



WELCOME

**CPS Energy
Quarterly Pole Attachment
Workshop**

August 15, 2019

Confidential Information Property of CPS Energy

Housekeeping

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



Safety

<https://youtu.be/D5dGCuRdtSs>

Agenda



CPS Energy
Quarterly Pole Attachment Workshop – August 15, 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	General Topics: <ul style="list-style-type: none"> • Engineering Contractors GIS Training Update • Pole Attachment Services “User Access Agreement” • New Internal GIS Web Link • Submitting Pole Attachment Applications via Business Case Authorization (BCA) • Application Submittals/Post Inspections 	Jesse Lopez	9:15 – 9:45 am
4	Wireline Attachments <ul style="list-style-type: none"> • Temporary Attachment request • Process Standards • AT&T Approval Letter • AT&T Pole Replacements 	Jesse Lopez	9:45 – 10:15 am
5	Wireless Attachments <ul style="list-style-type: none"> • Wireless GIS Designs • Post Construction Inspections • Wireless Antenna installation violations • Downtown CPS Energy Underground Fed Streetlight Update/Next Steps/Smart Meter • Residential 12” Mock Up Update • Zona Cultural Streetlight Discussion/Input • Downtown Smart Meter Pilot Project Update/Lessons Learned 	Jesse Lopez	10:15 – 11:30 am
6	Open Discussion / Questions	Attendees	11:30 – 11:40 am
7	Final Wrap-up	Jesse Lopez	
8	Adjourn		

GENERAL TOPICS

Approved Pole Attachment Contractors List Updated



Approved Pole Attachment Contractors



Engineering
1. Actavo ★★ ★
2. Binkley & Barfield ★★ ★
3. Cobb Fendley? ★★ ★
4. Davey Resource Group, Inc. ★
5. DeBauche Communications & Consulting Services, LLC ★
6. Fullerton ★★ ★
7. LandDev Consulting, LLC ★
8. LJA Engineering ★★ ★
9. Nexius Solutions, Inc. ★
10. PhaseLink Utility Solutions ★★ ★
11. Precision Design & Drafting Inc. ★★ ★
12. Quanta Utility Engineering Services
13. Telecom Staffing, LLC ★★ ★
14. TDC2, LLC ★
15. Texas Utility Engineering, Inc. ★★ ★
16. Tower Engineering Professionals ★★ ★
17. TRC, Inc. ★★ ★

Electrical Distribution Construction
Chain Electric
Pike Electric
Greenstone

One-Touch Transfer Construction
BComm Constructors, LLC
Ervin Cable Construction, LLC
Quest Utility Construction, Inc.
S&S Cable Communications
Tero Technologies Inc.
TEXSTAR Enterprises, Inc.
TX Superior Communications, LLC
JC Communications
ADB Companies
A2 Total Telecom Services LLC
B Robinson Inc.
CJ Hood Communications
US Aerial

Vegetation Management
Asplundh Tree Expert
Davey Tree Surgery
McCoy Tree Surgery

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

★★ Option 2: Make ready engineering

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

Pole Attachment Services - Electrical Make Ready Training

- **1st Class – September 9th – 13th**
- **2nd Class – September 23rd – 27th – some seats available to companies that have not yet attended the class**
- **Individuals attending the class must have CPS Energy system credentials**



Approved Pole Attachment Engineering Contractors

- **CPS Energy will be sending each approved engineering company a “User Access Agreement” by September 1, 2019**
- **Each approved engineering company must sign and have it executed by October 1, 2019**
- **If the “User Access Agreement” is not signed by October 1, 2019, they engineering company will be removed from the approved list**

