



**BOARD OF SUPERVISORS AGENDA ITEM REPORT
CONTRACTS / AWARDS / GRANTS**

Award Contract Grant

Requested Board Meeting Date: December 21, 2021

* = Mandatory, information must be provided

or Procurement Director Award

***Contractor/Vendor Name/Grantor (DBA):**

JE Fuller Hydrology & Geomorphology Inc.

***Project Title/Description:**

ALERT Base Station System Support

***Purpose:**

Amendment: Master Agreement No. MA-PO-19-102, Amendment No. 03. This Amendment is for a one-time increase in the amount of \$310,000.00 for a cumulative not-to-exceed contract amount of \$851,000.00. This increase is required for the ALERT2 conversion and the Bighorn Fire PTZ Flood Cameras project. Administering Department: Regional Flood Control District & Information Technology.

***Procurement Method:**

Pursuant to Pima County Procurement Code 11.12.050, Sole source procurement, on February 15, 2019, the Procurement Director approved an award of contract for an initial term of one (1) year in the annual award amount of \$184,000.00 with four (4) one-year renewal options.

Effective February 18, 2020, the Procurement Officer processed Amendment No. 01, which extended the termination date to 02/17/2021 and added the annual award amount of \$184,000.00 for a cumulative not-to-exceed contract amount of \$368,000.00. Three (3) renewal options remained.

Effective February 18, 2021, the Procurement Officer processed Amendment No. 02, which extended the termination date to 02/17/2022 and added a partial annual award amount of \$173,000.00 for a cumulative not-to-exceed contract amount of \$541,000.00. Two (2) renewal options remained.

PRCUID: 323698

Attachment: Master Agreement.

***Program Goals/Predicted Outcomes:**

Provide technical support for the telemetry, infrastructure, servers, databases, webpages and cameras for RFCD's network of real-time hydrometeorological sensors providing data on flooding conditions within County.

***Public Benefit:**

Direct support of RFCD ALERT Flood Warning System providing a public safety benefit for Pima County residents.

***Metrics Available to Measure Performance:**

Regular, bi-weekly meetings between RFCD staff and consultant.

***Retroactive:**

No.

To: COB 12-10-21 Addendum
Pgs: 9
Vers: 5

Contract / Award Information

Document Type: _____ Department Code: _____ Contract Number (i.e.,15-123): _____

Commencement Date: _____ Termination Date: _____ Prior Contract Number (Synergen/CMS): _____

Expense Amount: \$* _____ Revenue Amount: \$ _____

***Funding Source(s) required:**

Funding from General Fund? Yes No If Yes \$ _____ % _____

Contract is fully or partially funded with Federal Funds? Yes No

If Yes, is the Contract to a vendor or subrecipient? _____

Were insurance or indemnity clauses modified? Yes No

If Yes, attach Risk's approval.

Vendor is using a Social Security Number? Yes No

If Yes, attach the required form per Administrative Procedure 22-10.

Amendment / Revised Award Information

Document Type: MA Department Code: PO Contract Number (i.e.,15-123): 19-102

Amendment No.: 03 AMS Version No.: 5

Commencement Date: 12/21/2021 New Termination Date: _____

Prior Contract No. (Synergen/CMS): _____

Expense or Revenue Increase Decrease Amount This Amendment: \$ 310,000.00

Is there revenue included? Yes No If Yes \$ _____

***Funding Source(s) required:** DFFM Post-Fire Mitigation
General Fund

Funding from General Fund? Yes No If Yes \$ 140,000.00 % _____

Grant/Amendment Information (for grants acceptance and awards) Award Amendment

Document Type: _____ Department Code: _____ Grant Number (i.e.,15-123): _____

Commencement Date: _____ Termination Date: _____ Amendment Number: _____

Match Amount: \$ _____ Revenue Amount: \$ _____

***All Funding Source(s) required:**

***Match funding from General Fund?** Yes No If Yes \$ _____ % _____

***Match funding from other sources?** Yes No If Yes \$ _____ % _____

***Funding Source:** _____

***If Federal funds are received, is funding coming directly from the Federal government or passed through other organization(s)?** _____

