



Spectrum
ENGINEERING CORPORATION

ENGINEERING PARTNERSHIPS IN INFORMATION TECHNOLOGY

“Enhancing economic development through infrastructure”

Why you should choose

SPECTRUM for FTTX

• **Project Management**

As a complement to our design services, we offer all of our telecommunication clients comprehensive Project Management services. You'll stay with one convenient point of contact, which helps reduce costs and streamline the decision-making process. And the Spectrum people who'll assist you? We're highly qualified professionals with years of experience. We understand that coordination is key to keeping your project on time and on budget — which is why we'll stick with you every step of the way, from contract execution to ribbon cutting.

Our complete list of Project Management services include:

- Contract Administration
- Aid in Executing the Construction Contract
- Scheduling Coordination
- Request for Proposal (Contractor RFP) Administration

We will manage your project including weekly meetings with your staff — monitoring progress, required inputs, responsibilities, staffing requirements, and addressing issues. Each project is reviewed for completeness and accuracy at regular intervals.

A detailed project schedule will be developed for every stage of the project.

We have had extensive experience in the development of bid packages for OSP construction firms as well as equipment RFP's, which can include construction drawings, specifications, detailed materials specifications and quantities.


We can help you develop a contractors' bid list, distribute the bid packages, and be your point of contact during the bid process for inquiries. If you wish, we can manage the bid opening and will assist you in the analysis of the bids. We are also available to preside or assist at the pre-construction meeting to kick off your project.

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Auburn, IN 46706

Contact Rod Sibery
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Project Management Experience

Customer Name	CTS TELECOM, INC. GALESBURG, MI		
	EXECUTIVE Jim Burnham, President (269) 746-2500 jburnham@ctstelecom.com	PROJECT MANAGEMENT Bob Bender, Data Product Mgr (269) 746-3265 rbender@ctstelecom.com	 community based – worldwide
Customer Type	Telco		
Contract Start/ Finish	Several projects - 5/2008 – Present		
Project Size	\$257k		
Scope	<ul style="list-style-type: none"> • DTV Signal Strategy • Fiber and Services Model for the Complete CTS Network • OSP Document Mapping • Engineering Planning and Grant Writing • OSP Design and Construction Inspection 		
Role	<ul style="list-style-type: none"> • Establish Mitigation Strategy to Transition CTS Cable to DTV • Provide Fiber and Services Model • Data Conversion • Fiber Design 		
Project Stage	Ongoing		

Established in 1911, CTS Telecom, Inc. operates a 450MHz cable plant in south-central Michigan as the Incumbent Local Exchange Carrier (ILEC). Unable to generate enough business to operate profitably, the local cable TV provider exited the market. CTS purchased the cable system as a service to the community to ensure video service would be offered to the citizens and continues to operate the system today. In 2008, CTS approached Spectrum to assist them with the DTV transition.

Spectrum assisted CTS with a Cost of Service study in 2008 which resulted in a Fiber and Services Model. Spectrum also assisted CTS staff with defining, developing, and documenting Fiber Plant Records for their complete network and continues to assist with that documentation.

In 2009, Spectrum coordinated the collection of information and wrote a Rural Utility Service grant application for CTS in accordance with the American Recovery and Reinvestment Act (ARRA) of 2009. CTS was awarded a loan/grant and looked to Spectrum to assist them with administering the RUS contracts through the contractor bidding process.

CTS has developed this project to connect the rural Climax and Scotts communities to the municipal, public safety, education, medical and business communities of metropolitan Battle Creek and Kalamazoo, MI, via a Fiber to the Home (FTTH) network including 781 homes and 51 businesses. The construction will consist of 83.85 miles of buried and 11.49 miles of underground fiber optic line installation utilizing boring technology in the existing utility right of way. Project construction commenced in the Summer of 2011.

Spectrum was responsible for Project Management, OSP design and Construction Inspection, including the following:

- Field walkout data collection
- FTTP design specifications
- Engineered bill of material estimate
- Engineered cost estimate for labor and materials
- Assistance with permit applications
- Assistance with bidding and award