New Internal GIS Web Link



<https://gisweb.cpsenergy.com/Web/index.html?viewer=GISViewer>

The screenshot displays the "GIS Viewer" web application interface. At the top, there is a dark blue header with the "CPS ENERGY" logo on the left, the text "GIS Viewer" in the center, and a "Global Search..." input field on the right. Below the header is a navigation menu with tabs for "File", "Home", "Map", "Tools", and "Tracing". A secondary toolbar contains icons for "Layer List", "Filter", "Upload Data", "Add Layers", "Layer Catalog", "Linked Maps", and "Time Slider". The main content area is a map of an urban area, showing streets like "RIVERWALK ST", "NACIONAL ST", "E NUEVA ST", and "S ALVARO ST". The map is overlaid with green utility lines and various symbols. On the left side, there is a "Layers" panel with a search bar "Filter Layers..." and a list of layers. The "Electric" layer is expanded, showing a list of sub-layers with checkboxes: Primary Meter, Bus Bar, Transformer, Voltage Regulator, Riser, Street Light, Support Structure, SubStation, Underground Structure, Primary, Secondary, Conduit System, Transmission, and Landbase. A scale bar at the bottom of the map indicates 0, 100, and 200 feet. In the bottom right corner, there is a small text string: "BCAD, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT.P, USGS, EPA, USDA".

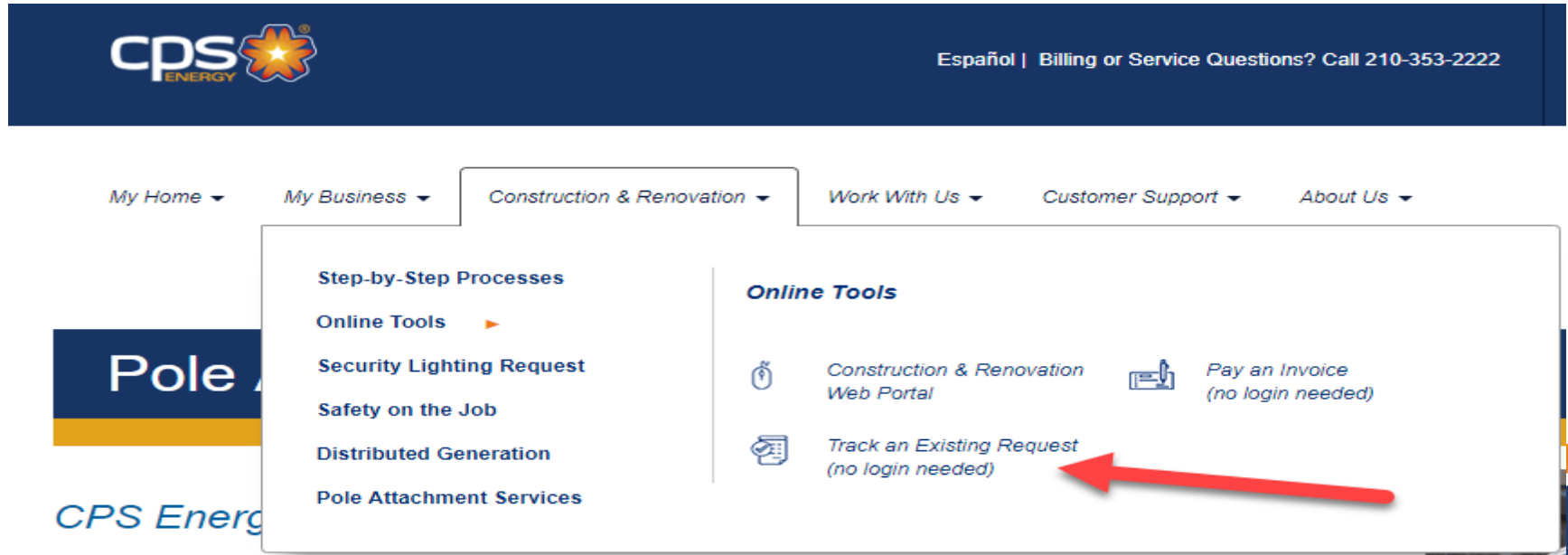
Submitting Pole Applications via BCA coming in January 2020



