



**WELCOME**

**CPS Energy  
Quarterly Pole Attachment  
Workshop**

**May 9, 2019**

Confidential Information Property of CPS Energy

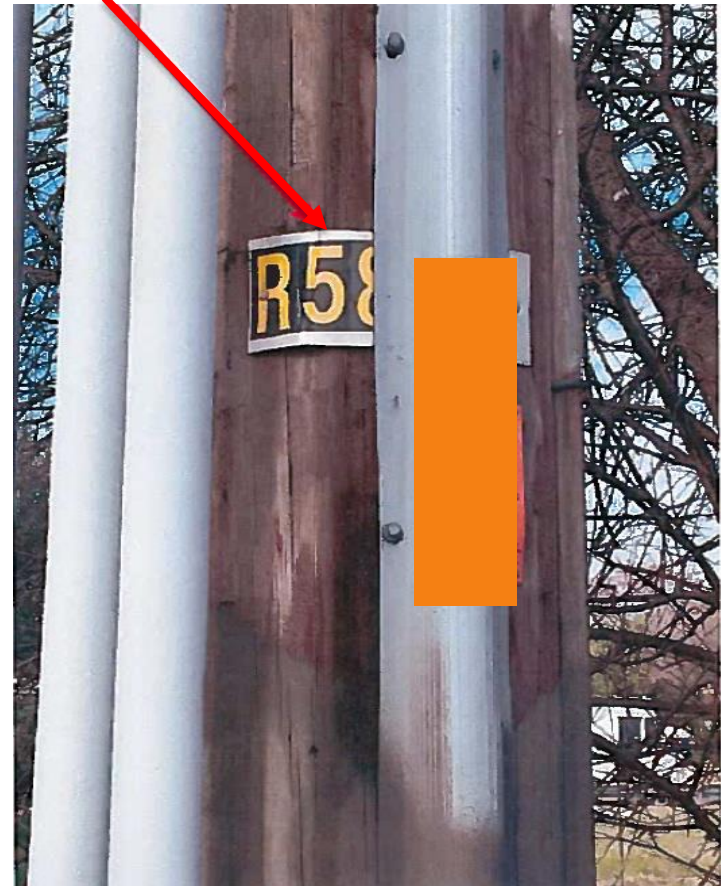
# Housekeeping

- **Sign-up Sheets**
- **Restrooms**
- **Evacuation / Staging**
- **Introductions in the room**



# Safety

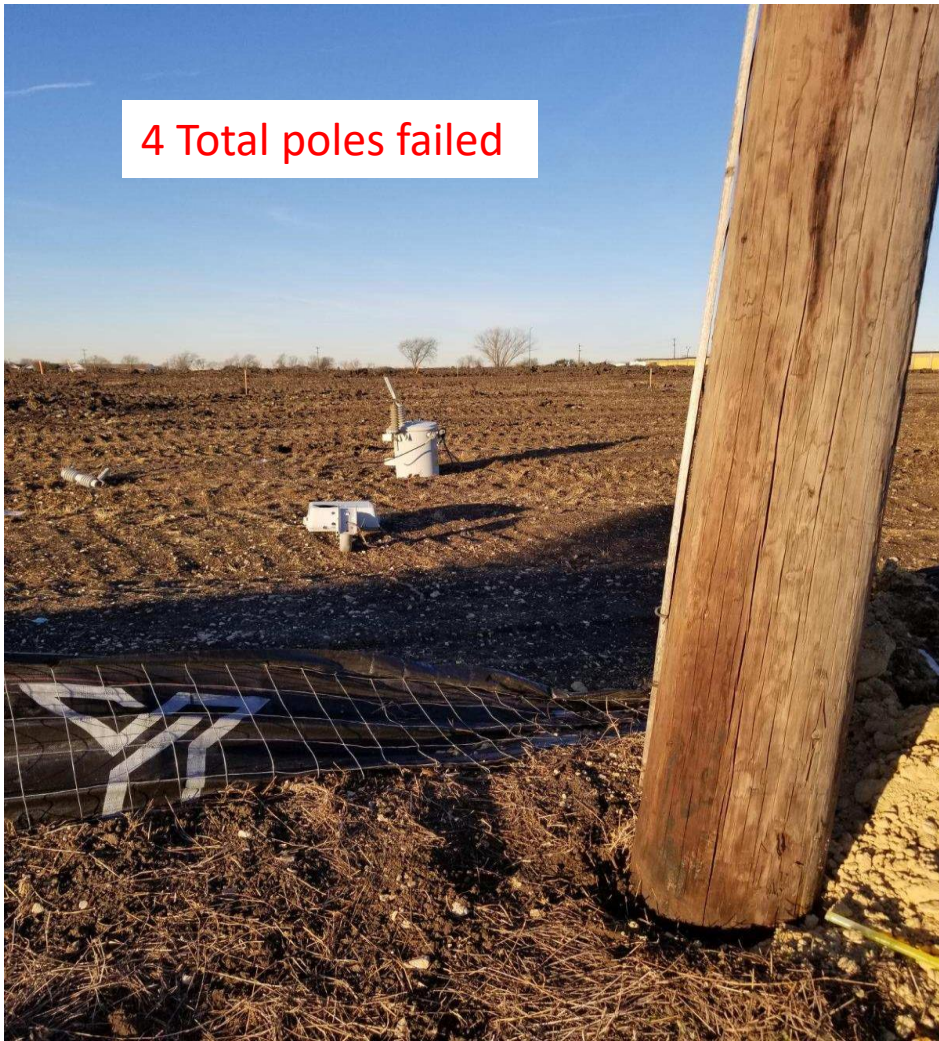
- **Date of occurrence – 12-18-18**
- **The Journeyman went to the R-switch pole and noticed the R-switch number was not clearly visible and assumed it was R-5847, the correct switch to operate for the procedure (when in fact this was R-5811)**
- **After the journeyman opened the R-switch he assumed was R-5847, he proceeded to verify that the transformers was de-energized**
- **At this point, the journeyman noticed that the circuit was still energized and realized the wrong switch was opened**
- **This caused an outage to 20 customers for approximately 15 minutes**







