Moncure 115kV Sub Cambium Pole Special Use Permit

Chatham County

23-4888

AUGUST 21, 2023



Special Use Standards

- 1) The use requested is among those listed as an eligible special use in the district in which the subject property is located or is to be located.
- 2) The requested special use permit is either essential or desirable for the public convenience or welfare.
- 3) The requested permit will not impair the integrity or character of the surrounding or adjoining areas, and will not be detrimental to the health, safety, welfare or environment of the community.
- 4) The requested permit will be consistent with the objectives of the Land Use Plan.
- 5) Adequate utilities, access roads, storm drainage, recreation, open space, and other necessary facilities have been or are being provided consistent with the County's plans, policies and regulations.



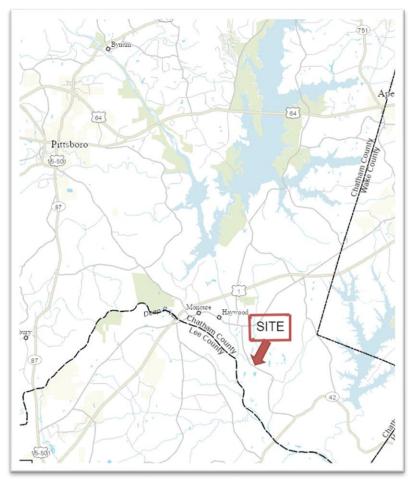
What is a Cambium Pole & Why is it Necessary?



- The Proposed Cambium Pole is a 120' tall monopole and wireless network device that will be installed as part of Duke Energy's communication network to securely transmit data to and from substations.
- It provides high-speed data connection and operates by "line of sight" to other cambium poles (so height is necessary).
- Currently, information is being monitored over a leased copper T-1 circuit. This is outdated technology, and the lease is expiring.
- This project will enhance Duke Energy's ability to supply power efficiently and safely throughout the region and improve outage recovery times during storms with new smart technology.