- **Business Case Authorization (BCA) via ARM Web Portal Timeline**
- **Mid-September – Mid October**
 - **Internal pilot program**
 - **Prepare Training Documentation**
- **Mid-October – Mid November**
 - **Pilot with Engineering Firms**
 - **Revise Training Documentation if needed**
- **Mid-November – Mid December**
 - **Train Engineering Firms**
- **January 1, 2020**
 - **Go-Live**

New Link For Web-Portal

<https://secure.cpsenergy.com/ceworkstatus/>



The screenshot shows the CPS Energy website navigation menu. The 'Construction & Renovation' dropdown menu is open, displaying two columns of options. The 'Online Tools' section is highlighted with a red arrow pointing to the 'Track an Existing Request (no login needed)' link.

Navigation Menu:

- My Home ▾
- My Business ▾
- Construction & Renovation ▾**
 - Step-by-Step Processes
 - Online Tools ▶
 - Security Lighting Request
 - Safety on the Job
 - Distributed Generation
 - Pole Attachment Services
- Work With Us ▾
- Customer Support ▾
- About Us ▾

Online Tools:

- 🔑 Construction & Renovation Web Portal
- 📄 Pay an Invoice (no login needed)
- 📄 **Track an Existing Request (no login needed)** (indicated by a red arrow)

Application Submittals/Post Inspections

- **Wireless applications must reflect ALL (existing and proposed) the attachments location heights to verify proper clearance are met.**
- **A rejection at any point in the application pre-construction (Field/PLA/GIS) process is a full rejection of the entire application**
 - **QUES/TRC have been understanding due to new design companies and new pole attachment processes**
 - **A REV# submittal will be required whenever application markups are required**
 - **Will restart the 21 or 30 day application timelines**
 - **CPS will not be penalized for missing timelines due to assisting attachers correct applications**
- **Notice of new attachment completion must be submitted within 90 days in order for CPS Energy to do the post inspection and issue the pole attachment permit**

WORK MANAGER

Work Manager Task Structure

- Task 2460 for TRC is now James Stallings – “
- Permit attachments expected at Task 2460
 - Dig Tess (Dig Tess # should also be on the design)
 - Gas Maps
 - SAWS/Water Maps
 - CPS Environmental forms/approvals (notes should be on the design in **RED**)
- Permit attachments expected at Task 5000
 - TXDOT Approval (if necessary)
 - City/County Approvals (if necessary)
- Supervisor role to be assigned to TRC (James Stallings – STJA) on all previous work orders

Attachments for Work Request/Task 40292154-2360

Refresh Date	Attachment File Name	Job Instruction?	Flexible Report?	Web Report? Viewable?	Plotter?	Description	Template Name	Pat
	40292154_2_201905071113_5-07-2019\11_13	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DO NOT USE		\p
	40292154_2_201906051704_6-05-2019\17_04	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DO NOT USE		\p
	40292154_2_201907021335_7-02-2019\13_35	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	READY FOR CONSTRUCTION		\p
	40292154_2_201908071125_8-07-2019\11_25	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DO NOT USE		\p
	519 N Medina - Admin COA, Power Pole Replac	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Certificate of Appropriateness - COA		\p
	591327603_LONE STAR 811.pdf	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	811 TICKET		\p
	EPIC SHEET FINAL FOR CONSTRUCTION w/	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			\p
	GAS MAP.pdf	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CPS GAS MAP		\p
	InternetMail_SADT_MORALES_HAVEN_SC Env	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ENVIRONMENTAL CHECKLIST EMAIL		\p
	REC_156580.pdf	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SAWS RECYCLE MAP		\p
	SWR_156580.pdf	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SAWS SEWER MAP		\p
	WTR_156580.pdf	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SAWS WATER MAP		\p