4 Total poles failed



# Agenda

**CPS Energy**  
*Quarterly Pole Attachment Workshop – February 7, 2019*

CPS Energy EMC Auditorium  
4514 Frank Bryant – San Antonio

Agenda #	Item	Presenter	
1	Welcome & Introductions	Jesse Lopez	9:00 – 9:10 am
2	Safety & Agenda	Jesse Lopez	9:10 – 9:15 am
3	<b>General Topics:</b> <ul style="list-style-type: none"> <li>• Engineering contractors GIS training update</li> <li>• Pole attachment application rejections</li> <li>• Pole Attachment Process</li> <li>• Work Manager Responsibilities</li> <li>• GIS Designs</li> <li>• Pole Attachment Standards Update</li> <li>• Pole attachment services dashboard update</li> </ul>	Jesse Lopez	9:15 – 10:20 am
4	<b>Customer Engineering Web Portal</b> <ul style="list-style-type: none"> <li>• Web Portal overview</li> </ul>	Richard Rodriguez	10:20 – 10:35 am
5	<b>Wireline Attachments</b> <ul style="list-style-type: none"> <li>• Temporary Attachment request</li> <li>• NJUNS update</li> </ul>	Jesse Lopez	10:35 – 10:50 am
6	<b>Wireless Attachments</b> <ul style="list-style-type: none"> <li>• Applications update</li> <li>• GIS Design installations for Pole Top Antennas</li> <li>• Dashboard update</li> <li>• Attaching Entity Application Status</li> <li>• Pole Attachment Identification Dashboard</li> <li>• AT&amp;T Owned Poles (Joint Use Poles)</li> </ul>	Jesse Lopez	10:50 – 11:30 am
7	Pilot Project status update	Jesse Lopez	11:30 – 11:40 am
8	Open Discussion / Questions	Attendees	11:40 – 12:00 pm
9	Final Wrap-up	Jesse Lopez	
10	Adjourn		

# GENERAL TOPICS

# Engineering Contractor GIS Training

- Successfully completed two training classes for GIS Electrical Make Ready Engineering
- 100 % pass rate
- New Approved Pole Attachment Contractors list is updated and posted in our website
- Pole Attachment Services will be requesting another class for August 2019 (If needed)
- For more information please email [poleattach@cpsenergy.com](mailto:poleattach@cpsenergy.com)

<i>Engineering</i>	
1. Actavo	★★★★
2. Binkley & Barfield	★★★★
3. Cobb Fendley?	★★★★
4. DeBauche Communications & Consulting Services, LLC	★
5. Fullerton	★★★
6. LJA Engineering	★★★★
7. PhaseLink Utility Solutions	★★★★
8. Precision Design & Drafting Inc.	★★★★
9. Telecom Staffing, LLC?	★★★★
10. TDC2, LLC	★
11. Texasutility Engineering, Inc.	★★★★
12. TRC, Inc.	★★★
13. Quanta Utility Engineering Services (QUES)	★★★★
14. Utilis Engineering	★★★

★ Option 1: Pole Loading Analysis (PLA) & Application submittal

★★ Option 2: Make ready engineering

★★★ Option 3: Pole Loading Analysis (PLA), Application submittal & Make ready engineering



# Application Rejections

- **Application missing required information**
  - CPS Energy pole number (PL#) missing on application (New Attachments ONLY)
  - Make ready not called for on the application
  - Missing required attachments at submittal of application
- **Mistakes on Pole Loading Analysis**
  - All existing violations on pole are not fixed or new creates a new violation
  - Incorrect construction grades
  - Missing cables on pole
  - Incorrect cable tensions
  - Mid-Span clearance issues
- **21 Day application review will reset with every application rejection**
- **Contractors should NOT change the attaching entities application name**
  - Attaching Entities do not know what applications CPS Energy is referencing because the application name was changed by the engineering contractor when applying for attachment

# **WORK MANAGER TASK STRUCTURE**

# Pole Attachment Process



- Pole Attachment applications must be submitted to [poleapplications@cpsenergy.com](mailto:poleapplications@cpsenergy.com)
- Electrical Make Ready GIS designs must be submitted with the pole attachment application
- All GIS designs submitted to CPS Energy will be reviewed by our contractors TRC Solutions and Quanta Utility Engineering Services (QUES)

# Work Manager Responsibilities



- **Supervisor Reviewers**
  - **Margarita Garcia (TRC) GM6**
  - **Kyle Nealon (QUES) NK2**

