



Town of Palm Beach

Underground Utilities Update

PALM BEACH CIVIC ASSOCIATION

COMMUNITY FORUM

NOVEMBER 16, 2017

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OVERHEAD VS UNDERGROUND

BARRIER ISLANDS, FPL REPORTS & HURRICANE IRMA

THE TOWN OBTAINED DIRECT FEEDBACK FROM OTHER BARRIER ISLAND COMMUNITIES

- JUPITER ISLAND, GOLDEN BEACH, LONG BOAT KEY, JUPITER INLET COLONY, BAL HARBOUR, GULFSTREAM
- **COMMON THEMES:**
 - UNDERGROUND AREAS OF TOWNS DID VERY WELL, SOME INCURRED ZERO DOWNTIME
 - NO DAMAGE TO GROUND BASED TRANSFORMERS
 - NO STORM SURGE AND NO FLOODING
 - REMAINING OVERHEAD UTILITIES INCURRED DAMAGED
 - DAMAGE ON MAINLAND, OR RESTORATION CAUSE OF OUTAGES

UNDERGROUND SYSTEMS OUTPERFORM OVERHEAD CONSISTENTLY OVER A 5 YEAR PERIOD.

FROM THE 2015 FP&L COMPANY DISTRIBUTION RELIABILITY REPORT:

- OVERHEAD CUSTOMERS WERE WITHOUT POWER FOR 108.1 MINUTES, COMPARED TO 19.4 MINUTES FOR UNDERGROUND CUSTOMERS.
- OVERHEAD CUSTOMERS HAD 1.35 SERVICE INTERRUPTIONS, COMPARED TO .4 FOR UNDERGROUND CUSTOMERS.
- OUTAGES LASTED 80 MINUTES FOR OVERHEAD CUSTOMERS, COMPARED TO 48.7 FOR UNDERGROUND CUSTOMERS.
- TO COMPLETELY RESOLVE AN OUTAGE, IT TOOK 161 MINUTES FOR AN OVERHEAD SYSTEM, COMPARED TO 205 MINUTES FOR AN UNDERGROUND SYSTEM.

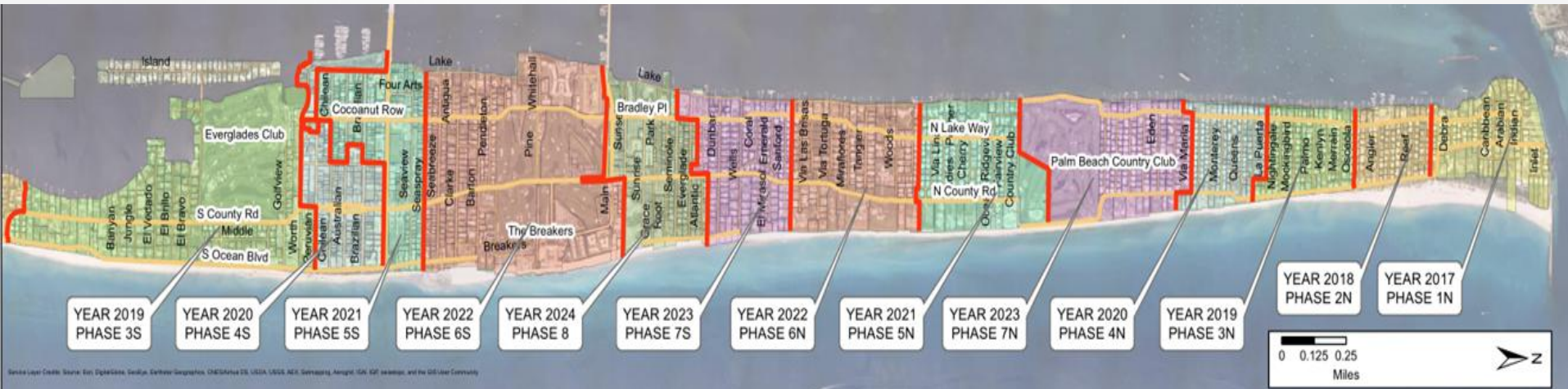
FP&L COMMENTS FROM THE 2016 REPORT:

- A REVIEW OF HURRICANE MATTHEW OUTAGE TICKETS FOR FEEDERS AND LATERALS INDICATES THAT UNDERGROUND FACILITIES PERFORMED BETTER THAN OVERHEAD FACILITIES.

TOWNWIDE UNDERGROUNDING - PROJECT SCOPE

- ✓ KIMLEY-HORN
- ✓ CMAR: BURKHARDT & WHITING TURNER
- ✓ NUMEROUS SPECIALTY SUB CONTRACTORS
- ✓ FPL, ATT, COMCAST

- ✓ PUBLIC INFRASTRUCTURE
- ✓ TOWN OF PALM BEACH DEPARTMENTS
- ✓ UTF, MAYOR AND TOWN COUNCIL
- ✓ NUMEROUS INDIVIDUALS & COMMUNITY GROUPS



TOWNWIDE UNDERGROUNDING

CONSTRUCTION – PHASE X – SCHEDULE AT A GLANCE

Construction Impact

- Light
- Medium
- Heavy

1. Conduit Installation

2. Splice Box Installation

3. Set Concrete Pads

4. Set Transformers

5. Pull Wire/Terminate Primary

6. Pull ATT/Comcast Wire, Set Pedestals

7. Cut Over / Overhead Removal for ATT & Comcast

8. Energize the Underground System

9. Demo Overhead / Remove Poles / Final Restoration

Concept, Master Plan, Cost Estimates

Sequencing, Phasing, Data Collection, Surveys, Design

Base Map Development, Procurement, Easements

TOWN-WIDE UNDERGROUNDING

Assessments

- As of September 15, 2017, 11% of Town-wide assessable parcels elected to prepay w/ \$10,237,460 collected. Adding in the Town's payment of \$2,797,291 totals \$13,034,751 in prepaid assessments.
- Residents interested in prepaying an assessment can do so up until the Town issues long term general obligation bonds to finance the project.