Contact: Troy McMaster, Procurement Officer Troy McMaster Digitally signed by Troy McMaster Date: 2021.12.09 07:54:48 -0700 Ana Wilber Digitally signed by Ana Wilber Date: 2021.12.09 08:18:44 -0700

Department: Procurement Director Terri Spencer Digitally signed by Terri Spencer Date: 2021.12.09 09:51:41 -0700 Telephone: 520.724.8728

Department Director Signature/Date: *Terri Spencer* 12/9/2021

Deputy County Administrator Signature/Date: *[Signature]* 12/9/2021

County Administrator Signature/Date: *[Signature]* 12/9/2021

(Required for Board Agenda/Addendum Items)



MASTER AGREEMENT

PIMA COUNTY, ARIZONA

**THIS IS NOT AN ORDER - TRANSMISSION CONSTITUTES
CONTRACT EXECUTION**

Master Agreement No: 1900000000000000102

MA Version: 5

Page: 1 of 3

Description: ALERT Base Station System Support

I S S U E R	<p>Pima County Procurement Department 150 W. Congress St. 5th Fl Tucson AZ 85701</p> <p>Issued By: TROY MCMASTER Phone: 5207248728 Email: troy.mcmaster@pima.gov</p>
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T E R M S	<p>Initiation Date: 12-21-2021 Expiration Date: 02-17-2022</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 2px;">NTE Amount:</td> <td style="padding: 2px;">\$851,000.00</td> </tr> <tr> <td style="padding: 2px;">Used Amount:</td> <td style="padding: 2px;">\$437,153.52</td> </tr> </table>	NTE Amount:	\$851,000.00	Used Amount:	\$437,153.52
NTE Amount:	\$851,000.00				
Used Amount:	\$437,153.52				

V E N D O R	<p>JE FULLER HYDROLOGY & GEOMORPHOLOGY INC 40 E HELEN ST TUCSON AZ 85705</p>	<p>Contact: JOHN WALLACE Phone: 520-623-3112 Email: john@jefuller.com Terms: 0.00 % Days: 30</p>
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<p>Shipping Method: Vendor Method</p> <p>Delivery Type:</p> <p>FOB: FOB Dest, Freight Prepaid</p>	<p>Modification Reason</p> <p>This Amendment No. 03 is for a one-time increase in the amount of \$310,000.00 for a cumulative not-to-exceed contract amount of \$851,000.00. This increase is required for the ALERT2 conversion and the Bighorn Fire PTZ Flood Cameras project. Attachments: Exhibit A.1: Pima County Scope of Services; Exhibit A.2: Bighorn Fire PTZ Flood Cameras; Exhibit B.1: ALERT2 Conversion Pricing Schedule; Exhibit B.2: Bighorn Fire PTZ Flood Cameras Pricing Schedule; Exhibit C: Israel Boycott Certification.</p>
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This Master Agreement incorporates the attached documents, and by reference all instructions, Standard Terms and Conditions, Special Terms and Conditions, and requirements that are included in or referenced by the solicitation documents used to establish this agreement. All transactions and conduct are required to conform to these documents.



MASTER AGREEMENT DETAILS

Master Agreement No: 1900000000000000102

MA Version: 5

Page: 2 of 3

Line	Description					
1	Software Setup/Support Project Manager II					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$140.00			
2	Software Setup/Support Project Engineer III					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$125.00			
3	Software Setup/Support Hydrologist II					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$105.00			
4	Software Setup/Support Admin./Tech IV					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$75.00			
5	Software Setup/Support Admin./Tech III					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$70.00			
6	Data & Metadata Mgmt & Integration Project Manager II					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$140.00			
7	Data & Metadata Mgmt & Integration Project Engineer III					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$125.00			
8	Data & Metadata Mgmt & Integration Hydrologist II					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$105.00			
9	Data & Metadata Mgmt & Integration Admin./Tech IV					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$75.00			
10	Data & Metadata Mgmt & Integration Admin./Tech III					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$70.00			
11	Website Support & Customization Project Manager II					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$140.00			
12	Website Support & Customization Project Engineer III					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$125.00			
13	Website Support & Customization Hydrologist II					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$105.00			
14	Website Support & Customization Admin./Tech IV					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$75.00			
15	Website Support & Customization Admin./Tech III					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$70.00			
16	Flood Camera Support Project Manager II					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$140.00			
17	Flood Camera Support Project Engineer III					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$125.00			
18	Flood Camera Support Hydrologist II					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$105.00			
19	Flood Camera Support Admin./Tech IV					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$75.00			



