

Falcon 138 kV Substation and Transmission Line Project

To support growth in your area, Entergy Texas, Inc. has launched a project designed to bring additional power to our customers and growing communities. The project consists of a new 138 kV single pole/double-circuit transmission line that will connect from either Entergy Texas' existing Jacinto to Splendor 138 kV transmission line (L-871) or the Splendor to Apollo 138 kV transmission line (L-571) in Montgomery and Liberty Counties. The new transmission line will follow a path until it reaches the new Falcon distribution substation. The Falcon substation is planned to be located east of the intersection of Farm-to-Market Roads 1010 and 2090 in Liberty County. The new transmission line could be approximately four to seven miles in length and follow a path through Montgomery and/or Liberty Counties until it reaches the new Falcon distribution substation, depending on the route ultimately approved by the Public Utility Commission of Texas (PUCT). The work will support and enable economic growth in Southeast Texas as well as enhance reliability for our existing and future customers.



What is the purpose and need of the project?

The primary purpose of the project is to meet the area's growing power demands in Liberty County spurred by residential and business development. To accomplish this, a new distribution substation, to be called "Falcon substation", is needed to provide the additional capacity and distribution feeder delivery system to integrate into the existing distribution system in the area. The location of the Falcon substation is determined by the existing distribution system and available suitable property.

The proposed project will require the following scopes of work:

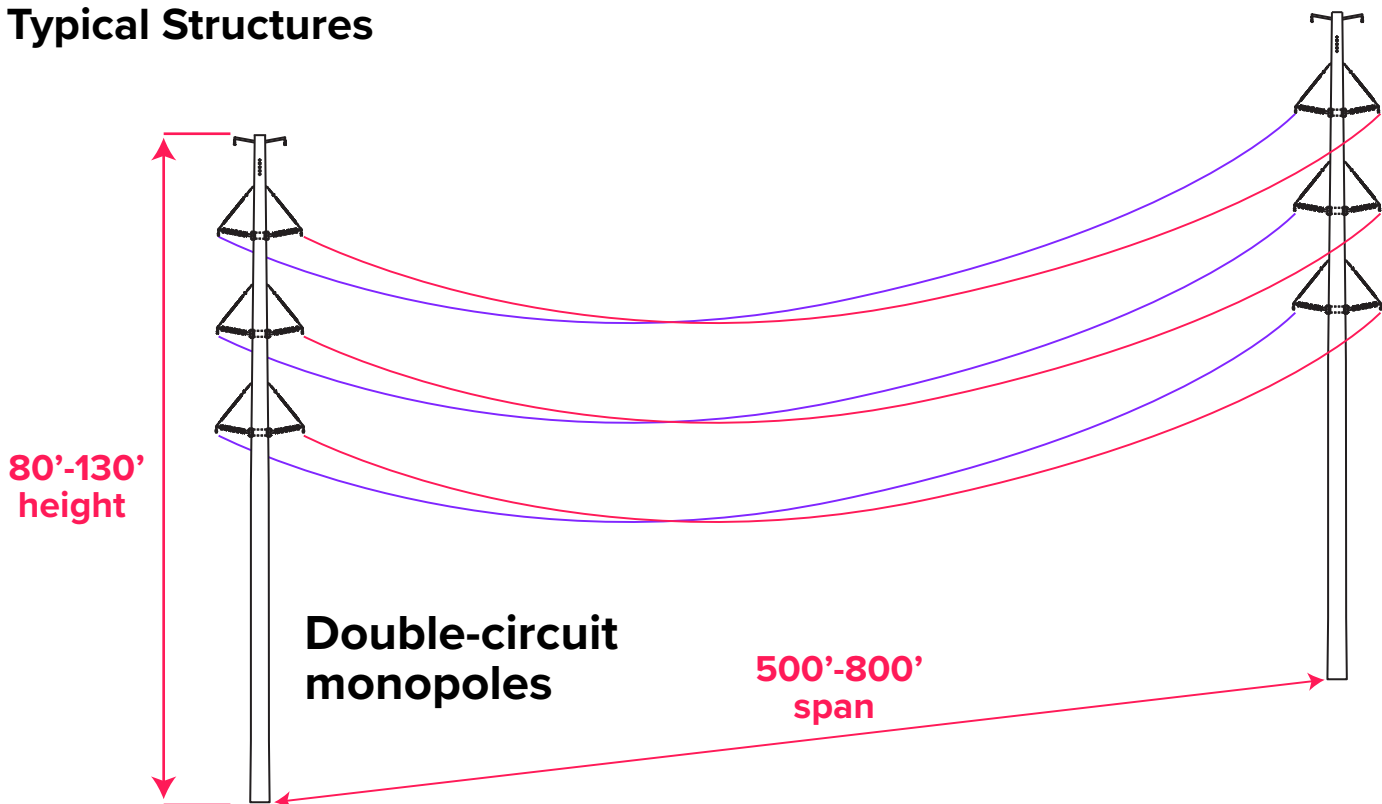
1) Design and build the new Falcon 138 kV / 13.8 kV substation:

The Falcon substation will be new construction on property acquired by ETI. A 138 kV substation is required to facilitate the installation of the proposed new 138 kV line as well as the new distribution feeders that will provide power to the area's homes and businesses.