## LEGEND for Responsible Parties

Designer – Attachers/Contractors

Supervisor – QUES/TRC

Manager – Jesse/CPS

WR	XXXXXX	REQ, 06/25/2018, PALMR, CAPITAL, UNKNOWN	, , SAN ANTONIO, -, NONE, ,
Task 1000:	C, M, REQ, 04/24/2018, 04/24/2018, APDM, Create Work Request, 0		
Task 1040:	W, M, REQ, 04/24/2018, , , Review WR Details / Assign Designer - Project - Grids, 0		
Task 2280:	P, M, DSGN, 04/24/2018, , , Perform Field Survey / Obtain Data, 0		
Task 2360:	P, M, DSGN, 04/24/2018, , , Design Job, 0		
Task 2400:	P, M, DSGN, 04/26/2018, , , Request ROW / Easement From Customer, 0		
Task 2445:	P, M, DSGN, 04/24/2018, , , Obtain Permit(s), 0		
Task 2460:	P, M, DSGN, 05/03/2018, , , Perform Supervisor Review of Design, 0		
Task 2550:	P, M, DSGN, 05/04/2018, , , Submit Design to Distribution Planning, 0		
Task 2570:	P, M, DSGN, 05/14/2018, , DPLN, Obtain Distribution Planning Approval, 0		
Task 2605:	P, M, DSGN, 05/07/2018, , , Send Contribution Charges to Customer, 0		
Task 2670:	P, M, DSGN, 04/30/2018, , , Obtain ROW, 0		
Task 2680:	P, M, DSGN, 05/15/2018, , , Indicate Official Revision, 0		
Task 9200:	P, M, CIAC, 05/07/2018, , , Receive Customer Pre-Work Payment, 0		
Task 5000:	P, M, APPR, 05/16/2018, , , Perform Supervisor Approval, 0		
Task 5100:	P, M, APPR, 05/17/2018, , , Approve Work Request, 0		
Task 6000:	P, M, DESFN, 05/18/2018, , , Finalize and Lock Down Design, 0		
Task 11100:	P, M, REL, 05/21/2018, , , Accept Work Request for Construction, 0		
Task 12500:	P, M, SCH, 05/22/2018, , , Schedule Work, 0		
Task 16100:	P, M, CONST, 07/12/2018, , , Perform Field Work, 0		
Task 16500:	P, M, ABRPT, 07/17/2018, , , Perform Initial Material Reconciliation, 0		
Task 16900:	P, M, ABRPT, 06/19/2018, , , Receive Customer Post-Work Payment, 0		
Task 17000:	P, M, ABRPT, 07/24/2018, , , Enter As-Built, 0		
Task 18200:	P, M, CLOSE, 07/25/2018, , , Close Work Request, 0		



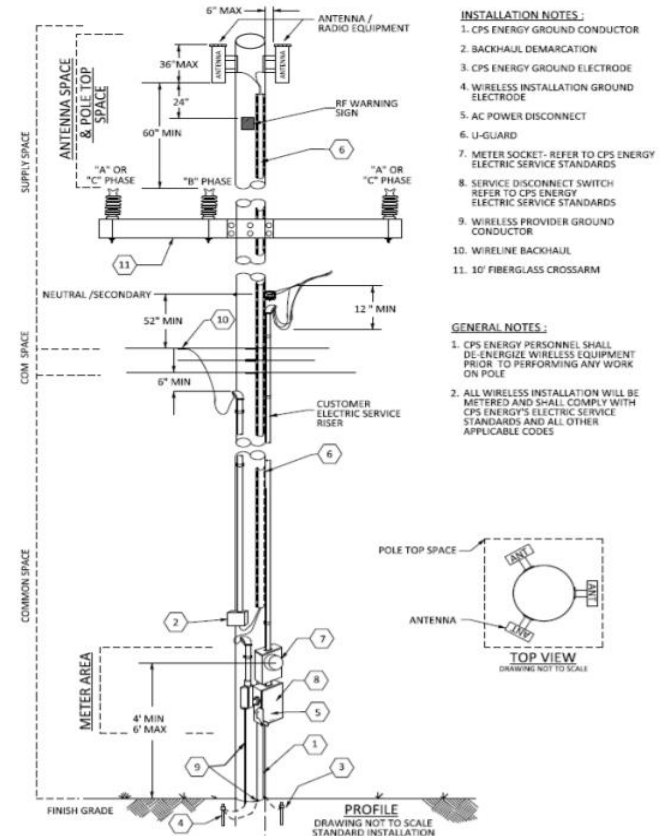
# GIS Designs

- **All Work Request require an additional (5) NSLC to account for construction crew travel time at work location 1**
- **These will need the actual Compatible Unit at the work location**
  - Adding Sheath cover to the Streetlight
  - Raising Secondary risers
- **Other Electric Make Ready needing the (5) NSLC per operation**
  - Adding Sheath Streetlights
  - Raising/Lowering Neutrals & Secondary's
  - Raising/Lowering Streetlights
  - Raising Secondary Risers
- **Pole Attachment Services is working on a GIS commonly used Compatible Unit list and frequently asked questions guide**

# Pole Attachment Standards Addendum Updates

- Pole Attachment Services is currently reviewing the comments submitted by our attaching entities
- Pole Attachment Standards to be effective March 1, 2019

18: CPS Energy Wireless Antenna Installation – Pole Top Space (Panel)



# Annual Pole Attachment Invoice

- **CPS Energy invoiced the annual pole attachments to each attaching entity having permitted Wireline, Wireless and Banner Attachments**
- **The invoice shall set forth the total number of pole feet utilized by attachments as of December 1<sup>st</sup> of the current rental year multiplied by the attachment rate**



# Customer Engineering Web Portal



# CPS Energy Customer Engineering Portal Website



- Go to [www.cpsenergy.com](http://www.cpsenergy.com)
- Click on Building & Renovation Svcs for Businesses/Developers

**Business Customer Engineering**

**New Infrastructure**

**Distributed Generation**

**Safety on the Job**

**Business Customer Engineering**

We can help with new service installations, service remodel requests, security lights or street lights.

