



# Welcome

Southline to Jacinto 138 kV Transmission Line Project



# Purpose and need

## Southline to Jacinto 138 kV Transmission Line Project

### What is the Southline to Jacinto 138 kV Transmission Line Project?

The Southline to Jacinto 138 kV Transmission Line Project (Project) consist of a new 138 kV single pole/single-circuit transmission line that will connect to the existing Entergy Texas, Inc. (ETI) Jacinto Substation to the existing Southline Substation. The existing Southline Substation is located approximately two miles northwest of the intersection of United States Highway (US) 59 and State Highway 105. The existing Jacinto Substation is located approximately two miles north-northeast of the intersection of US 59 and Farm-to-Market Road 2025. The new transmission line could be approximately 6 to 10 miles in length and follow a path through Liberty and San Jacinto Counties, depending on the route ultimately approved by the Public Utility Commission of Texas (PUCT).

### What is the purpose and need of the Southline to Jacinto 138 kV Transmission Line Project?

The primary purpose of the Project is to prevent contingent low voltage and thermal overloads as well as benefit load serving capability in Liberty and San Jacinto counties driven by commercial and residential growth in the area. To accomplish this, a new transmission line, to be called “Southline to Jacinto”, is needed to provide electric service to support the load growth in the area.

### The proposed project will require the following scopes of work:

**(1) Design and build the new Southline to Jacinto 138 kV Transmission:** The connecting transmission line will be a new single pole, single-circuit 138 kV transmission line that would connect from the existing Southline Substation to the existing Jacinto Substation.

# Certification process

## Southline to Jacinto 138 kV Transmission Line Project

### Project development

- Identify project study area.
- Gather environmental and cultural data.
- Contact federal, state and local agencies.
- Identify routing constraints.
- Develop preliminary alternative route segments.
- Identify current landowners within 300 ft of alternative routes.
- Solicit public input via open house meetings. **(We Are Here)**
- Evaluate preliminary alternative routes and identify primary alternative routes.

### Certificate of convenience and necessity (CCN) application process

- Submit CCN Application to the Public Utility Commission of Texas (PUCT), including an adequate number of alternative routes.
- Send notices to landowners within 300 ft. of an alternative route, municipalities, counties, electric utilities, Department of Defense, and pipeline owners in the area.
- All routes and route segments included in this notice are available for selection and approval by the Public Utility Commission of Texas. If approved, only one route (consisting of multiple route segments) from southline substation to jacinto substation site will be selected by the PUCT.
- Interested parties may file comments or a motion to intervene and participate in the PUCT proceeding (Intervention Period – 30 days)
  - If application is uncontested: application approved administratively in 80 days.
  - If application is contested: application processed within 180 days and could include a hearing.

### PUCT decision and next steps

- Approves or denies application.
- If approved, selects location of final approved route.
- Approval provides Entergy Texas, Inc. with the authorization to build the new transmission line along the route approved by the PUCT.
- Notices will be sent to landowners who received notice of Entergy Texas, Inc.'s application advising them of the decision and next steps.

# Right-of-way (ROW) acquisition process

## Southline to Jacinto 138 kV Transmission Line Project



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# Right-of-way (ROW) clearing

