RFQ ADDENDUM #5

Request for Qualifications #KY-17-007-01

Kayenta Township Community Development Department

928.697.8451

ADDENDUM #5

NOTE: Attach to Original RFQ. However, if Proposal has already been returned, complete this amendment and return for attachment to your Proposal by 5:00 pm, September 7, 2017.

Kayenta Township

¼ mile North of Jct. US Hwy 163 & 160

Kayenta, Arizona 86033

Attn: Heston Zonnie

SOLICITATION: Request for Qualifications # KY-17-007-01

0.67 Mile Bus Route Improvement Plans

NOTICE TO CONTRACTORS:

This Amendment forms a part of the Contract and clarifies, corrects, or modifies the original Request for Qualifications for Proposal documents prepared by the Kayenta Township.

Bid Due Date and Time: **5:00 pm, September 7, 2017 p.m. MST**

Last Day for Questions: **5:00 pm, September 1, 2017 p.m. MST**

Please amend and include the following information for Request for Qualifications #KY-100-1-11-5610 as follows:

1. Revisions to Quantity List
    a. Base bid item 9: CMP Extensions revised to reflect total amount of new CMP needed for extensions.
2. Questions
    a. On sheet PP07 showing the pedestrian crossing, can you confirm the sidewalks will be 5 feet wide and the width of the pedestrian bridge will be 3 feet?
        i. The standard width for pedestrian bridges of this span is 6’ wide.
        ii. Contractors are encouraged to contact JBacigalupi@conteches.com to start a process for a valued engineered solution that will provide safe passage over the Q100 Water Surface Elevation. Plans provided by Arrowhead Engineering, Inc. was just a starting point.

iii. Per Note 2, on Sheet PP07:
These bridge schematics are to be used by the contractor to obtain detailed engineered structural drawings complete with structural engineering stamp. The pedestrian bridge similar or equal to the kind provided by Contech will be reviewed at bidding. The plan and profile section are meant to provide bidding assistance and nothing more.

b. On sheet PP03 & PP04, the linear feet shown on the elevation profile are different than linear feet number on the plan view. Can you confirm which one we need to use?
    i. Only new culvert extensions will be included in the bid. Lengths shown in profile view are lengths of existing CMP. Revision made to Exhibit H: Quantity List Base Bid Item 9 to reflect total new CMP needed for extensions.
c. On Sheet PP05, Pavement Options shown on upper left corner, what type and Manufacture of Fabric is required?
    i. See Attached for Product Data.

RFQ #KY- KY-17-007-01

ADDENDUM NUMBER #5

ADDENDUM ISSUE DATE: September 1, 2017

Offeror certifies that Offeror has read, understands, and will fully and faithfully comply with this Request for Qualifications, its attachments and any referenced documents. Offeror also certifies that this offer was independently developed without consultation with any of the other Offerors or potential Offerors.

Name of Company: _____

Authorized Signature: _____

Print Name and Title: _____

Date: _____

Address: _____

City, State, Zip Code: _____

Telephone Number: _____

Email Address: _____

Exhibit H
Kayenta Bus Route
Quantity List - September 2017
Project No. 217-003

ARROWHEAD
ENGINEERING, INC.
1685 S. SAN TODARO PLACE
TUCSON, ARIZONA 85713
PHONE: (520) 822-7702
FAX: (520) 777-3438

#	Item	Qty	Unit	Unit Price	Total
	Base Bid				
1	Asphalt Pavement Section - 4" AC	11835	SY		
2	Asphalt Pavement Section - 8" ABC	11835	SY		
3	Vertical Curb and Gutter	7860	LF		
5	Curb Openings (5' Curb Transition w/ 3' Opening)	18	EA		
6	Removal of Structure & Obstruction	1	LS		
7	6" D50 Riprap	250	SY		
8	4'x6' Concrete Box Culvert*	2	EA		
9	CMP Culvert Extension	216	LF		
10	CMP Dimpled Band	15	EA		
11	CMP End Sections	15	EA		
12	Stop Sign	5	EA		
13	School Crossing Sign - S1-1 with W16-7P	2	EA		
14	School Crossing Sign - S1-1 with W16-9P	2	EA		
15	School Crossing Pavement Markings	30	LF		
16	12" Stop Bar Paint	95	LF		
17	4" Yellow Center Line Pavement Markings	4100	LF		
18	4" White Lane Line Pavement Markings	8200	LF		
19	Net Fill Import	10080	CY		
	Subtotal:				
	Probable Cost Supplement				
1	Mobilization	1	LS		
2	Traffic Control/QAQC	1	LS		
3	SWPPP	1	LS		
4	Landscaping	1	LS		
5	Survey and Staking	1	LS		
	Subtotal:				