Building & Renovation Svcs for Businesses/Developers

Building & Renovation Svcs for Homeowners/Builders

CSI

Pole Attachment Services

**Manage My Account**

Username

Password

**Log In**

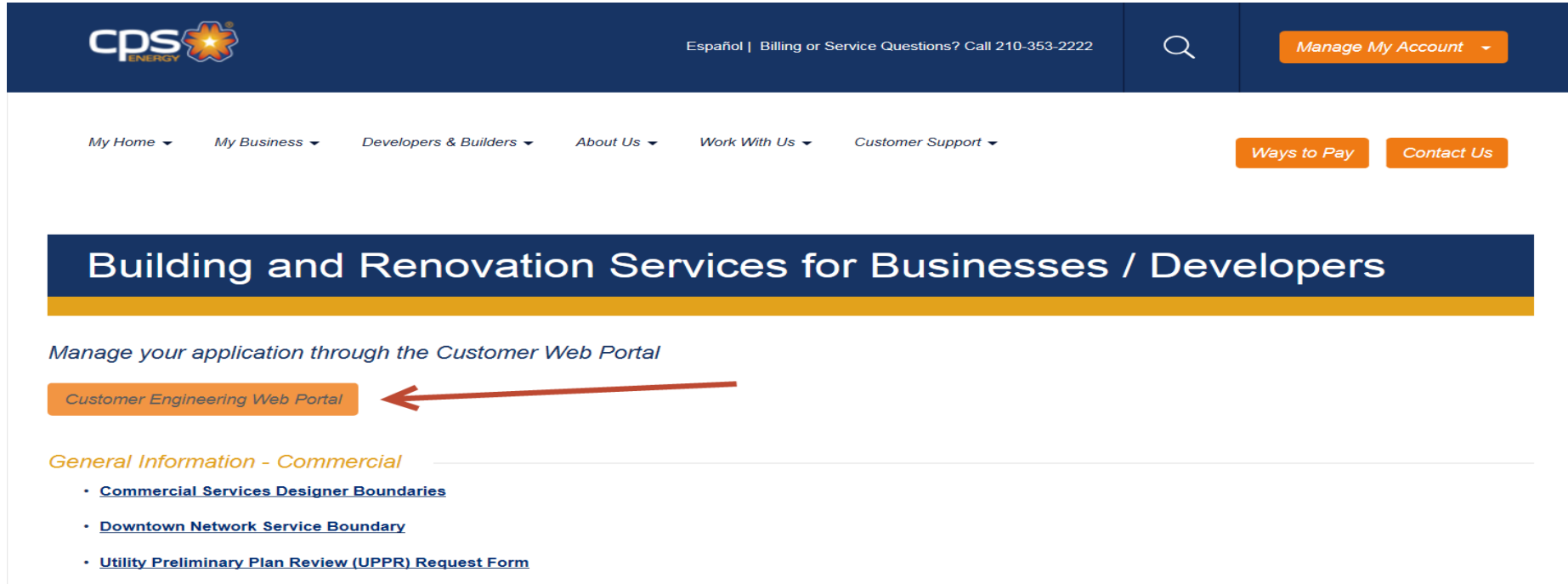
Enroll My Account      Forgot Password?

**THERMOSTAT REWARDS**

for your Business or Home  
Learn More

# Web Portal Overview

- Click on Customer Engineering Web Portal



The screenshot shows the top navigation bar of the CPS Energy website. It features the CPS ENERGY logo on the left, a search icon, and a 'Manage My Account' dropdown menu. Below the navigation bar, there are several menu items: 'My Home', 'My Business', 'Developers & Builders', 'About Us', 'Work With Us', and 'Customer Support'. To the right of these items are two buttons: 'Ways to Pay' and 'Contact Us'. A large blue banner with a yellow underline contains the text 'Building and Renovation Services for Businesses / Developers'. Below this banner, there is a heading 'Manage your application through the Customer Web Portal' and a button labeled 'Customer Engineering Web Portal' with a red arrow pointing to it. Underneath, there is a section titled 'General Information - Commercial' with a list of links: 'Commercial Services Designer Boundaries', 'Downtown Network Service Boundary', and 'Utility Preliminary Plan Review (UPPR) Request Form'.

**Manage your application through the Customer Web Portal**


[Customer Engineering Web Portal](#)

**General Information - Commercial**

- [Commercial Services Designer Boundaries](#)
- [Downtown Network Service Boundary](#)
- [Utility Preliminary Plan Review \(UPPR\) Request Form](#)

# Web Portal Overview

- Check Work Request Status (No login required)


Customer Engineering: Call (210) 353-4050 (7:30am-4pm M-F)

SIGN IN →

Forgot Username/Password?  
Contact Customer Engineering

## Customer Engineering Web Portal

The fast, easy way for you to manage your work requests with CPS Energy!

**Relevant Links**

[Click Here to Enroll](#)

[Service Request Required Documents](#)

[Click Here to Pay Construction Invoices](#)

[Click Here to Check Project Work Status \(No login required\)](#)

**Guides & Forms**

[Customer Web Portal User Guide](#)


[Web Portal Authorization Form](#)

\*\*\*\* New Enhancements to Customer Web Portal \*\*\*\*

We are happy to announce the following easy-to-use features are now available to you through the CPS Energy website and the Customer Engineering Web Portal:

- \* Gas Rough-In Process Improvement
- \* CoSA Website Link
- \* Public Project Status Webpage
- \* Online Payments

If you experience technical issues or have questions, please call 210-353-2450 or email [csifedback@cpsenergy.com](mailto:csifedback@cpsenergy.com).



For more information on our new enhancements, [click here](#).

If you're not completely satisfied with the service you are receiving from CPS Energy, we want to hear from you at 210-353-4001.

## CPS Energy: Customer Engineering Work Status

Please select how you would like to lookup your work details. You may use the project number, a specific work request number or the street address on the project.

### Search Type

Project Number

Work Request Number

Address

## CPS Energy: Customer Engineering

### Development Checklists

Residential Development  
Residential Accelerated Services  
Residential Remodel  
Large Commercial  
Multi-Family Services

### Standards

2012 Electric Service Standards (w/ amended Section 600)  
2012 Electric Service Standards - Section 600  
Summary of Gas Service Standards

### Documentation

Customer Contact List  
Multi-Family Construction Options and Criteria  
Customer Engineering ACH Payment Option  
Plan Review Request

### Maps & Boundaries

CPS Energy Gas Availability Map  
Downtown Network Service Boundary  
Commercial & Residential Services Designer Boundaries  
CPS Energy Gas Availability Map

### Contact Us

Call  
(210) 353-4050 (7:30am-4pm M-F)  
Email  
customerengineering@cpsenergy.com  
Email  
ce@cpsenergy.com  
Mail  
P.O. Box 1771, San Antonio, TX 78296



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Please select how you would like to lookup your work details. You may use the project number, a specific work request number or the street address on the project.