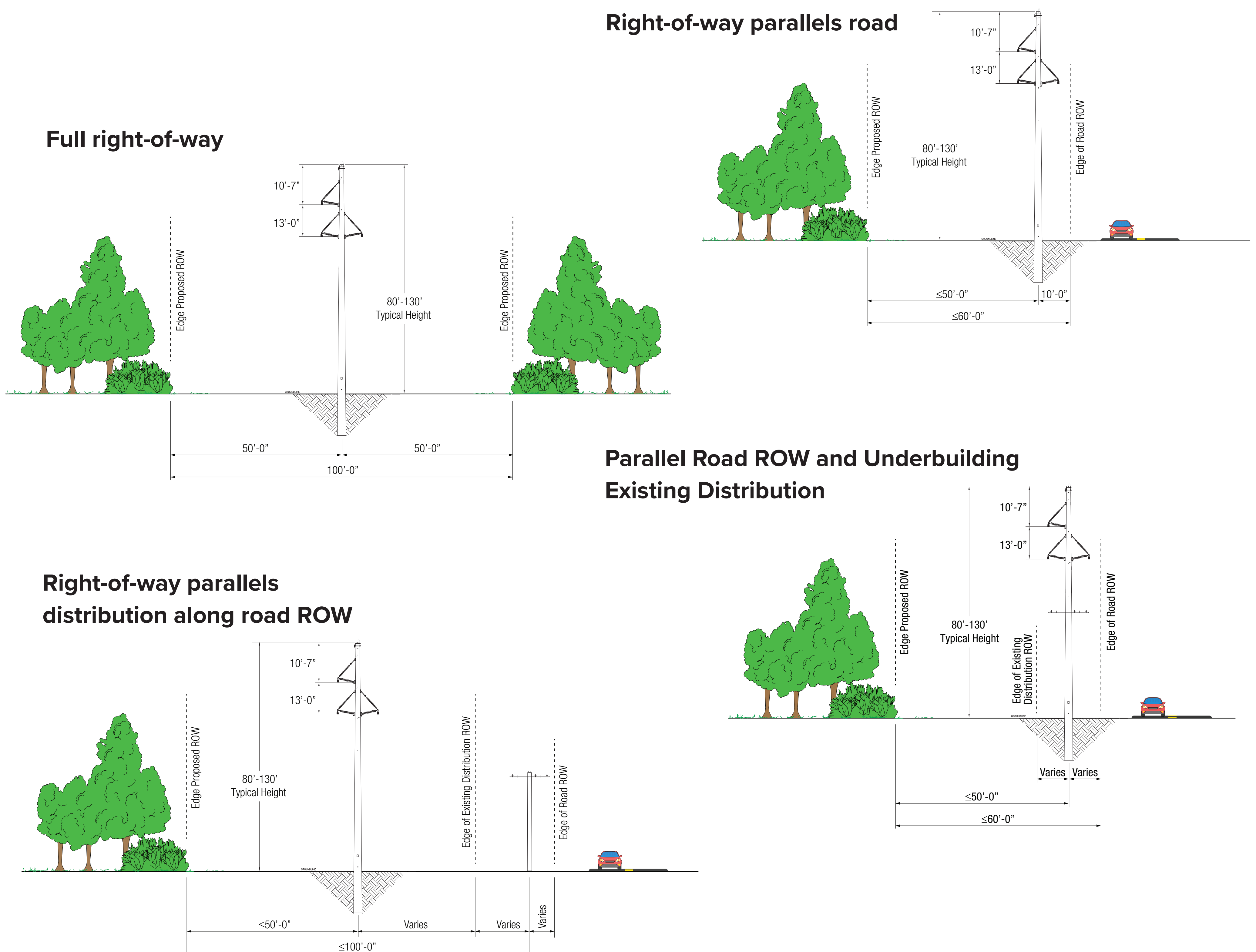
## Southline to Jacinto 138 kV Transmission Line Project

### About right-of-way clearing

- Trees and branches near or touching power lines can cause service interruptions.
- Electricity can arc or “flashover” from wires to nearby trees before actual contact is made, causing electric current to flow through the trees into the ground.
- To ensure everyone’s safety, Texas, like most states, has adopted the National Electrical Safety Code.
- The code establishes mandatory clearances to be maintained around power lines.

### Typical cross sections

Dimensions may vary depending on location and spatial constraints.



