 1 of 2	90% Submittal	3/12/2021 @3:29:06 PM	3/15/2021
E – 1.95	AWRF – Maintenance Building Lighting Plan Sheet 2 of 2	90% Submittal	3/15/2021 @10:09:48 AM	3/15/2021
E – 1.96	AWRF – Maintenance Building Conduit Block Diagram 1 of 2	90% Submittal	3/12/2021 @3:41:39 PM	3/15/2021
E – 1.97	AWRF – Maintenance Building Conduit Block Diagram 2 of 2	90% Submittal	3/12/2021 @3:39:32 PM	3/15/2021
E – 2.01	OWRF – Overall Electrical Site Plan	90% Submittal	3/12/2021 @3:26:39 PM	3/15/2021
E – 2.02	OWRF – Partial Site Electrical Plan 1	90% Submittal	3/12/2021 @3:26:49 PM	3/15/2021
E – 2.03	OWRF – Partial Site Electrical Plan 2	90% Submittal	3/12/2021 @3:26:57PM	3/15/2021
E – 2.04	OWRF – Partial Site Electrical Plan 3	90% Submittal	3/12/2021 @3:27:07 PM	3/15/2021
E – 2.05	OWRF – Partial Site Electrical Plan 4	90% Submittal	3/12/2021 @3:27:16 PM	3/15/2021
E – 2.06	OWRF – Partial Site Electrical Plan 5	90% Submittal	3/12/2021 @3:27:27 PM	3/15/2021
E – 3.01	OWRF – MCC-419-001 Single Line Diagram – Demolition	90% Submittal	3/12/2021 @3:27:29 PM	3/15/2021
E – 3.02	OWRF – MCC-419-002 Single Line Diagram – Demolition	90% Submittal	3/12/2021 @3:27:31 PM	3/15/2021
E – 3.03	OWRF – MCC-419-001 & 002 Existing Load Summaries	90% Submittal	3/12/2021 @3:27:35 PM	3/15/2021
E – 3.04	OWRF – MCC-419-001 Single Line Diagram - Modifications	90% Submittal	3/12/2021 @3:27:39 PM	3/15/2021
E – 3.05	OWRF – MCC-419-002 Single Line Diagram - Modifications	90% Submittal	3/12/2021 @3:27:41 PM	3/15/2021

E – 3.06	OWRF – MCC-419-001 & 002 New Load Summaries & LP-419-001 Panel Schedule	90% Submittal	3/12/2021 @3:27:45 PM	3/15/2021
E – 3.07	OWRF – Anoxic Basins Electrical Plan - Demolition	90% Submittal	3/12/2021 @3:27:51 PM	3/15/2021
E – 3.08	OWRF – Anoxic Basins Electrical Plan - Modifications	90% Submittal	3/12/2021 @3:27:55 PM	3/15/2021
E – 3.09	OWRF – Aeration Basins 1 Electrical Plan – Modifications	90% Submittal	3/12/2021 @3:27:59 PM	3/15/2021
E – 3.10	OWRF – Aeration Basins 2 Electrical Plan – Modifications	90% Submittal	3/12/2021 @3:28:01 PM	3/15/2021
E – 3.11	OWRF – Clarifier Splitter Box Electrical Plan - Demolition	90% Submittal	3/12/2021 @3:28:06 PM	3/15/2021
E – 3.12	OWRF – Anoxic Basins Schematic Diagram	90% Submittal	3/15/2021 @2:48:57 PM	3/15/2021
E – 3.13	OWRF – Aeration Basins Conduit Block Diagram – Power 1	90% Submittal	3/12/2021 @3:28:11 PM	3/15/2021
E – 3.14	OWRF – Aeration Basins Conduit Block Diagram – Power 2	90% Submittal	3/12/2021 @3:28:13 PM	3/15/2021
E – 3.15	OWRF – Anoxic Basins Conduit Block Diagram – Control 1	90% Submittal	3/15/2021 @2:51:55 PM	3/15/2021
E – 3.16	OWRF – Anoxic Basins Conduit Block Diagram – Control 2	90% Submittal	3/15/2021 @2:52:21 PM	3/15/2021
E – 3.17	OWRF – Anoxic Basins Conduit Block Diagram – Control 3	90% Submittal	3/12/2021 @3:28:20 PM	3/15/2021
E – 3.18	OWRF – RAS Pump Schematic Diagram	90% Submittal	3/12/2021 @3:28:22 PM	3/15/2021
E – 3.19	OWRF – WAS Pump Schematic Diagram	90% Submittal	3/12/2021 @3:28:25 PM	3/15/2021
E – 3.20	OWRF – Aeration Basin Blowers and Mixers Schematic Diagrams	90% Submittal	3/12/2021 @3:28:27 PM	3/15/2021
E – 3.21	OWRF – MCC-449-001 Single Line Diagram - Demolition	90% Submittal	3/12/2021 @3:28:29 PM	3/15/2021
E – 3.22	OWRF – MCC-449-002 Single Line Diagram - Demolition	90% Submittal	3/12/2021 @3:28:32 PM	3/15/2021
E – 3.23	OWRF – MCC-449-001 & 002 Load Summaries and LP-B Panel Schedule Demolitions	90% Submittal	3/12/2021 @3:28:36 PM	3/15/2021
E – 3.24	OWRF – MCC-449-001 New Single Line Diagram	90% Submittal	3/12/2021 @3:28:39 PM	3/15/2021
E – 3.25	OWRF – MCC-449-002 New Single Line Diagram	90% Submittal	3/12/2021 @3:28:42 PM	3/15/2021
E – 3.26	OWRF – MCC-449-001 & 002 Load Summaries and LP-B & LP-419-026 Panel Schedules	90% Submittal	3/12/2021 @3:28:47 PM	3/15/2021
E – 3.27	OWRF – Secondary Clarifiers 1-3 Electrical Plan – Demolition	90% Submittal	3/12/2021 @3:28:58 PM	3/15/2021

