



RAINEY STREET SUBSTATION

Welcome



Repowering Downtown



Who is Austin Energy?

Mission: To safely deliver clean, affordable, reliable energy and excellent customer service.

City-Owned Utility

- Provides safe, reliable energy to 486,000 customers
- 8th largest publicly-owned utility in the U.S.
- Winner of *2018 Mayor's Climate Protection Awards* in recognition of Community Solar Program

Nationally Recognized as a Leader in Energy Innovation

- 40% renewable energy today; 65% by 2027
- U.S. Dept. of Energy partner on SHINES battery storage program
- Programs to reduce energy consumption and shift peak demand saved 110 million kilowatt-hours
- Award-winning demand response, energy efficiency, and electric vehicle programs
- Awarded 2018 Public Power Utility of the Year by Smart Electric Power Alliance

Operates Under Strict Regulatory Requirements

- Austin City Council
- Texas Commission on Environmental Quality (TCEQ)
- Public Utility Commission of Texas (PUC)
- Electric Reliability Council of Texas (ERCOT)
- North American Electric Reliability Corporation (NERC)
- Environmental Protection Agency (EPA)



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Schedule



Next Steps:

- Begin construction to relocate water and wastewater lines
- Finalize engineering and design of substation
- Obtain permits and update zoning for the site
- Construct substation



Community Engagement

June 2018 – Held public meeting and collected 178 surveys.

PREFERRED
THEMES:



Colorful/Artistic



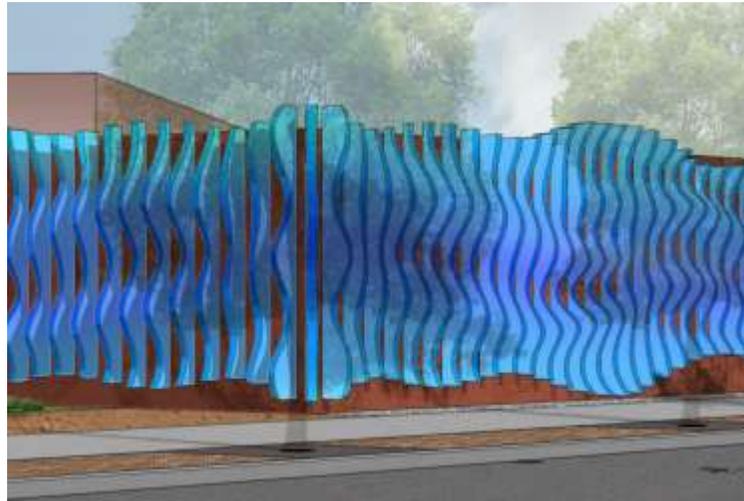
Nature-Based



Modern

February 2019 – Held public meeting and collected 440 surveys.

PREFERRED
DESIGN:



PREFERRED
NAME:

Rainey Street Substation



Rainey Street Substation Site

- Selected in 1999 for the future electric needs of downtown
- Austin Energy is coordinating with other involved agencies, including:
 - TxDOT
 - Watershed Protection for storm drain
 - Aim to incorporate City of Austin Great Streets criteria

Total Site: 1.46 acres

Substation Footprint: 0.81 acres

Site Updates:

- 3 transmission poles (currently 2) to allow clearance over heritage trees
- Two driveways



SITE PLAN - SUBJECT TO FINAL SITE APPROVAL



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Landscape Design

Considerations

- Preserve Heritage Oak Trees on site
- Native plants selected for drought tolerance and water conservation
- Follows Great Streets guidelines
- Compatible with Rainey Street Historic District
- Incorporate trees, benches, and bicycle parking

Dwarf Yaupon Holly



Turk's Cap



Rain Garden Example



Landscape Rendering



Eastern Gama Grass



Boulders



Native Plants



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Lighting and Streetscape Plan

- Follows the Great Streets lighting plan
- Streetlights will be installed on East Ave., Lambie St., and River St.
- Once site design is finalized, additional lighting will be incorporated on the site which may include reflected lights from the wall and bollard lights

1. Broom Finish Concrete



2. Benches



3. Bike Racks



7. Streetscape Materials



4. Cedar Elm



5. Street Light



6. Waste Receptacle



Site Design

Considerations

- GIS building height up to 30 feet tall
- Enclosure wall height approximately 10 to 12 feet tall
- Enclosure wall will include removable panels for future maintenance and will not be climbable
- Entrance gates will be integrated into the design of the wall
- Equipment located outside of the GIS building is required to remain open and uncovered for safety, accessibility, and operational reasons
- Materials need to be easily maintained and resistant to damage and graffiti



Site Rendering



View from I-35



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Site Rendering



View from I-35 and River St.



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Water/Wastewater Relocation – Construction

Existing water and wastewater lines must be relocated for construction of the Rainey Street Substation

Contractor: Facilities Rehabilitation, Inc.