MASTER AGREEMENT DETAILS

Master Agreement No: 1900000000000000102

MA Version: 5

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Line	Description					
20	Flood Camera Support Admin./Tech III					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$70.00			
21	Travel/Mileage					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$0.71			
22	Call Service for 12 months					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$0.00			
23	Direct Costs					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	EA	\$0.00			
24	Project Manager III					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	HOUR	\$151.00			
25	Project Engineer II					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	HOUR	\$124.00			
26	Hydrologist I					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	HOUR	\$95.00			
27	Hydrologist II					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	HOUR	\$105.00			

Exhibit A.1: Pima County Scope of Services

ALERT Base Station System Support

Task 2 is deleted in its entirety and replaced with the following:

Task 2: ALERT/ALERT2 Data and Metadata Management and Integration

Consultant shall assist RFCD staff with ALERT System data and metadata management, including the following:

- Integration of real-time data from other agencies into the database;
- Remote sensor and station metadata and stage/discharge rating curve management;
- Integrating metadata and stage/discharge rating curves provided by other agencies into the ALERT database;
- Develop and manage processes to automatically publish data and metadata for other agencies to access remotely;
- Develop and maintain metadata webpages for all ALERT stations owned by RFCD;
- Support and update the new SFTP data feeds from other agencies as needed including when new stations are added by those agencies;
- Acquire and import rating curves associated with newly installed ALERT stations owned/operated by surrounding cooperative agency ALERT system stream gauges for which data are being “mined” via SFTP routine;
- Support efforts to disseminate data automatically to other cooperating agencies, such as the National Weather Service and the Colorado Basin River Forecast Center;
- Perform data mining efforts including other ALERT website map layers such as radar and fire perimeters, other tabular data sets as they become available, and images such as from IP cameras owned by RFCD and others;
- Conduct a TDMA Planning Study for ALERT2;
- Assist in installing ALERT2 hardware including antennas, ALERT2 receiver/decoders, repeaters and associated equipment; and,
- Assist in retrofitting existing ALERT sites with ALERT2 compatible hardware.

Exhibit A.2: Bighorn Fire PTZ Flood Cameras

The purpose of this project is to furnish, install and make operational 6 pan, tilt, zoom IP cameras in and around the Bighorn Fire burn scar. This work will be provided by JE Fuller Hydrology Inc. (JEF), in close coordination with staff of the Pima County Regional Flood Control District and IT Department (ITD).

Task 1: Coordination

JEF shall provide project coordination. Tasks include overall project management and coordination with other agencies and organizations including the National Forest Service, Pima County Department of Transportation (PCDOT), and/or Arizona 811. JEF will coordinate data provision and public static IPV4 addresses through equipment manufacturers and service providers and secure a dedicated domain name for each camera location.

Tasks 2 Through 7: Pan Tilt Zoom Camera Installation

JEF shall furnish, install, and setup a solar powered Pan Tilt Zoom camera system. This task will include reconnaissance with county staff to verify camera installation location, installation of concrete base, and camera pole installation. Installation will also include programming the camera tour and image transmission, as well as adding the latest images to the existing publicly accessible data map and any applicable DSS pages. JEF will supply 1 year of data provision.

Please see the attached detailed fee estimate, which includes the complete equipment specifications and costs.