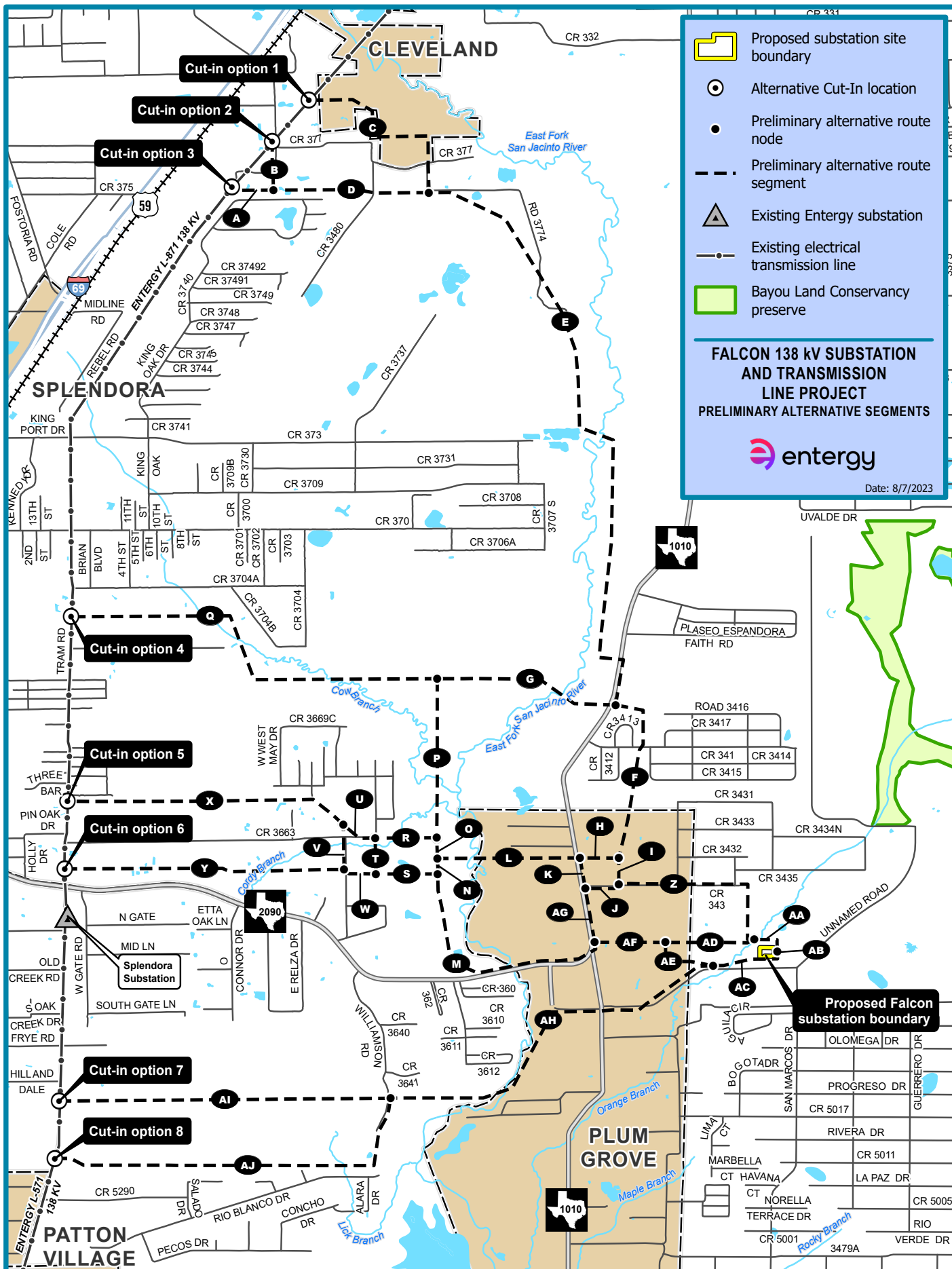
2) Design and build the new Falcon 138 kV transmission loop (L-487):

The connecting transmission line will be a new single-pole, double-circuit 138 kV transmission line that would "cut-in" and extend ETI's existing L-871 or L-571 transmission line and connect into the Falcon substation. ETI intends for the cut-in along L-871 or L-571 to be located between ETI's existing Jacinto and Apollo substations.

