



ELECTRIC DEPARTMENT

Significant activities for the month of July 2021

- 8 Streetlights repaired
- 3 Permanent meters installed
- 1 Temporary meter installed
- 1 Meter removed
- 2 Meters replaced
- 2 Poles installed
- 10 Poles removed
- 2 Poles replaced
- 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.
- 201 S. Vermont St., bad spot in secondary service repaired .
- 200 S Orange Ave., canopy lights on fire, cut braker off.
- Clay St., disconnect house feed from transformer, due to fire.
- 106 Governors Yacht Club, opened transformer to installed conduit and wire.
- 479 Olive Circle ., pole broke leaning on trailer repaired.
- City Wide., installed overhead fault indicators.
- 1015 Wall St., system upgrades installed new poles and transformer.
- 1241 Forbes St., palm tree on primary removed.
- 3327 Oak Ln., straighten up pole that was leaning.
- Houston St. by the Cove, broken pole repaired.
- Robert St & Melrose Ave., installed reclosure.
- 1273 LeBlanc Rd., installed covers on weather-head connections.

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

07/06/2021 – Between 7:05 p.m. – 7:30 p.m., 3272 CR 209., vines on transformers blown fuse, 1 customer affected.

07/12/2021 – Between 12:00 a.m. – 2:30 a.m., 3825 Randall Rd., removed tree from wires and replace fuse, 1 customer affected.

07/15/2021 – Between 2:30 a.m. – 5:00 a.m., 1408 N Orange Ave. Unit A Bldg. 108., wire changed bad connections, 8 customers affected.

07/16/2021 – Between 10:00 a.m. – 12:00 p.m., 3199 River Rd., blown arrester re-fused lateral, 5 customers affected.

07/19/2021 – Between 3:30 p.m. – 6:00 p.m., 503 N Vermont Ave., , replaced transformer after lightning 6 customers affected.

07/27/2021 – Between 1:00 a.m. – 8:00 a.m., 210 Bay St., replaced 3 phase transformer, 12 customers affected.

07/29/2021 – Between 4:00 a.m. – 6:00 a.m., 100 Joey Circle, removed tree limb from transformer, 8 customers affected.

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

<u>NAME</u>	<u>SERVICE ADDRESS</u>	<u>KWH</u>	<u>AMOUNT</u>
Clay County Jail	901 N. Orange Ave.	341,920	\$33,391.44
St. Johns Landing	1408 N. Orange Ave.	285,750	\$31,196.75
BD Of County Commissioner	825 N. Orange Ave.	249,800	\$24,324.60
Winn Dixie Stores, Inc	3260 Hwy. 17 N.	199,600	\$19,528.20
Kindred Health	801 Oak St.	186,000	\$18,345.00
National Gypsum Company	1767 Wildwood Rd	141,440	\$13,905.68
Tamko Roofing Products	914 Hall Park Rd.	121,120	\$14,061.84
Clay County Court House	825 N. Orange Ave.	109,440	\$10,968.88
BD Of Public Instruction	2025 State Road 16	98,600	\$12,028.20
Governors Creek #436	803 Oak St.	98,400	\$10,124.80
Clay County Driver's License	477 Houston St.	81,760	\$ 8,699.12
City of Green Cove Springs	1277 Harbor Road	68,160	\$ 6,495.92
City of Green Cove Springs	Set Street Lights	66,392	\$ 7,447.90
VAC-CON	954 Hall Park Rd.	64,720	\$ 6,737.44
Pegasus Technologies	932 Pilot Dr.	63,000	\$ 6,603.20
Garber Realty/GMC	3340 Highway 17	62,880	\$ 6,702.16
Coral Ridge Foods	1165 N Orange Ave.	61,040	\$ 6,245.28
BD Of Public Instruction	801 Center St.	55,360	\$ 6,153.52
Duval Asphalt Products, Inc.	1921 Jersey Ave	49,800	\$ 8,315.60
Direct TV/AT&T Services Inc.	512 Center St.	48,320	\$ 4,828.24
Ammcon Corp.	1503 County Road 315 Ste 201	48,300	\$ 5,516.00
City of Green Cove Springs	925 S R 16 East South Wwtp	45,840	\$ 4,611.28
Green Cove Springs Marina	Pier # 11 & 1	45,680	\$ 4,543.76
BD Of Public Instruction	1 N Oakridge Ave	44,640	\$ 6,076.88

