



ELECTRIC DEPARTMENT

Significant activities for the month of May 2022

- 12 Streetlights repaired
- 1 Temporary meter installed
- 2 Meters replaced
- 2 Meters inspected
- 5 Permanent meters installed
- 1 Pole installed
- 4 Poles removed
- 6 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.
- 303 Florida Ct., repaired lines damaged by Davey Tree.
- 232 Walnut St., secured riser guard to pole.
- 3122 Bazley Rd., moved up wire that was too low.
- 1005 Bunker Ave., removed three pot bank on pole, removed cut-outs on dead end feeder pole and installed tri-mount bracket with new 18KV.
- 3254 US 17 N., changed out 25 KVA transformer to conventional transformer.
- 3393 Hwy 17, changed out 50 KVA transformer to dual voltage.
- 3339 Hwy 17, changed out 25kva to dual voltage transformer.
- Magnolia Point, removed breaker from service entrance of Magnolia Point.
- Vera Hall Park, installed CT and CT's meter can.
- 3185 Hwy 17, removed old transformer and switch.
- Magnolia Point, removed reclosure and installed cut-out on C phase.
- 3297 Hwy 17, changed out single-phase transformer and add 45ft primary pole.
- 489 Olive Circle, cut down triplex and removed meter.

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

05/6/2022 – Between 10:42 p.m. – 11:30 p.m., Governors Creek Dr., weather (lightning) blown fuse, 20 customers affected.

05/7/2022 – Between 8:45 a.m. – 9:45 a.m., 1462 Mahama Bluff, blown transformer fuse (squirrel), 1 customer affected.

05/21/2022 – Between 10:00 p.m. – 11:30 p.m., 5 Esplanade Ave., blown transformer fuse (squirrel), 1 customer affected.

05/21/2022 – Between 5:00 p.m. – 9:00 p.m., 4122 Hwy 17 S., burnt up reclosure by lightning, 50 customers affected.

05/22/2022 – Between 7:00 p.m. – 7:30 p.m., 1065 Bulkhead Rd., blown Lateral fuse by lightning, 1 customer affected.

05/31/2022 – Between 8:40 a.m. – 9:40 a.m., 903 & 411 St Johns Ave., refused blown Lateral fuse, 20 customers affected.

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

<u>NAME</u>	<u>SERVICE ADDRESS</u>	<u>KWH</u>	<u>AMOUNT</u>
BD Of County Commissioner	825 N. Orange Ave.	252,200	\$32,418.80
Clay County Jail	901 N. Orange Ave.	248,480	\$31,309.52
St. Johns Landing	1408 N. Orange Ave.	205,740	\$28,030.64
Kindred Health	801 Oak St.	194,800	\$24,309.20
Winn Dixie Stores, Inc	3260 Hwy. 17 N.	155,200	\$20,128.80
Permabase Building Products	1767 Wildwood Rd	152,000	\$18,930.00
BD Of Public Instruction	2025 State Road 16	101,200	\$14,752.80
Clay County Court House	825 N. Orange Ave.	101,120	\$12,772.08
Tamko Roofing Products	914 Hall Park Rd.	96,640	\$14,622.96
Governors Creek #436	803 Oak St.	72,400	\$ 9,539.60
City of Green Cove Springs	1277 Harbor Road	72,000	\$ 8,754.80
City of Green Cove Springs	Set Street Lights	66,392	\$ 9,240.49
Clay County Driver's License	477 Houston St.	60,320	\$ 8,120.88
Coral Ridge Foods	1165 N Orange Ave.	53,440	\$ 6,922.16
Garber Realty/GMC	3340 Highway 17	51,200	\$ 6,977.20
VAC-CON	954 Hall Park Rd.	50,080	\$ 6,855.12
Pegasus Technologies	932 Pilot Dr.	48,240	\$ 6,460.76
BD Of Public Instruction	1 N Oakridge Ave	48,000	\$ 7,424.00
BD Of Public Instruction	801 Center St.	47,840	\$ 6,597.36
Direct TV/ATT Services Inc.	512 Center St.	44,320	\$ 5,751.28
BD Of Public Instruction	Clay High School	42,720	\$ 6,603.68
BD Of Public Instruction	608 Mill St.	39,200	\$ 5,669.20
Duval Asphalt Products, Inc.	1921 Jersey Ave.	38,400	\$ 8,264.60
Race Trac Petroleum Inc.	3106 Highway 17	37,680	\$ 4,830.32

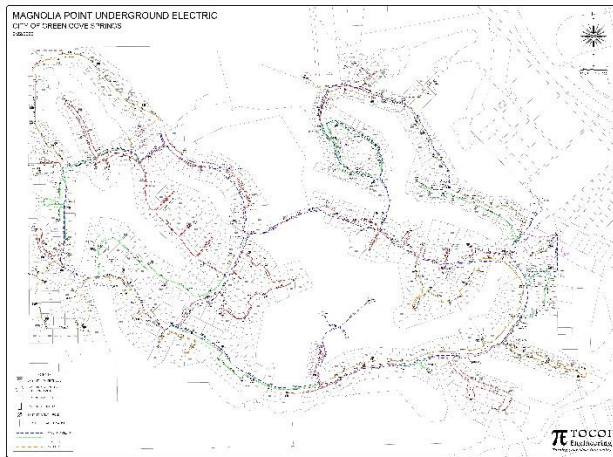
Electric Utility Department Capital Projects:

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.

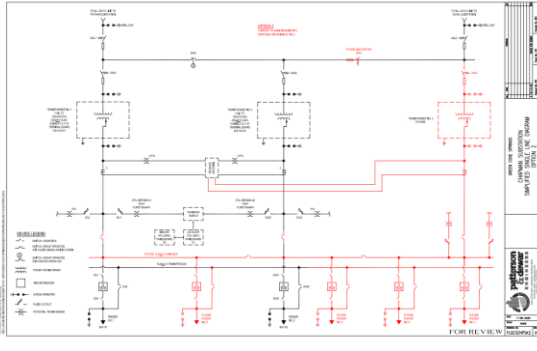
Magnolia Point Reconductor

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.



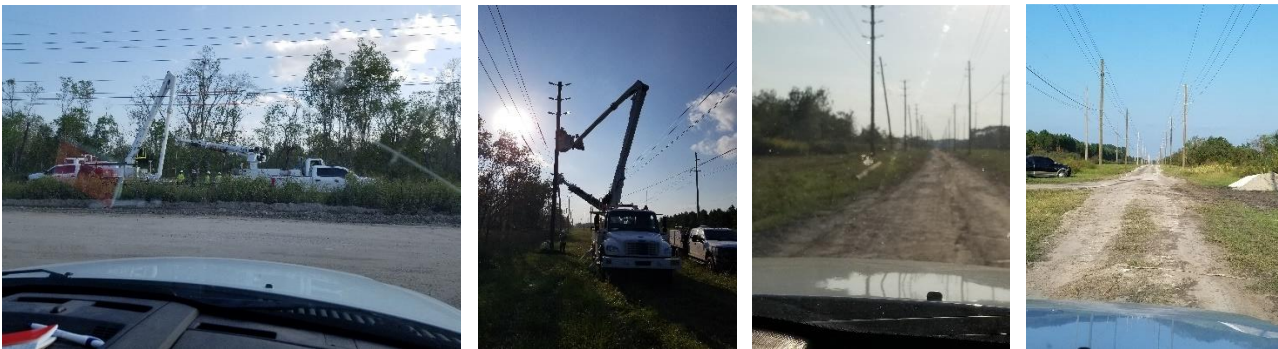
Chapman Substation upgrade

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 the middle 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.

