



WELCOME

**CPS Energy
Quarterly Pole Attachment
Workshop**

July 26, 2018

Confidential Information Property of CPS Energy

HOUSEKEEPING



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



SAFETY



https://www.youtube.com/watch?v=IYLRT0Y_jEk

TODAYS AGENDA



CPS Energy
Quarterly Pole Attachment Workshop - July 26, 2018

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"> • Pole attachment approved contractors update • Job Sketches • Work Manager-Designer Responsibility • Pole Attachment Dashboards 	Jesse Lopez	9:15 – 9:45 am
4	Wireline Attachment Topics <ul style="list-style-type: none"> • Primary to Neutral Standard • NJUNS Training Update 	Jesse Lopez	9:45 – 10:15 am
5	Wireless Attachments Topics <ul style="list-style-type: none"> • Mock ups • Small Cell applications • Pilot project status update/next steps 	Jesse Lopez	10:15 – 10:45 am
6	Open Discussion / Questions	Attendees	10:45 – 11:00 am
7	Final Wrap-up	Jesse Lopez	
8	Adjourn		

GENERAL TOPICS

APPROVED CONTRACTORS UPDATE



- 3RD Party attacher must submit the request for the pole attachment engineering contractor.
- CPS Energy legal is drafting an engineering agreement/contract for all current and future companies approved for pole attachment engineering contractors list.
 - Safety concerns in regards to contractors working in CPS Energy's GIS system.
- Engineering companies will need to notify CPS Energy as soon as an employee is no longer employed with the company to terminate that employees access to CPS Energy systems.

Engineering

- 1. Alan Plummer ★★★★★
- 2. BHC Rhodes ★★★★★
- 3. Byers Engineering ★★★★★
- 4. CCE Services, Inc. ★★★★★
- 5. Cobb Fendley ★★★★★
- 6. DeBauche Communications & Consulting Services, LLC ★
- 7. Merrick & Company ★★★★★
- 8. New Comm Technologies ★★★★★
- 9. PhaseLink Utility Solutions ★★★★★
- 10. Power Engineers, Inc. ★★★★★
- 11. Spectrum ★★★★★
- 12. Telecom Staffing, LLC ★★★★★
- 13. TDC2, LLC ★
- 14. Texasutility Engineering, Inc. ★★★★★
- 15. TRC, Inc. ★★★★★
- 16. Quanta Utility Engineering Services (QUES) ★★★★★
- 17. Utilis Engineering ★★★★★

Electrical Distribution Construction

- 5-Star Electric
- Canfer Utility Services
- Chain Electric
- T&D Solutions
- Pike Electric
- L.E. Myers Co