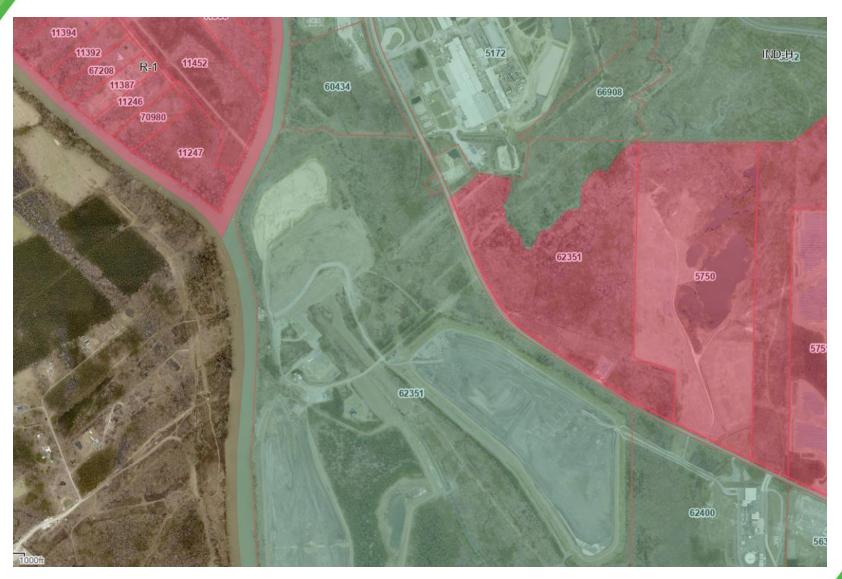


Location & Aerial Map

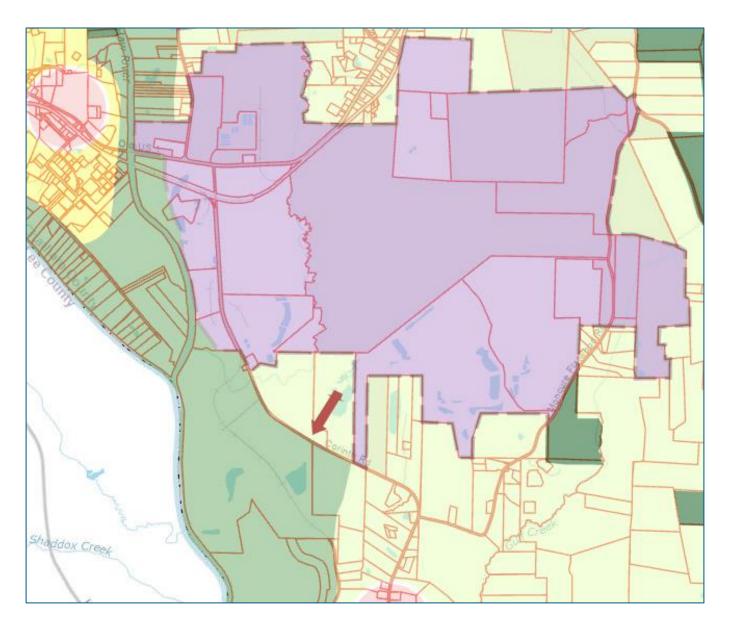




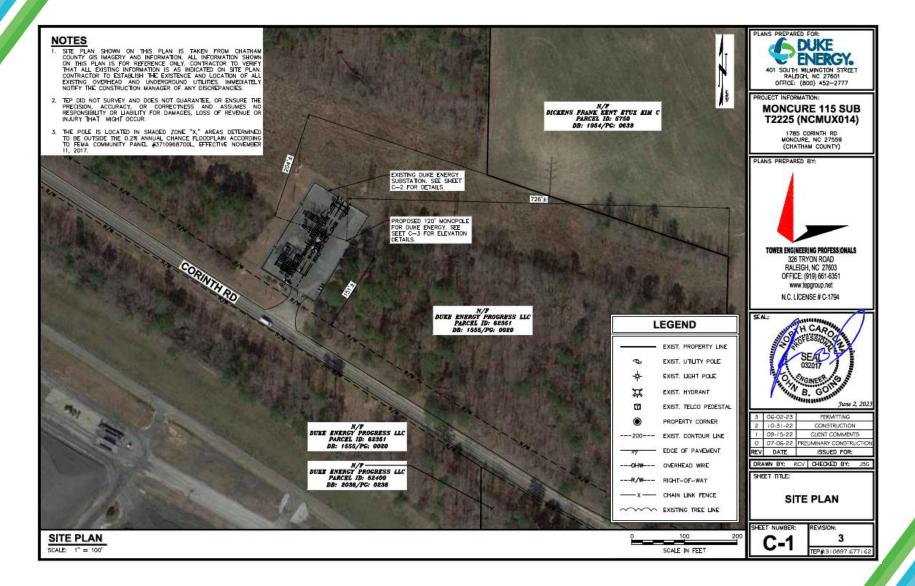
Current Zoning



Future Land Use and Conservation Plan



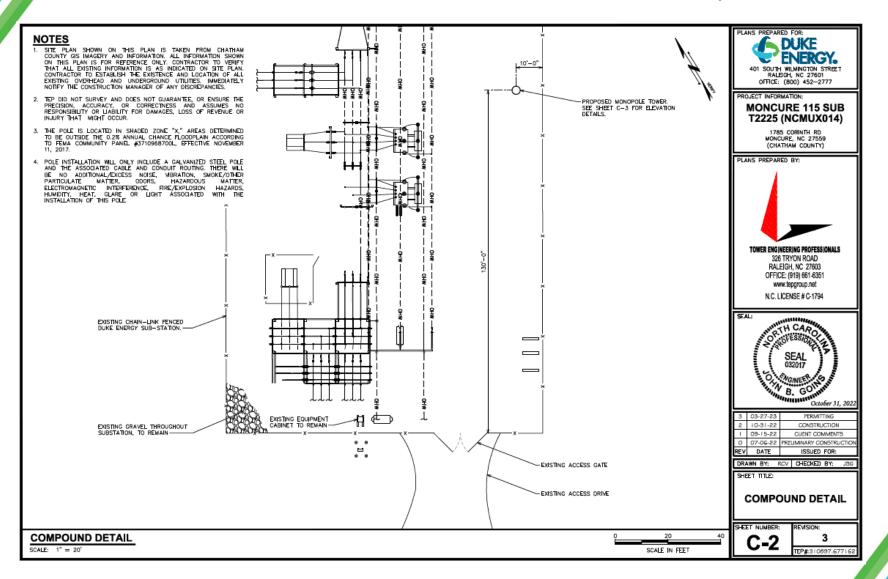
Site Plan & Pole Design



Site Plan & Pole Design



Compound Detail



Questions?

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