E – 3.28	OWRF – Blower Building MCC Room Power Plan – Demolition	90% Submittal	3/12/2021 @3:29:05 PM	3/15/2021
E – 3.29	OWRF – Blower Building MCC Room Power Plan – Modifications	90% Submittal	3/12/2021 @3:29:11 PM	3/15/2021
E – 3.30	OWRF – Secondary Clarifiers 1-2 Electrical Plan – Modifications	90% Submittal	3/12/2021 @3:29:17 PM	3/15/2021
E – 3.31	OWRF – Secondary Clarifier 3 Electrical Plan – Modifications	90% Submittal	3/12/2021 @3:29:21 PM	3/15/2021
E – 3.32	OWRF – Secondary Clarifiers Schematic Diagram	90% Submittal	3/12/2021 @3:29:24 PM	3/15/2021
E – 3.33	OWRF – Secondary Clarifiers 1-3 Conduit Block Diagram – Power	90% Submittal	3/12/2021 @3:29:26 PM	3/15/2021
E – 3.34	OWRF – Secondary Clarifiers 1-3 Conduit Block Diagram – Control	90% Submittal	3/12/2021 @3:29:28 PM	3/15/2021
E – 3.35	OWRF – Blower Conduit Block Diagram – Power 1	90% Submittal	3/12/2021 @3:29:30 PM	3/15/2021
E – 3.36	OWRF – Blower Conduit Block Diagram – Power 2	90% Submittal	3/12/2021 @3:29:32 PM	3/15/2021
E – 3.37	OWRF – Blower Conduit Block Diagram – Control	90% Submittal	3/12/2021 @3:29:34 PM	3/15/2021
E – 3.38	OWRF – RAS/WAS Pump Station Power Plan – Demolitions	90% Submittal	3/12/2021 @3:29:38 PM	3/15/2021
E – 3.39	OWRF – RAS/WAS Pump Station Power Plan – Demolition Details	90% Submittal	3/12/2021 @3:29:41 PM	3/15/2021
E – 3.40	OWRF – RAS/WAS Pump Station Power Plan – Modifications	90% Submittal	3/12/2021 @3:29:44 PM	3/15/2021
E – 3.41	OWRF – MCC-539-001 & 002 Single Line Diagram – Demolition	90% Submittal	3/12/2021 @3:29:46 PM	3/15/2021
E – 3.42	OWRF – MCC-539-001 & 002 Load Summaries – Demolition	90% Submittal	3/12/2021 @3:29:50 PM	3/15/2021
E – 3.43	OWRF – MCC-539-001 & 002 Single Line Diagram – Modifications	90% Submittal	3/12/2021 @3:29:53 PM	3/15/2021
E – 3.44	OWRF – MCC-539-001 & 002 Load Summaries - Modifications	90% Submittal	3/12/2021 @3:29:56 PM	3/15/2021
E – 3.45	OWRF – Traveling Bridge Filter Basins No. 1 and 2 Electrical Plan - Demolition	90% Submittal	3/12/2021 @3:30:03 PM	3/15/2021
E – 3.46	OWRF – Filter Basins Overall Electrical Plan	90% Submittal	3/12/2021 @3:30:10 PM	3/15/2021
E – 3.47	OWRF – Enlarged Disc Filter DIS1 Electrical Plan	90% Submittal	3/12/2021 @3:30:15 PM	3/15/2021
E – 3.48	OWRF – Enlarged Disc Filter DS2 and DS3 Electrical Plan	90% Submittal	3/12/2021 @3:30:22 PM	3/15/2021
E – 3.49	OWRF – Enlarged Disc Filter DS4 Electrical Plan	90% Submittal	3/12/2021 @3:30:28 PM	3/15/2021
E – 3.50	OWRF – Disc Filter Sump Pump Schematic Diagram	90% Submittal	3/12/2021 @3:30:30 PM	3/15/2021
E – 3.51	OWRF – Disc Filters DS1-DS4 Conduit Block Diagram – Power 1	90% Submittal	3/12/2021 @3:30:33 PM	3/15/2021

