



ELECTRIC DEPARTMENT

Significant activities for the month of April 2021

- 16 Streetlights repaired
- 1 Demand meter inspected
- 5 Temporary meters installed
- 2 Poles removed
- 15 Poles installed
- 4 Voltage check
- 4 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.
- City Hall, replaced ropes on flag poles.
- 717 S Oakridge Ave., disconnected service in the morning for repairs and reconnected same day.
- 914 Hall Park Rd., labeled all meters at location for billing purposes.
- 608 Mill St., changed out 3 phase pad-mount transformer.
- Hwy 17, removed reclosure on the west side of highway 17 and Cooks Ln.
- 4106 S Oakridge Ave., installed three 600amp disconnect switches.
- Cooks Ln, removed three phase lines over to of Clay Electric along Cooks Ln.
- 825 N Orange Ave., repulled primary to 1000 KVA transformer at the Court House.
- 1100 North St., removed wire down.
- The Cove Subdivision, moved URD primary to new pole and changed box out.
- North Substation, switch out the north substation for new line construction.
- 608 Mill St., repulled primary feed and make up riser pole.
- 914 Hall Park Rd., changed out 3 pot transformer bank due to bad voltage.
- Spring St & Palmetto Ave., removed tree from power lines.

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

04/08/2021 – Between 8:30 a.m. – 9:04 a.m., City Wide., problems with north substation reclosure at Robert St & Melrose Ave, 1,500 customers affected.

04/08/2021 – Between 12:30 p.m. – 1:10 p.m., 3089 Anderson Rd., tree limb and fell and broke primary wires, 15 customers affected.

04/10/2021 – Between 8:30 a.m. – 10:30 a.m., 508 Myrtle Ave., tree limbs fell and broke primary wires, 25 customers affected.

04/11/2021 – Between 1:00 a.m. – 2:30 a.m., 1462 Mahama Bluff., vines in transformer blown fuse, 2 customers affected.

04/14/2021 – Between 9:30 a.m. – 9:45 a.m., 639 St Johns Ave., blown transformer fuse by squirrel, 2 customers affected.

04/17/2021 – Between 2:40 p.m. – 3:45 p.m., 1322 East St., blown transformer fuse, 2 customers affected.

04/18/2021 – Between 2:35 p.m. – 3:20 p.m., 1408 Orange Ave, blown riser fuse by a bird, 1 customer affected.

04/26/2021 – Between 5:00 a.m. – 11:00 a.m., 100 Joey Circle W, bad transformer on the pole, 18 customers affected.

04/30/2021 – Between 4:30 p.m. – 6:00 p.m., 712 Pine St, blown transformer fuse, 12 customers affected.

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

<u>NAME</u>	<u>SERVICE ADDRESS</u>	<u>KWH</u>	<u>AMOUNT</u>
Clay County Jail	901 N. Orange Ave.	258,720	\$23,832.88
St. Johns Landing	1408 N. Orange Ave.	233,680	\$23,651.68
Kindred Health	801 Oak St.	215,800	\$19,130.20
BD Of County Commissioner	825 N. Orange Ave.	196,200	\$18,478.80
Winn Dixie Stores, Inc	3260 Hwy. 17 N.	180,200	\$16,240.80
National Gypsum Company	1767 Wildwood Rd	132,960	\$12,024.24
Clay County Court House	825 N. Orange Ave.	132,960	\$11,725.04
Tamko Roofing Products	914 Hall Park Rd.	116,800	\$11,494.80
BD Of Public Instruction	2025 State Road 16	102,200	\$11,114.80
Governors Creek #436	803 Oak St.	95,600	\$ 9,062.40
Clay County Driver's License	477 Houston St.	81,440	\$ 7,844.56
Garber Realty/GMC	3340 Highway 17	79,680	\$ 6,491.76
City of Green Cove Springs	Set Street Lights	66,392	\$ 6,916.77
City of Green Cove Springs	1277 Harbor Road	63,360	\$ 5,595.44
VAC-CON	954 Hall Park Rd.	57,280	\$ 5,533.12
Coral Ridge Foods	1165 N Orange Ave.	50,000	\$ 4,831.20
City of Green Cove Springs	925 S R 16 East South Wwtp	45,360	\$ 4,243.04
Pegasus Technologies	932 Pilot Dr.	45,120	\$ 4,602.48
Race Trac Petroleum Inc.	3106 Highway 17	43,840	\$ 3,994.56
Direct TV/AT&T Services Inc.	512 Center St.	43,520	\$ 4,004.88
Ammcon Corp.	1503 County Road 315 Ste 201	42,300	\$ 4,378.70
Duval Asphalt Products, Inc.	1921 Jersey Ave	39,300	\$ 7,140.20
BD Of Public Instruction	801 Center St.	38,720	\$ 4,125.68
BD Of Public Instruction	1 N Oakridge Ave	38,400	\$ 2,891.60