Project Schedule and Budget

- 4.0% overall project budget expended.
 - 16.4% of overall project design is complete (Phases 1 & 2 of 8).
 - Phase 1 North Construction is 16% complete.
 - Phase 1 South Construction is 18% complete.
- Despite Irma, CMARs report Phase 1 of the project remains on schedule with no incurred costs due to the storm.

TOWN-WIDE UNDERGROUNDING

Phase 1 North Construction *(Onondaga Avenue to the Palm Beach Inlet)*

- North construction is 16% complete and on schedule.
- Burkhardt Construction continues Horizontal Directional Drilling (HDD) for conduit placement on North Ocean and on Onondaga. This activity began in August and will continue through remainder of November.
- While not part of the Undergrounding project, Public Works Water Main replacement proceeding in parallel, ex: N. Ocean & Debra Ln.

Phase 1 South Construction *(Sloan's Curve to the south town limit)*

- South construction is 18% complete and on schedule.
- Whiting Turner Construction continues with numerous water main deflections along South Ocean Boulevard.
- FPL feeder and primary conduit installations in progress from the Town's southern limits proceeding North to Sloan's curve.
- Ibis Isle – FPL, Comcast and ATT conduit installed.

TOWN-WIDE UNDERGROUNDING

Phase 2 Design *(Onondaga South to Ocean Terrace; Sloan's Curve to the bend of S. County Road/S. Ocean Blvd in the South.)*

- North & South design are each 31% complete and on schedule.
 - Boundary surveys completed.
 - Kimley-Horn submitted Phase 2 base map design to FPL.
 - FPL design in progress.
- ***Next Step > The Town is asking property owners to volunteer easements in support of the project.***

Peer Review

- The Peer Review of the Underground Utilities Master Plan:
 - Draft review in progress with final presentation scheduled for the December 12th Town Council.

PHASE 1 NORTH

UNDERGROUNDING OF UTILITIES PROJECT PHASE 1 NORTH



**UNDERGROUNDING
TODAY**

For A Better Tomorrow!



**Horizontal Directional
Drilling operation at N.
Ocean and Onondaga
Ave.**



**BURKHARDT
CONSTRUCTION, INC.**

UNDERGROUNDING OF UTILITIES PROJECT PHASE 1 NORTH



**UNDERGROUNDING
TODAY**
For A Better Tomorrow!



**Public Works Project - Water Main installation along
North Ocean Blvd. at East Inlet Dr.**



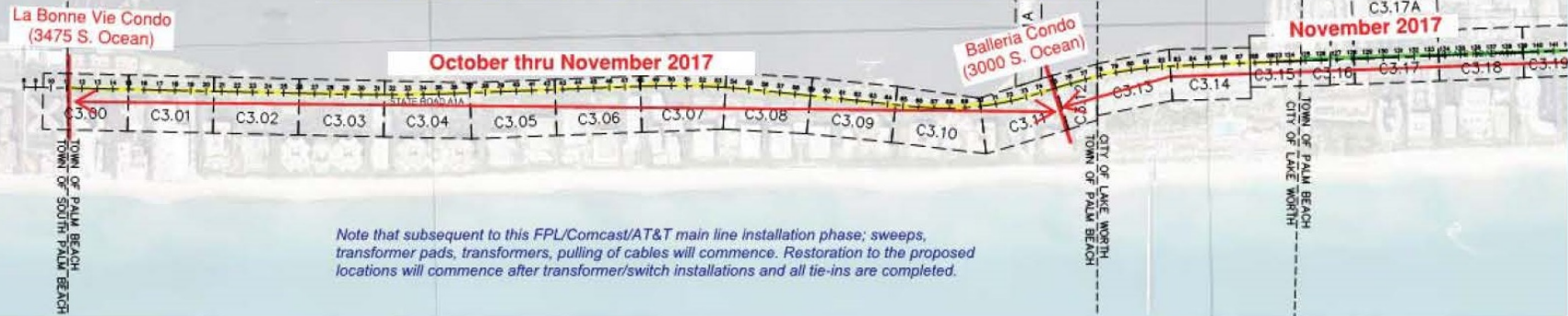
**BURKHARDT
CONSTRUCTION, INC.**

PHASE 1 SOUTH

UNDERGROUNDING OF UTILITIES PROJECT

PHASE 1 SOUTH

TOWN UNDERGROUNDING SOUTH - PHASE 1 MAINLINE CONDUIT INSTALLATION PLAN (Sloan's Curve to Town's Southern Limit & Ibis Isle)



LEGEND

- FPL/Comcast/AT&T Main Line Conduit Completed
- FPL/Comcast/AT&T Main Line Conduit Pending



TOWN-WIDE UNDERGROUNDING

Outreach and Communications

- Residents have participated in a series of monthly recurring community meetings with the construction crews to remain updated on the project.
- Project website provides updated information and important contacts.
 - <http://undergrounding.info/connect/>
 - Opt in for eMail updates on the website or leave a business card





QUESTIONS?