OK New From... Attach File... Copy Attachment... Delete Refresh Open Help

WIRELINING ATTACHMENTS

Temporary Attachment Request

- **Approved engineering company to coordinate site meeting with QUES/TRC**
- **Need Request for Temporary Attachment form (B7) filled out prior to site visit and**
- **Temporary attachment form needs signatures approving the request by QUES/TRC**
- **Attach signed form (B7) to Work Manager task 2360**
- **All requests must meet NESC clearances in order to be deemed approved for temporary attachment**
- **Pole application must also be submitted with the proposed attachment height for each temporary attachment for CPS Energy to review**

Process Standards

- **Attachers must inform CPS/Contractors when fiber construction is complete**
- **Auto-post-fiber-inspection will be implemented if no post construction communication has been sent to QUES/TRC**
- **Wireline routes should follow existing CPS Energy pole line**



AT&T Approval Letter



- **AT&T approval letter must also be saved in Work Manager Task 2360 as “AT&T Pole Replacement Approval”**
- **Work Request detail must reflect Project “E-0069” in Work Manager**

February 06, 2019

Extenet Systems Inc.
Don Couch
Ronnie Teaff

RE: Occupancy Permit

Customer Application: SA015
Occupancy Permit: 2018-CS-TX-010175
Location: SAN ANTONIO, TX 78205
Project Number: A01G7Y2
Permit Date: 2/5/2019

AT&T has confirmed that the structure(s) is available for your use.

This is your approved occupancy permit. You have 12 months to complete your construction work.

Once your work is completed please fill out and return the attached Applicant Notice of Completion form and send it to BRIAN BEDNARZ, who can be reached on 210-729-8410. BRIAN BEDNARZ will make the necessary arrangements to have the post inspection work completed.

Rental will be billed on Extenet Systems Inc. account for Texas. Per your occupancy request, our records will reflect an occupancy of the following.

Structure Type	Permit Quantity
Pole	1

If either the permit quantity or billing account is not correct, please notify us immediately, via email at: BB1306@att.com. Any unreported or unauthorized occupancy will be immediately subject to the appropriate penalty fines and removal actions as described in the associated tariff or agreement for the state involved.

Identification tags are required on your facilities at each point of contact (at each pole or manhole). The failure to install these identification tags may result in the inability to notify you in the event of a major failure or structure relocation.

