



CITY MANAGER'S REPORT

AGENDA ITEM REQUEST

FINANCE DEPARTMENT

TO: Ed Lavallee, City Manager

THROUGH: Jeff Snyder, Finance Director

FROM: Jon Mayes, Procurement Specialist

DATE: August 27, 2013

SUBJECT: Citywide Fiber Optic Installation – Aztek Communications of South Florida, Inc. Cooperative Purchase

Background:

In a joint effort to improve the citywide communications network, the City of Venice Utilities and Information Technology Departments have investigated installing fiber optic cable within the conduit constructed in 2002 as part of Utilities Project A which, in part, extended the City's reuse system. Installation of fiber optic cable in this existing conduit will vastly improve the speed, reliability, and redundancy of Utilities Department communications and control to a large variety of utilities assets scattered throughout the City, including but not limited to the water treatment plant, wastewater treatment plant, 85 sanitary sewer lift stations, 2 elevated storage tanks, 1 ground storage tank, 1 potable water booster pumping station, 6 bulk reclaimed water delivery and metering locations, 1 Industrial NPDES outfall, 1 NPDES outfall, 1 reclaimed water interconnection with Sarasota County, 2 potable water emergency interconnections with Sarasota County, and a variety of other potential applications such as flow monitoring, chlorine residual monitoring, pressure monitoring, and hydrogen sulfide monitoring. Additionally, improvements in the entire City's network communications system speed, coverage, and reliability will be improved for both normal business and emergency scenarios, such as EOC activation. These improvements also provide a multitude of other potential future system improvements and efficiencies, including such things as providing the backbone for an improved and consolidated City telephone system, a City-wide security and facility access system, facilitating data backs for disaster recovery, and a host of other possibilities. Based on an investigation of options available to complete this project, City staff is recommending using a Cooperative Purchase on a Collier County contract bid earlier this year. The Collier County contract includes all the services needed for the City project and is essentially what the City would have bid if we had prepared a public advertisement for construction. As described in the attached information, Collier County selected Aztek Communications of South Florida, Inc. through a competitive bid selection process. The City of Venice Utilities and Information Technology Departments are requesting to use this Cooperative Purchase for citywide installation of fiber optic cable and associated services.

Requested Action:

We request Council's permission to approve a variety of fiber optic services provided by Aztek Communication of South Florida, Inc., for citywide improvement in the communication network, in the amount of \$642,296.50.

City Attorney Review:

The City Attorney has reviewed this document and finds it to be in proper legal form.

Risk Management Review:

The Risk Manager has reviewed this document and finds no risk management objections.

Funds Availability (account number):

Funds appropriated in department account for budget year 2012-2013.

CITY OF VENICE
COMPETITIVE PROCUREMENT EXEMPTION REQUEST FOR COOPERATIVE
PURCHASING OR "PIGGYBACK"

RECEIVED

AUG 19 2013

DEPARTMENT/DIVISION Utilities Department

NAME OF REQUESTOR Len Bramble

In accordance with its code, the City of Venice wishes to exercise its right to utilize the competitive procurement process of another jurisdiction.

Section 2-224 of the City of Venice Municipal Code for Cooperative Purchasing states - "The Finance Director, or designee, shall have the authority to enter into cooperative purchasing agreements with other public agencies for commodities and services. Competitive bidding requirements may not be applicable"

A. Vendor Information

Vendor Name: Aztec Communications of South Florida, Inc.

Address: 4730 Enterprise Avenue, Suite 308, Naples, FL 34104

Phone: 239-659-0017 Fax: 239-659-0018 Email: scoyne@azteknapples.com

B. Please describe all products and/or services to be procured under this exemption: The contractor shall provide services associated with the installation of a fiber optic network for the City. This shall include furnishing and installing conduit (as needed), fiber optic cable, testing and associated pull boxes, splicing, terminations and associated services.