Typical Structures



All routes and route segments included in this notice are available for selection and approval by the Public Utility Commission of Texas (PUCT)



If approved, only one route (consisting of multiple route segments) from the Falcon Substation to a "Cut-in" option will be selected by the PUCT.
For a more detailed map, please see the project website: entergy-texas.com/transmission/falcon

Falcon substation and transmission line project evaluation criteria

Land use

- 01 Length of alternative route
- 02 Number of habitable structures¹ within 300 feet of the route centerline
- 03 Length of route utilizing existing electric facility ROW (transmission)
- 04 Length of route utilizing existing electric facility ROW² (distribution)
- 05 Length of route parallel and adjacent to existing electric facility ROW (transmission)
- 06 Length of route parallel and adjacent to existing electric facility ROW (distribution)
- 07 Length of route parallel and adjacent to other existing compatible ROW (roads, highways, railway, or telephone utility ROW, etc.)
- 08 Length of route parallel and adjacent to apparent property lines³ (or other natural or cultural features)
- 09 Sum of evaluation criteria 3, 4, 5, 6, 7 and 8
- 10 Percent of evaluation criteria 3, 4, 5, 6, 7 and 8
- 11 Length of route parallel to pipeline ROW
- 12 Length of route across parks/recreational areas⁴
- 13 Number of additional parks/recreational areas⁴ within 1,000 feet of the route centerline
- 14 Length of route across cropland
- 15 Length of route across pasture/rangeland (includes open fields)
- 16 Length of route across land irrigated by traveling systems (rolling or pivot type)
- 17 Length of route across gravel pits, mines, or quarries
- 18 Number of pipeline crossings
- 19 Number of electric transmission line crossings
- 20 Number of Interstate (IH), US Highway (US Hwy), and State highway (SH) crossings
- 21 Number of Farm-to-Market (FM) or Ranch-to-Market (RM) road crossings
- 22 Number of private use airstrips within 10,000 feet of the route centerline
- 23 Number of heliports within 5,000 feet of the route centerline
- 24 Number of FAA registered airports⁵ (runways >3,200 feet) within 20,000 feet of the route centerline
- 25 Number of FAA registered airports⁵ (runways <3,200 feet) within 10,000 feet of the route centerline
- 26 Number of commercial Amplitude Modulation (AM) radio transmitters within 10,000 feet of the route centerline
- 27 Number of FM radio transmitters, microwave towers, etc. within 2,000 feet of the route centerline
- 28 Number of existing water wells within 200 feet of the route centerline
- 29 Number of oil and gas wells within 200 feet of the route centerline

Aesthetics

- 30 Estimated length of route within foreground visual zone⁶ of US, Interstate, and State highways
- 31 Estimated length of route within foreground visual zone⁶ of FM/RM roads
- 32 Estimated length of route within foreground visual zone⁶ of parks/recreational areas⁴

Ecology

- 33 Length of route across bottomland/riparian woodlands
- 34 Length of route across upland forest
- 35 Acreage of route across NWI mapped forested or scrub/shrub wetlands
- 36 Acreage of route across NWI mapped emergent wetlands
- 37 Length of route across known critical habitat of federally-listed threatened or endangered species
- 38 Length of route across known occupied red-cockaded woodpecker cluster habitat
- 39 Length of route across open water (lakes, ponds, etc.)
- 40 Number of stream/river crossings
- 41 Length of route parallel (within 100 feet) to natural streams or rivers
- 42 Length of route across FEMA mapped 100-year floodplains

Cultural resources

- 43 Number of cemeteries within 1,000 feet of the route centerline
- 44 Number of recorded historic or archaeological resources crossed by route
- 45 Number of additional recorded historic or archaeological resources within 1,000 feet of route centerline
- 46 Number of resources determined eligible for or listed on the National Register of Historic Places crossed by route
- 47 Number of additional resources determined eligible for or listed on the National Register of Historic Places within 1,000 feet of route centerline
- 48 Length of route across high archaeological/historical site potential

¹ Single-family and multi-family dwellings, and related structures, etc., mobile homes, apartment buildings, commercial structures, industrial structures, business structures, churches, hospitals, nursing homes, schools or other structures normally inhabited by humans or intended to be inhabited by humans on a daily or regular basis within 300 feet of the centerline of a transmission project of 230 kV or less.

² Includes instances of proposed under/overbuilding existing distribution lines and may require the expansion of the existing distribution ROW utilized.

³ Apparent Property lines created by existing roads, highway, or railroad ROW are not "double-counted" in the length of route parallel to apparent property lines criteria.

⁴ Defined as parks and recreational areas owned by a governmental body or an organized group, club, or church within 1,000 feet of the centerline of the project.

⁵ As listed in the Chart Supplement South Central U.S. (FAA 2023b formerly known as the Airport/Facility Directory South Central U.S.), FAA 2023a.

⁶ One-half mile, unobstructed. Lengths of ROW within the foreground visual zone of Interstates, US and state highway criteria are not "double-counted" in the length of ROW within the foreground visual zone of FM roads criteria.

⁷ One-half mile, unobstructed. Lengths of ROW within the foreground visual zone of parks/recreational areas may overlap with the total length of ROW within the foreground visual zone of interstates, US and state highway criteria and/or with the total length of ROW within the foreground visual zone of FM roads criteria.