Thank you,

BRIAN BEDNARZ
Manager - Structure Access
Attachments

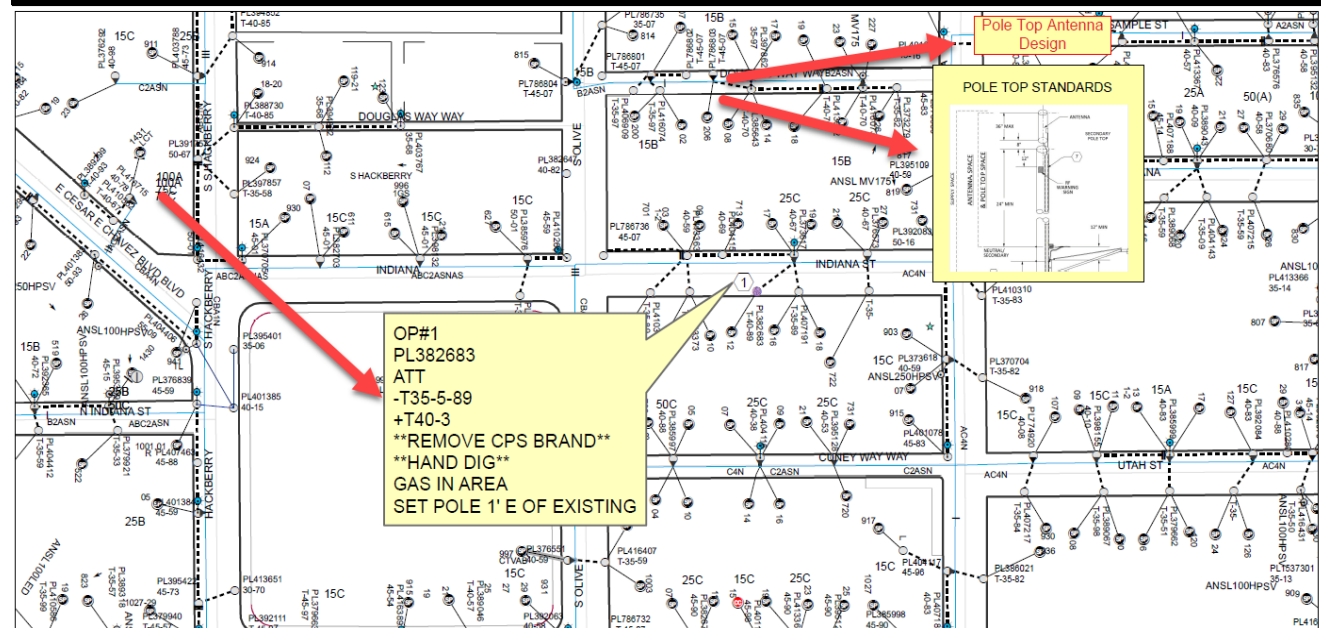


AT&T Pole Replacements



- AT&T pole change out must be on Work Request Project Type E-0069

<p>CONSTRUCTION COMPLETED BY: _____ DATE: _____</p> <p>FERG MAP PAGE 617-B7</p>	<p>OVERHEAD ELECTRIC DESIGN</p> <p>PROJECT # E-0069</p> <p>40280542 WIRELESS 714 INDIANA ST #ANT</p> <p>RLIEBCHEN 210-679-2915 3/14/2019</p> <p>MGARCIA 210-245-3742 4/15/2019</p> <p>Job Description: WIRELESS EXTENET MAKE READY(1)</p> <p>ADDRESS: 714 INDIANA ST ANTONIO, TX</p> <p>DATE: _____</p> <p>SCALE: FSD</p> <p>X 2136889 Y 13696752 Z454 1" = 100'</p> <p>ESTIMATED MAN HOURS SKETCH SIZE 11 X 17 1" = 100'</p>	<p>Seal</p> <p>NO SEAL REQUIRED</p>	<p>Outages</p> <p>NO OUTAGES REQUIRED</p>	<p>Locates & Permits</p> <p>CPS APPLICATION AND PROJECT MAP ATTACHED AT TASK 2360 IN WMS</p> <p>NOTIFY COSA CLERK'S OFFICE PRIOR TO CONSTRUCTION OF PROJECT BY CALLING (210) 207-6949</p> <p>SAWS & CPS GAS MAP ATTACHED AT TASK 2360</p> <p>DIG TESS#1956304704 DATE: 3/6/2019 AT OP#1</p>	<p>Environmental Notes</p> <p>ENVIRONMENTAL CHECKLIST & APPROVAL ATTACHED AT TASK 2360</p>	<p>Miscellaneous Notes</p> <p>CONTACT DESIGNER 48 HRS PRIOR TO CONSTRUCTION AT (210) 679-2915 OR RLIEBCHEN@TXUE-INC.COM OR SUPERVISOR AT 210-245-3742 MGARCIA@CPSENERGY.COM</p> <p>***HAND DIG OP#1** GAS IN AREA SET POLE 1'E OF EXISTING</p>	<p>Field Meeting Notes</p> <p>ATT WORK REQUIRED AT OP#1</p>	<p>Associated Work Orders</p> <p>WR#40253731</p>	<p>North Arrow</p>
	<p>OP#1</p> <p>ATT</p> <p>-T35-5-89</p> <p>+T40-3</p> <p>**REMOVE CPS BRAND**</p> <p>**HAND DIG**</p> <p>GAS IN AREA</p> <p>SET POLE 1'E OF EXISTING</p>								