C. Please provide the estimated fiscal year expenditure for this product or service: \$ 642,296.50
Account # 421-1202-536.63-00 Project # N/A

D. Briefly explain why it is in the best interest of the City to exempt this procurement from competition: Collier County conducted a detailed competitive bid process for the exact services the City needs to have performed, therefore, using this cooperative purchase will save the City time and expense.

E. Do you plan to use the Visa Card as a method of payment for this transaction? ☐ Yes ☒ No

F. Piggyback - Provide the entity name, contract number and contract term Collier County, FL. Agreement 12-5985. Fiber Optic Installation, Repair & Maintenance. One yr term, with 3 additional one yr renewals.

By signature, Vendor agrees to perform all of the work described in the proposal submitted, incorporated, attached and made a part of this Agreement, all in accordance with the requirements and provisions of the Contract Documents.

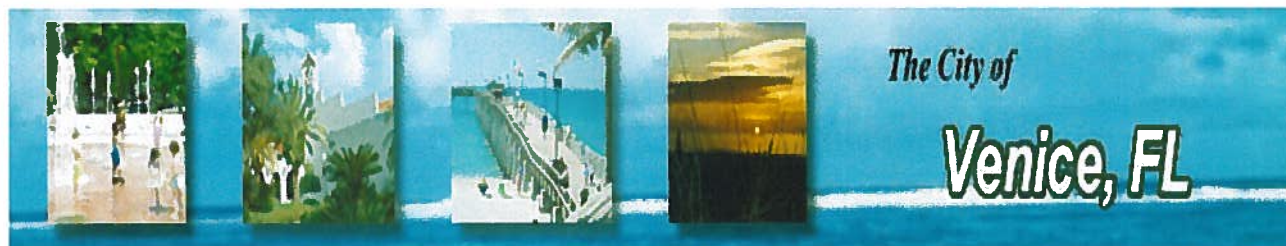
Vendor:  Date: 8-14-13

Title: Secretary, Sr. Project Mgr

Requesting Department Director's Signature: I. Hall for LEB Date: 8/26/13
Procurement Manager's Approval: [Signature] Date: 8/27/13
Finance Director's Approval (If applicable): [Signature] Date: 8-27-13
City Manager's Approval (If applicable): _____ Date: _____

☒ The department has attached the following documentation as backup with their request; bid/rfp, executed of contract (administrative or council approval), any amendments/memorandums/renewals, and tabsheet/price sheets).

REQUEST FOR PROPOSAL RESPONSE TO



PROPOSED PROJECT:
City of Venice
WAN Fiber project

Presented by

Scott Coyne, RCDD
scoyne@azteknaples.com



4730 Enterprise Ave. ▪ Suite 308 ▪ Naples, FL ▪ 34104
Phone: 239-659-0017 ▪ Fax: 239-659-0018

AUGUST 9, 2013



SCOPE OF SERVICES FIBER INSTALLATION

We are pleased to submit the following quotation for the project requirements to install fiber connectivity throughout the City of Venice, FL. Aztek shall furnish all material and labor to achieve the Scope of Work described here-in.

OVERVIEW:

Aztek Communications is submitting a quote based on pricing in conjunction with Collier County contract 12-5985.

This quote is to furnish and install a new fiber backbone throughout the city using existing and newly installed conduits, then installing drop cables to various city offices.

The spreadsheet attached shows the itemized charges for each phase.

We will begin with repairing/replacing some existing conduits installed by the City. These conduits were found impassible during a recent proofing by another contractor. Once these conduits are repaired, we will then install Maxcell throughout. This will channelize the conduits, allowing us to install the fiber and not take up the entire pathway.

There will be 2 separate fibers installed beginning at the "bunker" located in the middle of the city.

One of these fibers will head west towards various city facilities. This fiber will be continuous and stop in Pullbox #1. There will be 50 foot of slack at each handhole for future trouble-shooting and splicing.

