



## ENGINEERING PARTNERSHIPS IN INFORMATION TECHNOLOGY

### “Enhancing economic development through infrastructure”

Why you should choose

**SPECTRUM** for FTTX

- **OSP Engineering**

Our objective is to help your current and future staff develop a set of construction plans and specifications for an FTTP design that will allow for an efficient, cost effective, and manageable project.

We will design a fiber optic data model using GIS-based Esri® and Enghouse products. By using your existing system maps and base maps, we can offer a superior product at an affordable price. Key advantages include:

- A recognized standard design process.
- Automatic generation of route trace reports, fiber splice diagrams, and 90% of the bill of materials and work units in RUS format.
- The ability to store all splice diagrams, test results, and customer information in a relational geodatabase.
- Accurately model end to end losses.
- Pinpointing fiber breaks resulting in faster outage management.

A detailed Design Criterion is developed for each project stating all construction, assignment and validation criteria to be used. General methods of installation and phased deployment strategies are established. A Preliminary Design including drawings, specifications, and bid documents for major equipment drawings is reviewed with you to ensure we are in agreement. After approval, a detailed design is produced which will be reviewed and mi-

nor revisions are incorporated into a final set of bid/construction documents.

A complete Bill of Materials available by map grid will be aggregated for each fiber service area. We can also use this information to track construction costs to budget and to manage field change order requests by the OSP contractor. We can assist you with materials delivery and marshalling and materials inspection.

### “Best in Class”

Selecting the “best in class” materials for a project requires attention to the details in the specifications. Open bidding forums, common on public projects, do not typically eliminate unqualified parties from submitting a bid or proposal. Tight standards and clearly stated eligibility requirements are the protection a client has against simply the “lowest” versus the “lowest and best”.

Qualifying and quantifying what meets the “best” requirement is vital to a successful project from a long-term vantage point. We view the **total cost of ownership** as the measure to establish tight specification standards. From there it becomes necessary to properly and thoroughly evaluate bidders based on those established criteria. The total cost of ownership begins with receipt of the contracted product and does not end until that device is retired at the end of its useful life.

In addition to stringent standards, Spectrum typically reviews hardware specifications to ensure that your standard stock items are included. This saves you from stocking various similar parts that offer no advantage and only raises operating costs.

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