



## **ELECTRIC DEPARTMENT**

### **Significant activities for the month of February 2022**

- 4 Streetlights repaired
- 10 Streetlights installed
- 2 Street light removed
- 3 Nightlight verifications
- 4 Permanent meters installed
- 3 Temporary meters installed
- 4 Meters replaced
- 3 Poles installed
- 1 Voltage check

### **In addition to the activities listed above, the Electric Department also:**

- Conducted daily morning safety meetings.
- Conducted daily truck inspections.
- Trimmed limbs and vines from power lines and poles.
- Unloaded transformers and supplies when they come in.
- Inspect/locate ROW permits.
- Conduct warehouse inventory/order supplies.
- 311 Florida Ct. installed service after inspection.
- 4008 Pine Hill, contractor meeting to discuss the meter center locates.
- 1410 Wilkies Point Rd., meet with contractor to verify location of service.
- 206 S Orange Ave. changed out oil leaking pad-mount single phase transformer.
- 4467 S CR 209 removed 3 pot bank to be recondition.
- 1009 Bunker Ave., straightened pole, installed guy wire, and re-sagged wire.

**During the month of February, the Electric Department responded to the following outages:**

02/10/2022 – Between 8:00 a.m. – 8:30 p.m., 205 Bayard St., transformer fuse dropped out because it had a heavy load, 6 customers affected.

02/10/2022 – Between 9:00 a.m. – 9:20 a.m., 3170 Hwy 17, blown fuse replaced, 1 customer affected.

02/15/2022 – Between 1:00 a.m. – 2:30 p.m., Center St & Esplanade Ave., 3 fuse blown feeding a 3 pot-bank, 7 customers affected.

02/15/2022 – Between 2:45 a.m. – 3:45 a.m., 305 Harrison St., blown fuse and fuse door replaced, 5 customers affected.

02/16/2022 – Between 8:00 p.m. – 10:15 p.m., 700 Spring St., blown Lateral fuse, 2 customers affected.

## **Electric Utility Top Consumption Customers (kwh/meter) for February:**

<b><u>NAME</u></b>	<b><u>SERVICE ADDRESS</u></b>	<b><u>KWH</u></b>	<b><u>AMOUNT</u></b>
St. Johns Landing	1408 N. Orange Ave.	264,160	\$32,541.68
BD Of County Commissioner	825 N. Orange Ave.	237,400	\$26,376.40
Clay County Jail	901 N. Orange Ave.	201,760	\$23,444.56
Winn Dixie Stores, Inc	3260 Hwy. 17 N.	148,800	\$17,581.80
Permabase Building Products	1767 Wildwood Rd	138,080	\$15,454.48
Kindred Health	801 Oak St.	130,200	\$15,354.20
Clay County Court House	825 N. Orange Ave.	93,600	\$10,871.60
BD Of Public Instruction	2025 State Road 16	83,200	\$10,305.20
Governors Creek #436	803 Oak St.	79,200	\$10,305.20
Garber Realty/GMC	3340 Highway 17	79,040	\$ 9,487.44
Tamko Roofing Products	914 Hall Park Rd.	74,880	\$ 9,944.88
City of Green Cove Springs	Set Street Lights	66,392	\$ 8,377.39
City of Green Cove Springs	1277 Harbor Road	63,520	\$ 7,004.72
VAC-CON	954 Hall Park Rd.	51,520	\$ 6,219.92
BD Of Public Instruction	Clay High School	46,560	\$ 6,437.36
Pegasus Technologies	932 Pilot Dr.	46,560	\$ 5,478.56
BD Of Public Instruction	1 N Oakridge Ave	46,320	\$ 7,169.12
Coral Ridge Foods	1165 N Orange Ave.	46,000	\$ 5,438.40
BD Of Public Instruction	801 Center St.	45,760	\$ 6,088.56
Green Cove Springs Marina	Pier # 11 & 1	43,200	\$ 5,251.20
Clay County Driver's License	477 Houston St.	41,760	\$ 5,201.36
Direct TV/ATT Services Inc.	512 Center St.	38,880	\$ 4,516.88
Duval Asphalt Products, Inc.	1921 Jersey Ave.	37,800	\$ 7,835.30
BD Of Public Instruction	608 Mill St.	36,560	\$ 5,538.56