* Value Engineering Options are encouraged

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PHONE: (520) 822-7702
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	Cost Subtotal:				
	Builder's Risk Insurance				
	Liability Insurance				
	Payment and Performance Bond				
	10% Contingency				
	BASE BID SUBTOTAL				
	Kayenta Sales + Construction Tax 6% Total				
	Base Bid Total:				
#	***Item***	***Qty***	***Unit***	***Unit Price***	***Total***
	Bid Alternative 1				
1	Sidewalk	4370	SY		
2	Diamond Plate Scupper	18	EA		
3	Curb Access Ramps	12	EA		
4	Additional Fill Import	4600	CY		
	BID ALTERNATIVE 1 SUBTOTAL:				
	Kayenta Sales + Construction Tax 6% Total				
	Bid Alternative 1 Total:				
	Bid Alternative 2				
1	Pedestrian Bridge, Abutments, & Walkway*	95	LF		
	BID ALTERNATIVE 2 SUBTOTAL:				
	Kayenta Sales + Construction Tax 6% Total				
	Bid Alternative 2 Total:				
	Job Total				

Arrowhead Engineering Inc. is pleased to provide the following feasibility cost estimate for the Kayenta Bus Route. The scope of work included in this estimate is for the general sitework items typically performed (grading, sewer, water, joint utilities, paving and drainage). Although we have tried to provide an accurate cost for construction, this estimate is based on several assumptions and is no way intended to represent the actual estimate characterized by the final approved design plansets. Early cost estimates usually contain a larger degree of uncertainty. A 10% contingency is added as a provision for unforeseeable elements of cost within the defined project scope. As such the user of these documents shall not hold Arrowhead Engineering Inc. liable for any errors or omissions associated with these documents.

* Value Engineering Options are encouraged

GEOTEX®
BY PROPEX

Product Data
GEOTEX® 601

GEOTEX® 601 is a polypropylene, staple fiber, needlepunched nonwoven geotextile produced by Propex, and will meet the following Minimum Average Roll Values (MARV) when tested in accordance with the methods listed below. The fibers are needled to form a stable network that retains dimensional stability relative to each other. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

GEOTEX 601 conforms to the property values listed below[1]. Propex performs internal Manufacturing Quality Control (MQC) tests that have been accredited by the Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP). This product is NTPEP approved for AASHTO standards.

PROPERTY	TEST METHOD	MARV[2] ENGLISH	MARV[2] METRIC
ORIGIN OF MATERIALS			
% U.S. Manufactured Inputs		100%	100%
% U.S. Manufactured		100%	100%
MECHANICAL			
Tensile Strength (Grab)	ASTM D-4632	160 lbs	712 N
Elongation	ASTM D-4632	50%	50%
CBR Puncture	ASTM D-6241	410 lbs	1824 N
Trapezoidal Tear	ASTM D-4533	60 lbs	267 N
ENDURANCE			
UV Resistance % Retained at 500 hrs	ASTM D-4355	70%	70%
HYDRAULIC			
Apparent Opening Size (AOS)[3]	ASTM D-4751	70 US Std. Sieve	0.212 mm
Permittivity	ASTM D-4491	1.3 sec^{-1}	1.3 sec^{-1}
Water Flow Rate	ASTM D-4491	110 gpm/ft^2	4482 $l/min/m^2$

ROLL SIZES	12.5 ft x 360 ft 15 ft x 300 ft	3.81 m x 109.8 m 4.57 m x 91.5 m

NOTES:
1. The property values listed above are effective 04/2011 and are subject to change without notice.
2. Values shown are in weaker principal direction. Minimum average roll values (MARV) are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any samples taken from quality assurance testing will exceed the value reported.
3. Maximum average roll value.

Propex™ Geotextile Systems

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