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# Typical structure

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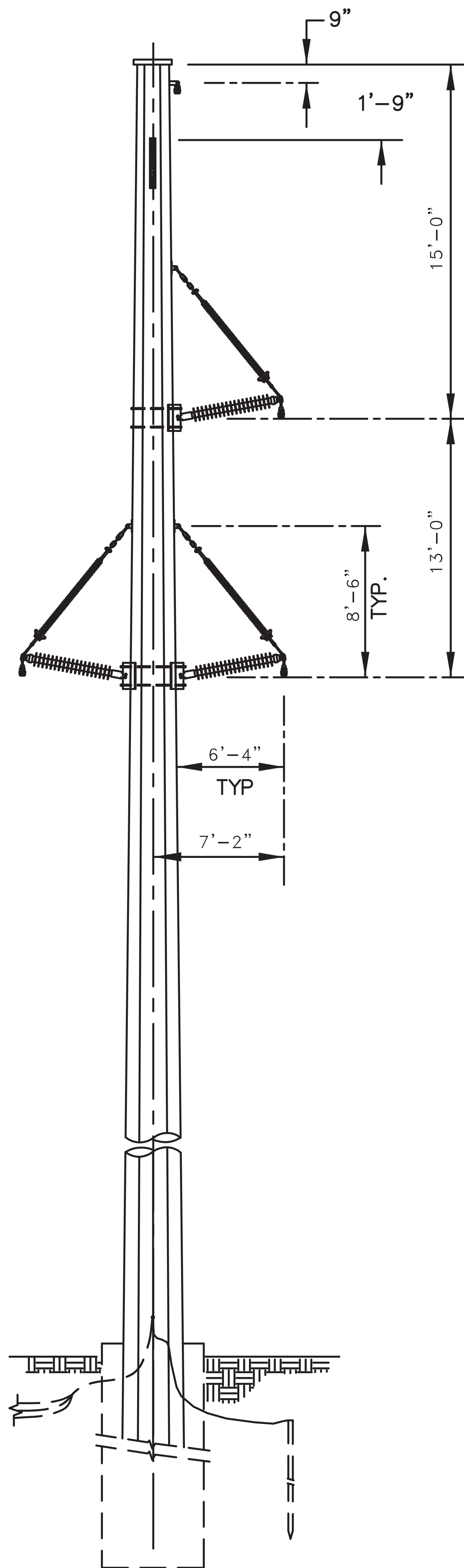
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# Typical structure

## Southline to Jacinto 138 kV Transmission Line Project

### Typical 138kV delta structure



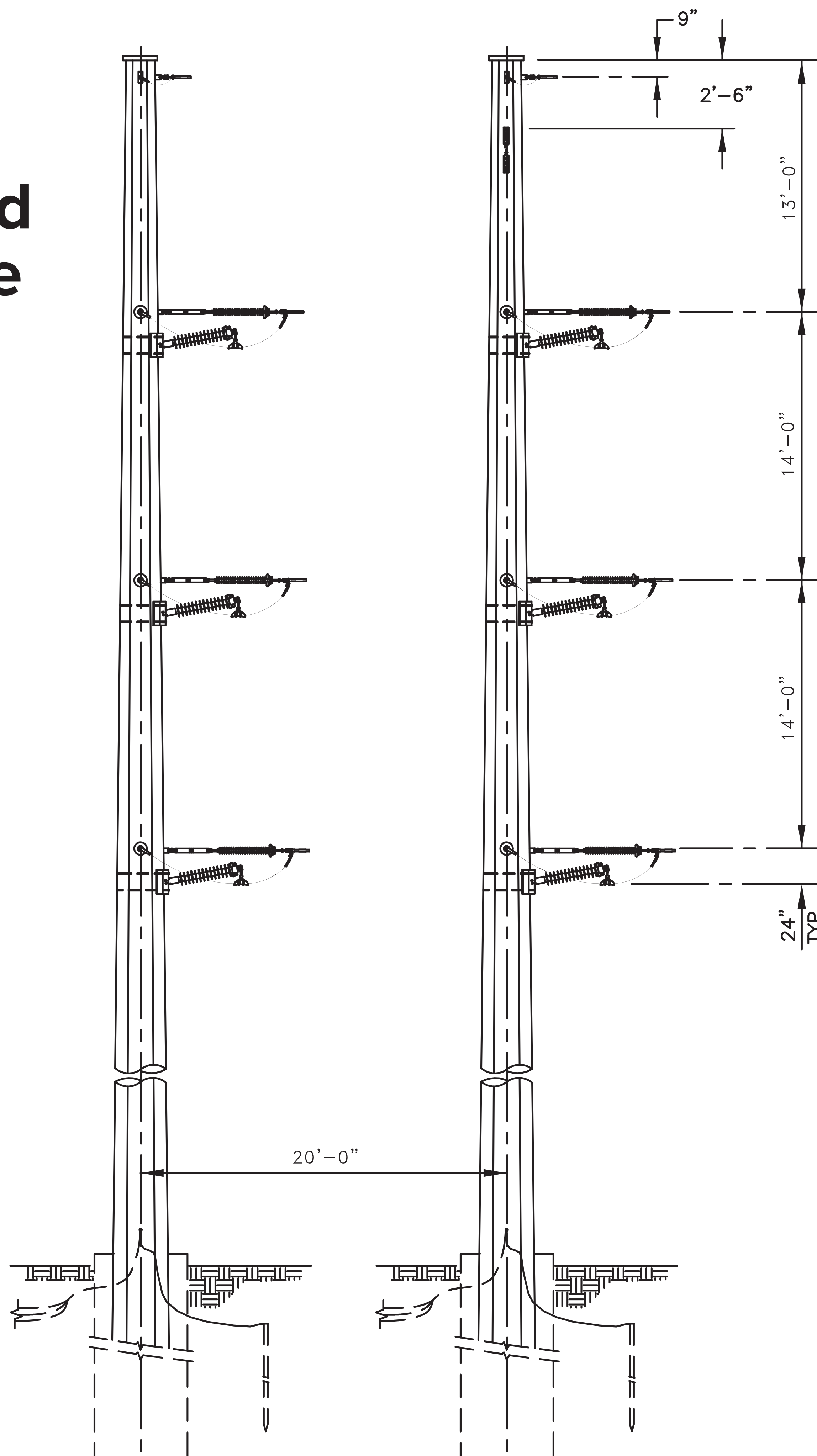
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# Typical structure