E – 3.52	OWRF – Disc Filters DS1-DS4 Conduit Block Diagram – Power 2	90% Submittal	3/12/2021 @3:30:35 PM	3/15/2021
E – 3.53	OWRF – Disc Filters DS1-DS4 Conduit Block Diagram – Power 3	90% Submittal	3/12/2021 @3:30:37 PM	3/15/2021
E – 3.54	OWRF – Disc Filters DS1-DS4 Conduit Block Diagram – Control 1	90% Submittal	3/12/2021 @3:30:39 PM	3/15/2021
E – 3.55	OWRF – Disc Filters DS1-DS4 Conduit Block Diagram – Control 2	90% Submittal	3/12/2021 @3:30:41 PM	3/15/2021
E – 3.56	OWRF – Disc Filters DS1-DS4 Conduit Block Diagram – Control 3	90% Submittal	3/12/2021 @3:30:44 PM	3/15/2021
E – 3.57	OWRF – Disc Filters Canopy Lighting Plan	90% Submittal	3/12/2021 @3:30:47 PM	3/15/2021
E – 3.61	OWRF – Reclaimed Water Pump Station Panel Schedules – Modifications	90% Submittal	3/12/2021 @3:30:51 PM	3/15/2021
E – 3.62	OWRF – Reclaimed Water Pump Station Panel Schedules – Demolition	90% Submittal	3/12/2021 @3:30:56 PM	3/15/2021
E – 3.63	OWRF – Reclaimed Water Pump Station Electrical Building Plan – Modifications	90% Submittal	3/12/2021 @3:31:01 PM	3/15/2021
E – 3.64	OWRF – Reclaimed Water Reservoir Electrical Plan	90% Submittal	3/12/2021 @3:31:06 PM	3/15/2021
E – 3.65	OWRF – Reclaimed Water Reservoir Conduit Block Diagram – Power	90% Submittal	3/12/2021 @3:31:09 PM	3/15/2021
E – 3.66	OWRF – Reclaimed Water Reservoir Conduit Block Diagram – Control	90% Submittal	3/12/2021 @3:31:11 PM	3/15/2021
E – 3.81	OWRF – MCC-610-001 & 002 Single Line Diagrams – Modifications	90% Submittal	3/12/2021 @3:31:13 PM	3/15/2021
E – 3.82	OWRF – MCC-610-001 & 002 Load Summaries/Elev – Modifications	90% Submittal	3/12/2021 @3:31:17 PM	3/15/2021
E – 3.83	OWRF – MCC-610-003 & 004 Single Line Diagrams	90% Submittal	3/12/2021 @3:31:21 PM	3/15/2021
E – 3.84	OWRF – MCC-610-001 & 004 Load Summaries/Elevations	90% Submittal	3/12/2021 @3:31:25 PM	3/15/2021
E – 3.85	OWRF – DP-610-002 and LP-610-002 Panel Schedules	90% Submittal	3/12/2021 @3:31:29 PM	3/15/2021
E – 3.86	OWRF – Sludge Holding Facilities Overall Electrical Plan	90% Submittal	3/12/2021 @3:31:34 PM	3/15/2021
E – 3.87	OWRF – New Sludge Holding Electrical Room – Electrical Power Plan	90% Submittal	3/12/2021 @3:31:38 PM	3/15/2021
E – 3.88	OWRF – New Sludge Holding Blower Room – Electrical Power Plan	90% Submittal	3/12/2021 @3:31:42 PM	3/15/2021
E – 3.89	OWRF – New Sludge Holding Tanks Electrical Power Plan	90% Submittal	3/12/2021 @3:31:45 PM	3/15/2021
E – 3.90	OWRF – New Sludge Holding Building Electrical Lighting Plan	90% Submittal	3/12/2021 @3:31:49 PM	3/15/2021
E – 3.91	OWRF – New Sludge Holding Tanks Electrical Lighting Plan	90% Submittal	3/12/2021 @3:31:53 PM	3/15/2021
E – 3.92	OWRF – Sludge Holding Tank Blowers Schematic Diagrams	90% Submittal	3/12/2021 @3:31:55 PM	3/15/2021