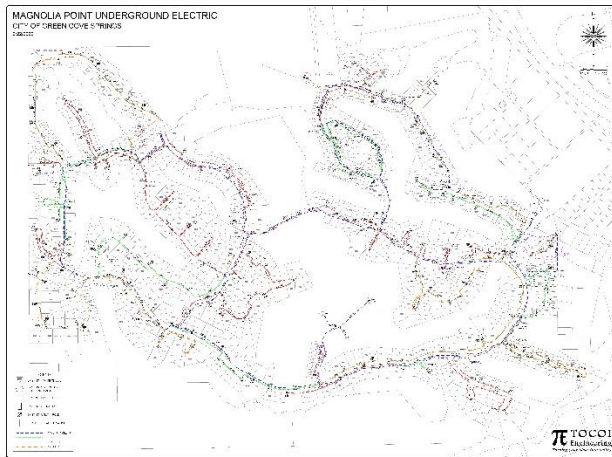
Electric Utility Department Capital Projects:

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.

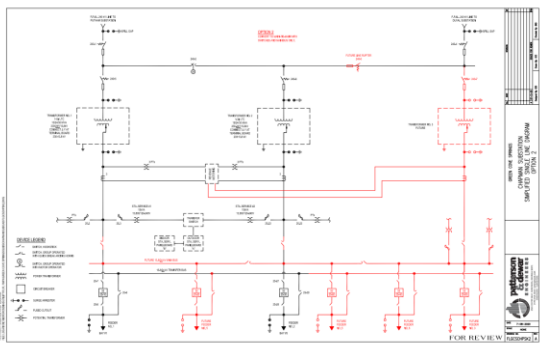
Magnolia Point Reconductor

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



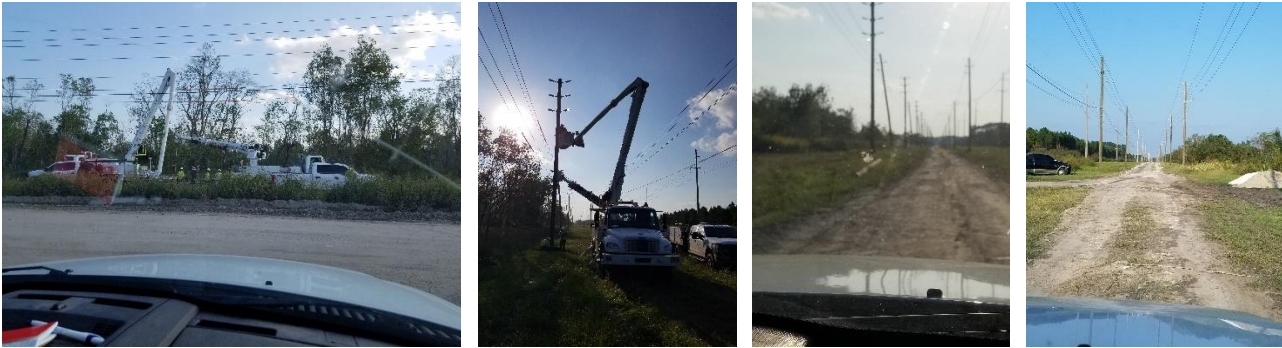
Chapman Substation upgrade

Patterson and Dewar is the City’s engineering firm for this project. The transformer is now delivered and set on the pad in its permanent location. Patterson and 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 project should be complete in October 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.



DATE:	
SCALE:	
PROJECT:	GOVERNORS CREEK CROSSING
CLIENT:	GOVERNORS CREEK APPROX. MANHOLE LOCATIONS & UNDERGROUND CONDUITS
DESIGNED BY:	
CHECKED BY:	
DATE:	
PROJECT NO.:	
DATE:	
PROJECT:	GOVERNORS CREEK CROSSING
CLIENT:	GOVERNORS CREEK APPROX. MANHOLE LOCATIONS & UNDERGROUND CONDUITS
DESIGNED BY:	
CHECKED BY:	
DATE:	
PROJECT NO.:	



NOTES FOR MANHOLE LOCATIONS AND URG CONDUIT SPANS

- All existing manhole locations are shown on this drawing. The location of any new manhole locations is shown on this drawing. The location of any new manhole locations is shown on this drawing.
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The PP-01 class is shown on the drawing. The location of any new manhole locations is shown on this drawing. The location of any new manhole locations is shown on this drawing.

SURVEY 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.