### Search Type

Project Number

Work Request Number

Address

Provide the number associated to the specific work request you would like to view.

Work Request Number \*:

40092696



Search

*CPS Energy: Customer Engineering*

# Web Portal Overview



For assistance, please call: (210) 353-4050 (7:30am-4pm M-F)

## CPS Energy: Customer Engineering Work Status

← Back

+ Work Request (40092696) BOERNE STAGE RD SAN ANTONIO - In Design

*CPS Energy: Customer Engineering*

# Web Portal Overview



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## CPS Energy: Customer Engineering Work Status

← Back

— Work Request (40092696) BOERNE STAGE RD SAN ANTONIO - In Design

**Address:** BOERNE STAGE RD SAN ANTONIO

**Status:** In Design

**Work Request Details:**

**Name:** CONTERRA APP U03022-4XX-1 - MAKE-READY

**Type:** UPGDG - Upgrades Gas

**CPS Energy Contact:**

**Name:** CARDEN, JOSH

**Phone:**

**Email:** DVJUSTET@CPSENERGY.COM

**Customer Tasks**

**Description**

Receive Customer Pre-Work Payment

**Status**

Not Started

**Date/Date Range**

06/28/2017 - 06/28/2017

**CPS Energy Tasks**

**Description**

Approve Work Request

Schedule Work

**Status**

Not Started

Not Started

**Date/Date Range**

06/28/2017 - 06/28/2017

06/28/2017 - 06/28/2017

*CPS Energy: Customer Engineering*

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	Username
	Password

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If you're not completely satisfied with the service you are receiving from CPS Energy, we want to hear from you at 210-353-4001.

# Web Portal Overview

## CPS Energy: Customer Engineering Online Payments

Welcome to the fast, easy way to pay your construction invoices. As you go through the following screens, you will be asked to complete the necessary details in order to locate the invoice, then post a real-time ACH check payment from your bank account.

**Please keep in mind the following important requirements:**

- \* Invoices must be paid in full.
- \* Payments submitted before 7:00 p.m. CST are processed same day.
- \* Payments submitted after 7:00 p.m. CST, on weekends or on CPS Energy holidays, will be scheduled next business day.
- \* Please remember to NOT use your browser's navigation buttons (for e.g., Back, Refresh, etc.)



Invoice Number \*:

Customer Number \*:



Continue →

# WIRELINER ATTACHMENTS




# Temporary Attachment Request



## *B7: CPS Energy Request for Temporary Attachment*

- Attaching entities must submit the form B7 "Request for Temporary Attachment" to [poleapplications@cpsenergy.com](mailto:poleapplications@cpsenergy.com)
- Pole application must also be submitted with the proposed attachment height for each temporary attachment for CPS Energy to review
- Poles with double red tags will not be allowed for temporary attachment due to safety reasons, these shall be done on a upgrade work order

 Request for Temporary Attachment

Submit form to [poleapplications@cpsenergy.com](mailto:poleapplications@cpsenergy.com) Subject Line: Request for Temporary Attachment

Attaching Entity		Application Number	
Date Temporary Attachment Required			

Requestor	
Name	
E-mail Address	
Company	
Phone Number	
Cell Number	

Work Request #	
<small>(WR# of the Make-Ready Electrical Construction required to completed for this Application)</small>	

Type of Temporary Attachment & Location (Pole #)	
<small>(Include Pole Number for Temporary Attachment requiring Make-Ready Electrical Construction)</small>	
New Attachment	PL#
Overlash	PL#
Wireless Installation	PL #
Other	*

Approval by CPS Energy	
By	
Printed Name	
Title	
Date	

# NJUNS Update

- **Meeting with subject matter experts from CPS Energy and attaching entities was held on November 26, 2018**
- **Participants included Spectrum, AT&T and Phaselink**
- **Pole Attachment Services will resume the development of a best practice NJUNS document**
- **Next meeting will be held at the end of February**



# WIRELESS ATTACHMENTS

# Small Cell Applications Update



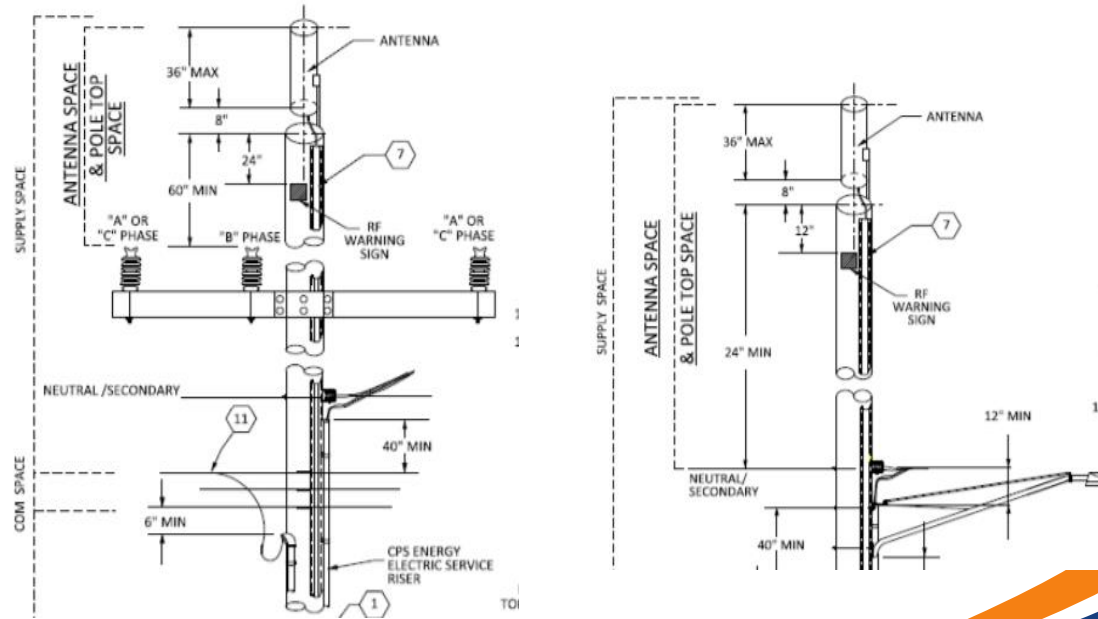
Small Cell Antennas Locations by Installation Type