Engineer: AECOM

Cost: Approx. \$600,000

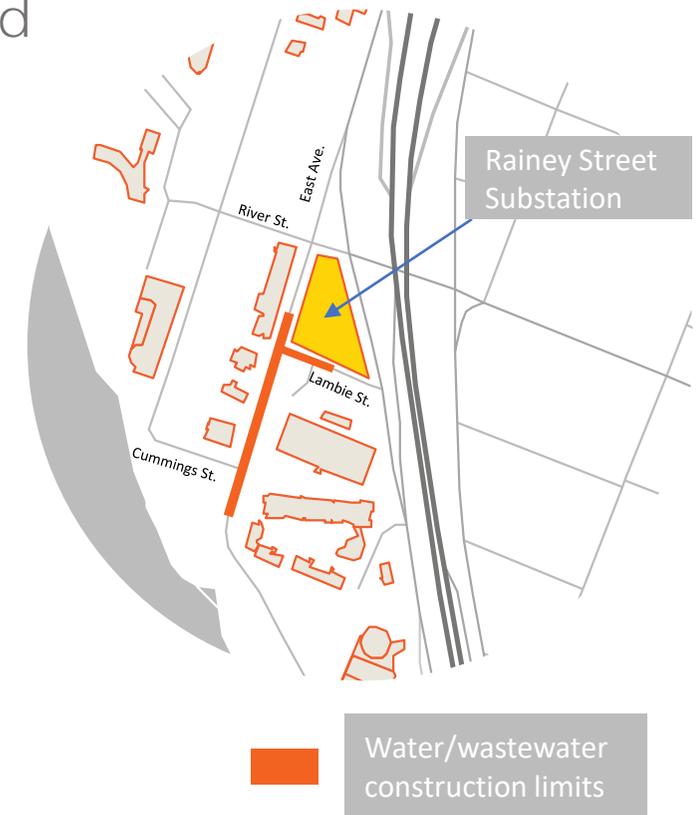
Start: October 2019

Timeline: Fall 2019 to Summer 2020

Work hours: 7 a.m. to 7 p.m. up to 7 days a week

General Information

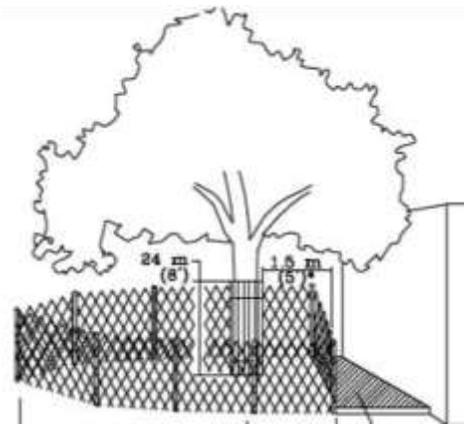
- Construction equipment will be stored in staging area on substation site
- Level of service and water pressure will be maintained
- Water service interruptions are not anticipated during primary relocation
- 48-hour minimum notice will be provided for water service interruptions during service tie-ins



Traffic Control

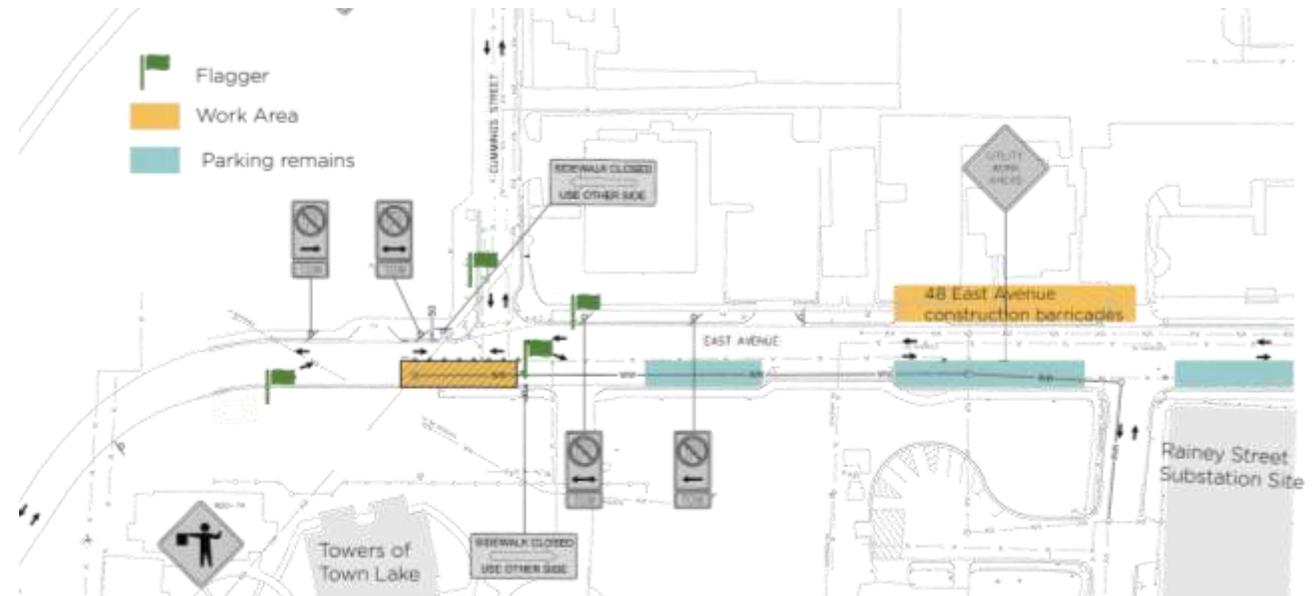
Please remember to use caution in work zones and always follow signage!

- Flaggers will be used in work zones where traffic is reduced to one lane
- To protect the trees, a boring is needed which will require some detours
- Traffic control plans will be coordinated with other construction activities in the area
- Parking will be limited within work zones



Tree protection and erosion control will be utilized

Traffic Control Plan Example



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