



ELECTRIC DEPARTMENT

Significant activities for the month of July 2022

- 9 Streetlights repaired
- 1 Barn light installed
- 1 Solar reverse meter installed
- 1 Temporary meter installed
- 4 Meters inspected
- 4 Permanent meters installed
- 3 Poles installed
- 1 Pole removed
- 2 Pole inspected
- 3 Voltage check
- 5 Utility Verifications

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.
- Elmore St & St Johns Ave., removed limbs on wires.
- 3288 CR 209, shield lines for maintenance.
- 1 Doctors Dr., add cut outs to 3 phase lateral.
- 4169 CR 15A, removed services for repairs.
- Pine Wood Ct., opened transformer to put in 4-inch pipe.
- 1277 Harbor Rd, assist with digger truck to remove pump.
- 504 North St., re-energize service after repairs completed.
- 1410 Wilkies Point Rd., opened transformer, and cover up for wires to be installed.
- 703 Magnolia Ave., changed cut-out and installed animal protection.
- 1304 Bonaventure Ave., change out x arm, insulators, and LA.
- Center St. & Magnolia Ave., changed out 3 disconnect switches, cut outs on lateral and fused them at the transformer.
- 600 Magnolia Ave., changed out disconnect switches.

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

07/7/2022 – Between 8:30 a.m. – 10:30 a.m., 1410 Wilkies Point Rd., replaced bad transformer, 1 customer affected.

07/8/2022 – Between 5:30 p.m. – 7:40 p.m., 3217 Carlton Ct., lightning blew Lateral fuse, 4 customers affected.

07/11/2022 – Between 4:27 p.m. – 6:00 p.m., 710 Cove St., removed tree that came down on power lines due to weather, 8 customers affected.

07/11/2022 – Between 4:30 p.m. – 7:30 p.m., 500 St Johns Ave., tree came down on power lines due to weather , 20 customers affected.

07/17/2022 – Between 11:23 p.m. – 12:15 a.m., 3198 CR 209 ., replaced blown transformer fuse, 4 customers affected.

07/18/2022 – Between 12:56 p.m. – 4:00 p.m., 1759 Colonial Dr., switch gear equipment failure at Harbor Rd., 200 customers affected.

07/22/2022 – Between 5:45 a.m. – 7:45 a.m.,1517 Ball Rd., blown lateral fuse, 1 customer affected.

Electric Utility Top Consumption Customers (kwh/meter) for July:

<u>NAME</u>	<u>SERVICE ADDRESS</u>	<u>KWH</u>	<u>AMOUNT</u>
St. Johns Landing	1408 N. Orange Ave.	326,390	\$47,702.94
Clay County Jail	901 N. Orange Ave.	300,960	\$40,542.64
BD Of County Commissioner	825 N. Orange Ave.	237,800	\$32,785.20
Kindred Health	801 Oak St.	218,800	\$29,317.20
Winn Dixie Stores, Inc	3260 Hwy. 17 N.	205,000	\$27,879.00
Permabase Building Products	1767 Wildwood Rd	137,600	\$18,818.00
Clay County Court House	825 N. Orange Ave.	111,680	\$15,298.32
Governors Creek #436	803 Oak St.	106,800	\$14,561.20
BD Of Public Instruction	2025 State Road 16	100,200	\$15,441.80
City of Green Cove Springs	1277 Harbor Road	77,760	\$10,160.24
Clay County Driver's License	477 Houston St.	76,000	\$10,821.20
BD Of Public Instruction	801 Center St.	68,640	\$ 9,863.76
Clay Port Inc.	972 Bulkhead Rd (meter B)	66,760	\$ 9,538.04
City of Green Cove Springs	Set Street Lights	66,392	\$ 9,904.41
Tamko Roofing Products	914 Hall Park Rd.	66,080	\$11,911.92
Garber Realty/GMC	3340 Highway 17	65,920	\$ 9,648.88
BD Of Public Instruction	1 N Oakridge Ave	63,840	\$ 9,666.56
Coral Ridge Foods	1165 N Orange Ave.	60,320	\$ 8,309.28
AMMCON CORP	1503 CR 315 Ste 201	51,900	\$ 7,832.60
VAC-CON	954 Hall Park Rd.	51,680	\$ 7,525.92
Pegasus Technologies	932 Pilot Dr.	57,120	\$ 8,764.28
Direct TV/ATT Services Inc.	512 Center St.	47,200	\$ 6,496.40
Race Trac Petroleum Inc.	3106 Highway 17	44,720	\$ 6,106.08
Diamond Assisted Living	3339 Highway 17	44,320	\$ 6,180.88

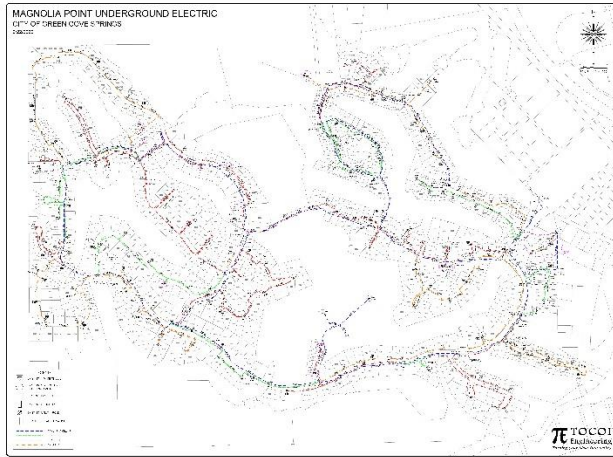
Electric Utility Department Capital Projects:

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.

