

Substation or Switch Station Construction Sequence

Prior to a project going to construction, Brazos Electric will file a CCN application with the Public Utility Commission of Texas (PUCT). Once a route is ordered by the PUCT, Brazos Electric will then engage affected landowners in discussions regarding easements and land acquisition. Construction activities will begin once the easements have been finalized with individual landowners along the ordered route.

1



Survey & Land Acquisition

Survey the land to produce exhibits for land acquisition and develop a topographic model of site that is used by engineering to design the new substation or switch station pad. Prior to the surveying of properties, each directly affected landowner will be notified by an agent of Brazos Electric as part of the initial phase of land acquisition and/or easement acquisition. No construction activities will begin on any property that Brazos Electric has not acquired in the form of an exclusive easement or fee title purchase contract.

2



Site Preparation

Site preparation includes clearing and leveling the land, building access drives and building the new substation or switch station pad. If a SWPPP is required, it will be implemented at the site prior to the start of clearing. Heavy machinery, like bulldozers or motor graders, are used to cut and/or fill soil as needed to produce the required design elevations for the drives and substation or switch station pad.

3



Foundations & Underground Work

Heavy equipment will be used for excavating numerous holes and trenches across the substation or switch station site. Crews will install reinforcing steel and pour concrete foundations and will also install conduit and grounding conductors underground in trenches throughout the substation or switch station pad.

4



Control Building Installation

Once foundation has cured, the control house that contains the equipment used to operate the substation or switch station will be installed.

5



Structures & Electrical Equipment Installation

Once the control building is installed, steel structures will be erected and major equipment, such as transformers, breakers and switches will be installed.

6



Wiring & Surface Finishing

After installing steel structures and major equipment, control cables are installed and crushed rock otherwise known as top rock is placed for safety and drainage.

7



Testing & Energization

Once everything is installed and constructed, all the equipment is tested, and the substation or switch station is placed into service.