## Southline to Jacinto 138 kV Transmission Line Project

### Typical 138kV dead end structure



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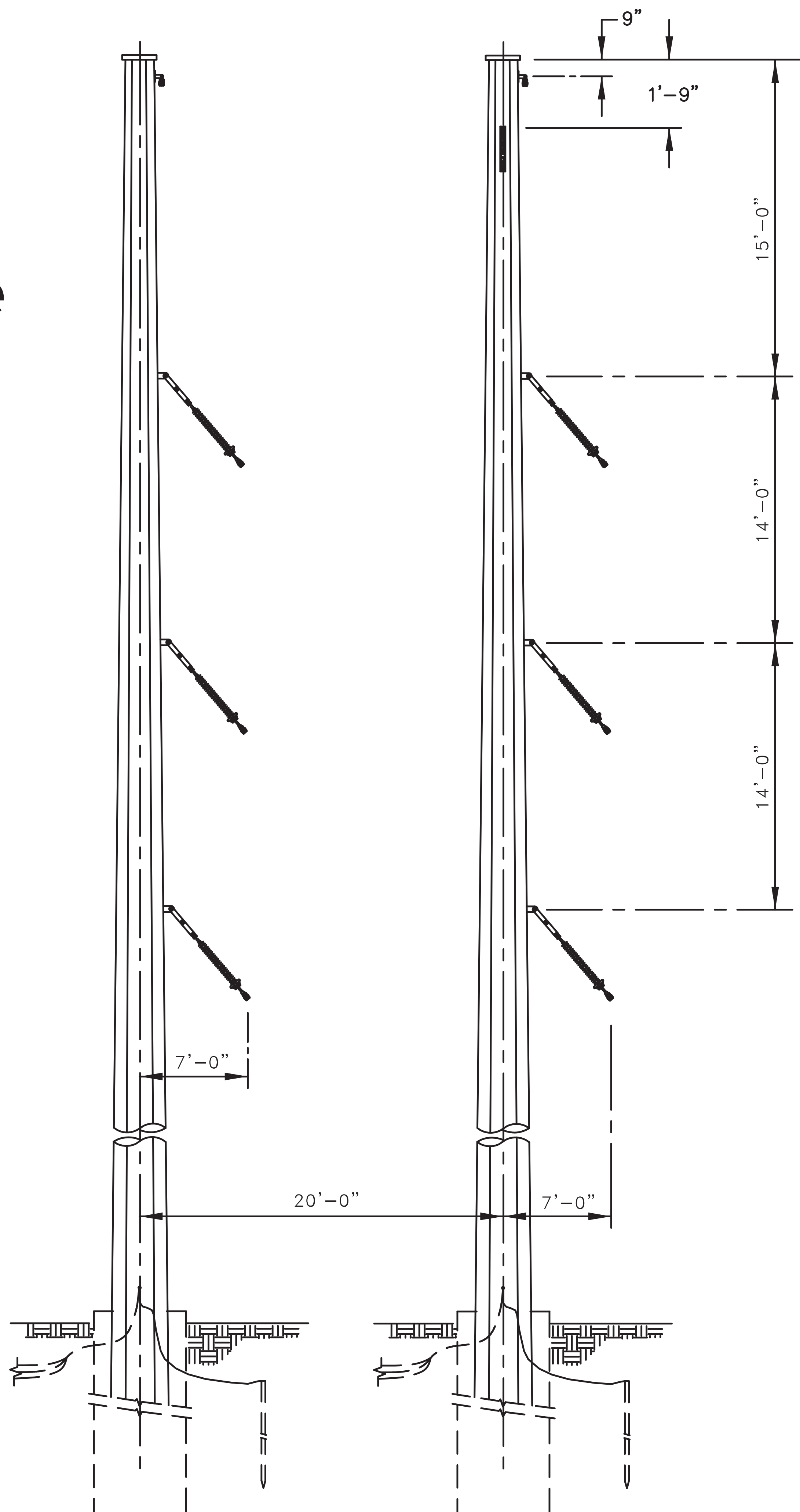