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

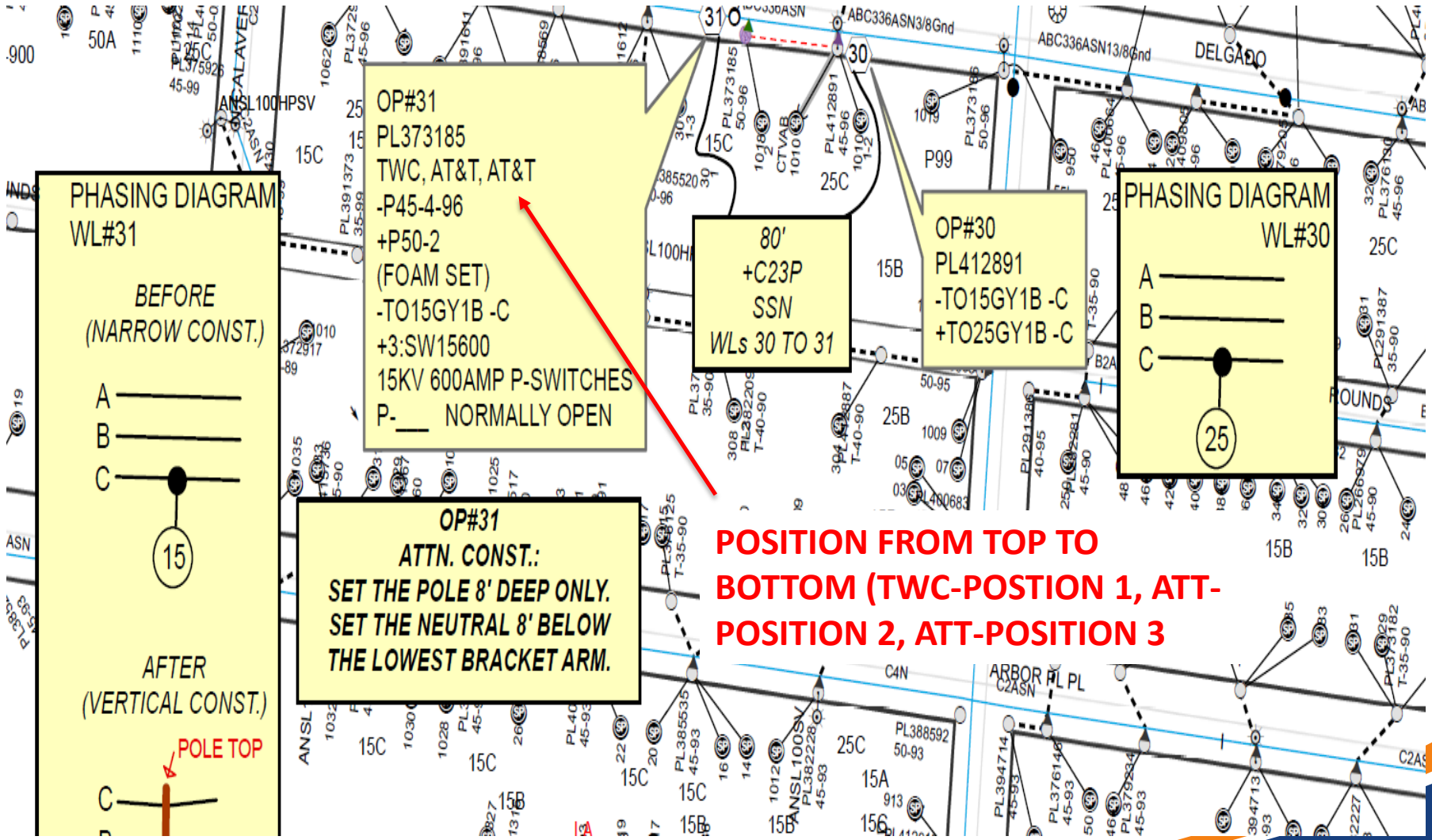
★ Option 1: Pole Loading Analysis (PLA) & Application submittal

★★ Option 2: Make ready engineering

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

JOB SKETCHES – COMMUNICATION COMPANY IDENTIFICATION

JOB SKETCHES



POSITION FROM TOP TO BOTTOM (TWC-POSITION 1, ATT-POSITION 2, ATT-POSITION 3)



CONSTRUCTION COMPLETED BY:

DATE:

CONST CTR:

FERG MAP PAGE 615-A3,D7.F5

OVERHEAD ELECTRIC DESIGN		PROJECT #	T-0235
WORK REQUEST NO	WORK REQUEST TITLE ADDRESS		
40158560	R221 MERIDA ST OVERHEAD REMOVAL		
PLANNED BY	PHONE	DATE PLANNED	NOTES
J. Brookover	210-245-3748	6/21/2018	OH PRIMARY REMOVAL 31 WORK LOCATIONS
DESIGNED BY	PHONE	DATE REVIEWED	
J. Townsend	3079	289-9254	
SERVICE CENTER		CIRCUIT NO	
SWD			
ELECTRICIAN'S COMMENTS		SCALE	
X:2114993.000000 Y:13696932.000000		R221,R244,R242,	1" = 125'
MURKIN FACILITIES		M124,M163,R171	
CLEAR	NET TO SWITCH	NET TO SWITCH	NET TO SWITCH
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ESTIMATED MAN-HOURS:			

DIG TESS

WL# 1 1856805802 3/7/2018
 WL#26 1857264957 3/13/2018
 WL#31 1857265516 3/13/2018

Notify COSA Clerks' office prior to construction of project by calling (210) 207-6949