The other fiber will leave the "bunker" and head east and then north towards the Eastside WRF and Firestation #3 where it will terminate.

Both new fibers will be terminated into new housings and all labeling and test results will be furnished upon the completion of the install of this portion.

Once the backbone fiber is installed and terminated, the last mile phase will begin. This portion will consist of installing new 2" conduits to each city facility and splicing on a new 48 strand SM drop cable. 12 strands of each cable will terminate creating a star topology from the WAN MDF to each facility. Another 12 strands will terminate, 6 in and 6 out, creating a loop throughout the city. This will allow any city facility to connect to any other facility via the installed fiber.

Aztek will be responsible for generating any permit drawings required and the submission of those documents. Any charges that apply for permitting will be the responsibility of the City of Venice.

Aztek is responsible for the installation of all new conduits from the existing pathways to the various facility IDFs. Installation includes any entrance facilities needed. The City of Venice IT department will instruct Aztek as to where fibers will terminate. All patch cords



needed for cross connect are the responsibility of the City of Venice. Aztek will assist in the installation/relocation of network equipment if needed.

Thank you for the opportunity to service the City of Venice on this project.

Scott Coyne, RCDD
Secretary
Aztek Communications
4730 Enterprise Ave Ste 308
Naples, FL 34104

Project Totals

NOTE: All fiber optic cable must be marked with owner's stripe and/or nomenclature, as detailed in the specifications document

Item Description	FDOT Pay Item	Quantity	Unit	Unit Price	Weighted Price
Fiber Optic Cable (per foot) F&I one cable (< 5000 feet), conduit in place					
1 48-fiber, SM	783-1-122	9470	Ft	\$1.18	\$ 11,174.60
2 96-fiber, SM	783-1-123		Ft	\$1.51	\$ -
3 144-fiber, SM	783-1-124		Ft	\$1.88	\$ -
4 Remove < 5000 ft fiber optic cable	783-1-600		Ft	\$0.75	\$ -
Fiber Optic Cable (per foot) F&I one cable (> 5000 feet), conduit in place					
5 48-fiber, SM	783-1-122		Ft	\$1.13	\$ -
6 96-fiber, SM	783-1-123		Ft	\$1.46	\$ -
7 144-fiber, SM	783-1-124	61045	Ft	\$1.83	\$ 111,712.35
8 Remove > 5000 ft fiber optic cable	783-1-600		Ft	\$0.75	\$ -
Fiber Optic Cable - 48f SM, 3000 ft on spool, <u>Furnish Only</u>					
9 (Collier County will arrange storage)	NA		Spool	\$1,170.00	\$ -
F&I 2 cables (< 5000 feet), conduit in place					
10 48-fiber, SM	783-1-122		Ft	\$1.03	\$ -
11 96-fiber, SM	783-1-123		Ft	\$1.25	\$ -
12 144-fiber, SM	783-1-124		Ft	\$1.40	\$ -
13 Remove < 5000 ft fiber optic cable (2 or more in conduit)	783-1-600		Ft	\$0.50	\$ -
F&I 2 cables (> 5000 feet), conduit in place					
14 48-fiber, SM	783-1-122		Ft	\$0.88	\$ -
15 96-fiber, SM	783-1-123		Ft	\$1.13	\$ -
16 144-fiber, SM	783-1-124		Ft	\$1.35	\$ -
17 Remove > 5000 ft fiber optic cable (2 or more in conduit)	783-1-600		Ft	\$0.50	\$ -
Fiber Optic Splicing, fusion (per fiber)					
18 1 - 10 fibers	783-2-31		Ea	\$20.00	\$ -
19 11 - 24 fibers	" "	168	Ea	\$23.00	\$ 3,864.00
20 25 - 48 fibers	" "		Ea	\$25.00	\$ -
21 49 - 96 fibers	" "		Ea	\$20.00	\$ -
22 > 96 fibers	" "		Ea	\$18.00	\$ -

Fiber Optic Termination, new (per fiber)

