

CHANGE ORDER SUMMARY
 CITY OF NORMAN
 CLEVELAND COUNTY, OKLAHOMA

CHANGE ORDER NO.: 02

DATE: 05-18-17

CONTRACT NO.: K-1617-56

SUBMITTED BY: Steve Shank

PROJECT: Westwood Family Aquatic Center

CONTRACTOR: W.L. McNatt

217 East Sheridan

Oklahoma City, OK 73104

ORIGINAL CONTRACT AMOUNT \$ 10,167,000.00

(Increase) this change order 0 Calendar days


DESCRIPTION	(DECREASE)	INCREASE
Upgrade Flowmeters		\$4,867.90
Deduct Pool Heaters	(27,348.32)	

NET CHANGE \$ (\$22,480.42)

REVISED CONTRACT AMOUNT \$ 10,153,248.58

CONTRACTOR: 

DATE: 5-26-17

ENGINEER: 

DATE: 05-18-17

PROJECT MGR.: 

DATE: 6-5-17

CITY ATTORNEY: 

DATE: 6-5-17

ACCEPTED BY: 

DATE: 6-6-17

CHANGE ORDER DETAIL
CHANGE ORDER NO. 2
City of Norman
Cleveland Co., Oklahoma

Project Name: Westwood Family Aquatic Center

Project Manager: Jud Foster

Project Account Number: 051-0404-451.6101

Project Number: NFB-018

Contract No.: K-1617-56

Address/Phone:

201-C West Gray Street

Norman, OK 73069

(405) 366-5472

- A. Change Orders or addenda to public construction contracts of One Million Dollars (\$1,000,000.00) or less shall not exceed a fifteen percent (15%) cumulative increase in the original contract amount.
- B. Change orders or addenda to public construction contracts of over One Million Dollars (\$1,000,000.00) shall not exceed the greater of One Hundred Fifty Thousand Dollars (\$150,000.00) or a ten percent (10%) cumulative increase in the original contract amount.
- C. Change orders or cumulative change orders which exceed the limits of subsection A or B of this section shall require a readvertising for bids on the incomplete portions of the contract.
- D.
1. All materials with cost per item;
 2. Itemization of all labor with number of hours per operation and cost per hour;
 3. Itemization of all equipment with the type of equipment, number of each type, cost per hour for each type, and number of hours of actual operation for each type;
 4. Itemization of insurance cost, bond cost, social security, taxes, workers' compensation, employee fringe benefits and overhead cost; and
 5. Profit for the contractor.
- E. 1. **If a construction contract contains unit bid pricing, and the change order pertains to the unit bid price, the change order will not be subject to subsection A or B of this section.**
2. When the unit price change does not exceed Ten Thousand Dollars (\$10,000.00), the unit price change order computation may be based on an acceptable unit price basis in lieu of cost itemization as required in paragraphs 1,2,3,4 and 5 of subsection G of this section.
- F. Alternates or add items bid with the original bid and contained in the awarded contract as options of the awarding public agency shall not be construed as change orders under the provisions of the Public Competitive Bidding Act of 1974.

DETAILED COST ITEMIZATION**ORIGINAL CONTRACT:** Westwood Family Aquatic Center**CHANGE ORDER NO. 2** to Contract No. K-1617-56**Applied To:** Westwood Family Aquatic Center

ITEM	DESCRIPTION	UNIT	UNIT COST	QUANTITY	INCREASE / (DECREASE)
1	Upgrade flowmeters	l.s.	\$ 4,867.90	1	\$ 4,867.90
2	Deduct pool heaters	l.s.	(\$ 27,348.32)	1	(\$ 27,348.32)
NET INCREASE (DECREASE)					(\$ 22,480.42)

PR #002

Upgrade filter area flowmeters



**W.L. McNATT
& COMPANY**
GENERAL CONTRACTOR

PROJECT:
Westwood Family Aquatic Center

GENERAL ESTIMATE

PR #002
DATE: 03/30/17

Flowmeter Option #02 as indicated in WEAD's RFP #02 in response to RF1 #18			MATERIAL		LABOR		SUBCONTRACTOR	
DESCRIPTION	QUANTITY	UNIT	UNIT	COST	UNIT	COST	UNIT	COST
Subcontractor								
Capri Pools				0	0.00	0.00		0
Furnish and Install Option #02 Seametrics iMAG 4700-r Flowmeter	1	bid		0	0.00	0.00	4,122.92	4122.92
				0	0.00	0.00		0
				0	0.00	0.00		0
				0	0.00	0.00		0
General Contractor				0	0.00	0.00		0
General Expenses				0	0.00	0.00		0
As-build Drawings	0	hrs		0	71.02	0.00		0
Estimating	0	hrs		0	63.92	0.00		0
Supervision Full	0	days		0	390.61	0.00		0
Scheduling / Coordination	0	days		0	106.53	0.00		0
Pump water	0	days		0	177.55	0.00		0
Clean up (Full)	0	day		0	142.04	0.00		0
Clean up (1/2)	0	day		0	71.02	0.00		0
Cleaning Misc. Material	0	sf		0	0.00	0.00		0
Temp. Fencing	0	lf		0	0.00	0.00		0
Dumpster (40 yd)	0	ea		0	0.00	0.00		0
Punch List	0	day		0	390.61	0.00		0
Misc. Material	0	sf		0	0.00	0.00		0
Job Trailer	0	mo		0	0.00	0.00		0
Job Container	0	mo		0	0.00	0.00		0
Site Office (Network)	0	mo		0	0.00	0.00		0
Site Cell Phone	0	wks		0	0.00	0.00		0
Temp. Toilet x 3	0	wks		0	0.00	0.00		0
Copy & Distribute Plans	0	est		0	92.33	0.00		0
Temp Utilities	0	mo		0	0.00	0.00		0
				0	0.00	0.00		0
				0	0.00	0.00		0
				0	0.00	0.00		0
				0	0.00	0.00		0
				0	0.00	0.00		0
subtotal				0		0.00		4122.92
taxes				0				
total	4122.92			0		0		4122.92



**W.L. McNATT
& COMPANY**
GENERAL CONTRACTOR

General Contractor Material & Labor Total			0.00
Subcontractor Material & Labor Total			4122.92
Overhead on Work Performed	10%		412.29
Profit on Work Performed	5%		206.15
Total Project Cost to be insured			4741.36
General Liability, Bonds			126.55
subtotal			4867.90
Total Change Order		add	\$ 4,867.90

Scope of work:

**Furnish and Install Option #02
Seametrics iMAG 4700-r
Flowmeter as indicated in WEAD
RFP #02**

**If accepted, this change order
will increase contract time
by 0 day(s)**

Acceptance by an Authorized Representative _____

Signature _____

Date: _____

By accepting this Proposed Cost Change, authorization is being given to proceed with this proposed scope of work and the change in contract time as noted above is approved.

Project: Norman Oklahoma - Westwood Family Aquatic Center

Request for Proposal (RFP) No.: WEAD-02

To: WL McNatt

From: Steve Shank

Ethan Farris

Date: 03-16-17

Re: Flowmeters

WEAD Project Number: 16-502

You are hereby directed to review this Request for Proposal (RFP) and prepare and submit a fixed price quotation within 10 days. If you consider that a change in Contract Time is required, submit the requested time extension with your quotation.

This quotation shall remain valid for a period of 60 days. If Owner does not accept the proposal during that time period, then you will have an opportunity to re-evaluate your quotation.

Description of RFP:

According to RFI #18, the specified Seametrics WMX flowmeter has been discontinued. Please provide quotes for the (2) options below...

Option #1

- Seametrics iMAG 4700
 - Hardwire DC power, with battery backup
 - Flow indicator mounted to flowmeter
 - Lap-diving pool
 - Wet deck
 - Rec pool
 - Lazy river-plunge area



Option #2

- Seametrics iMAG 4700-r
 - Hardwire DC power, with battery backup
 - Flow indicator mounted remotely by recirc throttling valve
 - Lap-diving pool
 - Wet deck
 - Rec pool
 - Lazy river-plunge area



Attachments

Copies: Owner Consultants WL McNatt _____ _____ _____ File

Contract Modification



22 Gateway Commerce Center Dr. W., Ste. 110
ph 314-351-6020 fax 314-351-0033 cell 314-565-8998
aridgway@capripool.com

Project:
Westwood Aquatic Facility
2400 Westport Drive
Norman, OK 73069

Project Number: 16-3037
RFC/CO Number: 002
Date of Request: 3/30/2017

General Contractor:
W.L. McNatt & Company
217 East Sheridan
OKC, OK 73104

Designer: Water's Edge
Requested By: Capri Pools

Description of Proposed Contract Modification:

Cost options for Flowmeters as indicated in RFP 002
Option #001
Seametrics iMAG 4700 - No additional cost for this option

Option #002
Seametrics iMAG 4700-r
United Industries

\$ 3,494.00

OH&P (18%)

Total

\$ 628.92
\$ 4,122.92

Note:

Attachments: United Industries

Accepted By:
W.L. McNatt

Proposed By:
Capri Pools & Aquatics

Date:

Date: 3/30/17

Angela M. Ridgway

IMAG4700 Base Model

No additional charge if this option is taken.