TWC (POSITION 1) WORK REQUIRED @:
WLS 28,31

AT&T (POSITION 2) WORK REQUIRED @:
WLS 28,31

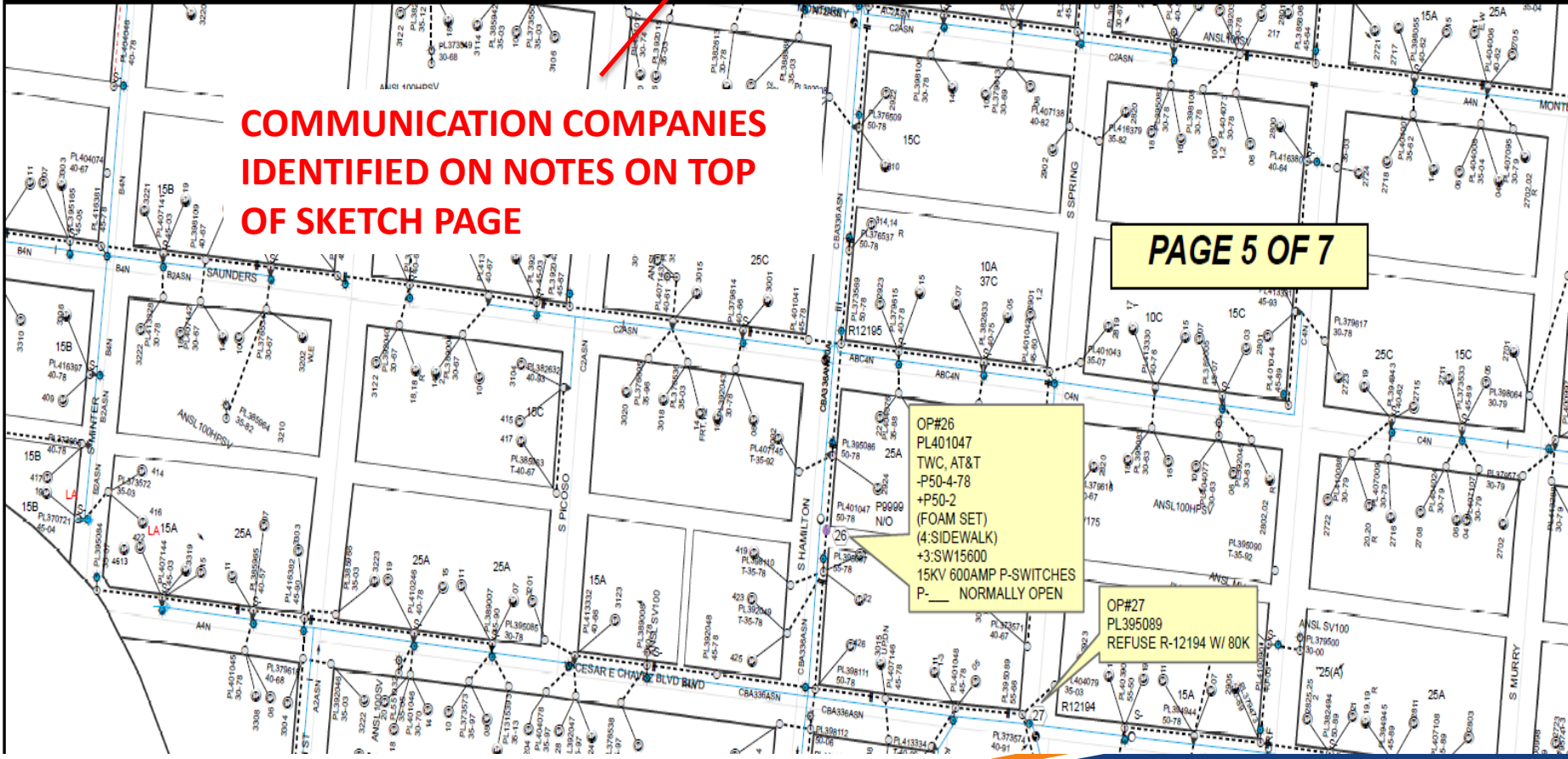
AT&T (POSITION 3) WORK REQUIRED @:
WL# 31

