



## **ELECTRIC DEPARTMENT**

### **Significant activities for the month of December 2020**

- 8 Streetlights repaired
- 6 Permanent meters installed
- 1 Temporary meter installed
- 1 Demand meter installed
- 2 Meter checks
- 7 Poles removed
- 4 Voltage check
- 1 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
- 1632 Harring St., made repairs to the meter.
- 1114 St Johns Ave., installed surge suppressor.
- 520 Oak St., removed service for demolition.
- 100 S Vermont Ave., set pole on lot line and move secondary wires to new pole.
- 1201 Martin L. King Jr. Blvd., inspected riser pole.
- 3070 Gosman Rd., inspected solar meter for accuracy.
- 1 Oakridge Ave., inspected some cables at the school.
- 609 Martin L. King Jr. Blvd., reconnected service to the location.
- 1253 Pleasant Rd., adjusted low hanging wire to the house.
- 1428 Rosecrans Ln., disconnected services for demolition.
- 205 Spring St., replaced lighting in old police department parking lot.
- 435 Olive Cir., removed night light.
- 1015 Spring St., disconnected power and opened boxes for repairs.
- 229 Walnut St., installed electric panel, connected and made hot for Christmas trees.
- 723 N Magnolia Ave., moved electric pole to opposite side of the driveway.
- 979 Worthington Ave., disconnected power for repairs to be done.

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

12/03/2020 – Between 8:45 a.m. – 10:45 a.m., 201 Park St., blown transformer, 6 customers affected.

12/04/2020 – Between 8:00 a.m. – 8:45 a.m., 920 Bay St., burn stirrup, 1 customer affected.

12/11/2020 – Between 5:00 p.m. – 5:30 p.m., 208 Park St., blown transformer fuse by squirrel, 4 customers affected.

12/13/2020 – Between 7:45 a.m. – 9:05 a.m., 422 St Johns Ave., blown transformer fuse by squirrel, 3 customers affected.

12/14/2020 – Between 4:43 p.m. – 5:45 a.m., 3974 E CR 16A, blown transformer fuse by squirrel, 2 customers affected.

12/24/2020 – Between 10:55 a.m. – 12:30 p.m., 3776 Randall Rd., blown lateral fuse not obvious cause, 5 customers affected.

12/24/2020 – Between 10:20 p.m. – 10:50 p.m., entire City was out due to apparent transmission outage on FPL lines.

12/25/2020 – Between 1:00 a.m. – 4:00 a.m., 3203 CR 209., burnt up triplex wire, 4 customers affected.

12/25/2020 – Between 11:50 a.m. – 12:20 p.m., 1739 Elsie St., blown transformer fuse, 4 customers affected.

12/25/2020 – Between 12:30 p.m. – 2:30 p.m., 304 S Highland Ave., tree broke service at the pole, 1 customer affected.

12/26/2020 – Between 12:15 p.m. – 1:45 p.m., 3293 Shinnecock Ln., replaced hand-hole connections, 1 customer affected.

12/27/2020 – Between 6:15 a.m. – 8:00 a.m., 218 N Magnolia Ave., blown transformer fuse, 6 customers affected.

12/27/2020 – Between 9:45 a.m. – 10:00 a.m., 1734 Elsie St., blown transformer fuse, 3 customers affected.

12/27/2020 – Between 9:00 a.m. – 11:30 a.m., 218 N Magnolia Ave., bad transformer replaced, 6 customers affected.

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

<b><u>NAME</u></b>	<b><u>SERVICE ADDRESS</u></b>	<b><u>KWH</u></b>	<b><u>AMOUNT</u></b>
Clay County Jail	901 N. Orange Ave.	263,680	\$23,881.84
St. Johns Landing	1408 N. Orange Ave.	259,080	\$25,958.00
Kindred Health	801 Oak St.	212,400	\$19,067.00
BD Of County Commissioner	825 N. Orange Ave.	209,000	\$18,945.00
Winn Dixie Stores, Inc	3260 Hwy. 17 N.	196,400	\$17,549.20
National Gypsum Company	1767 Wildwood Rd.	132,000	\$11,957.20
Clay County Court House	825 N. Orange Ave.	97,280	\$ 8,919.44
Governors Creek #436	803 Oak St.	96,000	\$ 8,758.00
BD Of Public Instruction	2025 State Road 16	89,000	\$10,338.00
Garber Realty/GMC	3340 Highway 17	85,920	\$ 8,362.16
Tamko Roofing Products	914 Hall Park Rd.	73,920	\$ 9,335.76
City of Green Cove Springs	1277 Harbor Road	72,080	\$ 6,168.64
Clay County Driver's License	477 Houston St.	70,880	\$ 7,019.44
City of Green Cove Springs	Set Street Lights	66,392	\$ 6,850.37
VAC-CON	954 Hall Park Rd.	59,280	\$ 5,751.04
City of Green Cove Springs	925 S R 16 East South Wwtp	51,360	\$ 4,588.08
Coral Ridge Foods	1165 N Orange Ave.	47,840	\$ 4,691.52
Direct TV/AT&T Services Inc.	512 Center St.	44,960	\$ 4,066.48
Pegasus Technologies	932 Pilot Dr.	44,760	\$ 4,602.68
Race Trac Petroleum Inc.	3106 Highway 17	42,640	\$ 3,869.92
Green Cove Springs Marina	Pier # 11 & 1	42,240	\$ 3,813.52
BD Of Public Instruction	801 Center St.	40,640	\$ 4,254.32
Garber Realty/Ford	3380 Highway 17	38,280	\$ 3,915.44
Wen South LLC / Wendy's FL	3266 Highway 17	36,640	\$ 3,690.32