E – 3.93	OWRF – Sludge Holding Facility Conduit Block Diagram – Power 1	90% Submittal	3/12/2021 @3:31:57 PM	3/15/2021
E – 3.94	OWRF – Sludge Holding Facility Conduit Block Diagram – Power 2	90% Submittal	3/12/2021 @3:31:59 PM	3/15/2021
E – 3.95	OWRF – Sludge Holding Facility Conduit Block Diagram – Control	90% Submittal	3/12/2021 @3:32:01 PM	3/15/2021
E – 7.01	Standard Electrical Details Sheet 1	90% Submittal	3/12/2021 @3:32:04 PM	3/15/2021
E – 7.02	Standard Electrical Details Sheet 2	90% Submittal	3/12/2021 @3:32:06 PM	3/15/2021
E – 7.03	Standard Electrical Details Sheet 3	90% Submittal	3/12/2021 @3:32:08 PM	3/15/2021
I – 0.00	Instrumentation Standard Symbols and Legend	90% Submittal	3/12/2021 @3:45:41 PM	3/15/2021
I – 1.61	AWRF – Disc Filter DS1 P&ID Sheet 1 of 3	90% Submittal	3/15/2021 @2:11:59 PM	3/15/2021
I – 1.62	AWRF – Disc Filter DS1 P&ID Sheet 2 of 3	90% Submittal	3/15/2021 @2:12:00 PM	3/15/2021
I – 1.63	AWRF – Disc Filter DS1 P&ID Sheet 3 of 3	90% Submittal	3/15/2021 @2:12:01 PM	3/15/2021
I – 1.64	AWRF – Disc Filter DS2 P&ID Sheet 1 of 3	90% Submittal	3/15/2021 @2:12:01 PM	3/15/2021
I – 1.65	AWRF – Disc Filter DS2 P&ID Sheet 2 of 3	90% Submittal	3/15/2021 @2:20:23 PM	3/15/2021
I – 1.66	AWRF – Disc Filter DS2 P&ID Sheet 3 of 3	90% Submittal	3/15/2021 @2:12:02 PM	3/15/2021
I – 1.67	AWRF – Disc Filter DS3 P&ID Sheet 1 of 3	90% Submittal	3/15/2021 @2:12:02 PM	3/15/2021
I – 1.68	AWRF – Disc Filter DS3 P&ID Sheet 2 of 3	90% Submittal	3/15/2021 @2:12:03 PM	3/15/2021
I – 1.69	AWRF – Disc Filter DS3 P&ID Sheet 3 of 3	90% Submittal	3/15/2021 @2:12:03 PM	3/15/2021
I – 1.70	AWRF – Disc Filter DS4 P&ID Sheet 1 of 3	90% Submittal	3/15/2021 @2:12:04 PM	3/15/2021
I – 1.71	AWRF – Disc Filter DS4 P&ID Sheet 2 of 3	90% Submittal	3/15/2021 @2:12:04 PM	3/15/2021
I – 1.72	AWRF – Disc Filter DS4 P&ID Sheet 3 of 3	90% Submittal	3/15/2021 @2:12:05 PM	3/15/2021
I – 1.73	AWRF – Disc Filter DS5 P&ID Sheet 1 of 3	90% Submittal	3/15/2021 @2:12:05 PM	3/15/2021
I – 1.74	AWRF – Disc Filter DS5 P&ID Sheet 2 of 3	90% Submittal	3/15/2021 @2:12:06 PM	3/15/2021
I – 1.75	AWRF – Disc Filter DS5 P&ID Sheet 3 of 3	90% Submittal	3/15/2021 @2:12:06 PM	3/15/2021
I – 1.76	AWRF – Disc Filter DS6 P&ID Sheet 1 of 3	90% Submittal	3/15/2021 @2:12:07 PM	3/15/2021
I – 1.77	AWRF – Disc Filter DS6 P&ID Sheet 2 of 3	90% Submittal	3/15/2021 @2:12:07 PM	3/15/2021