WLS 1,26,31 ARE STAKED. CONTACT JACK BROOKOVER @ 245-3748 48 HRS IN ADVANCE TO HAVE LOCATIONS RE-STAKED

TREE TRIM WORK @:
WLS 14, 19

ENVIRONMENTAL:
 BEXAR CO. KARST ZONE 5 - WLS 1,26,31
 CRAG AREA - WLS 1,26,31

Associated Work Orders:
 WR# 40158561 - OH



DESIGNER RESPONSIBILITY – PAYMENT RECEIVED

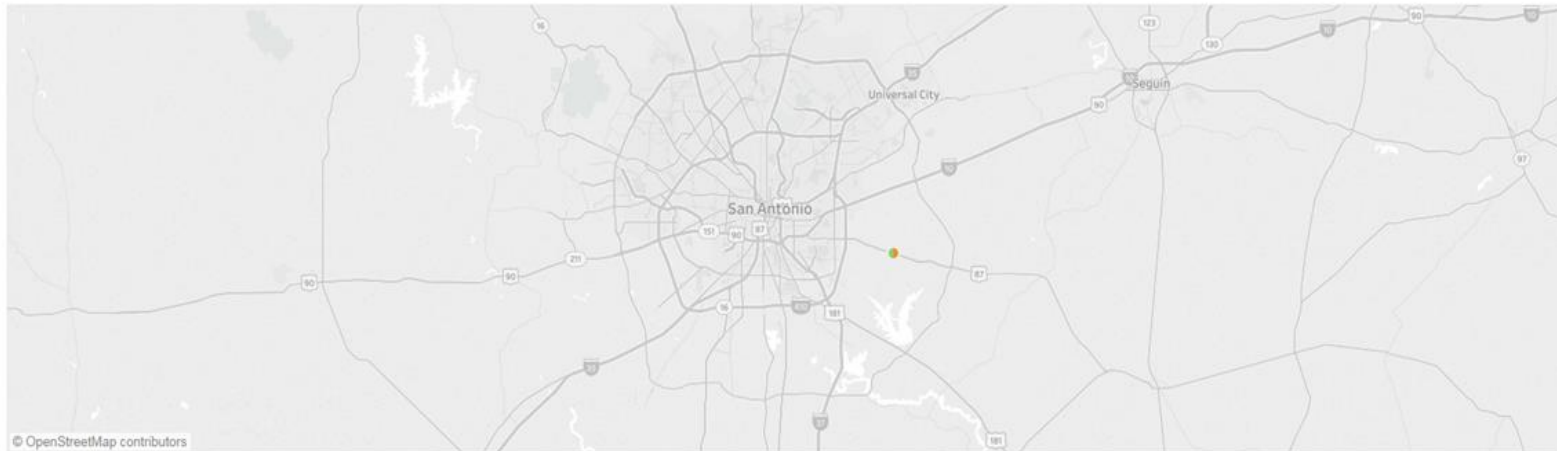


- Task 9200 should stay in “working” status until CPS receives payment for the make ready construction from the attacher.
- Once payment is received and processed by CPS Service Center, **Task 9200 will auto-complete and send an email to the designer.**
- **Designer must notify QUES/TRC supervisor payment has been received and proceed to Task 5000 (Perform Supervisor Approval)**