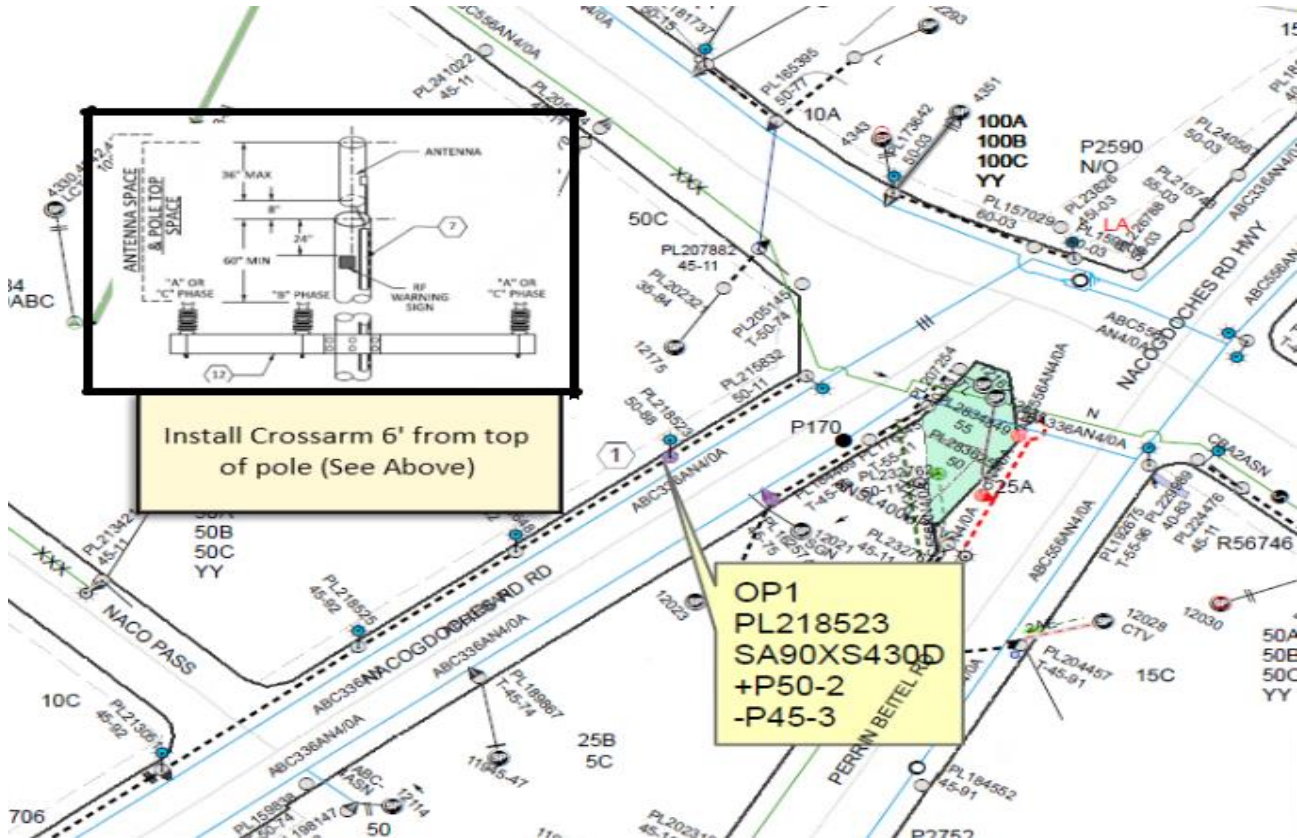
Pole Owner	City	
AT&T	San Antonio	21
	Total	21
	San Antonio	23
	Total	23
CPS	San Antonio	43
	Total	43
	San Antonio	7
	Total	7
Level 3	San Antonio	6
	Total	6
	San Antonio	29
	Total	29
Node Support	San Antonio	1
	Total	1
	Helotes	1
	Leon Valley	4
	Live Oak	1
	Lytle	1
Grand Total	San Antonio	202
	Total	209
<b>Grand Total</b>		<b>339</b>

# GIS Design for Pole Top Antenna Installations

- Designers will need to add a snippet to all pole top antenna GIS designs
- Snippet must be added just over the callout box with the antenna height
- Measurement from top of the pole must be included in the call out box