I – 1.78	AWRF – Disc Filter DS6 P&ID Sheet 3 of 3	90% Submittal	3/15/2021 @2:12:08 PM	3/15/2021
I – 1.79	AWRF – Disc Filters Basins Sump P&ID	90% Submittal	3/15/2021 @2:31:58 PM	3/15/2021
I – 3.00	OWRF – Control System Architecture Modifications – Sheet 1 of 2	90% Submittal	3/12/2021 @3:35:37 PM	3/15/2021
I – 3.01	OWRF – Control System Architecture Modifications – Sheet 2 of 2	90% Submittal	3/12/2021 @3:35:39 PM	3/15/2021
I – 3.02	OWRF – Anoxic Basins P&ID – Modifications	90% Submittal	3/15/2021 @3:08:11 PM	3/15/2021
I – 3.03	OWRF – Blower Building Miscellaneous P&ID	90% Submittal	3/12/2021 @3:35:44 PM	3/15/2021
I – 3.04	OWRF – Aeration Basin 1 P&ID – Modifications	90% Submittal	3/12/2021 @3:35:46 PM	3/15/2021
I – 3.05	OWRF – Aeration Basin 2 P&ID – Modifications	90% Submittal	3/12/2021 @3:35:48 PM	3/15/2021
I – 3.06	OWRF – Aeration Blower 1 P&ID – Modifications	90% Submittal	3/12/2021 @3:35:50 PM	3/15/2021
I – 3.07	OWRF – Aeration Blower 2 P&ID – Modifications	90% Submittal	3/12/2021 @3:35:53 PM	3/15/2021
I – 3.08	OWRF – Aeration Blower 3 P&ID – Modifications	90% Submittal	3/12/2021 @3:35:55 PM	3/15/2021
I – 3.21	OWRF – Secondary Clarifier No. 1 P&ID	90% Submittal	3/12/2021 @3:35:57 PM	3/15/2021
I – 3.22	OWRF – Secondary Clarifier No. 2 P&ID	90% Submittal	3/12/2021 @3:35:59 PM	3/15/2021
I – 3.23	OWRF – Secondary Clarifier No. 3 P&ID	90% Submittal	3/12/2021 @3:36:01 PM	3/15/2021
I – 3.31	OWRF – RAS Pump Station P&ID	90% Submittal	3/15/2021 @3:43:57 PM	3/15/2021
I – 3.32	OWRF – WAS Pump Station P&ID	90% Submittal	3/15/2021 @3:43:43 PM	3/15/2021
I – 3.41	OWRF – Disc Filter DS1 P&ID Sheet 1 of 3	90% Submittal	3/12/2021 @3:36:09 PM	3/15/2021
I – 3.42	OWRF – Disc Filter DS1 P&ID Sheet 2 of 3	90% Submittal	3/12/2021 @3:36:11 PM	3/15/2021
I – 3.43	OWRF – Disc Filter DS1 P&ID Sheet 3 of 3	90% Submittal	3/12/2021 @3:36:13 PM	3/15/2021
I – 3.44	OWRF – Disc Filter DS2 P&ID Sheet 1 of 3	90% Submittal	3/12/2021 @3:36:16 PM	3/15/2021
I – 3.45	OWRF – Disc Filter DS2 P&ID Sheet 2 of 3	90% Submittal	3/12/2021 @3:36:18 PM	3/15/2021
I – 3.46	OWRF – Disc Filter DS2 P&ID Sheet 3 of 3	90% Submittal	3/12/2021 @3:36:19 PM	3/15/2021
I – 3.47	OWRF – Disc Filter D31 P&ID Sheet 1 of 3	90% Submittal	3/12/2021 @3:36:22 PM	3/15/2021
I – 3.48	OWRF – Disc Filter DS3 P&ID Sheet 2 of 3	90% Submittal	3/12/2021 @3:36:24 PM	3/15/2021