1.00 4" iMAG DC Power
4" DC Power Display on spool
Pulse Output Only
Internal Data Logger
50ft cable

1.00 6" iMAG DC Power
6" DC Power Display on spool
Pulse Output Only
Internal Data Logger
50ft cable

1.00 8" iMAG DC Power
8" DC Power Display on spool
Pulse Output Only
Internal Data Logger
50ft cable

1.00 12" iMAG DC Power
12" DC Power Display on spool
Pulse Output Only
Internal Data Logger
50ft cable

4.00 DC4-USB Data logger cable
Cable to pull the data from iMAG with data logger.
Datalogger Must be initialized when meter is set up or no data will be logged.

4.00 Optional Redundant Displays
FT440W display
DC power Required
4-20Ma output signal standard.

4.00 PC42 Power Supply - Optional
115 VAC Box with
12VDC power for iMAG4700
24VAC power for FT440W

All meters are F.O.B. Kent WA 2-3 weeks.

Remote Display IMAG

There would be an additional \$3494.00 for this option

1.00 IMAG4700r400-F1-D1-X-01-015S-015
4" Meter
Remote Display, DC power required
Pulse output only, NO 4-20Ma out
Internal Data Logger
50ft cable for power input and
50ft cable from spool to remote display.

1.00 IMAG4700r600-F1-D1-X-01-015S-015
6" Meter
Remote Display, DC power required
Pulse output only, No 4-20Ma output
Internal Data Logger
50ft cable for power input and
50ft cable from spool to display

1.00 IMAG4700r800-F1-D1-X-01-015S-015
8" Meter
Remote Display, DC power required
Pulse output only, NO 4-20Ma output
Internal Data Logger
50ft cable for power input and
50 ft cable from spool to remote display.

1.00 IMAG4700r1200-F1-D1-X-01-015S-015
12" Meter
Remote Display, DC power required
Pulse output only, NO 4-20Ma output
Internal Data Logger
50ft cable for power input and
50 ft cable from spool to remote display.

4.00 DC4-USB
Cable to pull data from IMAG
IMAG must be initialized with a laptop and set up in order for
data to be live and pulled on a regular basis.

ALL IMAGS are F.O.B. Kent, WA

iMAG 4700 Series FLANGED MAGMETER



RIGHT METER FOR

Water & Wastewater
Treatment

Municipal

Pump skids

Pump stations

Packaged plants

Filtration systems

Reclaimed water

Hydraulic fracturing

Features

- Easy setup
- Minimal straight pipe
- Mounted or remote rate & total
- Tamper-evident seal
- NSF-61 approved
- IP68 rated

The **iMAG-Series** is the most economical flanged electromagnetic flowmeter on the market. With electrodes designed to discourage fouling, it is available in 4" to 12" pipe in municipal or industrial water, waste and reclaimed water, pump stations, and packaged plant applications. (For 3" version, see iMAG 4600-300.) Minimal straight pipe requirements allow iMAG-Series meters to be used in piping configurations where there is little space between the meter and an elbow.

iMAG-Series meters are NSF-61 approved and are rated IP68 for applications where the meter may be operated under water to a depth of at least 10 feet (3 meters) continuously.

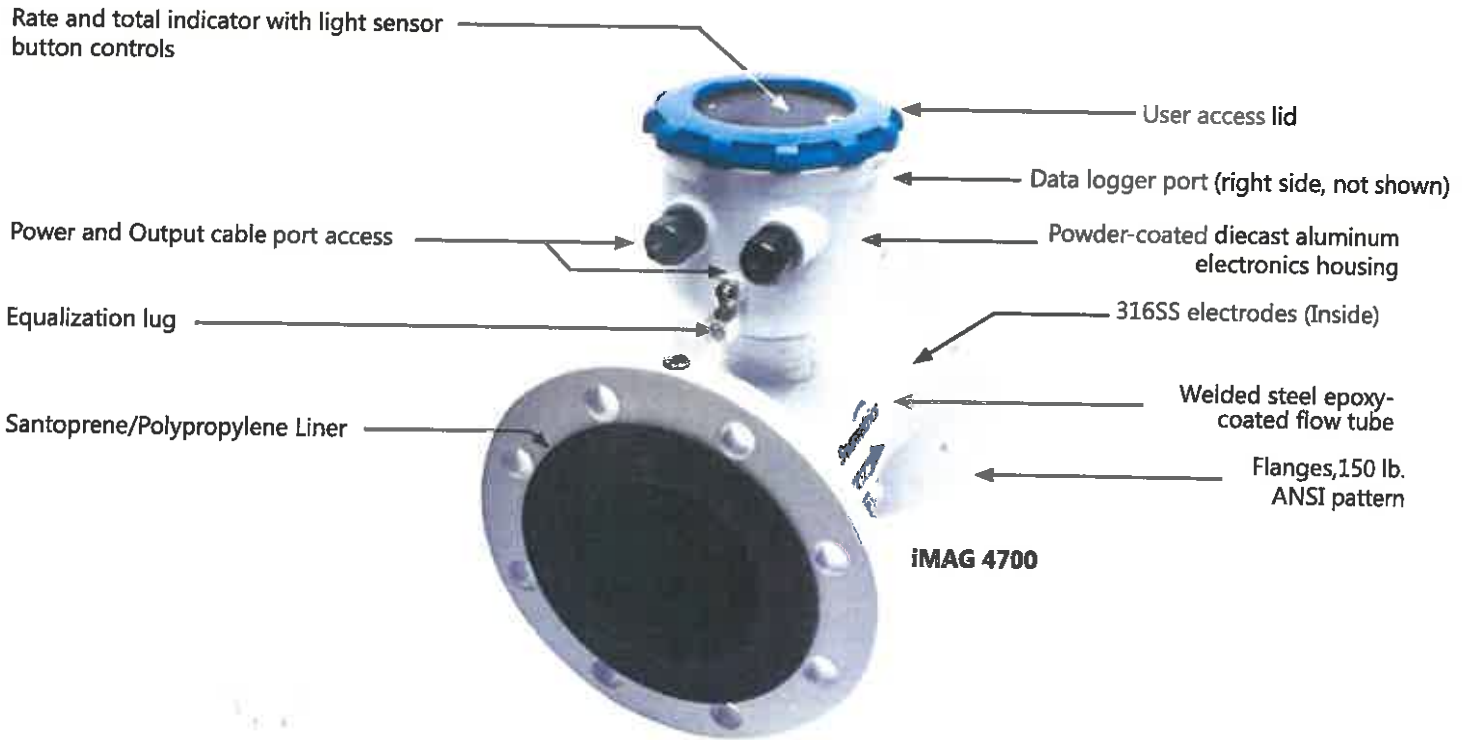
The display can be meter mounted or remote, and both rate and total indication are standard. Rate and total units and pulse scaling can be set via the front panel touch key pad by the user. Bidirectional flow is standard with forward, reverse and net flow.

A power/output cable allows outputs for use with a variety of Seametrics and other displays and controls for remote reading and telemetry applications. Pulse output is standard on all models and 4-20mA passive current loop is standard on the iMAG 4700p. In addition, 4-20mA loop, HART protocol, high speed digital, and Modbus® protocol outputs are optional on the externally powered units, depending on model.