Exhibit B.1 ALERT2 Conversion Pricing Schedule

Contract Task	Project Manager III (\$145/Hr)	Project Manager II (\$140/Hr)	Project Engineer III (\$125/Hr)	Project Engineer II (\$115/Hr)	Project Engineer I (\$110/Hr)	Hydrologist III (\$105/Hr)	Hydrologist II (\$105/Hr)	Hydrologist I (\$90/Hr)	Admin/Tech IV (\$75/Hr)	Admin/Tech III (\$70/Hr)	Admin/Tech II (\$48/Hr)	Totals
1	Software Setup/Support											\$0
2	ALERT/ALERT2 Data and Metadata Management and Integration											\$131,300
3	Website Support and Customizations											\$0
4	Flood Camera Support											\$0
TOTALS	0	350	146	0	0	0	610	0	0	0	0	\$131,300
Direct Costs:												
											Mileage 3800 miles x \$0.71/mile	\$2,698
											Other Direct Costs, including transportation, travel meals, hotel charges, miscellaneous supplies	\$5,000
											Total Direct Costs	\$7,698
											Total Cost	\$138,998

Exhibit B.2 Bighorn Fire PTZ Flood Cameras Pricing Schedule

Contract Task	Project Manager III (\$151/Hr)	Project Manager II (\$140/Hr)	Project Engineer III (\$132/Hr)	Project Engineer II (\$124/Hr)	Project Engineer I (\$115/Hr)	Hydrologist III (\$105/Hr)	Hydrologist II (\$102/Hr)	Hydrologist I (\$95/Hr)	Admin/Tech IV (\$80/Hr)	Admin/Tech III (\$75/Hr)	Admin/Tech II (\$65/Hr)	Totals
1	Coordination/Reconnaissance											
	12			12				12				\$4,440
2	IP Camera Installation 1											
	12			48				48				\$12,324
3	IP Camera Installation 2											
	12			48				48				\$12,324
4	IP Camera Installation 3											
	12			48				48				\$12,324
5	IP Camera Installation 4											
	12			48				48				\$12,324
6	IP Camera Installation 5											
	12			48				48				\$12,324
7	IP Camera Installation 6											
	12			48				48				\$12,324
	TOTALS	84	0	0	300	0	0	300	0	0	0	\$78,384
Direct Costs:												
											Mileage 1,720 miles x \$0.71/mile	\$1,221
											Other Direct Costs, including transportation, travel meals, parking charges.	\$100
											Task 2 Equipment (Including Tax and Shipping)	\$11,466
											Task 2 cellular service for 12 months (average of \$45/month per cell modem)	\$540
											Task 2 Installation Supplies for Concrete Base Installation	\$750
											Task 2 Equipment Rental/Traffic Control for Concrete Base Installation	\$1,500
											Task 2 Sub-Total	\$14,256
											Task 3 Equipment (Including Tax and Shipping)	\$11,466
											Task 3 cellular service for 12 months (average of \$45/month per cell modem)	\$540
											Task 3 Installation Supplies for Concrete Base Installation	\$750
											Task 3 Equipment Rental/Traffic Control for Concrete Base Installation	\$1,500
											Task 3 Sub-Total	\$14,256
											Task 4 Equipment (Including Tax and Shipping)	\$11,466
											Task 4 cellular service for 12 months (average of \$45/month per cell modem)	\$540
											Task 4 Installation Supplies for Concrete Base Installation	\$750
											Task 4 Equipment Rental/Traffic Control for Concrete Base Installation	\$1,500
											Task 4 Sub-Total	\$14,256
											Task 5 Equipment (Including Tax and Shipping)	\$11,466
											Task 5 cellular service for 12 months (average of \$45/month per cell modem)	\$540
											Task 5 Installation Supplies for Concrete Base Installation	\$750
											Task 5 Equipment Rental/Traffic Control for Concrete Base Installation	\$1,500
											Task 5 Sub-Total	\$14,256
											Task 6 Equipment (Including Tax and Shipping)	\$11,466
											Task 6 cellular service for 12 months (average of \$45/month per cell modem)	\$540
											Task 6 Installation Supplies for Concrete Base Installation	\$750
											Task 6 Equipment Rental/Traffic Control for Concrete Base Installation	\$1,500
											Task 6 Sub-Total	\$14,256
											Task 7 Equipment (Including Tax and Shipping)	\$11,466
											Task 7 cellular service for 12 months (average of \$45/month per cell modem)	\$540
											Task 7 Installation Supplies for Concrete Base Installation	\$750
											Task 7 Equipment Rental/Traffic Control for Concrete Base Installation	\$1,500
											Task 7 Sub-Total	\$14,256
											Total Direct Costs	\$86,857
											Total Cost	\$165,241