I – 3.49	OWRF – Disc Filter DS3 P&ID Sheet 3 of 3	90% Submittal	3/12/2021 @3:36:26 PM	3/15/2021
I – 3.50	OWRF – Disc Filter DS4 P&ID Sheet 1 of 3	90% Submittal	3/12/2021 @3:36:28 PM	3/15/2021
I – 3.51	OWRF – Disc Filter DS4 P&ID Sheet 2 of 3	90% Submittal	3/12/2021 @3:36:30 PM	3/15/2021
I – 3.52	OWRF – Disc Filter DS4 P&ID Sheet 3 of 3	90% Submittal	3/12/2021 @3:36:32 PM	3/15/2021
I – 3.53	OWRF – Disc Filter Basins Sump P&ID	90% Submittal	3/12/2021 @3:36:34 PM	3/15/2021
I – 3.61	OWRF – Reclaimed Water Reservoir P&ID	90% Submittal	3/12/2021 @3:36:37 PM	3/15/2021
I – 3.81	OWRF – Sludge Holding Tank Blower No. 4 P&ID	90% Submittal	3/12/2021 @3:36:39 PM	3/15/2021
I – 3.82	OWRF – Sludge Holding Tank Blower No. 5 P&ID	90% Submittal	3/12/2021 @3:36:42 PM	3/15/2021
I – 3.83	OWRF – Sludge Holding Tank Blower No. 6 P&ID	90% Submittal	3/12/2021 @3:36:45 PM	3/15/2021
I – 3.84	OWRF – Sludge Holding Tank Blower Air Supply Header P&ID	90% Submittal	3/12/2021 @3:36:47 PM	3/15/2021
I – 3.85	OWRF – Sludge Holding Tank No. 3 P&ID	90% Submittal	3/12/2021 @3:36:50 PM	3/15/2021
I – 3.86	OWRF – Sludge Holding Tank No. 4 P&ID	90% Submittal	3/12/2021 @3:36:53 PM	3/15/2021
I – 3.87	OWRF – Dewatering Feed Pump No. 1 P&ID – Modifications	90% Submittal	3/12/2021 @3:36:55 PM	3/15/2021
I – 3.88	OWRF – Dewatering Feed Pump No. 2 P&ID – Modifications	90% Submittal	3/12/2021 @3:36:58 PM	3/15/2021
I – 3.89	OWRF – Dewatering Feed Pump No. 3 P&ID – Modifications	90% Submittal	3/12/2021 @3:37:01 PM	3/15/2021
I – 3.90	OWRF – Dewatering Feed Pump No. 7 P&ID – Modifications	90% Submittal	3/12/2021 @3:37:03 PM	3/15/2021
I – 3.91	OWRF – Sludge Holding Tank Building Miscellaneous P&ID	90% Submittal	3/12/2021 @3:37:06 PM	3/15/2021

