



ELECTRICAL SYSTEM PLANNING

DESIGNED TO HELP YOUR COMMUNITY SUCCEED

“Enhancing economic development through infrastructure”

Why you should choose **SPECTRUM** for ...

• **Line Design**

Over the years we've applied our line design expertise to helping a number of communities improve the efficiency of their electrical energy distribution.

Our line design capabilities and services include, but are not limited to...

- developing construction standards and drawings in accordance with NESC and RUS
- preparing Preliminary Design Phase documents (outlining line design specifications and drawings)
- preparing Final Design Phase drawings, including those for civil/structural analysis and review
- using PLS CADD for all transmission and sub-transmission design



- designing steel structures and foundations, if needed, at strategic locations
- coordinating system load and switching requirements during line construction/load transfer
- developing specifications for the purchase of major equipment, including poles (both steel and wood), insulators, wire, cable, and switches
- issuing major equipment specifications for long-lead items such as switchgear and transformers
- developing construction specifications
- preparing the construction bid package and participating in the construction pre-bid meeting
- assisting with vendor selection
- supporting the Construction Phase with onsite project inspection and technical site reviews
- witnessing factory acceptance tests of major equipment
- providing complete testing, commission, and training
- preparing Post-construction Phase “For Record” documents

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