Detailed Component Specifications

Part List	Detail	qty	Base Cost	Tax	Shipping	Sub Total
150W Solar Panel	Renogy 175 W	1	325.00	26.33		351.33
Panel Bracket	Adjustible Tilt Bracket	1	50.00	4.05		54.05
Aluminum Box	Bison Profab w/ Powder Coat Finish- Custom Fabrication	1	1,015.00	82.22		1,097.22
Hinged Pole	Pemco 6" 0.188" Thickness, Powder Coat	1	1,380.00	111.78		1,491.78
6" u bolt clamp kit		1	60.00	4.86		64.86
Camera	Bosch Autodome IP Starlight 5000i (NDP-5512-Z30L-P)	1	1,560.00	126.36		1,686.36
Camera junction box	Bosch (NDA-U-PA0)	1	150.00	12.15		162.15
Camera pendant arm	Bosch (NDA-U-WMT)	1	60.00	4.86		64.86
Micro SD card	Miscellaneous	1	40.00	3.24		43.24
Camera mounting hardware	Miscellaneous	1	100.00	8.10		108.10
Cellular Modem	RV50X	1	700.00	56.70	15.00	771.70
Cell antenna and grounding	CSI 35544	1	400.00	32.40	15.00	447.40
Powerstream 12 vdc to 24 vac	PowerStream PST-INV1224-60Hz	1	125.00	10.13	10.00	145.13
PoE Injector	PDCPOE1248DR	1	95.00	7.70	10.00	112.70
Solar Charge Controller	SunSaver MPPT-15L	1	405.00	32.81	20.00	457.81
Data Logger	Campbell Scientific CR 300	1	785.00	63.59	15.00	863.59
Battery - AGM	Power Sonic AGM 12v 100 Ah Battery TBD	0	0.00	0.00	100.00	100.00
Battery - Lithium	100Ah 12V LiFePO4 Deep Cycle Battery (Lithium)	2	1,200.00	97.20		1,297.20
Fuse Block	Blue Sea Systems 6 ST Blade ATC Block	1	40.00	3.24		43.24
Fuse Block	TBD	1	40.00	3.24		43.24
Cooling Fan	9GA0812P4H001	1	40.00	3.24		43.24
Universal Back Plate	ENC16/18 6401	1	45.00	3.65	5.00	53.65
Board Componennts Mounting Hardware	Miscellaneous	1	50.00	4.05		54.05
Battery quick disconnects	175 Amp Anderson Powerpole Kit Red 6 Gauge	1	25.00	2.03		27.03
Battery quick disconnects	175 Amp Anderson Powerpole	1	35.00	2.84		37.84
Null Cell Modem Cable	DB9 to DB9		15.00	1.22		16.22
Latching Relay	CSI LR4	1	880.00	71.28	15.00	966.28
Door Indicator Kit		1	250.00	20.25		270.25
Battery Box		1	30.00	2.43		32.43
2.5 Ahr Battery		1	45.00	3.65	10.00	58.65
Strobe Beacon Light		1	115.00	9.32		124.32
Mounting Hardware	Miscellaneous		105.00	8.51		113.51
Ground rods, equipment and wire	Miscellaneous	1	75.00	6.08		81.08
Misc cables		6	168.00	13.61		181.61
			10,408.00	843.05	215.00	11,466.05

Exhibit C: Israel Boycott Certification

Israel Boycott Certification. Pursuant to A.R.S. § 35-393.01, if Contractor engages in for-profit activity and has 10 or more employees, and if this Contract has a value of \$100,000.00 or more, Contractor certifies it is not currently engaged in, and agrees for the duration of this Contract to not engage in, a boycott of goods or services from Israel. This certification does not apply to a boycott prohibited by 50 U.S.C. § 4842 or a regulation issued pursuant to 50 U.S.C. § 4842.