

ECHO 24

Proposal #10669

For

City of Columbus
Attn: William F. Rogers

For

Police Precinct 12

July 19, 2011



Dear Bill,

Thank you for this opportunity to propose our fiber optic construction services. If you have any questions please do not hesitate to call me at 740-964-7081 ext. 2101.

Sincerely,

Anthony J. Gunter, RCDD
President

Proposed Services

Fiber Optic Construction: Echo 24 shall install a 12 strand fiber optic cable from Police Precinct 12 to the 288 strand cable connecting the Police Property Room to the Health Department in accordance with the following:

- Beginning at the manhole in front of 950 E. Main Street, we will saw-cut and trench a path approx. 50' to the telecom room in the front of the Police Precinct.
 - o Entry to the building shall below be the first set of windows to the left of the front doors. This is also behind the bus stop
- Core into the building foundation through the floor and also core into the manhole
- Place new 4" duct between the manhole and the building
- Backfill trench and restore street asphalt, curb, brick sidewalk, and concrete sidewalk in accordance with city code.
- Echo 24 understands that permits and inspection fees may be required in accessing the AT&T duct / manhole system. It is understood that all fees associated with this will be billed by AT&T directly to the City and therefore is not budgeted in this quotation.
- A new 12 strand singlemode fiber optic cable will be placed from the telecom room to the manhole.
- At the telecom room, all 12 strands shall be terminated by fusion splicing factory polished pigtails pigtails in Corning FBT-048 wall mount pad-lockable fiber termination closure with duplex SC coupler panels Corning LDC-CP1P-38.
- In the manhole we will cut into the existing 288 strand cable that goes from the Police Property Room to the Health Department (to be installed on a future date as part of a project already under contract) and splice 12 strands toward the Health Department.
 - o Splicing shall be done in an underground rated Preformed splice closure.
- All fiber optic strands shall be OTDR and Power Meter / Light Source tested upon completion. All fibers are to be OTDR tested with a launch cable of sufficient length to escape the OTDR's blind spot rendering the trace fully viewable from connector to connector. All Test results will be turned over to the City in an electronic format that will be viewable by the City without the use of special or additional equipment or software other than that delivered by the vendor.

| <i>UTC Item Description</i> | <i>Manuf</i> | <i>Part #</i> | <i>Unit</i> | <i>Qty</i> | <i>Unit Price</i> | <i>Ext Cost</i> |
|------------------------------------------------|--------------|---------------|-------------|------------|-------------------|-----------------|
| 6 pack SC coupler panel for wall mount closure | Corning | LDC-CP1P-38 | ea | 2 | \$32.67 | \$65.34 |
| Heat shrink splice boot | Corning | 2806031-01 | 50/Pkg | 1 | \$41.83 | \$41.83 |
| 36 fiber splice trays | PLP | 80805514 | ea | 8 | \$49.83 | \$398.64 |
| 48 port wall mount fiber termination closure | Corning | FBT-048 | ea | 1 | \$210.94 | \$210.94 |
| splice tray for wall mount LIU | Corning | M67-068 | ea | 2 | \$27.31 | \$54.62 |

