

# Recommended Site

#### CPS Energy Board of Trustees Presentation

October 29, 2012

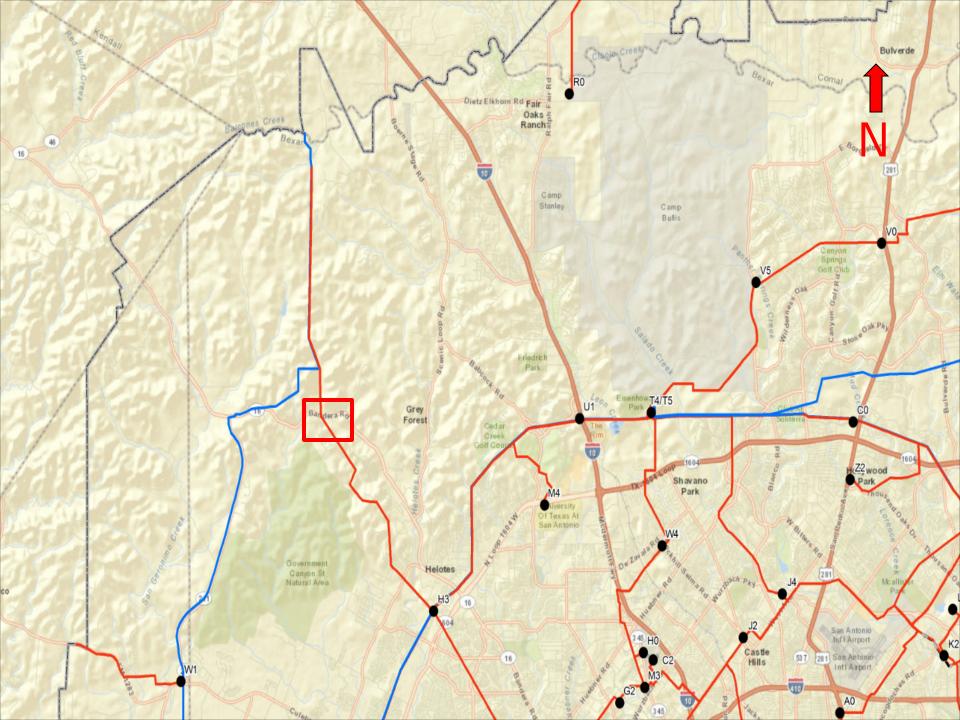
#### **David Luschen**

Director of Transmission and Substation Engineering





- Scope & Need for the Project
- Routing/Siting Process
- Site Evaluations
- Questions





#### **Scope of the Project**

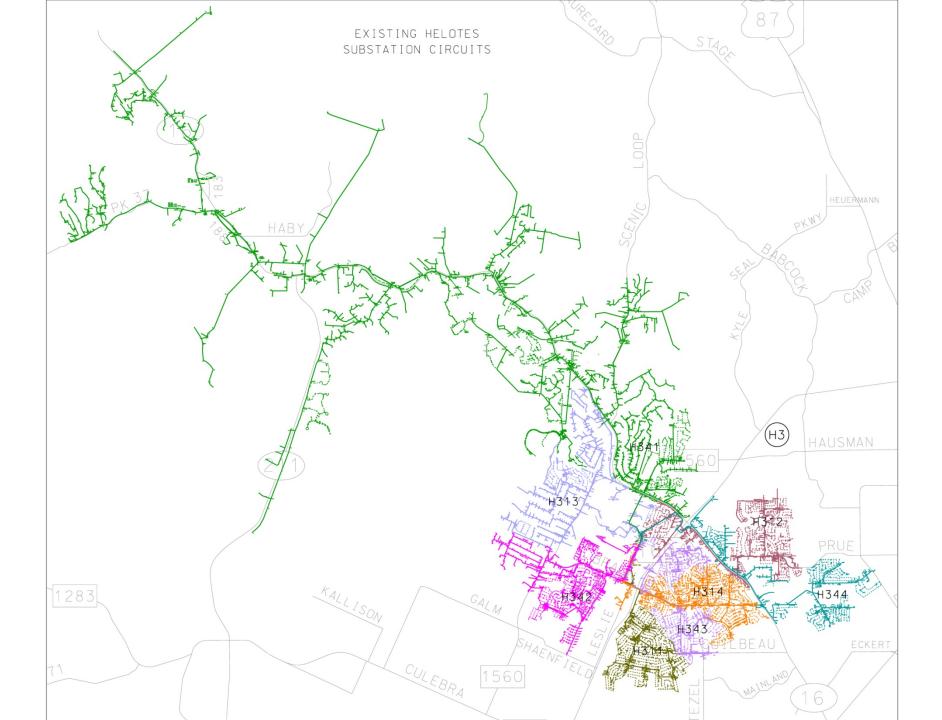
- Construct a new three unit substation with two 50 MVA transformers and one four-feeder switchgear.
- Construct a short transmission line to connect the new Ranchtown Station to the existing Helotes-Menger transmission line.
- Construct 3 new 35kV distribution circuits from the station

