



CENTRAL MAINE POWER

Projects

10-01-2024

SECTION 1

34.5 kV TRANSMISSION LINE REBUILD PROJECT

Planning Board Review City of Augusta

Existing Conditions



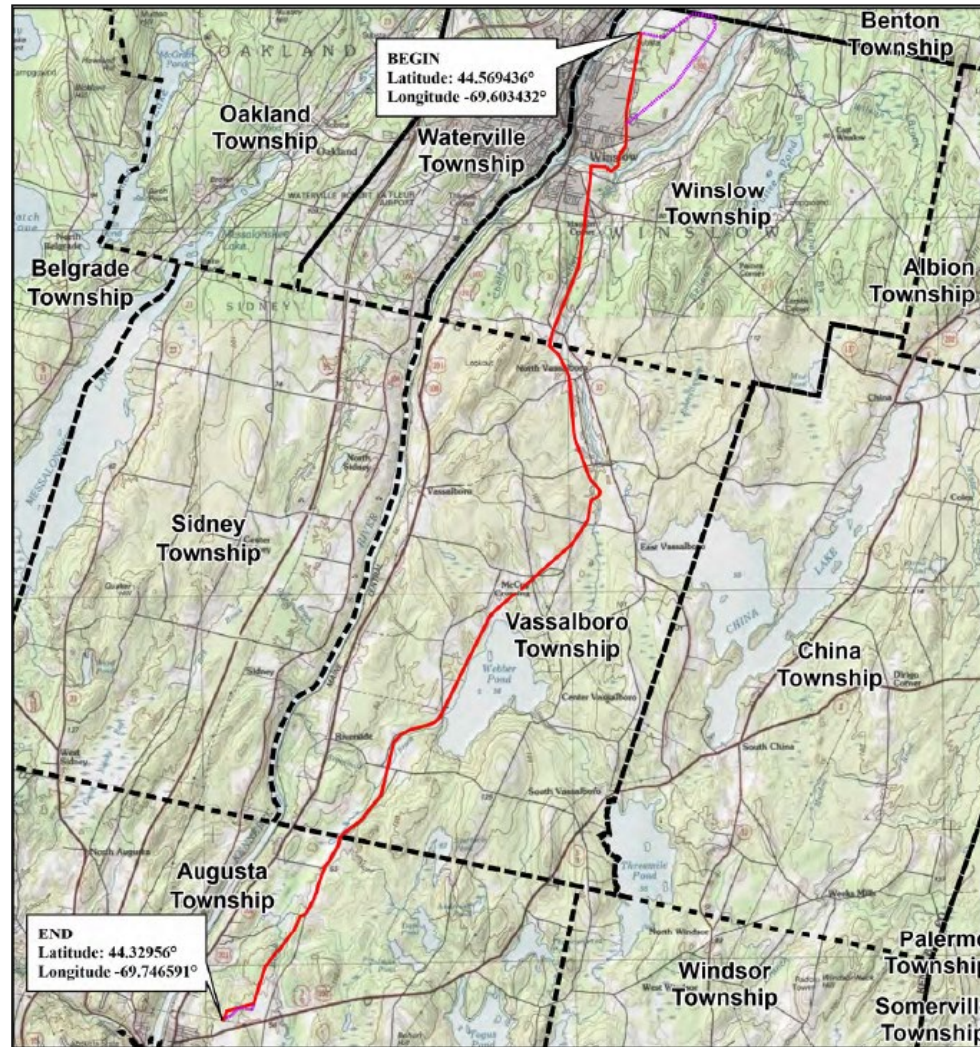
- Section 1 is an existing 34.5-kilovolt transmission line that stretches from Augusta East Substation to Winslow Substation (22.8 miles long).
- The existing line is a single pole structure configuration.
- The existing line was built in 1920.
- Line in poor condition due to sub-standard ratings on poles, age of the conductors, limited work area clearances, and insulators prone to failure.
- Significant structural and reliability concerns, requiring replacement with updated poles, cross arms and conductor.

Project Need

- The current line needs replacement to mitigate reliability, safety, and structural concerns.
- Replacement will improve reliability and reduce grid strain.