167 Cypress Street Suite A Reynoldsburg, OH 43068
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ECHO 24

| Registered Installer | Echo 24 | Installation | Hour | 160 | \$42.00 | \$6,720.00 |
|---------------------------------------------------|--------------------|--------------------------------|-------------------|------------|-------------------|-----------------|
| Registered Technician | Echo 24 | Installation | Hour | 120 | \$47.00 | \$5,640.00 |
| Registered Foreman | Echo 24 | Installation | Hour | 90 | \$53.00 | \$4,770.00 |
| Certified RCDD | Echo 24 | Installation | Hour | 45 | \$92.00 | \$4,140.00 |
| <i>N/A UTC Item Description</i> | <i>Manuf</i> | <i>Part #</i> | <i>Unit</i> | <i>Qty</i> | <i>Unit Price</i> | <i>Ext Cost</i> |
| 12 strand aerial duct cable | Corning | 012EU4-T4101-D20 | Feet | 250 | \$0.54 | \$135.00 |
| Coyote 8.5" x 22" Splice closure | Preformed | 8006634 | ea | 1 | \$611.81 | \$611.81 |
| SC pigtails, color coded 12 pack w/ Corning glass | C Enterprises | XGREI40-6AW | Dozen | 1 | \$52.67 | \$52.67 |
| Pole Hardware | Any | Any | Lot | 1 | \$284.00 | \$284.00 |
| Steel strand 5/16 | Bekaert Corp | 5/16EHS-A-7W-5000-R-BAT | Feet | 600 | \$0.35 | \$210.00 |
| Directional boring | Precision Pipeline | City of Cols Compl#: 263290585 | Subcontract labor | 1 | \$15,828.00 | \$15,828.00 |
| Miscellaneous | | | | 1 | \$233.00 | \$233.00 |
| Total This Order | | | | | | \$39,395.85 |

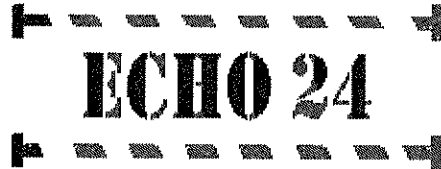
Proposal Terms and Acceptance

Acceptance: As an authorized agent of **City of Columbus**, your signature hereby authorizes Echo 24, Inc. to proceed with the services outlined in this proposal number **10669**. Further, by signing, you agree to all of the terms as outlined in the UTC contract.

Printed name _____ Signature _____ Date _____

PO#: _____

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Proposal #10674a

For

City of Columbus
Attn: William F. Rogers

For

Directional Boring
Broad St – Glenwood Ave

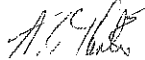
August 26, 2011

ECHO 24

Dear Bill,

Thank you for this opportunity to propose our fiber optic construction services. If you have any questions please do not hesitate to call me at 740-964-7081 ext. 2101.

Sincerely,



Anthony J. Gunter, RCDD
President

Proposed Services

Fiber Optic Construction: Install a duct system per the following:

Glenwood MH to Broad MH:

- Call OUPS and mobile to site.
- Set up traffic control.
- Excavate pit beside manhole on Glenwood Ave.
- Pothole gas, water, and telephone lines in Broad St.
- Excavate pit beside manhole on Broad St.
- Bore from Glenwood Ave. manhole to Broad St. manhole and pull back 4" duct.

Broad MH to Fire MH:

- Call Oups and mobile to site.
- Set up traffic control.
- Excavate second pit at Broad St manhole.
- Excavate pit next to old fire station.
- Bore from fire station pit to Broad St pit and pull back 4" duct.
- Excavate pit at existing manhole behind fire station.
- Bore from existing manhole to pit in front of fire station and pull back 4" duct.
- Set handhole in front of fire station.
- Tie in 4" to the 3 existing manholes.
- Backfill in the street with CDF and reasphalt per city specs.

| <i>N/A UTC Item Description</i> | <i>Manuf</i> | <i>Part #</i> | <i>Unit</i> | <i>Qty</i> | <i>Unit Price</i> | <i>Ext Cost</i> |
|----------------------------------------------|--------------------|--------------------------------|-------------------|------------|-------------------|-----------------|
| Directional boring - Glenwood MH to Broad MH | Precision Pipeline | City of Cols Compl#: 263290585 | Subcontract labor | 1 | \$17,595.00 | \$17,595.00 |
| Directional boring - Broad MH to Fire MH | Precision Pipeline | City of Cols Compl#: 263290585 | Subcontract labor | 1 | \$18,092.00 | \$18,092.00 |
| Total This Order | | | | | | \$35,687.00 |

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August 24, 2011 * Proposal 1XXX
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