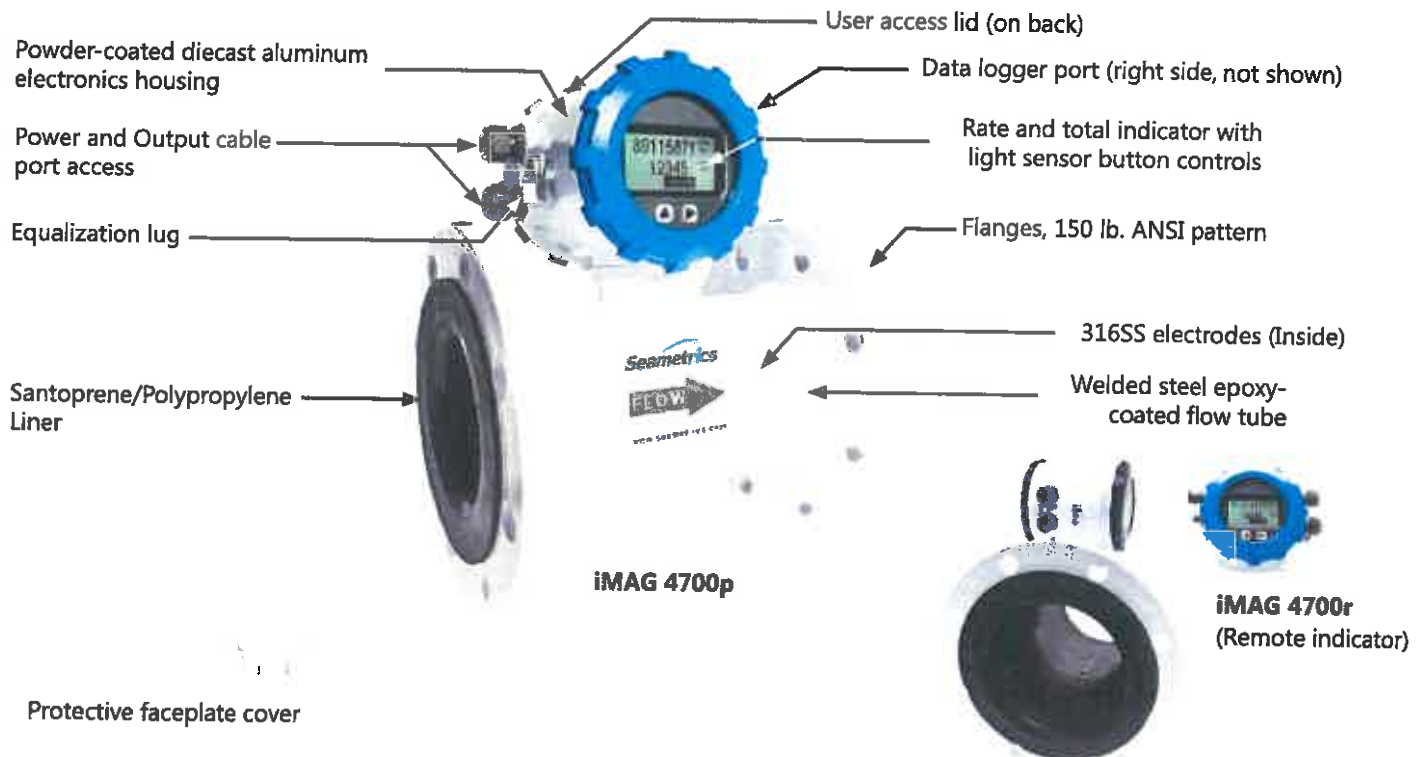
Contact Your Supplier



Features



Protective faceplate cover and lanyard



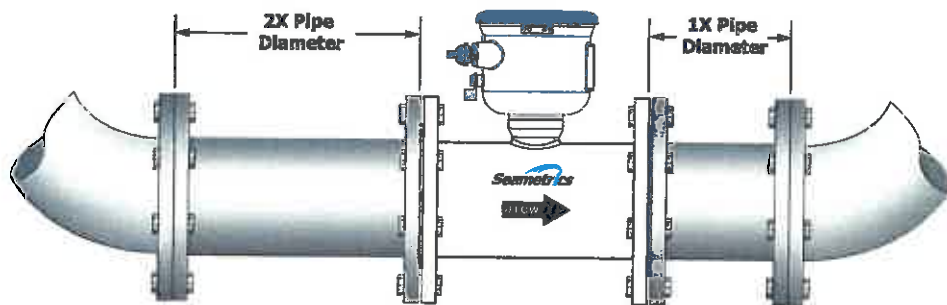
Features



- Built-in Data Logger (*Optional*)
- Bidirectional Flow Reading (*Standard*)
- Pulse Scaled Output (*Standard*)
- 4-20mA Output (*Optional**)
- HART Protocol Output (*Optional**)
- Modbus® Protocol Output (*Optional**)
- High Speed Digital Output (*Optional**)
- Battery Power (*iMAG 4700 battery model only*)
- External DC Power (*Optional**)
- Integrated AC Power Supply (*Optional**)
- Remote Display (*iMAG 4700r*)

Quickly and easily change Total Volume Units, Flow Rate Units, Pulse Output Scaling, and many other settings using the two light sensor button controls on the display panel.

** Some optional items only available on some configurations. See last page for further details.*



Minimal straight pipe requirements to ease installation in tight quarters.



No moving parts to break or foul!



Specifications

Pipe Sizes	4", 6", 8", 10", 12" (For 3" version, see iMAG 4600-300.)						
Flanges	150 lb. ANSI Pattern						
Pressure	150 psi (10.3 bar) line pressure						
Temperature Operating	10° to 130° F (-12° to 54° C)						
Storage	-40° to 158° F (-40° to 70° C)						
Accuracy	±0.75% of reading on iMAG 4700p and 4700r (±1.0% iMAG 4700), ±0.025% of full-scale flow from low flow cutoff to maxi. flow rate of 10 m/sec						
Low Flow Cutoff	0.5% of maximum flow rate						
Material	Body (4"-12")	Welded steel, epoxy-coated					
	Liner (4"-12")	Santoprene flange/Polypropylene liner body					
	Electronics Housing	Powder-coated diecast aluminum					
	Electrodes	316 stainless steel					
Display	Type	128x64 dot-matrix LCD					
	Digits	5 Digit Rate			8 Digit Total		
	Units	Rate Volume Units		Rate Time Units	Total Volume Units		
	<i>Please Note: All iMAG meters are factory set for gallons per minute (GPM) rate and gallons total. If other units are required, they can be set in the field.</i>	Gallons Liters Barrels(42 gal) Cubic Feet Cubic Meters	Million Gallons ² Mega Liters Imperial Gallons Million Imperial Gallons ²	Second Minute Hour Day	Gallons Gallons x 1000 Million Gallons Liters Kilo Liters Mega Liters Barrels(42 gal)	Cubic Meters Cubic Meters x 1000 Cubic Feet Cubic Feet x 1000 Million Cubic Feet	Imperial Gallons Imperial Gallons x 1000 Million Imperial Gallons
		Bidirectional¹ Forward Total, Reverse Total, Net Total					
Power	DC Power	9-36 Vdc @ 250 mA max, 30 mA average					
	Battery Backup	DC powered units: Two lithium 3.6V 'D' batteries, replaceable. AC powered units: One 9V alkaline battery, replaceable.					
	AC Power (iMAG 4700r and 4700p only)	85-264Vac, 50/60Hz, 0.12A					
	Battery (iMAG 4700 only)	Two lithium 3.6V 'D' batteries, replaceable.					
Scaled Pulse Output	Signal	Current sinking pulse, isolated, 36 Vdc at 10 mA max					
	Pulse Rates	User-scalable from 0.1 to 99,999.9 volume units/pulse. Pulse width is one-half of pulse period with minimum pulse width of 2.5 ms, 200 pulses/sec max, 150 pulses/sec max with battery option					
Options	4-20mA Current Loop	Isolated, passive, 24Vdc, 650 Ω maximum current loop					
	HART/4-20mA	HART protocol over 4-20mA line					
	High Speed Digital Output (iMAG 4700 & 4700p only)	Isolated, open collector, 24 Vdc					
	Serial Communications	Isolated, asynchronous serial RS485 (Reconfigurable for RS232 or 3.3V CMOS), Modbus® RTU protocol (factory selectable)					
Cable	Power/Output Cable	20ft (6m) standard length polyurethane jacketed cable—for power and outputs (lengths up to 200' available).					
	Remote Display Cable (iMAG 4700r)	20ft (6m) standard length polyurethane jacketed cable—for connection between meter and remote display (lengths up to 200' available).					
Conductivity	>20 microSiemens/cm						
Empty Pipe Detection	Hardware/software, conductivity-based						
Regulatory	CE (EN 61326), NSF-61						
Environmental	IP68 (10ft (3m) depth, continuously)						