Existing Location



Project Scope

- Replacement line will be built within the existing right(s)-of-way (ROW). Replacement poles installed approximately 5 to 10 feet from existing locations.
- New, slightly taller steel monopoles will be installed.
- Wooden poles to be installed at roadside locations.
- Re-route section in Augusta will remove 0.6 miles of existing line.
- Re-route line next to Section 272 within an existing ROW corridor.
- Approximately 3 acres of tree trimming, required within the re-route section to create clearances required for the new line.



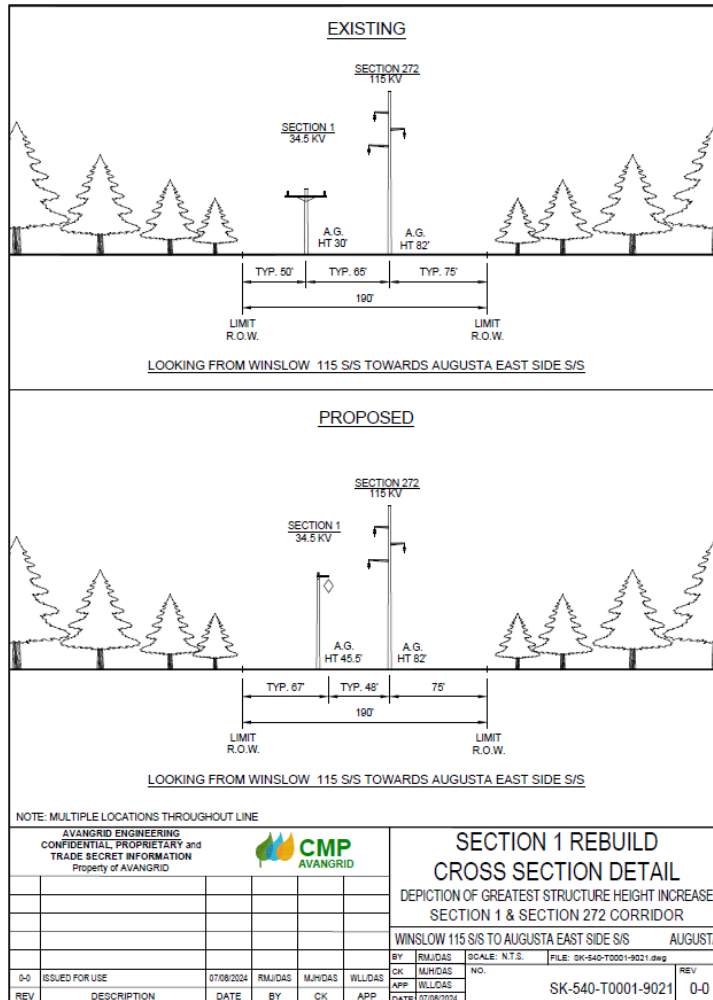
Project Scope

12 existing poles located in wetlands

- Poles in wetlands will be replaced within 5 to 10 feet of existing
- Old poles will be removed, cut at ground level with buried portion of pole remaining in ground.
- Light duty steel poles will be installed to replace existing wooden poles in all wetlands
- No additional or new poles will be installed in wetlands



Project Planning and Schedule



- Engineering is complete and procurement now underway.
- Wetlands, streams, and vernal pools were delineated and mapped within the existing ROW and proposed re-route.
- A cultural resource Phase 1 archaeological survey has been completed.
- Construction mobilization is anticipated in Q1 2025. Matting installation and tree removal anticipated to start November 2024
- Project completion (including final restoration) anticipated Q1/Q2 2026.

Resource Impact Avoidance and Minimization

- The project was designed (including access) to avoid and minimize natural resource impacts to the extent practicable.
- Natural Resources were mapped and assessed, and this information was provided to Engineering to prepare a final design to avoid and minimize impacts to wetlands, shoreland areas, and floodplains.
- No in-stream work will be performed on this project.
- 3 poles located in Resource Protection Zone.
- 11 Poles in Southern Re-Route.
- 2.4 square feet of permanent impact (fill) for each new pole installation.
- Authorization from Maine DEP has been received under the Natural Resources Protection Act.
- Authorization from the U.S. Army Corps of Engineers is anticipated in October or November 2024.