

# INDIAN RIVER COUNTY, FLORIDA

## MEMORANDUM

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**TO:** Jason Brown, County Administrator

**FROM:** Dan Russell, Information Technology Director

**SUBJECT:** NexusWorx - Fiber Documentation System – Project Phase-3

**DATE:** November 3, 2021

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**CONSENT**

### **BACKGROUND**

Indian River County Information Systems & Telecommunications Division has deployed a municipal fiber optic infrastructure mapping and record keeping system for all IRC Outside Plant (OSP), and IRC Inside Plant (ISP) fiber optic network assets. Two phases of the IRC fiber optic network mapping system known as 'NexusWorx' have to date, been approved by the IRC Board of County Commissioners. Phases 1 and 2 have been completed.

The NexusWorx application is a product of Byers Engineering Inc., who also manages the mirrored web-portal sites that support this application. The database, records, and all collected OSP and ISP information, is the property of Indian River County BOCC.

NexusWorx project Phase 3 is the final step to complete documenting the IRC municipal fiber optic network grid. Phase 3 of the NexusWorx project will document a geographical area north of 20<sup>th</sup> Street in Vero Beach extending north to the Indian River County line. In the east / west coverage area, NexusWorx Phase-3 will range from US Highway A1A on the east perimeter, and extending west, to include the City of Fellsmere, at its western perimeter.

### **ANALYSIS**

As with the NexusWorx Phase 1 and Phase 2 project segments, the scope of work will be two tiered. Byers Engineering Inc. will develop the OSP project scope of work, and provide it to Gerelcom Inc., who will fully document all IRC fiber connections contained within IRC fiber optic splices and fiber optic patch panels. Byers Engineering Inc. personnel will collect and document all of the ISP fiber information. Byers Engineering Inc. will compile and enter all of the data collected in the NexusWorx Project Phase 3 scope of work area, into the NexusWorx web-portal, for daily use and administration by IRC personnel.

Phase-3 of the NexusWorx fiber documentation project entails the collection of all IRC field fiber optic network grid data, within the specified coverage area of the project, by Byers Engineering Inc. to include all of the following:

- \* OSP fiber assets to include all underground fiber optic handholds, fiber pull boxes, fiber patch panel housings, IRC traffic fiber cabinets, underground and aerial fiber optic splice enclosures - information detailing the point-to-point fiber optic splice connections contained within each fiber optic splice housing.
- \* ISP fiber assets to include all fiber optic patch panel connections within the County, and shared resource IRC Fiber Consortium building sites - information detailing the point-to-point fiber jumper connections at each fiber optic patch panel.

**FUNDING**

The estimated cost for the Byers Engineering Inc. segment of the NexusWorx Phase 3 project is \$104,750.00

The estimated cost for the Gerelcom Inc. segment of the NexusWorx Phase 3 project is \$127,353.72

The NexusWorx Phase-3 project will be funded by a roll-over budget amendment from the FY 2020/2021 budget in the IT Fund/Information Systems/Other Professional Services, account number 50524113-033190, in the amount of \$232,103.72.

<b>Account Name</b>	<b>Account Number</b>	<b>Amount</b>
IT/Information Systems/Other Professional Services	50524113-033190	\$232,103.72

**RECOMMENDATION**

Staff recommends that the IRC Board of County Commissioners waive the requirement for bids, approve funding in the amount of \$104,750.00 for Byers Engineering and \$127,353.72 for Gerelcom Inc., to complete Phase 3 of the NexusWorx - Fiber mapping project, and authorize the Purchasing Division to issue the required purchase orders each of these organizations.

Attachments:

1. NexusWorx Phase 3 - Byers Engineering Inc. Proposal.pdf
2. NexusWorx Phase 3 - Gerelcom Inc. Proposal.pdf

Distribution:

Kristin Daniels – Director, Office of Management and Budget  
 Jennifer Hyde – Manager, Purchasing Division  
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