WIRELESS ATTACHMENTS

Post Construction Inspections

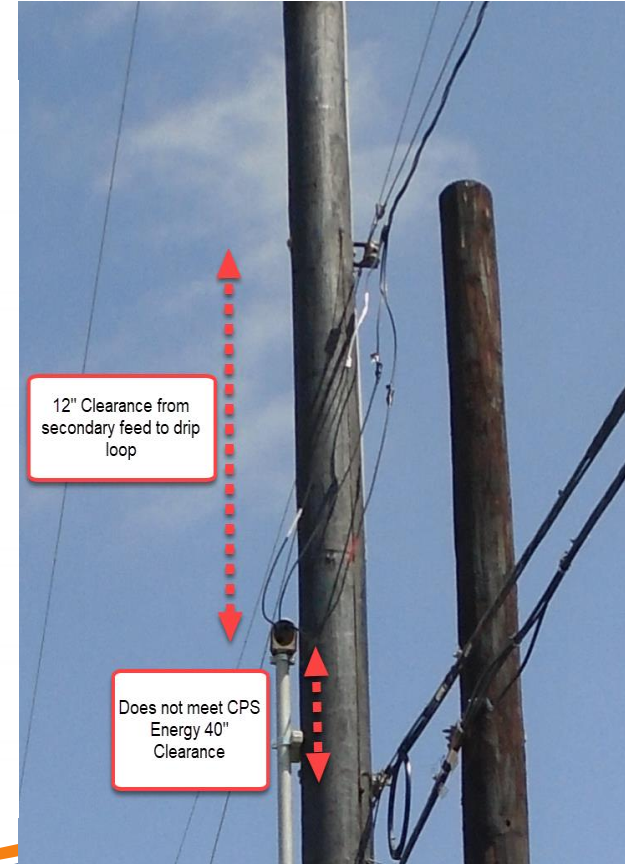
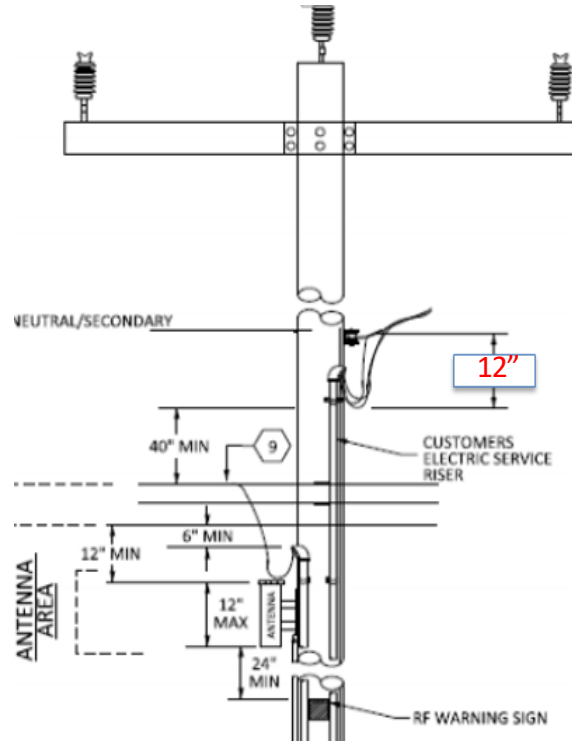


- **Wireless providers need to notify CPS Energy to do the post inspection of the wireless antenna installation**
- **Wireless antenna installations must mirror the approved mock up installation or will be rejected**



Wireless Antenna Installation Violations

- **Communication companies fiber make ready needs to be done prior to the wireless antenna installation**
- **Clearance violations due to weather head installed to low**
 - 40" clearance not met to the communication companies
- **Pole attachment services needs to do the post inspection "in parallel" with getting COSA DSD inspection**



Downtown Underground Fed Streetlights Update



- **Sitewalks have been scheduled by the wireless providers this week**
- **HDRC hearing is scheduled for August 21, 2019**
- **Each provider will be allowed to do up to 3 sites in the downtown corridor for the pilot project if approved August 21**
- **CPS Energy will do a mock up at our EDS training yard**