# Typical structure

## Southline to Jacinto 138 kV Transmission Line Project

### Typical 138kV angle structure



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# Typical substation

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# Agencies contacted

## Southline to Jacinto 138 kV Transmission Line Project

### Federal

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Federal Aviation Administration  
Federal Emergency Management Agency  
National Parks Service  
Natural Resource Conservation Service  
U.S. Army Corps of Engineers  
Military Aviation and Installation Assurance Siting Clearinghouse  
U.S. Environmental Protection Agency  
U.S. Forest Service

### State

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Railroad Commission of Texas  
Texas Commission on Environmental Quality  
Texas Department of Transportation

- Department of Aviation
- Environmental Affairs Division
- Transportation Planning & Programming
- Beaumont and Lufkin District Engineers

Texas General Land Office  
Texas Parks and Wildlife Department  
Texas Water Development Board  
Texas Historical Commission

### Local

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Liberty and San Jacinto County Judge  
Liberty and San Jacinto County Commissioners  
Liberty County Permitting and Inspection Department  
San Jacinto County Special Utility District  
City of Cleveland Officials  
Liberty and San Jacinto County Historical Commission Chair  
Superintendents of Cleveland ISD

### Non-Governmental Organizations

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San Jacinto River Authority  
Houston-Galveston Area Council  
Texas Agricultural Land Trust  
Texas Land Conservancy  
Texas Land Trust Council  
The Nature Conservancy, Texas  
Bayou Land Conservancy  
Houston Audubon Society

# Evaluation criteria

## Southline to Jacinto 138 kV Transmission Line Project

### Land Use

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- 01 Length of alternative route
- 02 Number of habitable structures<sup>1</sup> within 300 feet of the route centerline
- 03 Length of route utilizing existing electric facility right-of-way<sup>2</sup> (ROW) (distribution)
- 04 Length of route parallel to existing electric facility ROW (distribution)
- 05 Length of route utilizing existing electric facility ROW (transmission)
- 06 Length of route parallel to existing electric facility ROW (transmission)
- 07 Length of route parallel to other existing compatible ROW (roads, highways, railway, or telephone utility ROW, etc.)
- 08 Length of route parallel to apparent property lines<sup>3</sup> (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 areas<sup>4</sup>
- 13 Number of additional parks/recreational areas<sup>4</sup> 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 airports<sup>5</sup> (runways >3,200 feet) within 20,000 feet of the route centerline
- 25 Number of FAA registered airports<sup>5</sup> (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