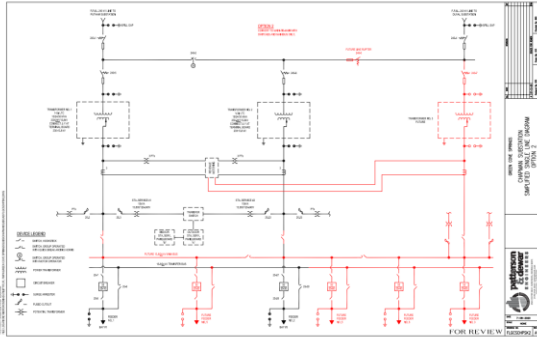
Magnolia Point Reconductor

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 end of 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 fall of 2022.



Chapman 3RD 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

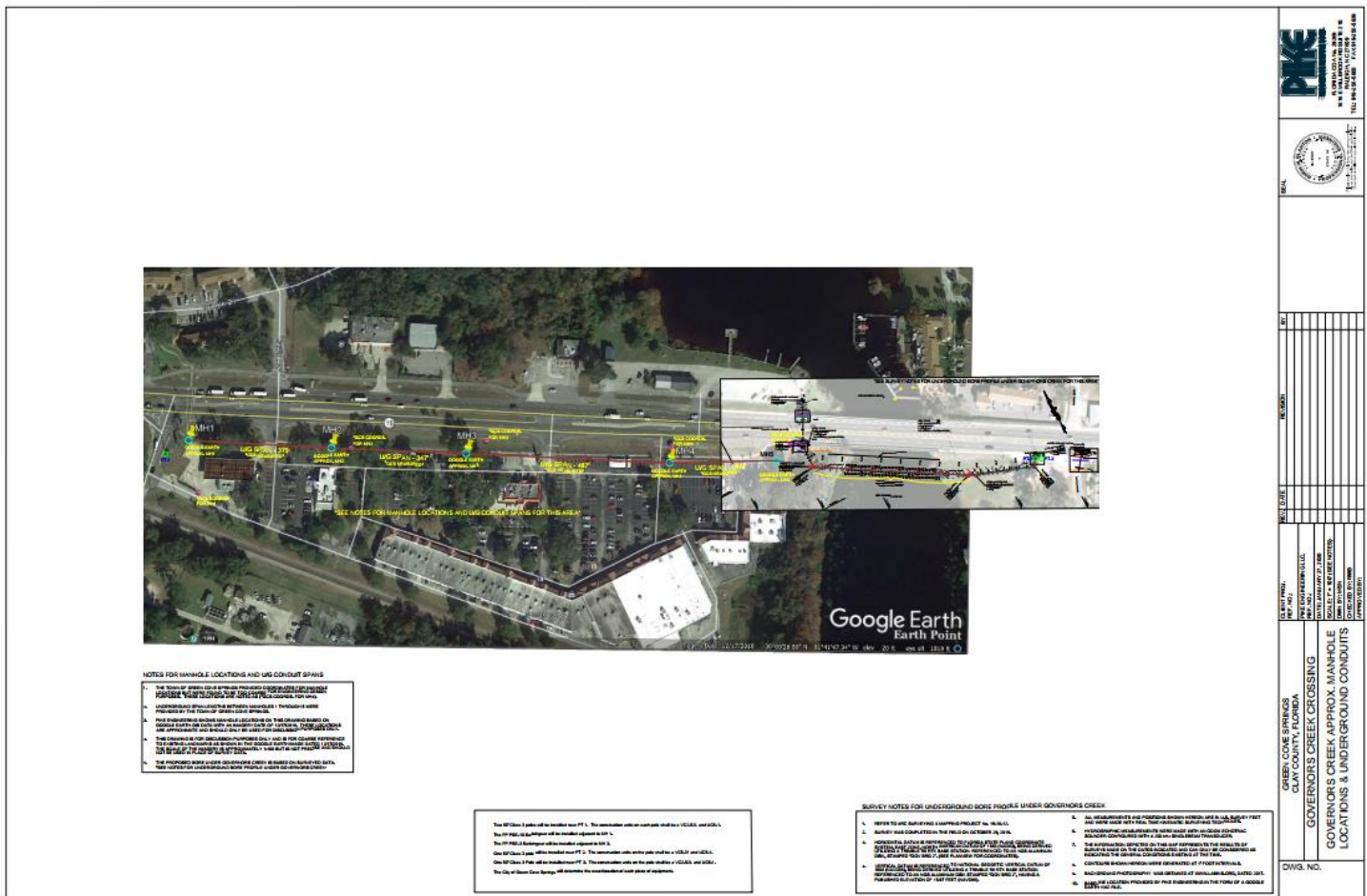
Planning for the reconductoring of Chapman 2 with 477 AAC from Martin Luther King Blvd. to Palmetto Ave. has begun. This will support a second circuit extending north of Governors Creek for restoration involving Magnolia Point, provide an alternate tie between Chapman 1 and Chapman 2 (was not possible 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 have started arriving and we are installing the material as it arrives.

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.