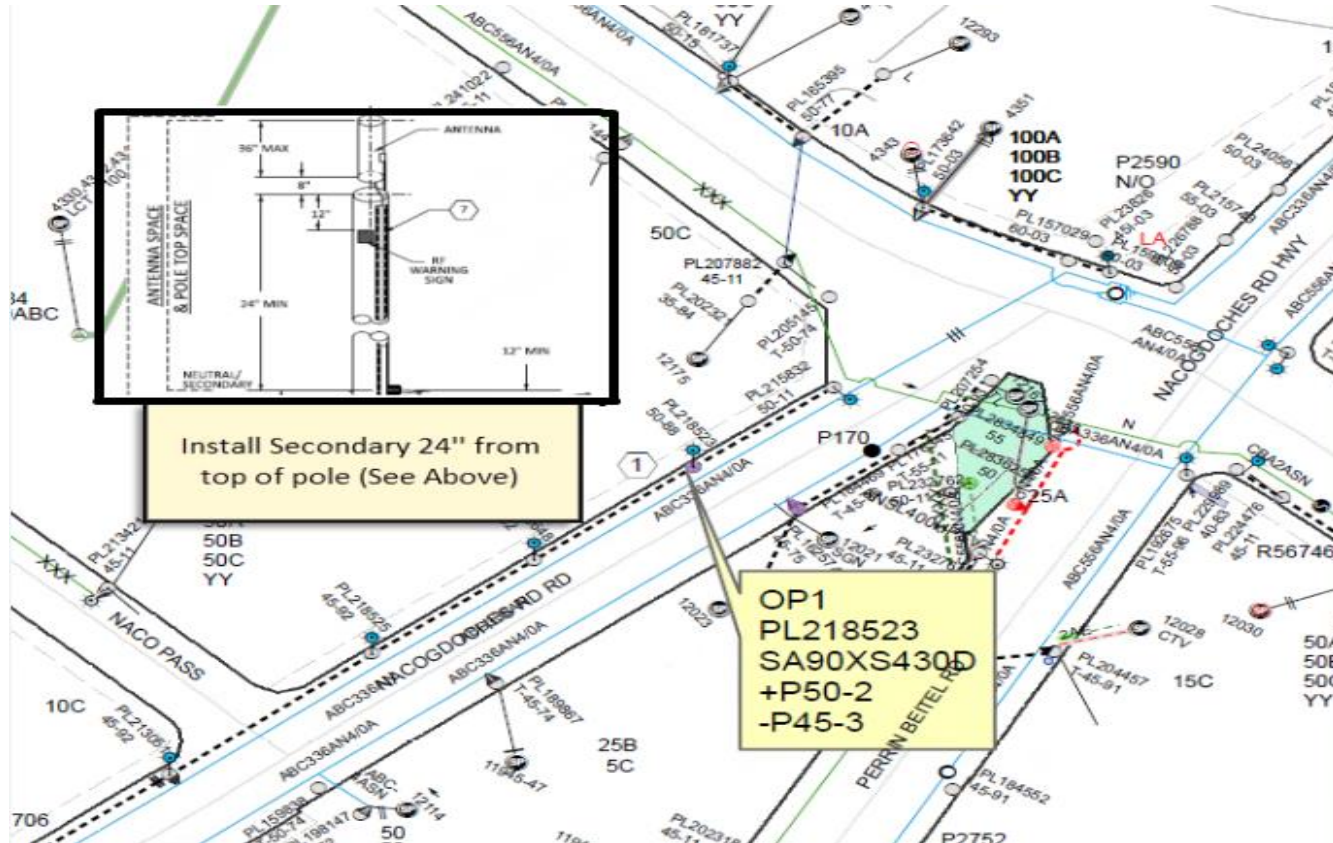


# GIS Design 1





# GIS Design 2



# Dashboard Updates

# Attaching Entity Application Status

- **Pole attachment application process dashboard completed**
  - Pilot with an engineering company (November 2018)
- **No changes were requested by the engineering company doing the pilot**
- **This will include wireline and wireless application status**
- **Next step: Third Party Attacher & Approved Engineering firm can make a request for their copy that will include their application status**
  - Email: [poleattach@cpsenergy.com](mailto:poleattach@cpsenergy.com)
  - Subject line "Third party attacher dashboard"

# Attaching Entity Application Status

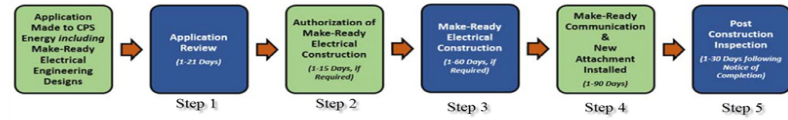


Progress 0%  100% Values in Range a...

Application Type (All) Year Received (All) Make-Ready (All) Application Number (All) MR-Work Requ.. (All) Upp-Work Re.. (All) Review Consultant (All) Attacher (All) Design Consultant (All)

Step 1 (All) Step 2 (All) Step 3 (All) Step 4 (All) Step 5 (All)

Step 1		Step 2	
Completed	2,960	Completed	2,647
In Progress	22	In Progress	327
Not started	1	Not Started	9



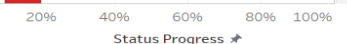
Step 3		Step 4		Step 5	
Completed	2,371	Completed	806	Comple..	464
In Progress	276	In Progress	1,565	In Progre..	362
Not Started	336	Not Started	612	Not Star..	2,157



Review Consultant	Application Number	MR-Work Request	Upp-Work Request	Initial Permit Review Complete	Auth for MR Work Form to Applicant	Payment	Most Recent Comp Date	NTP Sent to Applicant	Notification of Completion Received from Applicant	Post Fiber Inspection	Step 1	Step 2	Step 3	Step 4	Step 5
Alpheus, QUES	17-0118-646 S Flores P1	40150070	Null	1/4/18	Null	Null	Null	Null	Null	Null	Completed	In Progress	Not Started	Not Started	Not Started
	17-0118-646 S Flores P2	Null	Null	2/1/18	Null	Null	Null	2/9/18	Null	Null	Completed	Completed	Completed	In Progress	Not Started
	17-0218-Shavano Fiber Park Ph 1-Part 3	40158533	40158534	2/19/18	3/23/18	5/7/18	10/16/18	10/25/18	Null	Null	Completed	Completed	Completed	In Progress	Not Started
	17-0218-Shavano Fiber Park Ph 1-Part 4	40159155	Null	2/15/18	3/13/18	5/7/18	6/15/18	10/25/18	Null	Null	Completed	Completed	Completed	In Progress	Not Started
	17-0218-Shavano Fiber Park Ph 1-Part 5	40159156	Null	2/13/18	2/23/18	5/7/18	8/29/18	10/25/18	Null	Null	Completed	Completed	Completed	In Progress	Not Started
	17-0618-Network Fiber Park P1	40187578	Null	6/19/18	Null	Null	Null	Null	Null	Null	Completed	In Progress	Not Started	Not Started	Not Started
	17-0718-Network Fiber Park P1 REV1	40187578	Null	7/4/18	7/20/18	Null	Null	Null	Null	Null	Completed	In Progress	Not Started	Not Started	Not Started
	17-0718-Tri County	40208075	Null	8/2/18	Null	Null	Null	Null	Null	Null	Completed	In Proaress	Not Started	Not Started	Not Started