General Conditions

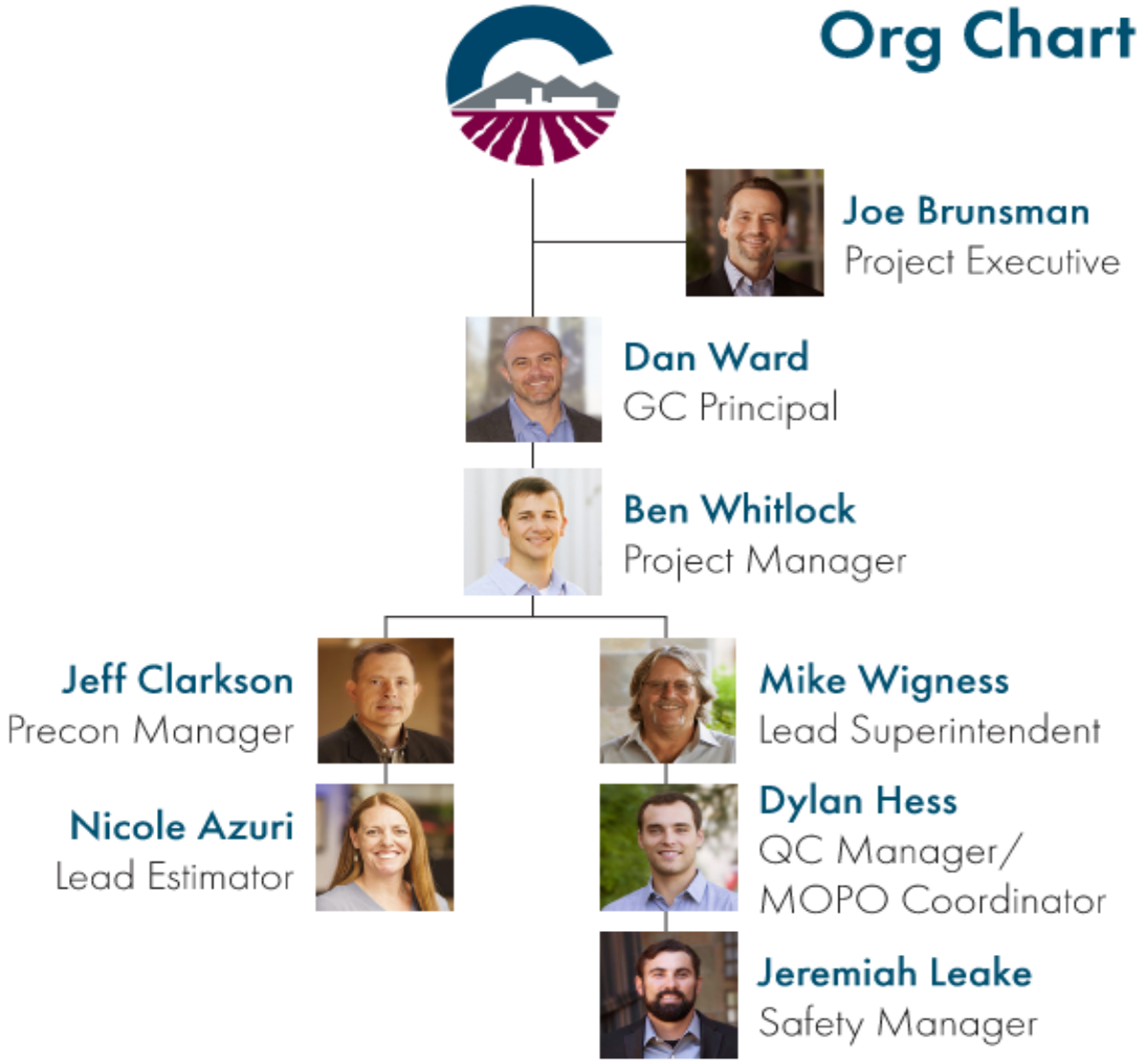
Chandler WRF Improvement Project GMP 2

6/21/2021

Description	Quantity	Unit	Total Unit Price	Total
General Conditions				
Project/Field Supervision				
Project Manager (Ben Whitlock)	98.0	WK	5,168.16	$506,480
Assistant Project Manager (Dylan Hess)	53.0	WK	4,354.78	$230,803
Safety Manager	28.0	WK	4,953.01	$138,684
General Superintendant (Mike Wigness)	15.0	WK	5,502.22	$82,533
Superintendent (Pete Cervantes)	101.0	WK	5,070.36	$512,107
Asstistant Superintendent (Ezequiel Pulido)	18.0	WK	4,358.68	$78,456
Concrete Superintendent (Jose Vega)	20.4	WK	4,995.16	$101,901
Project Engineer (Taylor Meulemans)	58.0	WK	3,673.03	$213,036
Project Engineer (Patrick Hoffman)	53.0	WK	3,673.03	$194,671
Project Engineer (Zach Staley)	53.0	WK	3,673.03	$194,671
Project Secretary (Tosh Nakasawa)	85.0	WK	2,599.91	$220,992
Job Support Items				
Double Wide Trailers (Ocotillo)	13.0	MO	1,441.00	$18,733
Double Wide Trailers (Airport)	12.0	MO	1,441.00	$17,292
Move & Setup Office	2.0	EA	9,100.00	$18,200
Trailer Engineering	2.0	EA	2,200.00	$4,400
Trailer Permits	1.0	LS	11,000.00	$11,000
Office Utility Hookup	2.0	EA	3,500.00	$7,000
Office Cleanup	160.0	WK	100.00	$16,000
Office Equipment	36.0	MO	1,400.00	$50,400
Office Furniture	3.0	EA	2,500.00	$7,500
Office Supplies	23.0	MO	800.00	$18,400
Postal/Delivery Costs	37.0	MO	500.00	$18,500
Network Data Services	37.0	MO	500.00	$18,500
Network and Wireless Hardware Setup	2.0	EA	4,000.00	$8,000
Network and Wireless Hardware (AWRF)	14.0	MO	145.00	$2,030
Network and Wireless Hardware (OWRF)	23.0	MO	250.00	$5,750
Temp Electric Hookup	1.0	EA	7,500.00	$7,500
Temp Water Hookup	1.0	EA	3,500.00	$3,500