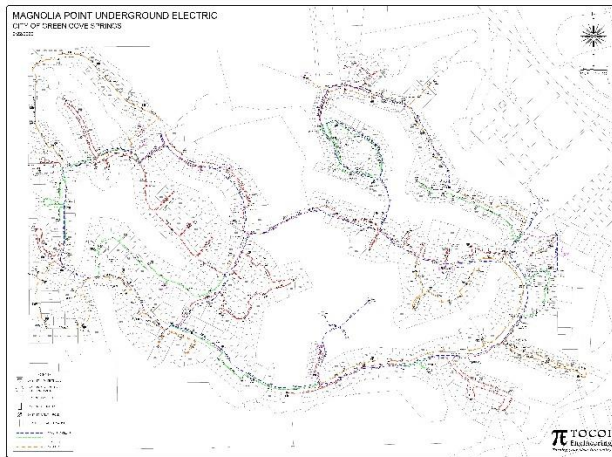
## **Electric Utility Department Capital Projects:**

### **Pole top switch replacement**

This project began 09-18-2019 with the installation of switches at Governors Creek for restoration plan if isolation of north feeder across Governors Creek Bridge during extreme emergencies. Project is now in the inspection and evaluation process involving Chapman 2 extension to Harbor Rd and load transfer of Chapman 1 to Chapman 2.

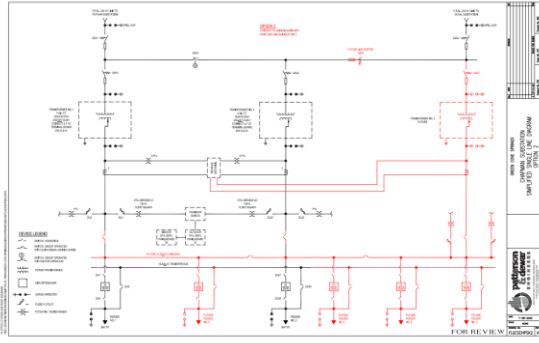
### **Magnolia Point Reconductor**

This project has been reviewed by our new Electric Director and a local contractor and revised. The project will now focus on a brand new 3-phase backbone “ring” through the development with two feeds. This ring will be constructed as phase 1 utilizing a standing contract to bore in new 6” conduit for the entire ring and utilizing a contractor to pull in the new conductor and tie into the existing side roads along the way. The re-design is now completed by our engineer. Conduit and Conductor has been received for phase I and work has begun. Work started on October 11, 2021, with completion expected by Summer 2022.



### **Chapman Substation upgrade**

Patterson & Dewar is the City’s engineering firm for this project. The transformer is now energized with load on it, and we are now in the final stages of installing the new SCADA system on the older transformers. Patterson & Dewar have designed the rest of the improvements to the substation as well as SCADA to be installed throughout the system. Design is complete. The construction was awarded to Terry’s Electric. They arrived on site the first week of January 2021 to begin work at the substation. The substation work is complete, and we are working with Patterson & Dewar to finish up the last testing of the SCADA system before going live. The project should be complete by first part of 2022.



## Chapman 3<sup>RD</sup> Circuit

IRBY Construction began September 21, 2020, and the **PROJECT IS NOW COMPLETE.**



## Chapman 1 / Chapman 2

Express circuit feed project of Chapman 1 to north of Governors Creek (a.k.a. **Magnolia Point Third Feed**) and Chapman 2 extension to Harbor Rd project have been combined to balance future load requirements north of Governors Creek and to supply additional restoration procedure options involving electric outages north of Governors Creek. Conductor had been installed on Roberts St. for Chapman 1 alternate path. City crews are now working on additional new line on south right of way that will enable Reynolds Park load to be transferred from Chapman 1 circuit to Chapman 2. Materials for this portion of the project are being funded by a DEO Grant. **PROJECT IS NOW COMPLETE.**