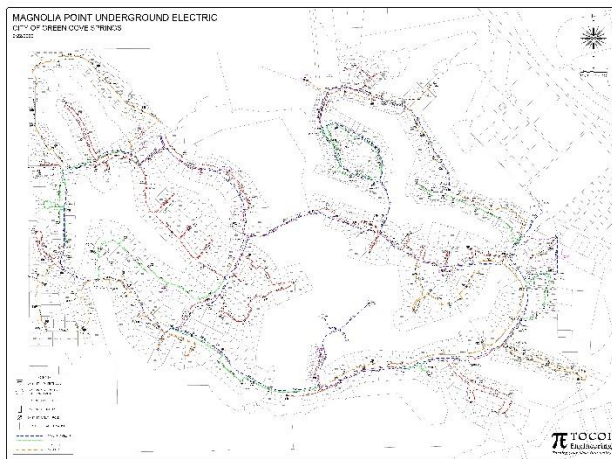
# Electric Utility Department Capital Projects:

## 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.

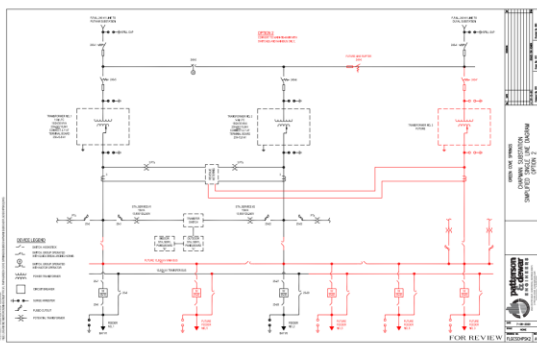
## Magnolia Point Reconductor

The City has provided survey and equipment rating information to Toco Engineering. The project is 100% designed. The backbone switchgear and wire have been ordered and received. Work is expected to start in January 2021 with completion by Winter 2021. Work will be completed by City crews with support from contractors as necessary.



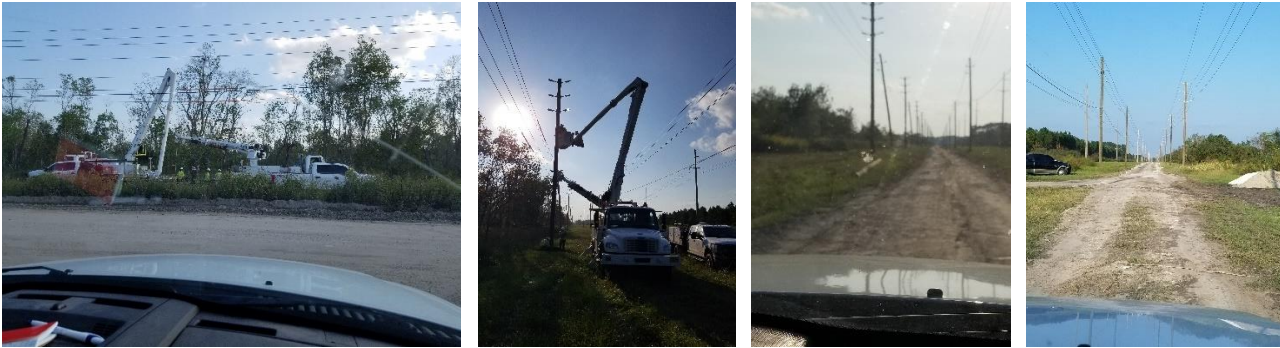
## Chapman Substation upgrade

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 approximately 98% complete. The construction was awarded to Terry's Electric. They will be on site the first week of January 2021 to begin work at the substation. The project should be complete in July 2021.



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

IRBY Construction began September 21, 2020 with an expected completion date of January 31, 2021. The construction is approximately 85% 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.

## Houston St. re-conductor

Planning for the re-conductoring 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.

## 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 ULS CONDUIT SPANS**

1. All Manhole locations shall be marked with a yellow flag with the word "MANHOLE" written on it.
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**UTILITY NOTES FOR UNDERGROUND BORE PIPES UNDER GOVERNORS CREEK**

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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.

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