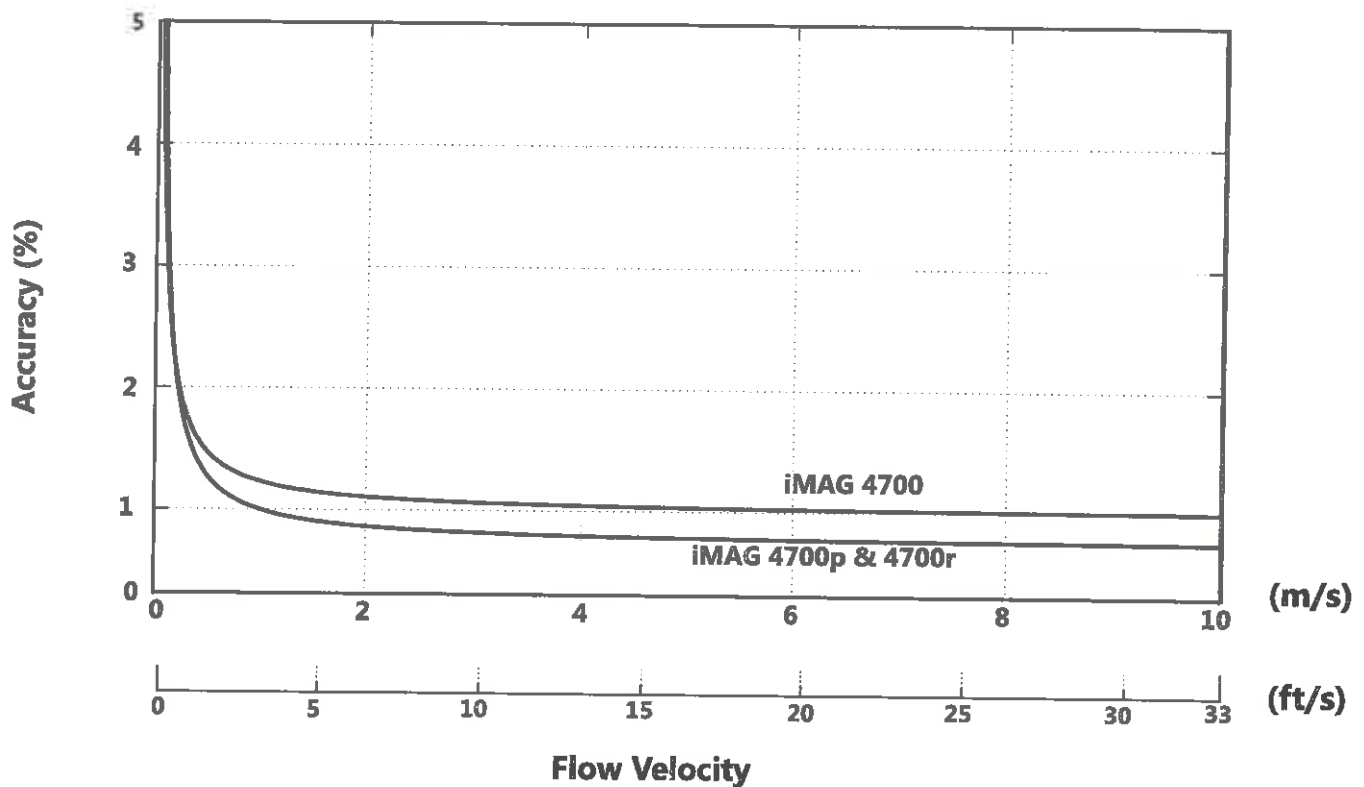
Modbus is a registered trademark of Schneider Electric.

* Specifications subject to change. Please consult our website for the most current data (www.seametrics.com).

¹ If forward and reverse flow data needs to be sent to another device, either the Digital or Modbus output is required.

² Rate Time Unit is available in Day only.

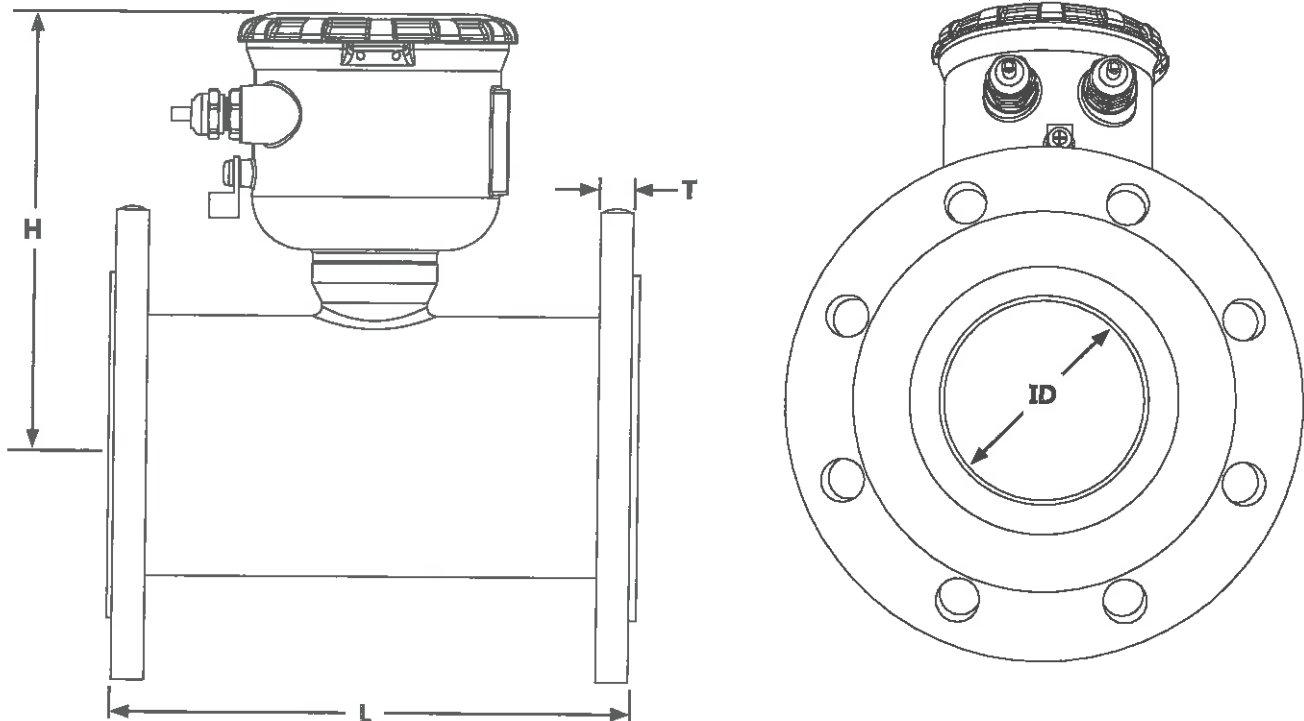
iMAG Accuracy



Flow Rate (4" - 12")

Pipe Size (Inches in diameter)	4"	6"	8"	10"	12"
Max Flow Rate (Gallons/Minute)	1285	2891	5140	8031	11565
Cut-off (min) Flow Rate (Gallons/Minute)	6.43	14.46	25.70	40.15	57.82
Max Flow Rate (Liters/Second)	81	182	324	507	730
Cut-off (min) Flow Rate (Liters/Second)	0.41	0.91	1.62	2.54	3.65
Max Flow Velocity (Meters/Second)	10	10	10	10	10

