TRANSWEST EXPRESS LLC

Structures Under Consideration

for the TransWest Express Transmission Project

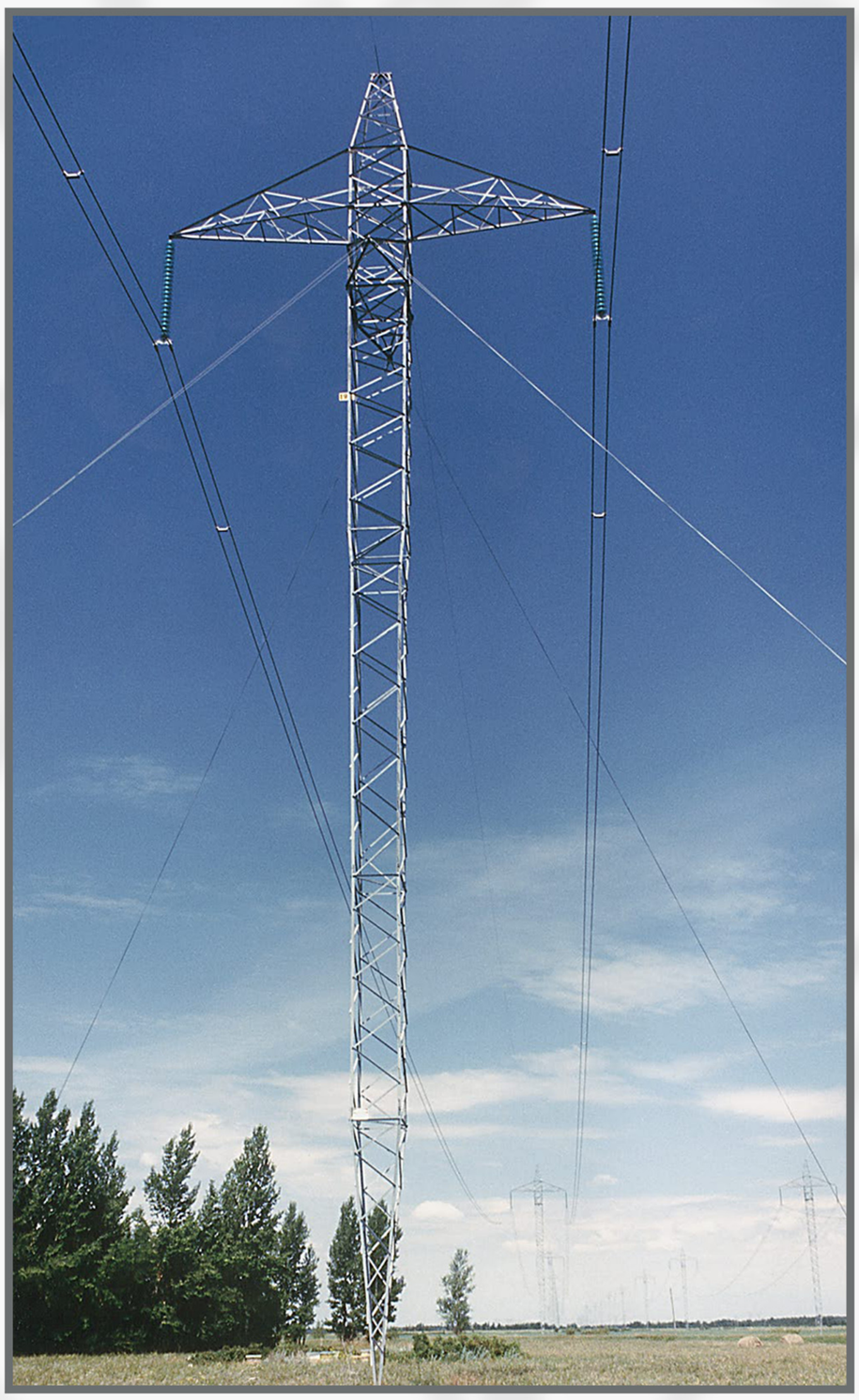


Photo credit: Manitoba Hydro

Conceptual design

This direct current high-voltage transmission line is designed to carry as much power as possible to minimize land use needed while increasing the capacity, stability and reliability of the western power grid.

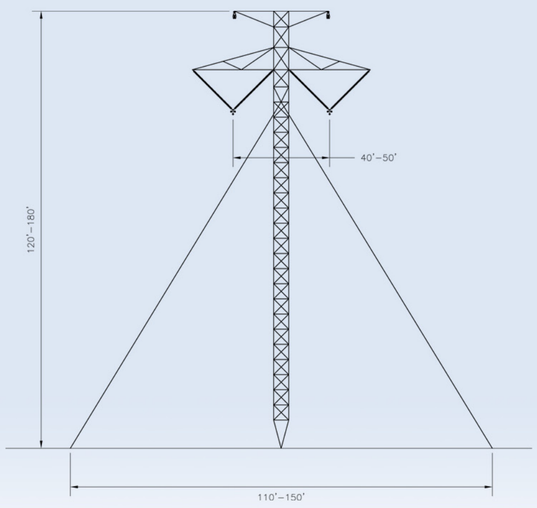
Structure heights: 100-180 feet

Span between structures: 900-1,500 feet

Transmission line right-of-way width: typically 250 feet

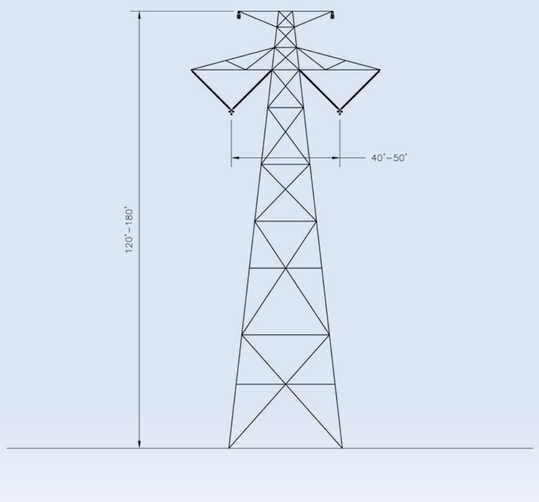
Access road width: typically 14-20 feet

Guyed V-String Structure



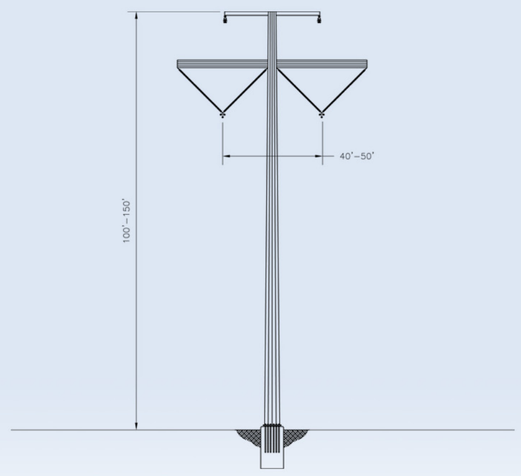
- Uses least steel
- Requires least foundations
- Allows long span lengths

Self-Supporting V-String Structure



- Uses more steel than guyed
- Requires larger foundations
- Allows long span lengths

Tubular V-String Structure



- Uses most steel due to solid design
- Requires most concrete for foundations
- Supports shorter span lengths

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