



BOARD OF SUPERVISORS AGENDA ITEM REPORT AWARDS / CONTRACTS / GRANTS

Award Contract Grant

Requested Board Meeting Date: 11/19/2024

* = Mandatory, information must be provided

or Procurement Director Award:

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

Insight Hydrology LLC

***Project Title/Description:**

Rating Curve Development for Pima County Flood Warning Gages

***Purpose:**

The Regional Flood Control District (District) operates more than 150 real-time flood warning sensors to monitor both precipitation and stream discharges. Precise calibration between flow depth and stream discharge enhances the reliability of Pima County's advanced flood alert system. This improvement empowers emergency coordinators to make well informed choices during flooding incidents. Additionally, calibrating models in these zones could benefit future flood predictions made by the District. This could lead to lower flood insurance costs for homeowners and more accurately pinpoint areas at high risk for flooding.

The District is exercising the first extension option to renew the Contract for one additional year, commencing on 11/07/2024 to allow for the ongoing services of Insight Hydrology LLC to provide for the Rating Curve Development for Pima County Flood Warning Gages.

***Procurement Method:**

Direct Select per Board of Supervisors Policy D29.6, III-C.

***Program Goals/Predicted Outcomes:**

Insight Hydrology LLC will provide Digital Elevation Models for three (3) ALERT sites, orthophotos of each site, 2D flow models, rating curve specific to each ALERT gage, observed discharge measurements, and documentation of all model inputs for future replication.

***Public Benefit:**

Enhancing the precision of state-of-the-art flood alert sensors offers emergency managers and first responders access to more reliable data, enabling better decision-making. Such improvements also hold the potential for re-evaluating FEMA-designated Special Flood Hazard Areas, which could ultimately lower insurance costs for homeowners by more accurately identifying floodprone regions.

***Metrics Available to Measure Performance:**

Deliverables for rating curve development for three (3) ALERT sites in Pima County.

***Retroactive:**

Yes. Due to internal oversight, an amendment of the Direct Selection request was required as the initial approval did not include required language to reflect an increased Not To Exceed amount.

TO: COB, 11-4-24(1)
VERS: 1
PGS: 2

NOV01*24am1120 PD

THE APPLICABLE SECTION(S) BELOW MUST BE COMPLETED

Click or tap the boxes to enter text. If not applicable, indicate "N/A". Make sure to complete mandatory (*) fields

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: PO Department Code: FC Contract Number (i.e., 15-123): CT 24*143

Amendment No.: 01 AMS Version No.: 1

Commencement Date: 11/07/2024 New Termination Date: 11/06/2025

Prior Contract No. (Synergen/CMS): _____

Expense Revenue Increase Decrease Amount This Amendment: \$ 45,000

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

*Funding Source(s) required: Flood Control Ops

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

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: Alireza Arabzadeh (P/U M. Guzman 4-4611)

Department: Regional Flood Control District

Telephone: 724-4620

Department Director Signature: _____ Date: 10/31/24

Deputy County Administrator Signature: _____ Date: 10/31/2024

County Administrator Signature: _____ Date: 11-1-2024

DATE: October 22, 2024

TO: Jan Leshner
County Administrator

FROM: Eric Shepp, P.E.
Director

SUBJECT: Amendment Request – Direct Selection of Professional Services from Insight Hydrology, LLC for Rating Curve Development for Pima County Flood Warning Gauges, Contract Number PO_CT_24*143

Pursuant to Board of Supervisors Policy D29.6 III.C – Direct Selection and Procurement Procedure No. PO-50, the Regional Flood Control District (District) received approval to direct select Insight Hydrology, LLC, to provide modeling and calibration services of Pima County Automated Elevation in Real Time (ALERT) flood warning gauges, and Contract Number PO_CT_24*143 was awarded in the amount of \$45,000.

BACKGROUND

The District maintains over 150 real-time flood warning sensors monitoring both precipitation and stream discharge. Accurately calibrating water depth with stream discharge will improve the accuracy of Pima County's near-real-time flood alerts allowing emergency managers to make informed decisions during flood events. Model calibration in these areas also has the potential to improve future flood modeling conducted by the District potentially reducing flood insurance expenses for homeowners and better identifying areas of critical flood hazard.

Insight Hydrology LLC is uniquely qualified to model and calibrate rating curves for existing warning gauges. Insight Hydrology utilizes a state-of-the-art process combining drone procured video and photogrammetry, 2-D modeling, and particle flow-tracking to accurately predict stream discharge. This US Geological Survey developed, and peer reviewed technique is not currently utilized by any other academic or industry institution.