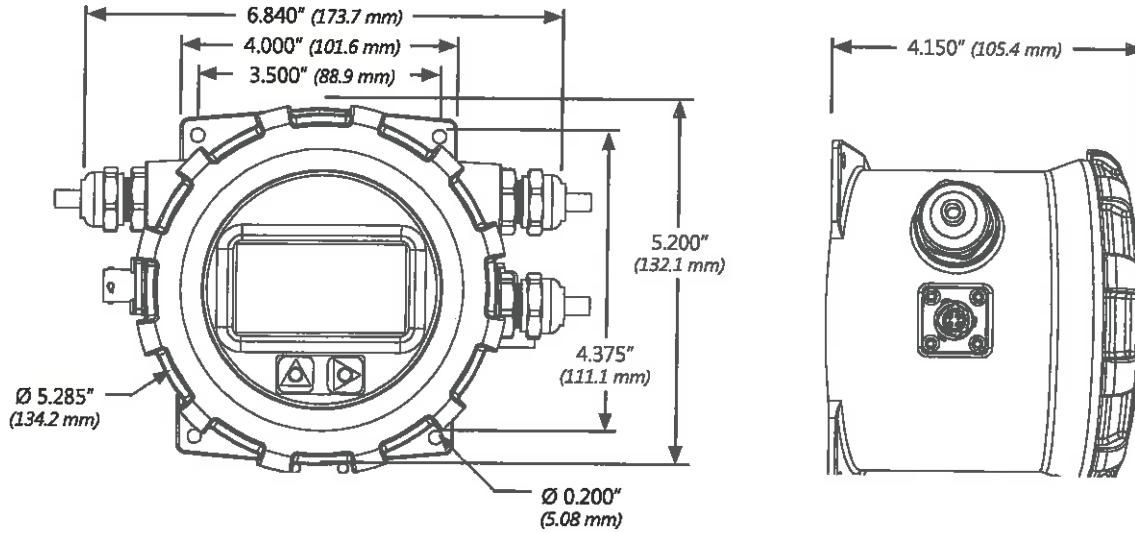
Dimensions - iMAG 4700



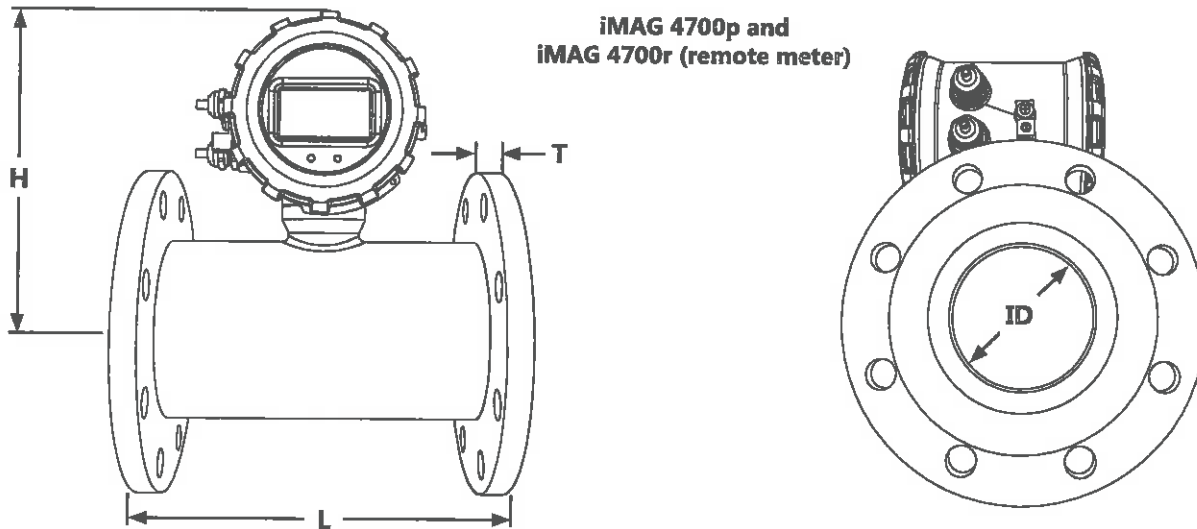
iMAG 4700 Meter Size	L		H		T		ID		Shipping Weight	
	inch	mm	inch	mm	inch	mm	inch	mm	lbs	Kg
4"	10.24	260	8.3	211	.62	15.7	3.12	79	27	12
6"	12.27	312	9.1	231	.69	17.5	5.05	128	42	19
8"	14.24	362	10.1	257	.69	17.5	6.44	164	64	29
10"	18.18	462	11.2	284	.69	17.5	8.61	219	123	56
12"	19.68	500	12.2	310	.81	20.6	10.55	268	165	75
Flanges	Standard ANSI 150 lb. drilling								Cable 1 lb.	

Dimensions - iMAG 4700r and iMAG 4700p

iMAG 4700r (remote display)



**iMAG 4700p and
iMAG 4700r (remote meter)**



iMAG 4700 Meter Size	L		H		T		ID		Shipping Weight			
	inch	mm	inch	mm	inch	mm	inch	mm	iMAG 4700p		iMAG 4700r	
									lbs	Kg	lbs	Kg
4"	10.24	260	8.6	218	.62	15.7	3.12	79	28	13	31	14
6"	12.27	312	9.4	239	.69	17.5	5.05	128	43	19.5	46	21
8"	14.24	362	10.4	264	.69	17.5	6.44	164	65	29.5	68	31
10"	18.18	462	11.5	292	.69	17.5	8.61	219	124	56.5	127	58
12"	19.68	500	12.5	317	.81	20.6	10.55	268	166	75.5	169	77
Flanges	Standard ANSI 150 lb. drilling								Cable 1 lb.			

How to Order Worksheet

<p>iMAG 4700</p> <p>iMAG 4700p</p> <p>iMAG 4700r</p>	①	②	③	④	⑤	⑥	⑦
		<p>② Style: F1 = 150 lb ANSI Pattern</p>		<p>③ Power: D1 = DC 60Hz, D2 = DC 50Hz A1 = AC 60Hz, A2 = AC 50Hz BX = Battery</p>		<p>④ Outputs: X = No optional output L = 4-20mA S = Modbus® H = HART/4-20mA G = Digital</p>	

iMAG 4700 (Integrated Display)	①	②	③	④	⑤	⑥
	Size ¹	Style	Power	Optional Output <i>(The 4700 comes standard with one pulse output)</i>	Options	DC Power/Output Cable - 6 conductor <i>(Must select one)</i>
-0400 4"	-F1	-D1	-D2	-X <i>(requires single cable for DC power & output)</i>	-XX None	-0000 No Cable <i>(customer will supply)</i>
-0600 6"				-L <i>(requires single cable for DC power & output)</i>	-01 Data Logger	Single Dual
-0800 8"				-H <i>(requires single cable for DC power & output)</i>		-006S -006D 6 meter (20 ft)
-1000 10"				-S <i>(requires dual cable for DC power & output)</i>		-015S -015D 15 meter (50 ft)
-1200 12"				-G <i>(requires dual cable for DC power & output)</i>		-030S -030D 30 meter (100 ft)
		-BX	-X <i>(requires single cable for pulse output)</i>			-045S -045D 45 meter (150 ft)
						-060S -060D 60 meter (200 ft)

iMAG 4700p (Integrated Display)	①	②	③	④	⑤	⑥
	Size ¹	Style	Power ²	Optional Output <i>(The 4700p comes standard with 4-20mA and one pulse output)</i>	Options	DC Power/Output Cable - 8 conductor <i>(Must select one)</i>
-0400 4"	-F1	-D1	-D2	-X <i>(requires single cable for DC power & output)</i>	-XX None	-0000 No Cable <i>(customer will supply)</i>
-0600 6"				-H <i>(requires single cable for DC power & output)</i>	-01 Data Logger	Single Dual
-0800 8"				-S <i>(requires dual cable for DC power & output)</i>		-006S -006D 6 meter (20 ft)
-1000 10"				-G <i>(requires dual cable for DC power & output)</i>		-015S -015D 15 meter (50 ft)
-1200 12"				-A1	-X <i>(requires single cable for output)</i>	
	-A2	-H <i>(requires single cable for output)</i>		-045S -045D 45 meter (150 ft)		
			-S <i>(requires single cable for output)</i>		-060S -060D 60 meter (200 ft)	
			-G <i>(requires single cable for output)</i>			

iMAG 4700r (Remote Display)	①	②	③	④	⑤	⑥	⑦
	Size ¹	Style	Power ²	Optional Output <i>(The 4700r comes standard with one pulse output)</i>	Options	DC Power/Output Cable - 6 conductor <i>(Must select one)</i>	Remote Display Cable - 6 conductor <i>(Must select one)</i>
-0400 4"	-F1	-D1	-D2	-X <i>(requires single cable for DC power and output)</i>	-XX None	-0000 No Cable <i>(customer will supply)</i>	-006 6 meter (20 ft)
-0600 6"				-L <i>(requires single cable for DC power and output)</i>	-01 Data Logger	Single Dual	
-0800 8"				-H <i>(requires single cable for DC power and output)</i>		-006S -006D 6 meter (20 ft)	
-1000 10"				-S <i>(requires dual cable for DC power and output)</i>		-015S -015D 15 meter (50 ft)	
-1200 12"				-G <i>(requires dual cable for DC power and output)</i>		-030S -030D 30 meter (100 ft)	
		-A1	-X <i>(requires single cable for output)</i>			-045S -045D 45 meter (150 ft)	-045 45 meter (150 ft)
		-A2	-L <i>(requires single cable for output)</i>			-060S -060D 60 meter (200 ft)	-060 60 meter (200 ft)
			-H <i>(requires single cable for output)</i>				
			-S <i>(requires single cable for output)</i>				

Modbus is a registered trademark of Schneider Electric. Viton is a registered trademark of DuPont Corporation.

Note: All iMAG meters are factory set for gallons per minute (GPM) rate and gallons total. If other units are required, they can be programmed in the field.

¹ For 3" version see iMAG 4600-300.

² AC meters come with a 1.8 meter (6 ft) AC power cable.