Drinking Water/Cups	37.0	MO	500.00	$18,500
General Conditions Total				**$2,725,539**

		Weeks						
Staff	**Person**	**CMAR**	**Conc.**	**EW/YP**	**Process Mech**	**Proc Eq Inst.**	**TTL in EST**	**TTL Months**
Project Manager	Ben Whitlock	106					106	24.5
Earthwork PM	Daniel Soto			32			32	7.4
Asst. PM	Kim Young		42			16	58	13.4
Asst PM	Dylan Hess	53			12		65	15.0
General Superintendent	Mike Wigness	15					15	3.5
General Superintendent	Lloyd Hiser			6			6	1.4
Superintendent	Pete Cervantes	101					101	23.3
Superintendent	Tom Walker			36			36	8.3
Superintendent Mechanical	Jordon Woodworth				33	32	65	15.0
Concrete Superintendent	Jose Vega	20.4	41.6				62	14.3
Asst Supt	Ezequiel Pulido	18					18	4.2
Safety Manager	TBD (half time)	28					28	6.5
Project Engineer	Taylor Meulemans	58				48	106	24.5
Project Engineer	Patrick Hoffman	53		18	28		99	22.9
Project Engineer	Zach Staley	53					53	12.2
Project Administrator	Tosh Nakasawa	85					85	19.6
Base Bid Staff Total		590	84	92	73	96	935	215.9

McCarthy Org Chart submitted with May 2021 proposal:



City of Chandler Water Reclamation Facility Improvements Project

Project No. WW1901.401 . GMP 2

McCarthy Equipment Rates

EQUIPMENT - with fuel and maintenance

Equipment rates are based on the Blue Book monthly hourly rate for Arizona. Rates include cost of ownership and all operating costs. The monthly hourly rate is based on 176 hours per month.

EQUIPMENT - bare rental

Equipment	Type	Monthly (M) or Hourly (H) Charge
CRANE - 65 TON	M	$16,145.75
FORKLIFT - 8000#	M	$3,245.00
SCISSOR LIFT - SJM 3219	M	$670.45
LIGHT PLANT / TOWER	M	$825.00
COMPRESSOR - 175 CFM	M	$945.65
TRUCK - JOBSITE	M	$626.45
WATER BUFFALO TRUCK	M	$821.59