Payment Status: ■ No Payment Required ■ Good Standing ■ Not Paid

234 nulls



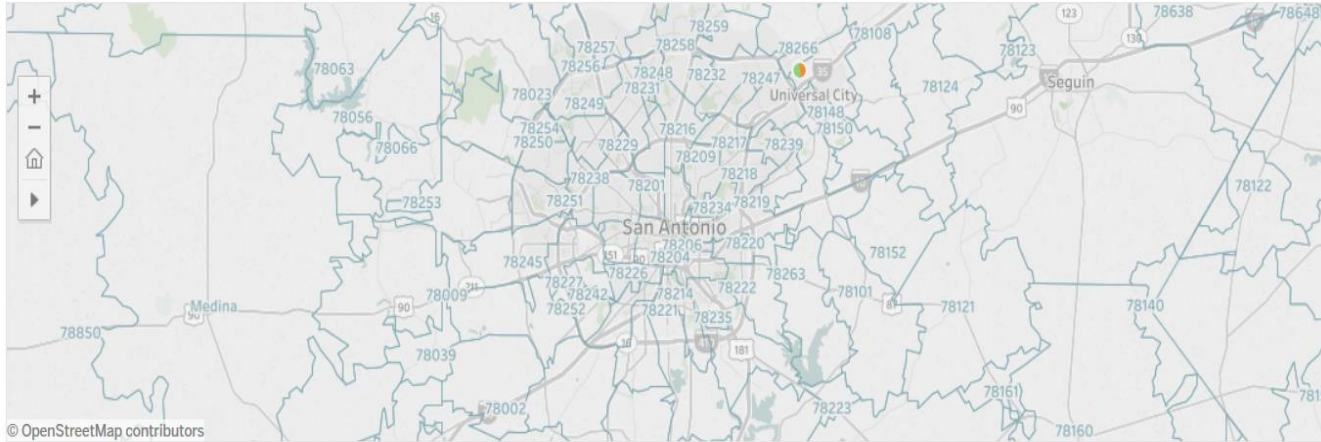
# Pole Attachment Identification Dashboard

- **Link will be emailed to all engineering firms that have been approved by CPS Energy Pole Attachment Services. Please check your CPS Energy inbox in the next coming week.**

Attachment Owner

- AT&T/SBC
- Charter

## Pole Attachments



Facility ID  
 PL254

Attach Owner  
 (All)

Pole Owner  
 (All)  
 CPS

Cancel Apply

### List

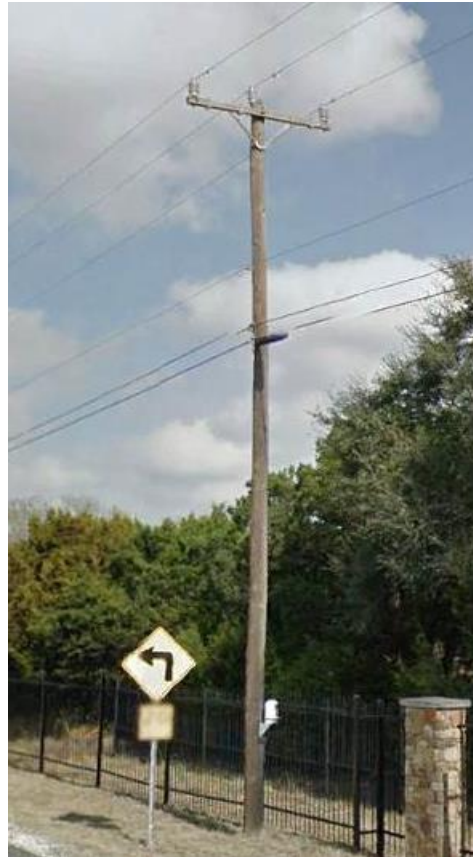
Facility ID	Age	Pole Owner	Inspection Date	Attach Position	Attach Owner	Contact Person	Phone Number	Email Address
PL254	14	CPS	11/2/2016	1	Charter	Frank Cyprian	210-352-4312	frank.cyprian@charter.com
						Joel Gonzales	210-582-9357	Joel.Gonzales@charter.com
						Paul Edelen	210-352-4301	paul.edelen@charter.com
						Ricardo Valadez	210-352-4309	ricardo.valadez@charter.com
						Rick Grosso	210-582-9025	rick.grosso@charter.com
				2	AT&T/SBC	Phillip Austin-CIVIC	210-283-1839	pa1657@att.com



# AT&T Owned Poles – (Joint Use Poles)



- **4 out of 5 poles are CPS Energy owned poles**
- **CPS Energy and AT&T are currently working together to streamline the pole application process for the attaching entities**
  - GIS Electrical Make Ready design
  - Electrical Make Ready invoice process
- **Wireline attachments**
- **Wireless attachments – AT&T is requesting to follow the CPS Energy preliminary site survey process and wireless attachment standards for AT&T owned poles to help streamline the application process**
- **Submit the “Preliminary Site Survey signed form” to AT&T along with the application**



# PILOT PROJECT UPDATE

# Pilot Project Status Update

- **Projected construction completion dates:**
  - Team 1 – March 30, 2019
  - Team 2 – March 30, 2019



# Thanks for the 2018 Accomplishments

- **Dulia Rius and Guillermo Rico**
- **Attaching Entities and contractors**
- **Pole Attachment dashboard – identifies attachers, position and contact information**
- **Pole Attachment application process dashboard completed**
  - **Pilot with an engineering company (November 2018)**
- **Pole attachment services offered GIS electrical make ready class**
- **Three additional pole attachment contractors approved as make ready engineering**





***Thank You***