PR #006

Deduct lazy river and rec pool heaters

Increase lap pool heat system



**W.L. McNATT
& COMPANY**
GENERAL CONTRACTOR

PROJECT:
Westwood Family Aquatic Center

GENERAL ESTIMATE

PR #006
DATE: 05/05/17

Furnish and install an additional (2) burner units with gas hookups, and a submerged heat exchanger in lieu of the dry flat plate. Additionally, deduct the heaters at the lazy river and rec pool. All per WEAD RFP #01, and Detail 4 on SP-M4 dated 4/20/17			MATERIAL		LABOR		SUBCONTRACTOR	
DESCRIPTION	QUANTITY	UNIT	UNIT	COST	UNIT	COST	UNIT	COST
Subcontractor								
Capri Pools				0	0.00	0.00		0
Provide an additional (2) burner units and a submerged heat exchanger in lieu of the dry flat plate. Give Deduct for the future lazy river and rec pool burner units.	1	bid		0	0.00	0.00	-28,000	-28000
Mallett Plumbing				0	0.00	0.00		0
Furnish and install 3/4" gas lines off original gas trunk for the (2) additional gas heaters as shown in detail 4 of SP-M4 dated 4/20/17.	1	bid		0	0.00	0.00	901	901
General Contractor				0	0.00	0.00		0
General Expenses				0	0.00	0.00		0
As-build Drawings	1	hrs		0	71.02	71.02		0
Estimating	0	hrs		0	63.92	0.00		0
Supervision Full	1	days		0	390.61	390.61		0
Scheduling / Coordination	0	days		0	106.53	0.00		0
Pump water	0	days		0	177.55	0.00		0
Clean up (Full)	0	day		0	142.04	0.00		0
Clean up (1/2)	0	day		0	71.02	0.00		0
Cleaning Misc. Material	0	sf		0	0.00	0.00		0
Temp. Fencing	0	lf		0	0.00	0.00		0
Dumpster (40 yd)	0	ca		0	0.00	0.00		0
Punch List	0	day		0	390.61	0.00		0
Misc. Material	0	sf		0	0.00	0.00		0
Job Trailer	0	mo		0	0.00	0.00		0
Job Container	0	mo		0	0.00	0.00		0
Site Office (Network)	0	mo		0	0.00	0.00		0
Site Cell Phone	0	wks		0	0.00	0.00		0
Temp. Toilet x 3	0	wks		0	0.00	0.00		0
Copy & Distribute Plans	0	est		0	92.33	0.00		0
Temp Utilities	0	mo		0	0.00	0.00		0
				0	0.00	0.00		0
				0	0.00	0.00		0
				0	0.00	0.00		0
				0	0.00	0.00		0
subtotal				0		461.63		-27099
taxes				0				
total	-26637.37			0		461.63		-27099



**W.L. McNATT
& COMPANY
GENERAL CONTRACTOR**

General Contractor Material & Labor Total			461.63
Subcontractor Material & Labor Total			-27099.00
Overhead on Work Performed			0.00
Profit on Work Performed			0.00
Total Project Cost to be insured			-26637.37
General Liability, Bonds			-710.95
subtotal			-27348.32
Total Change Order		deduct	\$ (27,348.32)

Scope of work:
Furnish and install an additional (2) burner units and gas hookups, and a submerged heat exchanger in lieu of the dry flat plate. Additionally, deduct the heaters at the lazy river and rec pool. All per WEAD RFP #01, and Detail 4 on SP-M4 dated 4/20/17

If accepted, this change order will increase contract time by 0 day(s)

Acceptance by an Authorized Representative _____

Signature _____

Date: _____

By accepting this Proposed Cost Change, authorization is being given to proceed with this proposed scope of work and the change in contract time as noted above is approved.

Contract Modification



22 Gateway Commerce Center Dr. W., Ste. 110
ph 314-351-6020 fax 314-351-0033 cell 314-565-8998
aridgway@capripool.com

Project:
Westwood Aquatic Facility
2400 Westport Drive
Norman, OK 73069

Project Number: 16-3037
RFC/CO Number: 001
Date of Request: 4/13/2017

General Contractor:
W.L. McNatt & Company
217 East Sheridan
OKC, OK 73104

Designer: Water's Edge
Requested By: Capri Pools

Description of Proposed Contract Modification:

Cost to change the heater scope to (6) burner units on the Lap Pool and add (2) burner units to the Lap Pool.
Delete the heaters at the Lazy River complete

Sentry Valve	\$ (28,000.00)
Total	\$ (28,000.00)

Note:

Attachments: United Industries

Accepted By:
W.L. McNatt

Proposed By:
Capri Pools & Aquatics

Date:

Date: 4/13/17

Angela M. Ridgway
Angela Ridgway

**Sentry Valve Co.
13420 Bittersweet Rd.
Woodward, Ia. 50276**

April 13, 2017

Angela Ridgway
Capri Pools & Aquatics
22 Gateway Commerce Center Dr. W
Suite 110
Edwardsville, Il 62025

RE: Westwood Aquatic Center, Norman Ok.

Original Quote:	\$ 111,680.00
For Deletion of Lazy River System And rec pool system:	Deduct: \$ 40,000.00
Lap pool system to be installed with Six (6) burner units for a cost of	\$ 71,680.00
An add of two (2) burner units to the Lap pool system at a cost based on engineers direction	12,000.00
Total Cost of Lap pool with 8 burners (at owners choice)	\$ 83680.00

Hope this clarifies proposal.

Thank you,
Mark Pleva

MALLETT

Plumbing & Utility Co.

301 NW 132nd Street
 Oklahoma City, OK 73114
 Office (405) 748-4400
 Fax (405) 748-4400
 Oklahoma Plumbing License 13869
 ODEQ Water & Waster Water License 96168

Change Order Request

16035 – Westwood Family Aquatic Center (P)

Subject: Additional Gas for (2) More Pool Heaters

To Ethan Farris
 W.L. McNatt

Number: **16035-6**

Revision: 0

Date: 5/2/2017

Return To Matt Stubenhofer
 Mallett Plumbing & Utility, Inc.
 405-471-4984
 mstubenhofer@rlmallett.com

Work Type : Price / Do Not
 Proceed

Owner No : WEAD-RFP-01

Valid for 30 Days.

Scope of Work

WEAD-RFP-01: Additional Gas for Pool Heaters

Add (2) Additional 3/4" Gas Lines Off Proposed Gas Trunk in Filter Building

-- Piping figured based on ISO Detail 4 on SP-M4

Details

Line No	Code	Description	Type	Cost / Rate	Qty / Hrs	Workers	Ext
001	24—04 Fuel Gas Piping	Journeyman Plumber	Labor	\$55.00	4.00 <i>Hrs</i>	1.00	\$220.00
002	24—04 Fuel Gas Piping	Apprentice I	Labor	\$35.00	4.00 <i>Hrs</i>	1.00	\$140.00
003	44—24 Administration	Project Manager	Labor	\$65.00	1.00 <i>Hrs</i>	1.00	\$65.00
004	250	3/4" Schedule 40 Black Steel Pipe	Material	\$2.36	21.00 <i>LF</i>	-	\$49.61
005	250	3/4" Malleable Iron #150 90 Elbow	Material	\$1.84	4.00 <i>Each</i>	-	\$7.35
006	250	3/4" Malleable Iron #150 Tee	Material	\$5.78	2.00 <i>Each</i>	-	\$11.55

Line No	Code	Description	Type	Cost / Rate	Qty / Hrs	Workers	Ext
007	250	3/4" Malleable Iron #150 Cap	Material	\$1.58	2.00 <i>Each</i>	-	\$3.15
008	250	3/4" Malleable Iron #150 Union	Material	\$8.66	2.00 <i>Each</i>	-	\$17.33
009	250	3/4" Brass Gas Cock	Material	\$14.18	2.00 <i>Each</i>	-	\$28.35
010	250	3/4" Thread-O-Let (Weld on 2-1/2" Pipe)	Material	\$7.88	2.00 <i>Each</i>	-	\$15.75
011	270	Wall Bracing (Strut, Clamp, Fasteners)	Material	\$2.63	2.00 <i>Each</i>	-	\$5.25
012	1250	Welder	Subcontractor	\$85.00	2.00	-	\$170.00

Breakout

Labor :	\$425.00
Profit @ 10%:	\$42.50
Overhead @ 10%:	\$46.75
Material :	\$138.34
Sales Tax Rate @ 8.38%:	\$11.59
Profit @ 10%:	\$14.99
Overhead @ 10%:	\$16.49
Subcontractor :	\$170.00
Profit @ 10%:	\$17.00
Overhead @ 10%:	\$18.70
Total:	\$901.00

Reservation of Rights

Scope of work is implicitly defined above, items outside scope will be the responsibility of another party.
Pricing is valid for 30 days, approval beyond 30 days may impede scheduling and will require re-assessment.
Okie Locates will be notified, every attempt will be made to protect marked utility services.
Private Utilities that are not located will not be the responsibility of Mallett Plumbing & Utility

Signed By: 
Matt Stubenhofer
Project Manager

Dated: 5/2/2017

Project: Norman Oklahoma - Westwood Family Aquatic Center

Request for Proposal (RFP) No.: WEAD-01

From: Steve Shank

To: WL McNatt

Date: 01-04-17

Ethan Farris

WEAD Project Number: 16-502

Re: Pool heat systems

You are hereby directed to review this Request for Proposal (RFP) and prepare and submit a fixed price quotation within 10 days. If you consider that a change in Contract Time is required, submit the requested time extension with your quotation.

This quotation shall remain valid for a period of 60 days. If Owner does not accept the proposal during that time period, then you will have an opportunity to re-evaluate your quotation.

Specification Section:	Paragraph:	Drawing Reference:	Detail:
------------------------	------------	--------------------	---------

Description of RFP:

Detail A-SP-F2, Key Notes 178, 179, and 180 were intended to detail the following...

- Lap-diving pool heat system as an alternate bid item
- Rec pool heat system as a future item
- Lazy river-plunge area heat system as a future item

However, that was not clear, and the rec pool and lazy river-plunge area heat systems were included in the base bid.