POLE ATTACHMENT IDENTIFICATION DASHBOARD



Pole Attachments



Facility ID

Attach Owner

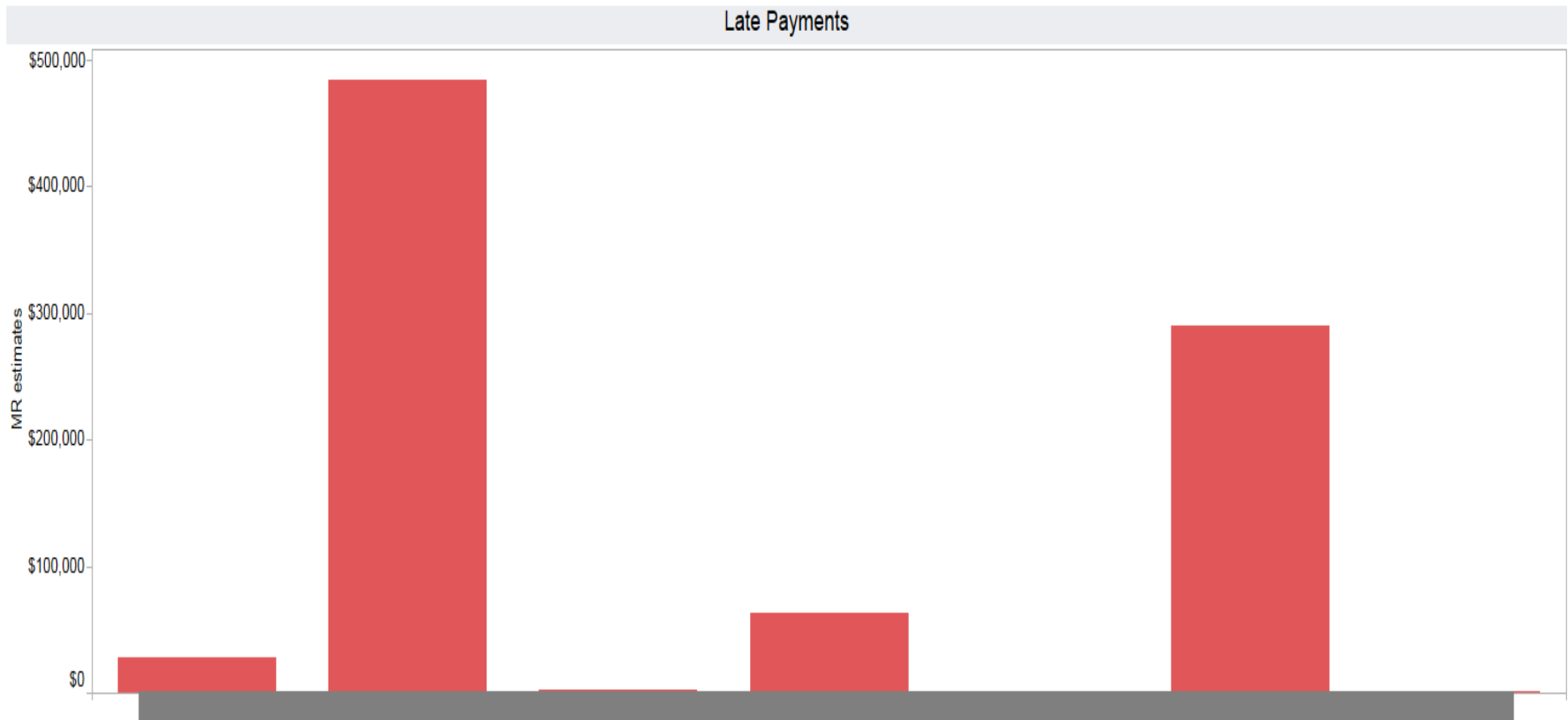
List

Facility ID	Age	Pole Owner	Pole Height	Class	Inspection Date	Attach Position	Attach Owner	Contact Person	Phone Number	Email Address	Tag #
PL1160	8	CPS	50	2	2/23/2017	1	Charter	Frank Cyprian	210-352-4312	frank.cyprian@charter.com	2
								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	3
								Arturo Rodriguez	210-283-1742	ar893@att.com	
								Kent Crow	Null	kc2512@att.com	
						3	AT&T/SBC	Phillip Austin-CIVIC	210-283-1839	pa1657@att.com	3
Arturo Rodriguez	210-283-1742	ar893@att.com									
							Kent Crow	Null	kc2512@att.com		

