



Delaware – Wes Del 138-kV Line Rebuild

Indiana Michigan Power chose **BOLD®** for this challenging project because of the low-profile characteristics of the BOLD® structures.

The existing double-circuit line is adjacent to the Delaware County Airport located in Muncie, Indiana. Due to the proximity of the line to the runways, FAA-mandated allowable structure heights were a considerable design constraint.

The compact phase spacing and low-profile design of the BOLD® structure proved to be the optimal design when compared to more traditional davit arm and H-frame designs. Utilizing BOLD® structures increased span lengths and allowed for fewer structures without the need to acquire additional easements, and while remaining compliant with the FAA structure height limitations.



Delaware – Wes Del Project

Benefits of BOLD®



Increased Span lengths where structure height is limited due to FAA restrictions or other limitations



Decreased need for easement acquisition vs. traditional low profile structure types

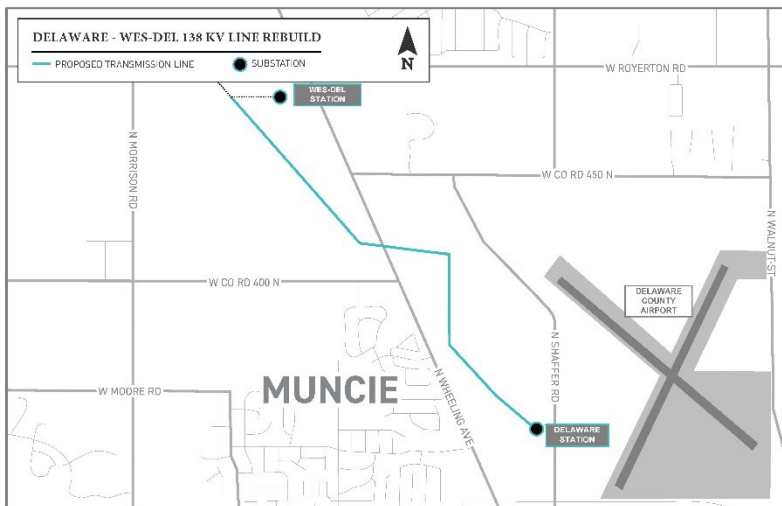
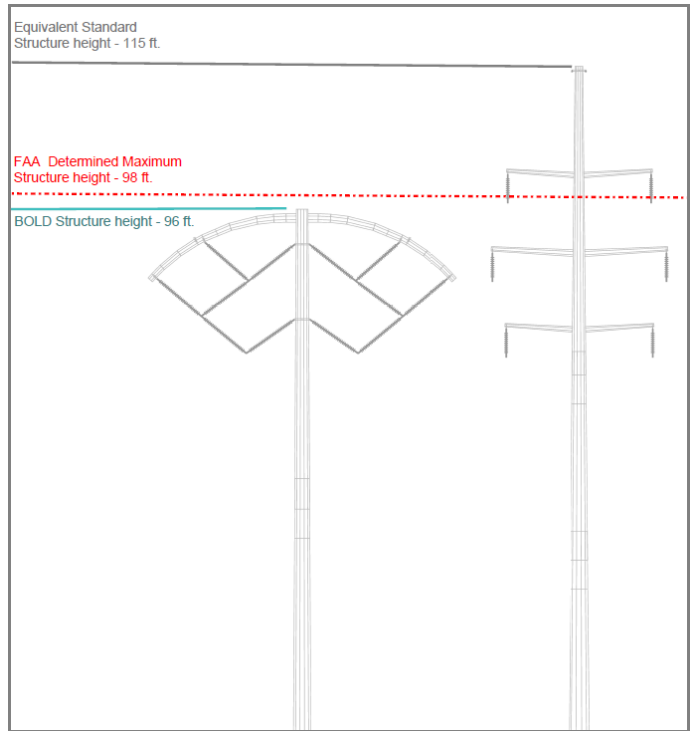
**BOLD®**

The Challenge:

In 2018, Indiana Michigan Power determined a need to rebuild the existing Delaware - Deer Creek double-circuit line, based on the age and condition of the line. FAA-mandated height restrictions, due to a nearby airport, posed a significant design challenge using traditional structures.

The company considered tubular steel Davit Arm and H-Frame structures for the rebuild, but determined that those structure types would result in the need for additional structures and easement acquisitions, with increased impacts on landowners, when compared to BOLD® monopole structures.

In projects where height restrictions are a design constraint, the low-profile design of BOLD monopole structures provides a significant advantage over traditional structure types.



Project Snapshot:

Construction Start: Fall 2019

Energized: Winter 2019

Miles: 2.2

Voltage: 138-kV Double-Circuit

Structures: 16

Route: Residential, Rural

BOLD® is the Breakthrough Overhead Line Design that combines a lower height, aesthetic structure with a compact line design to deliver a number of performance benefits. Learn more at boldtransmission.com.