## Houston St. re-conductor

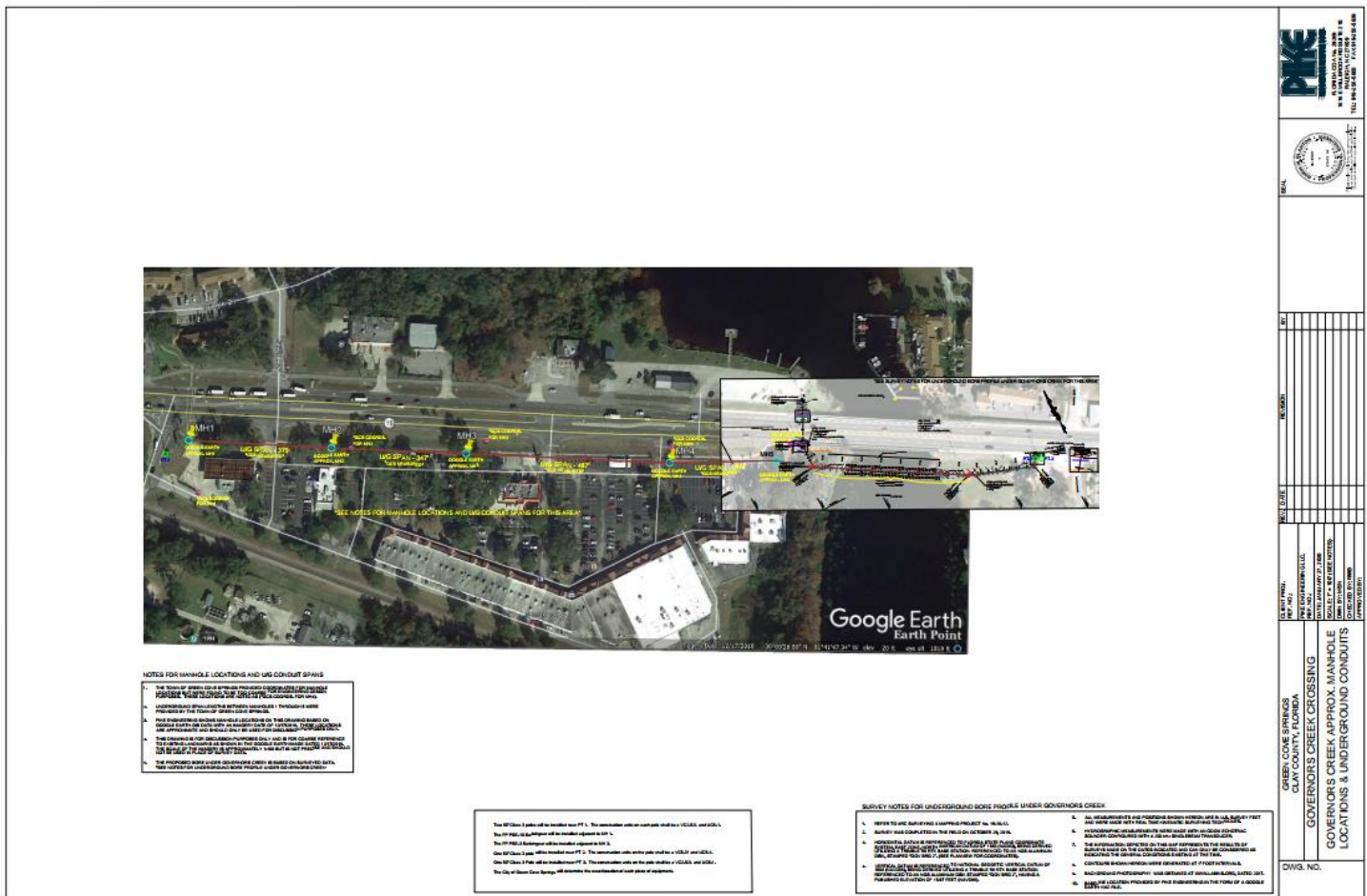
Planning for the reconductoring of Chapman 2 with 477 AAC from Martin Luther King Blvd. to Palmetto Ave. has begun. This will support a second circuit extending north of Governors Creek for restoration involving Magnolia Point, provide an alternate tie between Chapman 1 and Chapman 2 (was not possible before due to conductor size) and support AMMCON, PASS and other future expansion north of Governors Creek. Materials for this project are being funded by a DEO Grant. **PROJECT IS NOW COMPLETE.**

## 13kv to 23kv Conversion – US17 from Harbor Road to CR 315

Planning for this project has begun. This project will continue the Chapman 1 and Chapman 2 circuits north of Harbor Road to provide capacity and reliability for existing and future customers north of Governors Creek. Materials for this project are being funded by a DEO Grant. Materials are ordered and we are awaiting their arrival.

## Governors Creek Hardening Project

This project will allow the overhead conductor crossing Governors Creek to be placed underground from Grove Street to Harbor Road. This project has been split into two phases: (1) design and permitting and (2) construction. It is being 75% funded by a FEMA HMGP grant. Phase 1 is complete. The project is now being evaluated by FDEM and FEMA funding for the construction phase. Once funding is in place and a contract is executed, bidding and construction should take approximately 9 months. This project will also support to extension of Chapman 1 and Chapman 2 circuits north of Governors Creek to provide additional capacity and reliability for all customers north of Governors Creek.



## North and South Substation Improvements

North and South substation sub-station upgrades have begun with directional bore designs completed to install URD 23KV feeds to substation transformers eliminating the possibility of catastrophic failure in the event of lightning or material failure which could cause conductor to fall into existing bus work.