REQUESTED ACTION

The District requests approval to amend PO_CT_24*143 to increase the not to exceed amount from \$45,000 to \$225,000 to allow for continued services with Insight Hydrology for the Rating Curve Development for Pima County flood warning gauges for a contract term that began November 7, 2023, and is now being extended through November 6, 2025 pursuant to the Direct Select provisions of Board of Supervisors Policy D29.6, III-C.

The District requests to maintain the extension provisions of the original Direct Selection, which allows the District to pursue the remaining three (3) additional year extension options pursuant to the Direct Select provisions of Board of Supervisors Policy D29.6, III-C.

ES/tj

c: Carmine DeBonis, Jr., Deputy County Administrator for Public Works
Terri Spencer, Director – Procurement Department
Brian Jones, Deputy Director – Regional Flood Control District

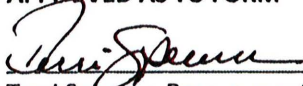
Jan Leshar, County Administrator

**Amendment Request – Direct Selection of Professional Services from Insight Hydrology, LLC
for Rating Curve Development for Pima County Flood Warning Gauges, Contract Number
PO_CT_24*143**

October 22, 2024

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APPROVED AS TO FORM



Terri Spencer, Procurement Director

10/22/2024

Date

CONCUR



Carmine DeBonis, Jr., Deputy County Administrator for Public Works

10/23/2024

Date

DIRECT SELECT APPROVED



Jan Leshar, County Administrator

10/23/2024

Date

Pima County Regional Flood Control District

Project: Rating Curve Development for Pima County Flood Warning Gauges

Contractor: Insight Hydrology LLC

Contract No.: CT_2400000000000000143

Contract Amendment No.: 01

| | | |
|---|---------------------------------|--------------|
| Orig. Contract Term: 11/07/2023 – 11/06/2024 | Orig. Amount: | \$ 45,000.00 |
| Termination Date Prior Amendment: N/A | Prior Amendments Amount: | \$ 0.00 |
| Termination Date This Amendment: 11/06/2025 | This Amendment Amount: | \$ 45,000.00 |
| | Revised Total Amount: | \$ 90,000.00 |

CONTRACT AMENDMENT

The parties agree to amend the above-referenced contract as follows:

1. Background and Purpose.

1.1. Background. On November 7, 2023, District and Contractor entered into the above referenced agreement to provide Rating Curve Development for Pima County Flood Warning Gauges.

1.2. Purpose. District requires the ongoing services of Insight Hydrology LLC to provide Digital Elevation Models for the three (3) ALERT sites, orthophotos of each site, 2D flow models, rating curve specific to each ALERT gage, observed discharge measurements, and documentation of all model inputs for future replication.

2. Term. District is exercising the first extension option to renew the Contract for one additional year commencing on November 7, 2024 and terminating on November 6, 2025. If the commencement date is before the Effective Date of this amendment, the parties will, for all purposes, deem the amendment to have been in effect as of the commencement date.

3. Maximum Payment Amount. The maximum amount District will spend under this Contract, as set forth in Section 5.2, is increased by \$45,000. District's total payments to Contractor under this contract, including any sales taxes, will not exceed \$90,000.

4. Heat Injury and Illness Prevention and Safety Plan. Pursuant to Pima County Procurement Code 11.40.030, Contractor hereby warrants that if Contractor's employees perform work in an outdoor environment under this Contract, Contractor will keep on file a written Heat Injury and Illness Prevention and Safety Plan. At District's request, Contractor will provide a copy of this plan and documentation of heat safety and mitigation efforts implemented by Contractor to prevent heat-related illnesses and injuries in the workplace. Contractor will post a copy of the Heat Injury and Illness Prevention and Safety Plan where it is accessible to employees. Contractor will further ensure that each subcontractor who performs any work for Contractor under this Contract complies with this provision.

Contract No.: PO_ CT_2400000000000000143

All other provisions of the Contract not specifically changed by this Amendment remain in effect and are binding upon the parties.

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

Adelita S. Grijalva, Chair
Board of Directors

Date

CONTRACTOR

Christopher F. Smith

Authorized Officer Signature

Christopher F Smith

Printed Name and Title

10-30-24

Date

ATTEST

Melissa Manriquez, Clerk of the Board

Date

APPROVED AS TO FORM

Bobby Yu

Deputy County Attorney

Bobby Yu

Print DCA Name

10/30/2024

Date