AUTHORIZATION OF MAKE READY ELECTRICAL CONSTRUCTION



PAYMENT NOT RECEIVED > 15 DAYS



MAKE READY COMMUNICATION & NEW ATTACHMENT CONSTRUCTION



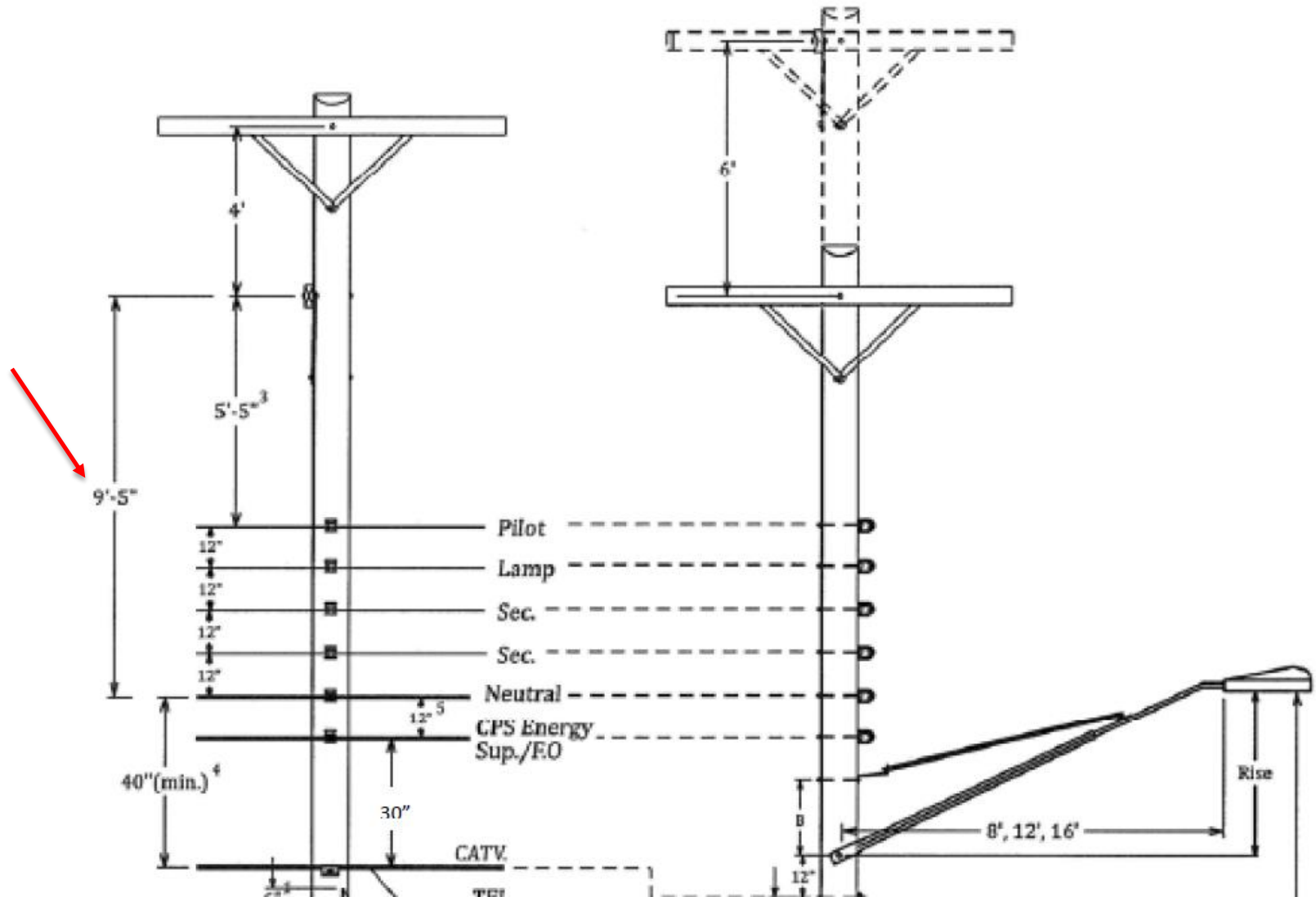
NOTICE TO PROCEED > 90 DAYS

Attacher Construction Graph



WIRELINER ATTACHMENT UPDATE

CPSE - 9'-5" PRIMARY TO NEUTRAL STANDARD





NJUNS TRAINING UPDATE

- REMINDER: All 3rd party attachers MUST register with NJUNS to receive notifications of transfers.
- NJUNS has scheduled a WebEx training for Thursday August 23, 2018.
- CPS Energy will need a list of people to be trained from each attaching entity.
- Attaching entity must sign up through NJUNS prior to the training.
 - <https://attendee.gotowebinar.com/rt/375964098426059011>