Please provide a cost deduct to omit the following...but still allow for them to be added in the future...

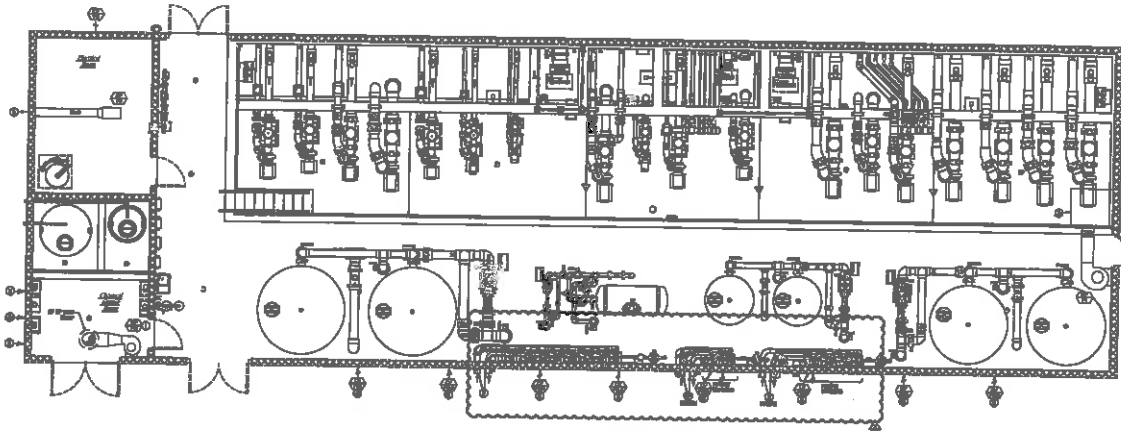
- Rec pool heat system
- Lazy river-plunge area heat system

Mark Pleva, pool heat system mfr. and contractor, has expressed interest in providing a submerged heat exchanger in the lap-diving pool surge pit, in lieu of the specified exposed dry flat plate...this will provide a more efficient heat system. This is acceptable to WEAD.

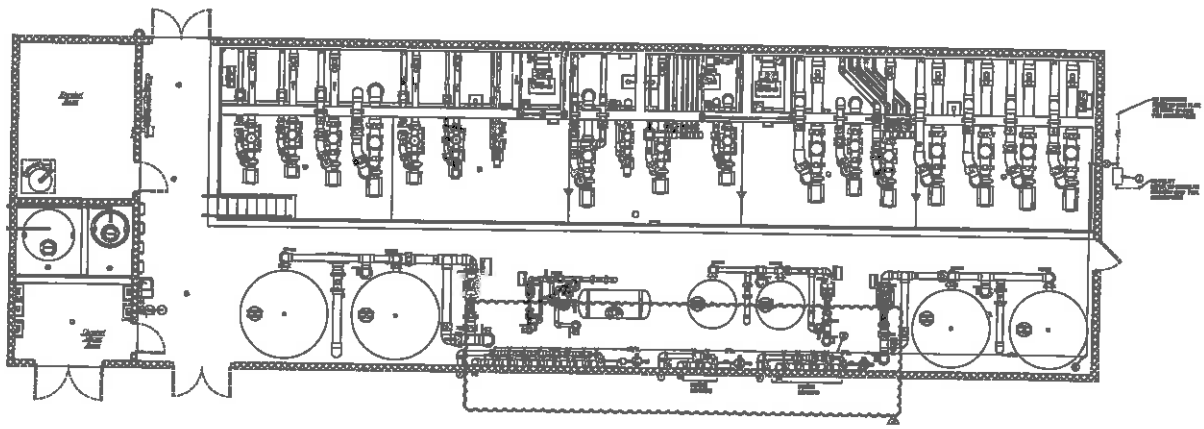
Thanks.

Attachments

Copies: Owner Consultants WL McNatt _____ _____ _____ File



1 Filter Building
Mechanical Plan
Scale: 1/8" = 1'-0"



2 Filter Building
Plumbing Plan
Scale: 1/8" = 1'-0"

NOTES:

1. ALL WORK TO BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING AND MECHANICAL CODES.
2. ALL MATERIALS TO BE APPROVED BY THE LOCAL HEALTH DEPARTMENT.
3. ALL PIPING TO BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING AND MECHANICAL CODES.
4. ALL EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING AND MECHANICAL CODES.
5. ALL WORK TO BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
6. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING AND MECHANICAL CODES.
7. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING AND MECHANICAL CODES.
8. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING AND MECHANICAL CODES.
9. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING AND MECHANICAL CODES.
10. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING AND MECHANICAL CODES.

GENERAL NOTES:

1. ALL WORK TO BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING AND MECHANICAL CODES.
2. ALL MATERIALS TO BE APPROVED BY THE LOCAL HEALTH DEPARTMENT.
3. ALL PIPING TO BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING AND MECHANICAL CODES.
4. ALL EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING AND MECHANICAL CODES.
5. ALL WORK TO BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
6. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING AND MECHANICAL CODES.
7. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING AND MECHANICAL CODES.
8. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING AND MECHANICAL CODES.
9. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING AND MECHANICAL CODES.
10. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING AND MECHANICAL CODES.

EXHAUST FAN SCHEDULE

NO.	SYMBOL	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	EF-1	EXHAUST FAN	1	EA	150.00	150.00
2	EF-2	EXHAUST FAN	1	EA	150.00	150.00
3	EF-3	EXHAUST FAN	1	EA	150.00	150.00
4	EF-4	EXHAUST FAN	1	EA	150.00	150.00
5	EF-5	EXHAUST FAN	1	EA	150.00	150.00
6	EF-6	EXHAUST FAN	1	EA	150.00	150.00
7	EF-7	EXHAUST FAN	1	EA	150.00	150.00
8	EF-8	EXHAUST FAN	1	EA	150.00	150.00
9	EF-9	EXHAUST FAN	1	EA	150.00	150.00
10	EF-10	EXHAUST FAN	1	EA	150.00	150.00

NOTES:
 1. EXHAUST FAN SHALL BE 1/2 HP MOTOR DRIVEN.
 2. EXHAUST FAN SHALL BE 1/2" DIA. WITH 1/2" DIA. HOLES.
 3. EXHAUST FAN SHALL BE 1/2" DIA. WITH 1/2" DIA. HOLES.
 4. EXHAUST FAN SHALL BE 1/2" DIA. WITH 1/2" DIA. HOLES.
 5. EXHAUST FAN SHALL BE 1/2" DIA. WITH 1/2" DIA. HOLES.
 6. EXHAUST FAN SHALL BE 1/2" DIA. WITH 1/2" DIA. HOLES.
 7. EXHAUST FAN SHALL BE 1/2" DIA. WITH 1/2" DIA. HOLES.
 8. EXHAUST FAN SHALL BE 1/2" DIA. WITH 1/2" DIA. HOLES.
 9. EXHAUST FAN SHALL BE 1/2" DIA. WITH 1/2" DIA. HOLES.
 10. EXHAUST FAN SHALL BE 1/2" DIA. WITH 1/2" DIA. HOLES.

WALL, WINDOW, & CEILING SCHEDULE

NO.	SYMBOL	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	W-1	WALL	1	EA	100.00	100.00
2	W-2	WALL	1	EA	100.00	100.00
3	W-3	WALL	1	EA	100.00	100.00
4	W-4	WALL	1	EA	100.00	100.00
5	W-5	WALL	1	EA	100.00	100.00
6	W-6	WALL	1	EA	100.00	100.00
7	W-7	WALL	1	EA	100.00	100.00
8	W-8	WALL	1	EA	100.00	100.00
9	W-9	WALL	1	EA	100.00	100.00
10	W-10	WALL	1	EA	100.00	100.00

NOTES:
 1. WALL SHALL BE 1/2" THICK.
 2. WINDOW SHALL BE 1/2" THICK.
 3. CEILING SHALL BE 1/2" THICK.
 4. WALL SHALL BE 1/2" THICK.
 5. WINDOW SHALL BE 1/2" THICK.
 6. CEILING SHALL BE 1/2" THICK.
 7. WALL SHALL BE 1/2" THICK.
 8. WINDOW SHALL BE 1/2" THICK.
 9. CEILING SHALL BE 1/2" THICK.
 10. WALL SHALL BE 1/2" THICK.