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- 30 Estimated length of route within foreground visual zone<sup>6</sup> of US, Interstate, and State highways
- 31 Estimated length of route within foreground visual zone<sup>6</sup> of FM/RM roads
- 32 Estimated length of route within foreground visual zone<sup>6</sup> of parks/recreational areas<sup>4</sup>

### Ecology

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- 33 Length of route across bottomland/riparian woodlands
- 34 Length of route across upland forest
- 35 Acreage of route across National Wetland Inventory (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

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- 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

### Notes

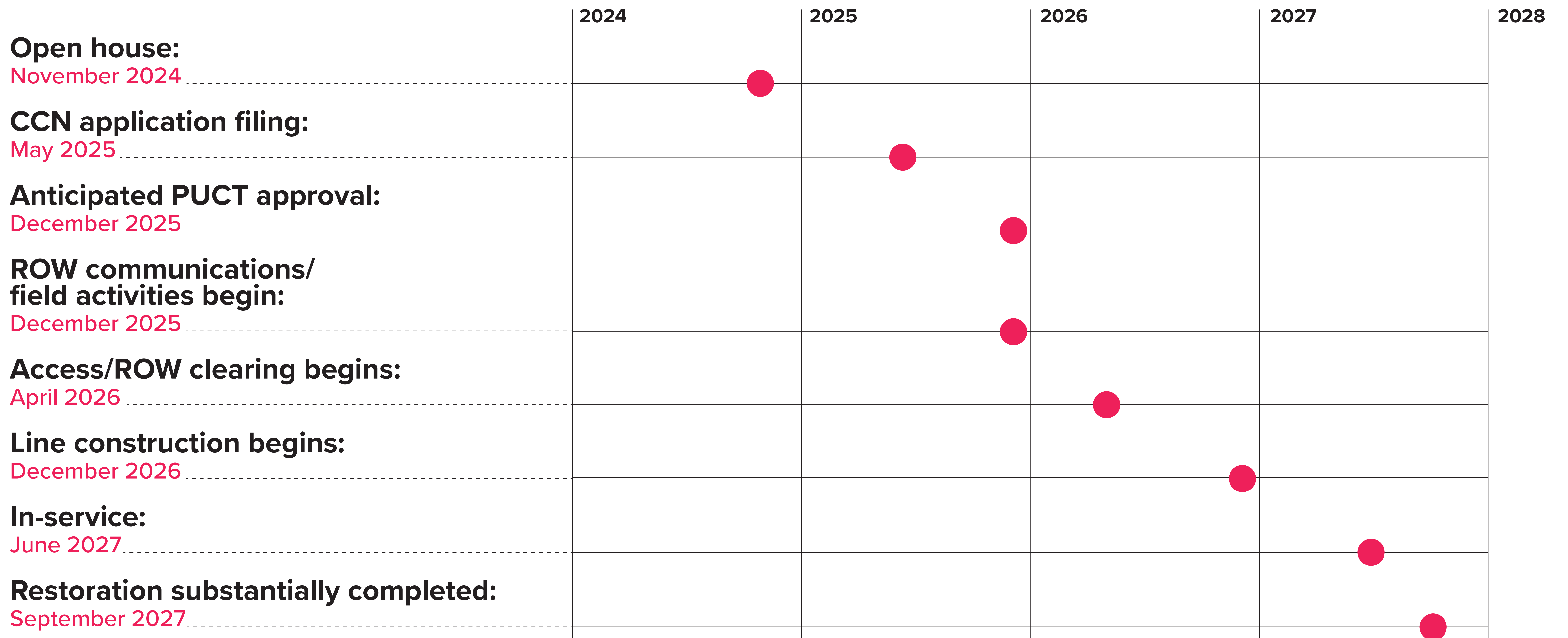
- 1 Single-family and multi-family dwellings, and related structures, etc., mobile homes, apartment buildings, commercial structures, industrial structures, business structures, churches, hospitals, nursing homes, schools or other structures normally inhabited by humans or intended to be inhabited by 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.

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# Project schedule

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Schedule is subject to change pending engineering and regulatory review.

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