23 1 - 10 fibers – new termination	783-2-32	Ea	\$20.00	\$	-
24 11 - 24 fibers – new termination	" "	Ea	\$25.00	\$	4,200.00
25 25 - 48 fibers – new termination	" "	Ea	\$25.00	\$	-
26 49 - 96 fibers – new termination	" "	Ea	\$20.00	\$	-
27 > 96 fibers – new termination	" "	Ea	\$18.00	\$	7,776.00

Fiber Optic Installation, Splicing & Termination Hardware

28 Splice enclosure	783-3-11	6	Ea	\$327.10	\$	1,962.60
29 Splice tray	783-3-12	50	Ea	\$19.85	\$	992.50
30 Buffer tube fan-out kit	783-3-14		Ea	\$5.00	\$	-
31 Patch panel, field terminated	783-3-16		Ea	\$51.50	\$	-
32 Fiber optic connector panel	783-3-17	50	Ea	\$88.00	\$	4,400.00
33 3-sided marker	NA		Ea	\$22.00	\$	-
34 Patch Cable, SM, 3m, Simplex: SC to SC	783-3-18		Ea	\$9.00	\$	-
35 Patch Cable, SM, 3m, Simplex: SC to LC	" "		Ea	\$9.80	\$	-
36 Patch Cable, SM, 3m, Simplex: SC to ST	" "		Ea	\$7.50	\$	-
37 All other SM, 3m, simplex	" "		Ea	\$5.00	\$	-
38 Patch Cable, SM, 3m, Duplex: SC to SC	" "		Ea	\$18.00	\$	-
39 Patch Cable, SM, 3m, Duplex: SC to LC	" "		Ea	\$19.62	\$	-
40 Patch Cable, SM, 3m, Duplex: SC to ST	" "		Ea	\$14.97	\$	-
41 All other SM, 3m, duplex	" "		Ea	\$10.00	\$	-

OTDR Testing (per fiber, per direction, includes furnishing test results)

42 1 - 10 fibers, one direction	NA		Ea	\$4.00	\$	-
43 11 - 24 fibers, one direction	NA	168	Ea	\$7.00	\$	1,176.00
44 25 - 48 fibers, one direction	NA		Ea	\$9.00	\$	-
45 49 - 96 fibers, one direction	NA		Ea	\$7.00	\$	-
46 > 96 fibers, one direction	NA	432	Ea	\$4.00	\$	1,728.00

Conduit (per foot) F&I via trenching (< 5000 ft)

47 One 2" diameter, HDPE, orange	783-4-112	1210	Ft	\$5.25	\$	6,352.50
48 Two 2" diameter, HDPE, orange	" "	4825	Ft	\$5.75	\$	27,743.75
49 One 3" diameter, HDPE, orange	" "		Ft	\$5.75	\$	-
50 Two 3" diameter, HDPE, orange	" "		Ft	\$7.50	\$	-
51 Relocate existing conduit (< 5000 ft)	783-4-142		Ft	\$5.25	\$	-

Conduit (per foot) F&I via trenching (> 5000 ft)

52 One 2" diameter, HDPE, orange	783-4-112		Ea	\$5.00	\$	-
53 Two 2" diameter, HDPE, orange	" "	7500	Ea	\$5.50	\$	41,250.00

54 One 3" diameter, HDPE, orange	"	"	Ea	\$6.00	\$	-
55 Two 3" diameter, HDPE, orange	"	"	Ea	\$7.25	\$	-
56 Relocate existing conduit (> 5000 ft)	783-4-142		Ea	\$5.00	\$	-

Conduit (per foot) F&I via directional Bore

57 One 2" diameter, HDPE, orange	5362	Ft	\$12.00	\$	64,344.00
58 Two 2" diameter, HDPE, orange	5620	Ft	\$16.25	\$	91,325.00
59 One 3" diameter, HDPE, orange		Ft	\$14.50	\$	-
60 Two 3" diameter, HDPE, orange		Ft	\$20.25	\$	-