Downtown Underground Fed Streetlights- Next Steps

- Team will build a proposed timeline for the pilot project
- Team must continue to work with Valmont on finalizing the Underground Streetlight and base shell for each provider to start production
- CPS Energy will start hosting weekly meetings with all teams (please email timeslot for your team if not done so)



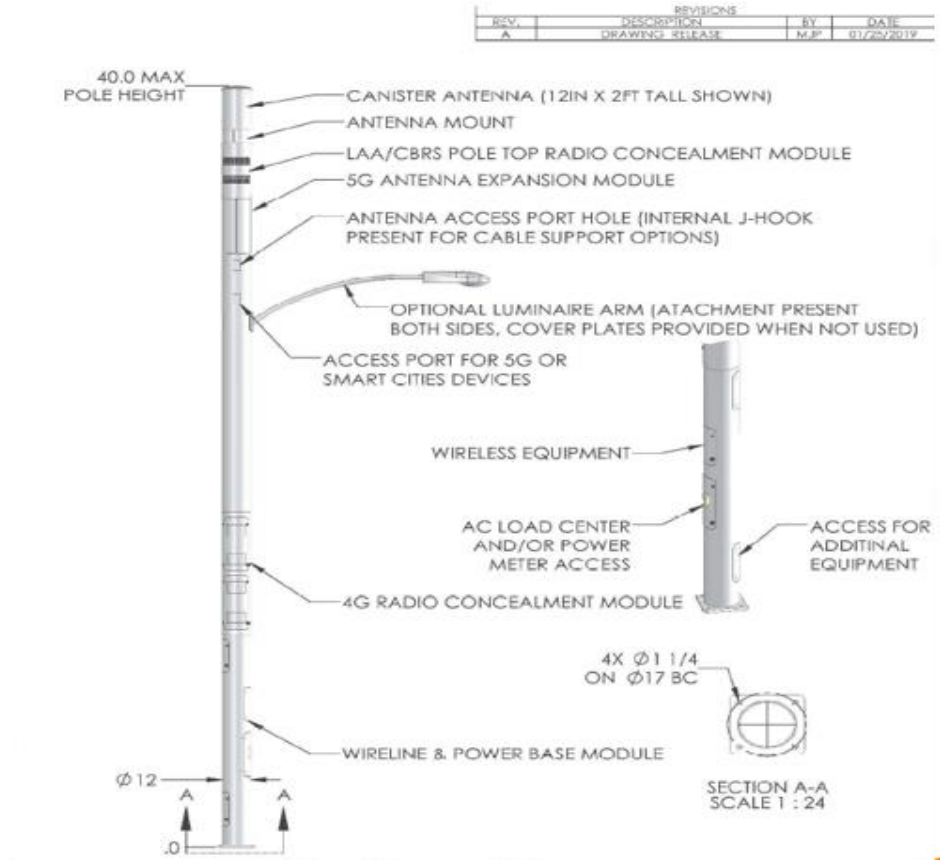
Smart Meter Updates

- **CPS Energy metering team has completed the smart meter communication/interference testing for both the composite and metal base shell**
- **HDRC to approve the 10.75" rise before Valmont can manufacturer the base shell**
- **Finalize the Valmont photosim for each provider with the 10.75" riser**
- **PG&E has completed the 100 Amp smart meter and is now available for ordering**
- **CPS Energy metering team to mock up the new shell with all the metering and providers equipment**