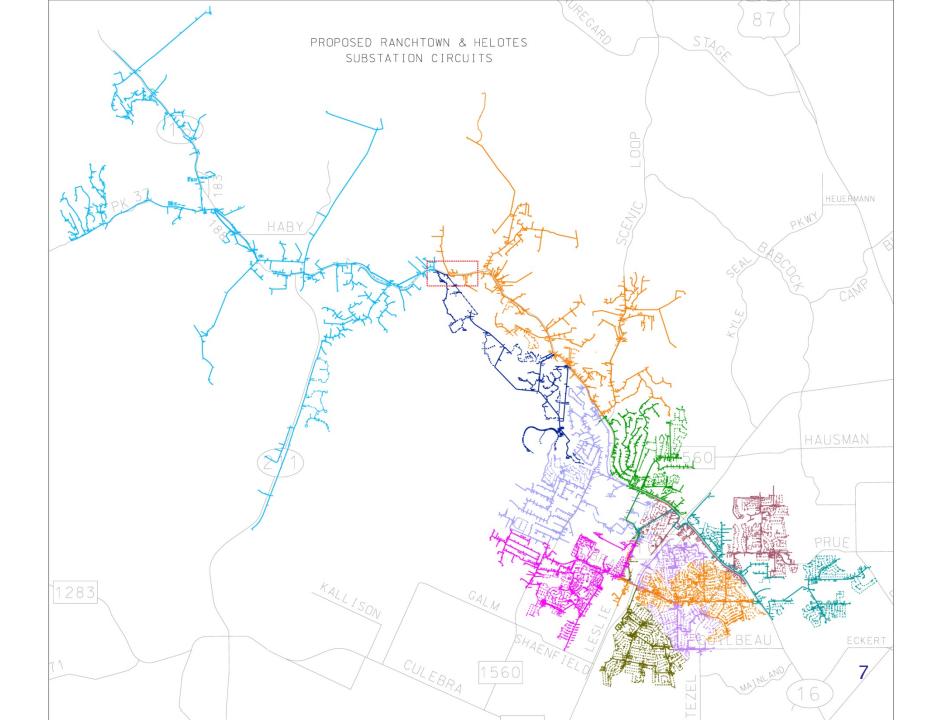




#### **Need For Project**

- The existing circuit has more overhead line miles than any in our system and is more than ten times longer than the typical circuit
- The new substation is needed to improve reliability for this area with shorter circuits that reduce exposure to outages
- The new circuits also create strong backbones and sufficient field ties to adjacent substation circuits that will prevent major loss of customer load in faulted conditions
- If this project is not completed, the power transformers at Helotes substation will be at risk of overloading. Also, some contingency conditions may lead to customer load at risk of lengthy outages due to exceeding emergency 5 capacity limits.

