



The construction, design, and regulatory challenges of interconnection and transmission system expansion need to be successfully navigated to bring reliable power to end users. From pre-permitting assistance through final transmission line design and construction, RMT's team permits, designs, and constructs both distribution-level collection and high-voltage transmission lines.

Transmission Line Services

RMT's design and general contractor experience creates a continuity of services that expedites the schedule, reduces project costs, and results in a quality end-product.

Construction and Installation

We have built hundreds of miles of transmission lines ranging from 34.5 kV to 345 kV across the U.S. Our constructability/construction services include:

- Material procurement and quality control of vendors
- Real-time field-directed design changes and optimization
- Right-of-way surveying and clearing
- Access road construction
- Site grading
- Communication systems installation
- Substation, switchyard, and transmission interconnection installation
- Transmission line construction
- Operations and maintenance building installation
- Helicopter-assisted line installation

Engineering and Design

We provide complete engineering and design of transmission lines and support structures. This includes transmission routing and design, structure spotting, and substation siting and grading plans. We use industry-standard transmission line design and engineering software with powerful line-visualization capabilities. Our engineering and design services include:

- Site plans and route alignment incorporating environmental requirements
- Facility layout, access roads/routes, and site grading plans
- Surface water drainage plans and storm water management
- Geotechnical investigations
- Project developer support for permitting and landowner/easement requests
- Wetland mitigation (design, construction, and monitoring)
- Detailed design criteria documentation
- Engineering of transmission lines and foundations, including plan and profiles, structure staking tables, sag and tension tables, and structure and hardware assembly design detail drawings
- Conductor size selections and line loss determinations
- Determination and assessment of line sag, blowout, and thermal ratings
- Design and analysis of support structures in various conductor and OPGW/OHSW configurations
- Redesign, when needed, including upgrading conductors and assessing changes to existing structures
- Interconnection expertise and negotiation assistance

TRANSMISSION LINE DESIGN & CONSTRUCTION



Route Selection and Planning

Pre-permitting services include those tasks necessary to determine routes and station locations suitable for development. Our route selection and planning services include:

- Preliminary structure placement, feasibility assessments, right-of-way considerations, blowout evaluations, transmission line current-carrying capacity, and cost-benefit analyses
- Due diligence assessment of economic exposures regarding environmental conditions, potential land use/community impacts, compliance issues, and permitting considerations
- Community and governmental relations
- Mapping with GIS, including land ownership, terrain, and existing utility infrastructure
- Landowner relations, including GIS-integrated land lease tracking and landowner contacts

Application/Permitting

Application/permitting activities typically start once a project route has been determined and funded. Our team has a broad range of experience to provide the necessary evaluations and investigations required for transmission facilities. Our permitting services include federal, state, and local permits and approvals, such as:

- NEPA, CEQA, and other state equivalents
- Environmental Assessments (EAs) and Environmental Impact Statements (EISs)
- Wetland evaluations and delineations
- Biological services
- Cultural resources, including tribal, historical, archaeological and paleontological
- Habitat restoration
- Air quality and noise
- Community affairs
- Land use planning
- Mitigation development implementation and monitoring
- Transportation
- Due diligence assessment of economic exposures regarding environmental conditions, potential land use/community impacts, compliance issues, and permitting considerations
- Community and governmental relations
- Mapping with GIS, including land ownership, terrain, and existing utility infrastructure
- Landowner relations, including GIS-integrated land lease tracking and landowner contacts

Engineering services may be provided by one of RMT, Inc.'s subsidiaries or affiliates: RMT, Inc., Michigan or RMT North Carolina, Inc.