Fiber Optic Pull Box & Splice Box with Lid and Apron

61 Fiber optic pull box + lid with concrete apron (24"x36"x18")	783-5-1	34	Ea	\$425.00	\$	14,450.00
62 Fiber optic splice box + lid with concrete apron (30"x48"x18")	786-6-1		Ea	\$800.00	\$	-

Labor Rates

63 Fiber Optic Technician	NA	646	Hr	\$70.00	\$	45,220.00
64 Network Technician	NA		Hr	\$80.00	\$	-
65 Network Engineer	NA		Hr	\$90.00	\$	-
66 RCDD	NA	48	Hr	\$75.00	\$	3,600.00

Emergency Service Premium, during regular business hours

Unit cost for F&I Items at Emergency Premium (typical unit price + your premium = Regular Emergency Rate) **HOURLY RESPONSE TIME REQUIRED**
Emergency work taking place between 8:00 am - 5:00 pm, M-F, not including holidays.

67 Fiber optic F&I, 1 cable in existing conduit	783-1-12X	Ea	\$1.18	\$	-
68 Fiber optic F&I, 2 cables in existing conduit	783-1-12X	Ea	\$1.03	\$	-
69 Fiber optic splice F&I	783-2-31	Ea	\$22.00	\$	-
70 Fiber optic termination (new) F&I	783-2-32	Ea	\$23.00	\$	-
71 OTDR Testing F&I, one direction	NA	Ea	\$9.00	\$	-
72 Conduit F&I by trenching	783-4-112	Ea	\$5.25	\$	-

Emergency Service Premium, after business hours

Unit cost for F&I Items at Emergency Premium (typical unit price + your premium = After Hours Emergency Rate) **HOURLY RESPONSE TIME REQUIRED**
Emergency work taking place after 5:00 pm, M-F, weekends, and holidays.

73 Fiber optic F&I, 1 cable in existing conduit	783-1-12X	Ea	\$1.35	\$	-
74 Fiber optic F&I, 2 cables in existing conduit	783-1-12X	Ea	\$1.25	\$	-
75 Fiber optic splice F&I	783-2-31	Ea	\$22.00	\$	-
76 Fiber optic termination (new)	783-2-32	Ea	\$23.00	\$	-
77 OTDR Testing F&I, one direction	NA	Ea	\$9.00	\$	-
78 Conduit F&I by trenching	783-4-112	Ea	\$5.75	\$	-

**PLEASE REFER TO THE SCOPE OF SERVICES (SECTION J/K) FOR EXPANDED DEFINITION OF 'EMERGENCY REPAIR.'
NO ROUTINE WORK SHALL BE PERFORMED AT A PREMIUM RATE.**

		WEIGHTED LINE ITEM TOTAL	\$ 443,271.30
MaxCell- 3"x3 cell fabric innerduct	58,240	ft	\$2.75 \$ 160,160.00
#12 Tracer wire installed throughout length of backbone fiber	58,240	per	\$0.13 \$ 7,571.20
Belden, 2ru RIC	13	ea	\$252.00 \$3,276.00
24" wall mount cabinet	1	ea	\$468.00 \$ 468.00
80 Network Engineer/Technician			
81 As-Built Plans	34	Hr	\$80.00 \$ -
82 Google Earth		Hr	\$75.00 \$ 2,550.00
83 Splicing Diagrams in Visio		Hr	\$75.00 \$ -

CLOSE-OUT TOTAL \$ 174,025.20

OWNER'S ALLOWANCE \$25,000.00

PROJECT TOTAL \$ 642,296.50

The Owner's Allowance entails minor increases to existing bid item quantities or minor modification items which were unforeseen and necessary during the construction to provide a safe, complete project in accordance with this contract. Authorization for use of any of this bid item shall be made by the City of Venice in writing prior to performing the associated work.