Residential – 12" Base option (5G antenna) Update

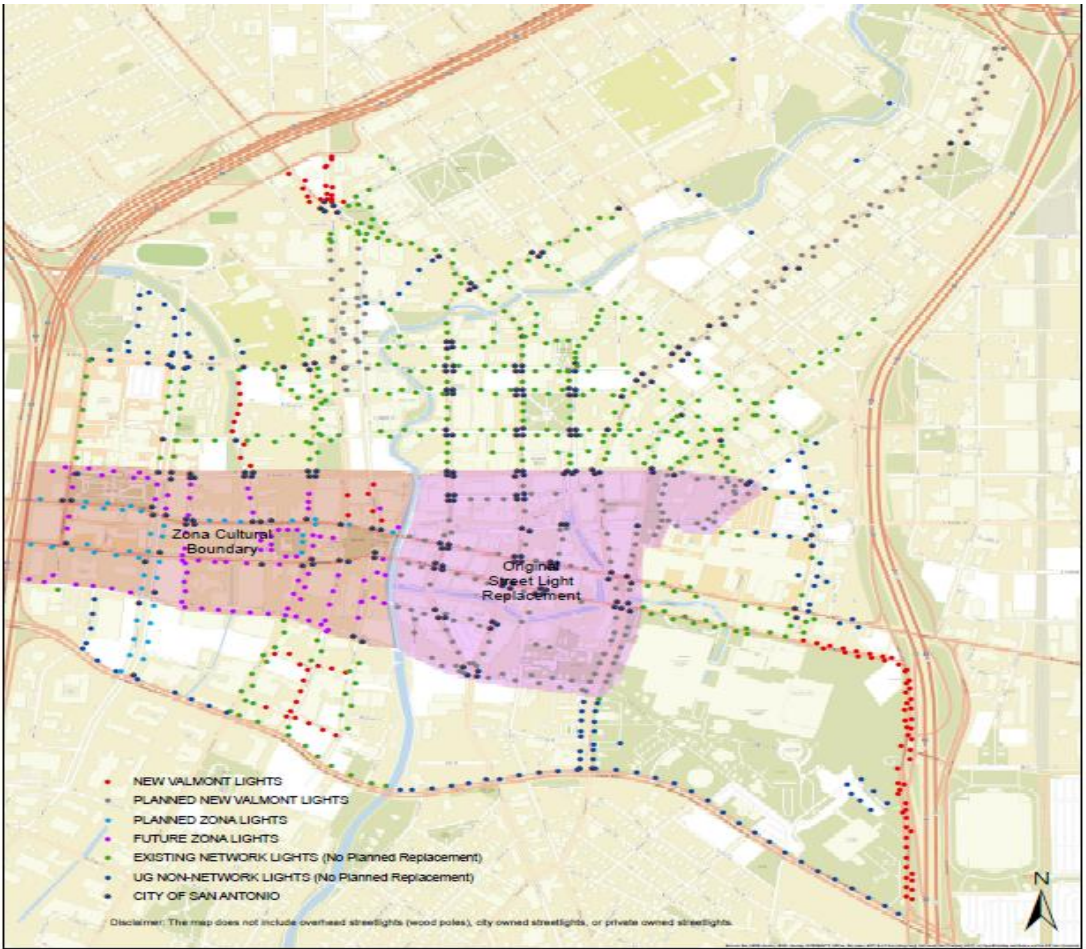
- Pending mock up installation at our EDS training grounds



Downtown Zona Cultural Streetlight

- **Would this light accommodate a wireless antenna installation?**
- **What is the wireless providers concerns/input**





DOWNTOWN STREET LIGHTS

Smart Meter - Pilot Project Status Update



- Team 1 completed their wireless antenna/recycle bin installation for both sites
- Team 2 projecting to complete first site by January 1, 2020. Site 2 is pending traffic light pole modifications per COSA traffic request



Pilot Project – Lessons Learned

- **Timeline delays**
 - **Traffic light design approval**
 - **Recycle bin design approval**
- **CPS Energy manhole surveys were only allowed after hours at night**
- **Moratorium - limited time frames for construction**
- **Environmental – Archeological review / approval**
- **Traffic light pole manufacturing lead time**



Questions?





Thank You