WIRELESS ATTACHMENT UPDATE

INITIAL MOCK-UP SMALL CELL INSTALLATIONS



BEFORE AND AFTER EQUIPMENT PROFILES

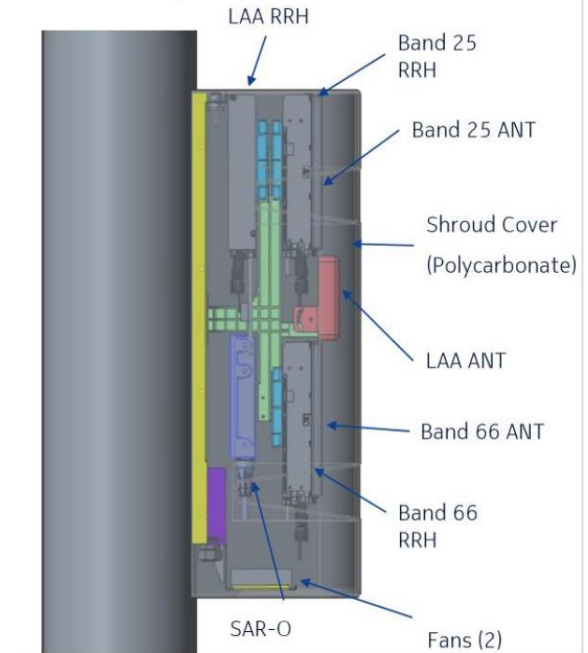


Before



After

Directional Antenna Option



FINAL MOCK-UP SMALL CELL INSTALLATIONS



CURRENT APPLICATIONS SUBMITTED TO CPS ENERGY



- Information needed:
 - Latitude
 - Longitude
 - Installation type (ex: node support pole, pole-top, mid-pole)
- Mobilitie (Sprint)
 - Node Support Pole
 - Pole-Top (CPSE pole)
- ATT Mobility
 - Node Support Pole
- Verizon
 - Node Support Pole
- Extenet (T-Mobile)
 - Mid-Pole (CPSE pole)