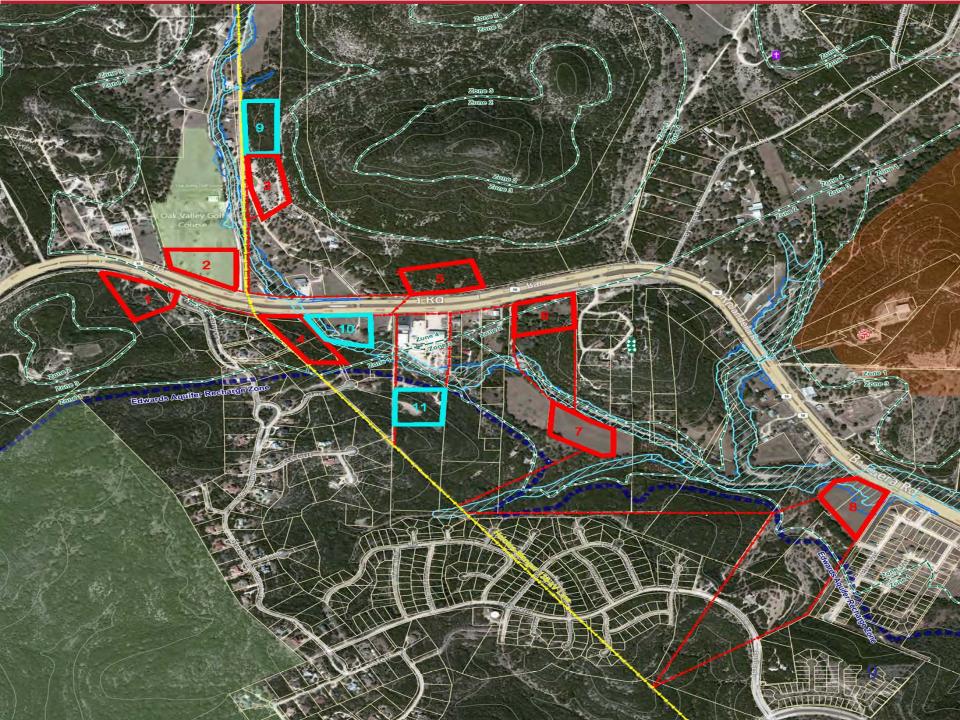


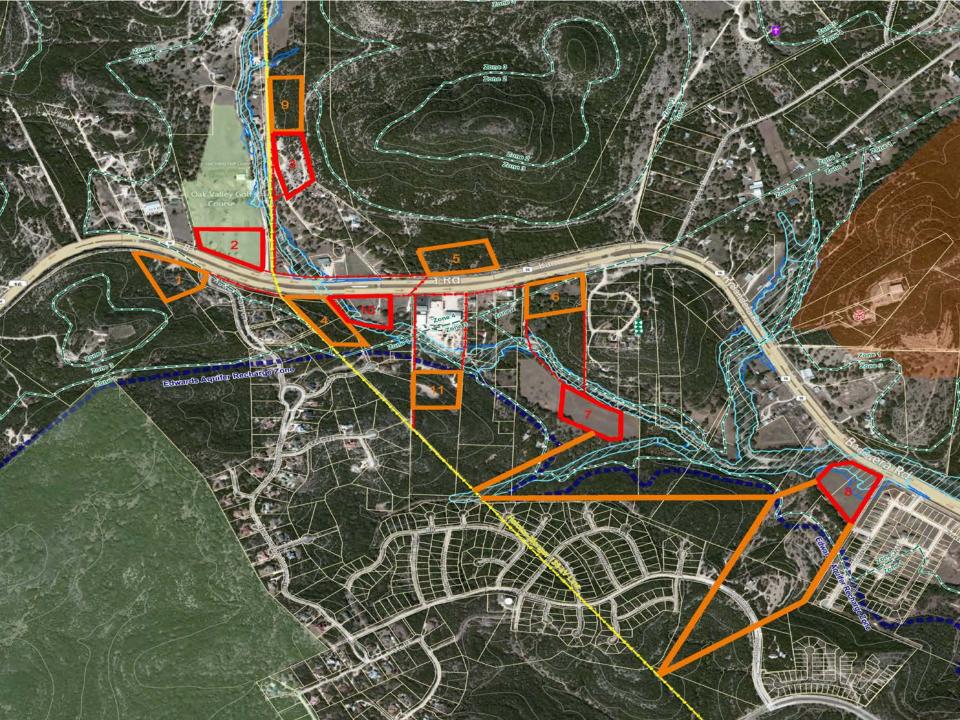


## **CPS** Open House Highlights



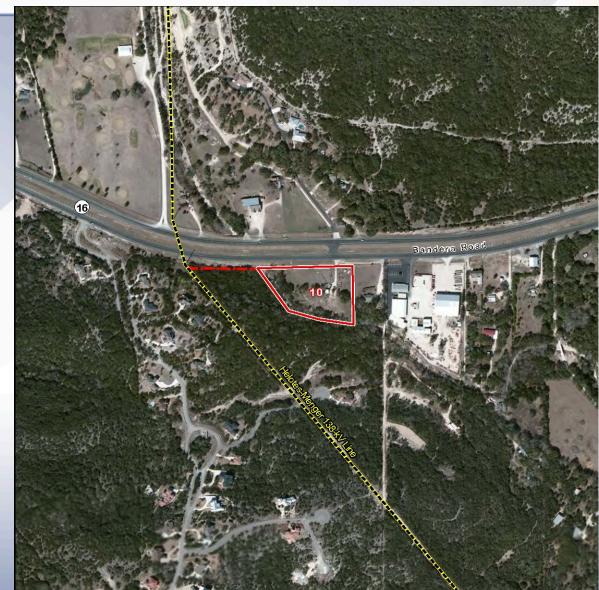
- 50 attendees
- 21% of those receiving invitations
- Added 3 new sites
- Received 51
  questionnaires







#### **Recommended Site**



11



#### **Recommended Site Factors**

<b>Evaluation Factors</b>	Comments
Total Cost	Site 10 was the lowest cost site. Cost factors include purchase of land, engineering, permitting, cost of construction and materials including distribution, land use and feasibility
Transmission Maintenance	Site 10 was ranked with the lowest impact group in regards to maintenance of the transmission line because of the short distance of line and access to the line.
Customer Input	The owners of the property for site 10 have expressed a desire to sell the property for the substation.
Environmental Ranking	The site ranked 3rd of 11 sites environmentally





- Public Input Meeting November 13, 2012
- Board approval November 19, 2012
- Request COSA ordinance December 2012
- Property acquisition complete by June 1, 2013
- Engineering complete July 2013
- Construction time:
  - Phase 1 Sept 1, 2013 thru March 1, 2014
  - Phase 2 Sept 1, 2014 thru March 1, 2015
- Substation in service by June 1, 2015



### Questions