PLUMBING FIXTURE SCHEDULE

NO.	SYMBOL	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	PF-1	PLUMBING FIXTURE	1	EA	100.00	100.00
2	PF-2	PLUMBING FIXTURE	1	EA	100.00	100.00
3	PF-3	PLUMBING FIXTURE	1	EA	100.00	100.00
4	PF-4	PLUMBING FIXTURE	1	EA	100.00	100.00
5	PF-5	PLUMBING FIXTURE	1	EA	100.00	100.00
6	PF-6	PLUMBING FIXTURE	1	EA	100.00	100.00
7	PF-7	PLUMBING FIXTURE	1	EA	100.00	100.00
8	PF-8	PLUMBING FIXTURE	1	EA	100.00	100.00
9	PF-9	PLUMBING FIXTURE	1	EA	100.00	100.00
10	PF-10	PLUMBING FIXTURE	1	EA	100.00	100.00

NOTES:
 1. PLUMBING FIXTURE SHALL BE 1/2" DIA.
 2. PLUMBING FIXTURE SHALL BE 1/2" DIA.
 3. PLUMBING FIXTURE SHALL BE 1/2" DIA.
 4. PLUMBING FIXTURE SHALL BE 1/2" DIA.
 5. PLUMBING FIXTURE SHALL BE 1/2" DIA.
 6. PLUMBING FIXTURE SHALL BE 1/2" DIA.
 7. PLUMBING FIXTURE SHALL BE 1/2" DIA.
 8. PLUMBING FIXTURE SHALL BE 1/2" DIA.
 9. PLUMBING FIXTURE SHALL BE 1/2" DIA.
 10. PLUMBING FIXTURE SHALL BE 1/2" DIA.

AIR HANDLING UNIT & CONDENSING UNIT SCHEDULE

NO.	SYMBOL	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	AHU-1	AIR HANDLING UNIT	1	EA	200.00	200.00
2	AHU-2	AIR HANDLING UNIT	1	EA	200.00	200.00
3	AHU-3	AIR HANDLING UNIT	1	EA	200.00	200.00
4	AHU-4	AIR HANDLING UNIT	1	EA	200.00	200.00
5	AHU-5	AIR HANDLING UNIT	1	EA	200.00	200.00
6	AHU-6	AIR HANDLING UNIT	1	EA	200.00	200.00
7	AHU-7	AIR HANDLING UNIT	1	EA	200.00	200.00
8	AHU-8	AIR HANDLING UNIT	1	EA	200.00	200.00
9	AHU-9	AIR HANDLING UNIT	1	EA	200.00	200.00
10	AHU-10	AIR HANDLING UNIT	1	EA	200.00	200.00

NOTES:
 1. AIR HANDLING UNIT SHALL BE 1/2" THICK.
 2. CONDENSING UNIT SHALL BE 1/2" THICK.
 3. AIR HANDLING UNIT SHALL BE 1/2" THICK.
 4. CONDENSING UNIT SHALL BE 1/2" THICK.
 5. AIR HANDLING UNIT SHALL BE 1/2" THICK.
 6. CONDENSING UNIT SHALL BE 1/2" THICK.
 7. AIR HANDLING UNIT SHALL BE 1/2" THICK.
 8. CONDENSING UNIT SHALL BE 1/2" THICK.
 9. AIR HANDLING UNIT SHALL BE 1/2" THICK.
 10. CONDENSING UNIT SHALL BE 1/2" THICK.

DUCTLESS SPLIT SYSTEM SCHEDULE

NO.	SYMBOL	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	DS-1	DUCTLESS SPLIT SYSTEM	1	EA	300.00	300.00
2	DS-2	DUCTLESS SPLIT SYSTEM	1	EA	300.00	300.00
3	DS-3	DUCTLESS SPLIT SYSTEM	1	EA	300.00	300.00
4	DS-4	DUCTLESS SPLIT SYSTEM	1	EA	300.00	300.00
5	DS-5	DUCTLESS SPLIT SYSTEM	1	EA	300.00	300.00
6	DS-6	DUCTLESS SPLIT SYSTEM	1	EA	300.00	300.00
7	DS-7	DUCTLESS SPLIT SYSTEM	1	EA	300.00	300.00
8	DS-8	DUCTLESS SPLIT SYSTEM	1	EA	300.00	300.00
9	DS-9	DUCTLESS SPLIT SYSTEM	1	EA	300.00	300.00
10	DS-10	DUCTLESS SPLIT SYSTEM	1	EA	300.00	300.00

NOTES:
 1. DUCTLESS SPLIT SYSTEM SHALL BE 1/2" THICK.
 2. DUCTLESS SPLIT SYSTEM SHALL BE 1/2" THICK.
 3. DUCTLESS SPLIT SYSTEM SHALL BE 1/2" THICK.
 4. DUCTLESS SPLIT SYSTEM SHALL BE 1/2" THICK.
 5. DUCTLESS SPLIT SYSTEM SHALL BE 1/2" THICK.
 6. DUCTLESS SPLIT SYSTEM SHALL BE 1/2" THICK.
 7. DUCTLESS SPLIT SYSTEM SHALL BE 1/2" THICK.
 8. DUCTLESS SPLIT SYSTEM SHALL BE 1/2" THICK.
 9. DUCTLESS SPLIT SYSTEM SHALL BE 1/2" THICK.
 10. DUCTLESS SPLIT SYSTEM SHALL BE 1/2" THICK.

LOUVER SCHEDULE

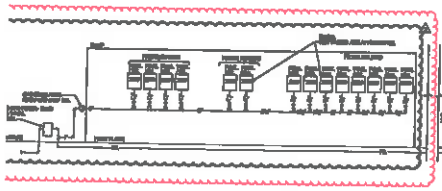
NO.	SYMBOL	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	L-1	LOUVER	1	EA	50.00	50.00
2	L-2	LOUVER	1	EA	50.00	50.00
3	L-3	LOUVER	1	EA	50.00	50.00
4	L-4	LOUVER	1	EA	50.00	50.00
5	L-5	LOUVER	1	EA	50.00	50.00
6	L-6	LOUVER	1	EA	50.00	50.00
7	L-7	LOUVER	1	EA	50.00	50.00
8	L-8	LOUVER	1	EA	50.00	50.00
9	L-9	LOUVER	1	EA	50.00	50.00
10	L-10	LOUVER	1	EA	50.00	50.00

NOTES:
 1. LOUVER SHALL BE 1/2" THICK.
 2. LOUVER SHALL BE 1/2" THICK.
 3. LOUVER SHALL BE 1/2" THICK.
 4. LOUVER SHALL BE 1/2" THICK.
 5. LOUVER SHALL BE 1/2" THICK.
 6. LOUVER SHALL BE 1/2" THICK.
 7. LOUVER SHALL BE 1/2" THICK.
 8. LOUVER SHALL BE 1/2" THICK.
 9. LOUVER SHALL BE 1/2" THICK.
 10. LOUVER SHALL BE 1/2" THICK.

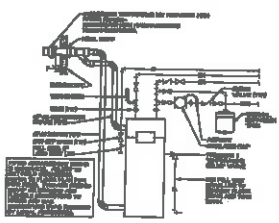
WATER HEATER SCHEDULE

NO.	SYMBOL	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	WH-1	WATER HEATER	1	EA	150.00	150.00
2	WH-2	WATER HEATER	1	EA	150.00	150.00
3	WH-3	WATER HEATER	1	EA	150.00	150.00
4	WH-4	WATER HEATER	1	EA	150.00	150.00
5	WH-5	WATER HEATER	1	EA	150.00	150.00
6	WH-6	WATER HEATER	1	EA	150.00	150.00
7	WH-7	WATER HEATER	1	EA	150.00	150.00
8	WH-8	WATER HEATER	1	EA	150.00	150.00
9	WH-9	WATER HEATER	1	EA	150.00	150.00
10	WH-10	WATER HEATER	1	EA	150.00	150.00

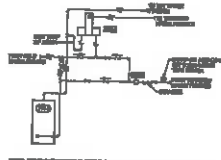
NOTES:
 1. WATER HEATER SHALL BE 1/2" THICK.
 2. WATER HEATER SHALL BE 1/2" THICK.
 3. WATER HEATER SHALL BE 1/2" THICK.
 4. WATER HEATER SHALL BE 1/2" THICK.
 5. WATER HEATER SHALL BE 1/2" THICK.
 6. WATER HEATER SHALL BE 1/2" THICK.
 7. WATER HEATER SHALL BE 1/2" THICK.
 8. WATER HEATER SHALL BE 1/2" THICK.
 9. WATER HEATER SHALL BE 1/2" THICK.
 10. WATER HEATER SHALL BE 1/2" THICK.



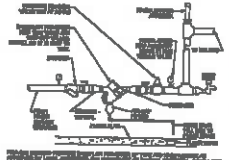
4 Natural Gas Piping Riser Diagram
Scale: None



3 Gas Water Heater Connection Detail
Scale: None



2 Recirculation Piping Detail
Scale: None



1 Domestic Water Service Entry
Scale: None

NORMAN, OKLAHOMA
 Westwood
 MECHANICAL
 PLUMBING
 ELECTRICAL
 DETAIL
 SP-1