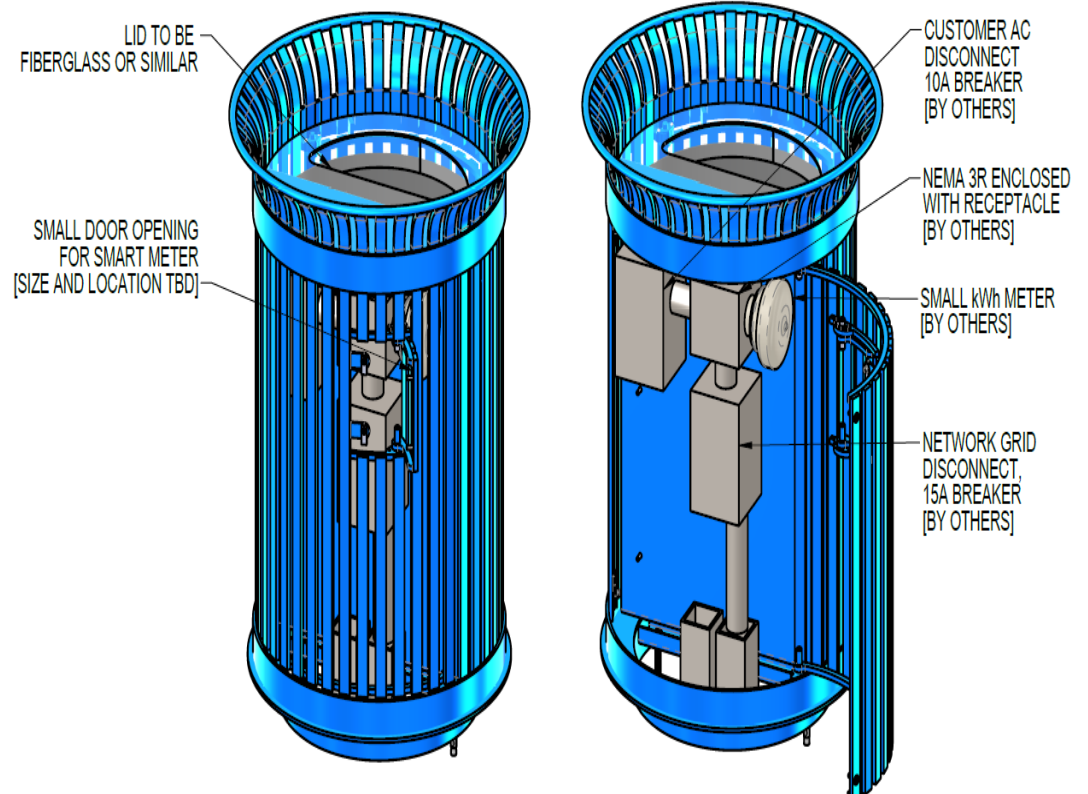


PILOT PROJECT UPDATE

DESIGN PROPOSAL



- Smart meter may be positioned facing upward or sideways in order to accommodate wireless equipment in recycle bin.
- Service and meter must review and approve design.



PILOT PROJECT TIMELINE



- Pilot project is scheduled to be completed by early 2019.

Pilot	Activity	Proposed Start Date	Proposed Completion Date	Actual Start Date	Actual Completion Date	Allowed Days	Owner	Progress	Days Late			
	Project Start	3/28/2018	3/28/2018	3/28/2018	3/28/2018	1	CPSE (PAS)	Completed	0			◆
	Team Creation	3/28/2018	3/31/2018	3/28/2018	3/31/2018	3	CPSE (PAS)	Completed	0			◆
	Shroud Design/Traffic Light approval	4/15/2018	5/15/2018	4/15/2018	6/1/2018	30	All	Completed	17			◆
	Site Walks	5/16/2018	5/30/2018	6/4/2018	6/15/2018	14	All	Completed	-3			◆
	COSA Approvals	6/2/2018	6/16/2018	6/18/2018	Null	14	COSA	In Progress	3		◆	
	Application Submittal (Power)	6/19/2018	7/3/2018	Null	Null	14	Wireless Provider	Not Started	Null		◆	
	Application Approval	7/3/2018	7/17/2018	Null	Null	14	COSA / CPSE (CE)	Not Started	Null		◆	
	Design (UG Network)	7/22/2018	9/2/2018	Null	Null	42	CPSE (Network)	Not Started	Null		◆	
	Make Ready Invoice	9/3/2018	9/18/2018	Null	Null	15	CPSE (CE)	Not Started	Null		◆	
	Make Ready Payment Received	9/19/2018	10/4/2018	Null	Null	15	Wireless Provider	Not Started	Null		◆	
	Wireless / UG Construction	10/5/2018	11/30/2018	Null	Null	56	Wireless Provider/CPSE	Not Started	Null		◆	
	CPSE energize service	12/1/2018	12/15/2018	Null	Null	14	COSA / CPSE Metering	Not Started	Null		◆	
	Project End	12/16/2018	12/16/2018	Null	Null	1	CPSE (PAS)	Not Started	Null		◆	

0% 100%
% Completed

METERING TEAM UPDATE

- Standards and Specification team created the material number for acceptance of the smart meter.
- Testing environment has been completed which consisted of adding load to test communication and interference.
- Billing team will be brought in once we understand the data coming from smart meter.

NEXT STEPS

- Continue to finalize the shroud/traffic light design for wireless providers with COSA and CPS Energy.
- Schedule site walks so everyone is on board and get final approval.
- Wireless providers to start filling out CPS Energy service application with all required information.
- Metering team will start testing and evaluating smart meter data.

QUESTIONS?

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Thank You..

San Antonio, Texas