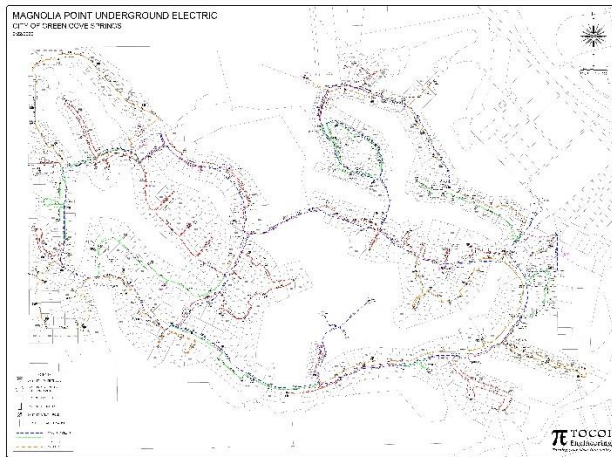
Electric Utility Department Capital Projects:

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.

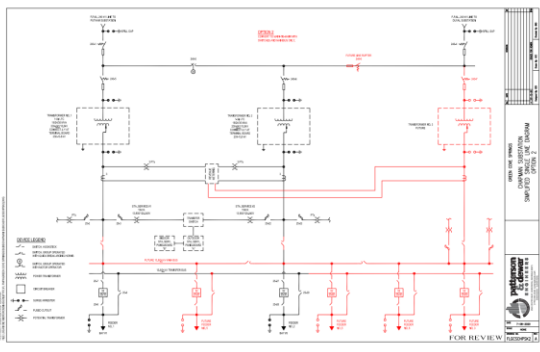
Magnolia Point Reconductor

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 feeds along the way. The re-design is now being completed by our engineer. Conduit and conductor for phase I has been ordered. Work is expected to start in July 2021 with completion by Summer 2022.



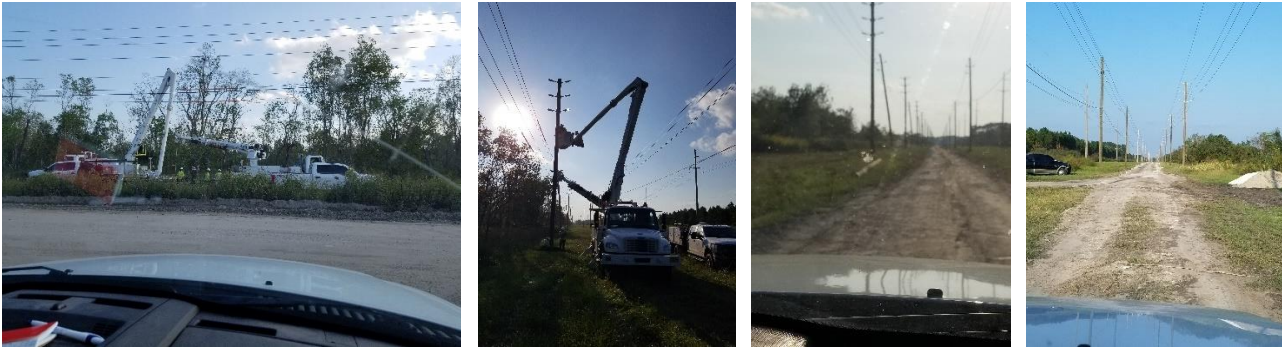
Chapman Substation upgrade

Patterson and Dewar is the City’s engineering firm for this project. The transformer has been specified and ordered. Patterson and Dewar is designing 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 new transformer is set to be delivered February 23, 2021. The project should be complete in July 2021.



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.

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.



NOTES FOR MANHOLE LOCATIONS AND UG CONDUIT SPANS

- The location of manholes and underground conduits shall be as shown on this plan. The location of manholes and underground conduits shall be as shown on this plan. The location of manholes and underground conduits shall be as shown on this plan.
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The City of Green Cove Springs will be installed near PT 1. The manhole will be a 60" dia. manhole and will be installed near PT 1. The manhole will be a 60" dia. manhole and will be installed near PT 1. The manhole will be a 60" dia. manhole and will be installed near PT 1.

UTILITY NOTES FOR UNDERGROUND BORE PIPES UNDER GOVERNORS CREEK

- Underground bore pipes shall be installed as shown on this plan. The location of underground bore pipes shall be as shown on this plan. The location of underground bore pipes shall be as shown on this plan.
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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.

PK&E
 PROFESSIONAL ENGINEERING
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DATE: 10/12/2011
 TIME: 10:00 AM
 PROJECT: GREEN COVE SPRINGS
 DRAWING NO.: 11000-0000-0000
 SHEET NO.: 11000-0000-0000

PROJECT: GREEN COVE SPRINGS
 COUNTY: FLORIDA
 PROJECT TITLE: GOVERNORS CREEK CROSSING
 DRAWING TITLE: GOVERNORS CREEK APPROX. MANHOLE LOCATIONS & UNDERGROUND CONDUITS

DWG. NO.: