



Storm Secure Underground Program: Potential Overhead Lateral Scenarios

June 14, 2021



Overhead (OH) construction will be utilized for specific cases within the SSUP program

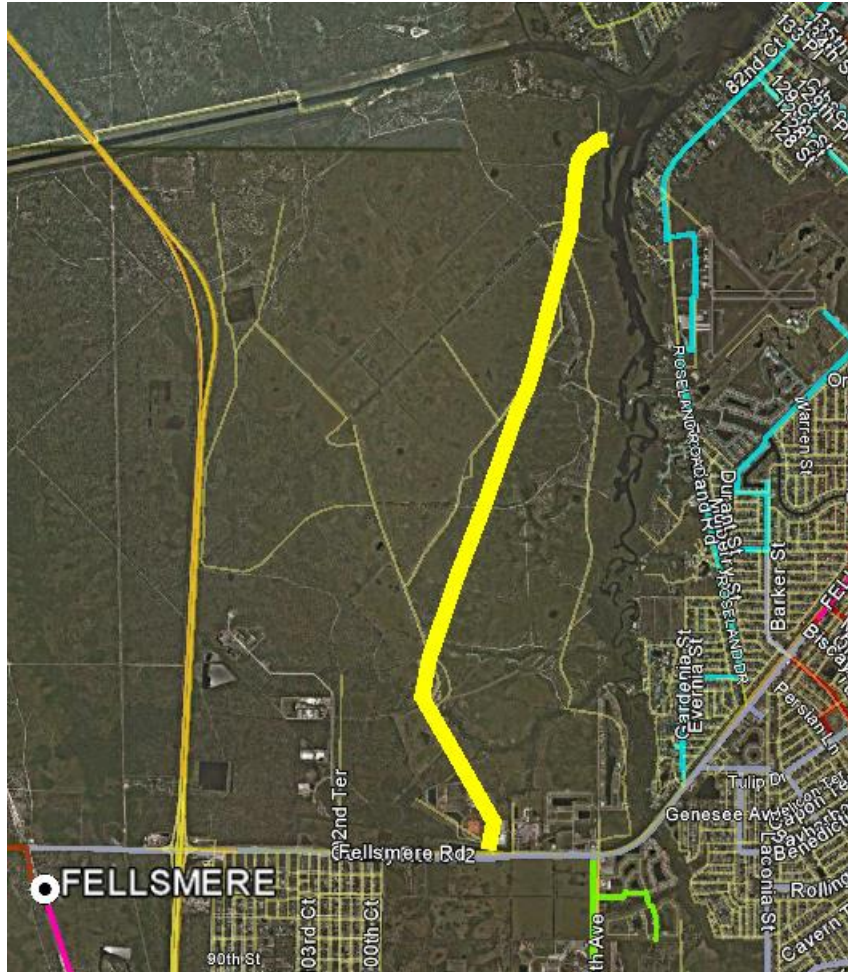
OH Construction Considerations

- **Engineering limitations, terrain, and growth are factors**
 - Laterals with no active or no residential customers (golf course pumps, farm pumps, campgrounds, orange groves, etc.)
 - Laterals (typically commercial) where undergrounding is not possible due to space and equipment limitations
 - Structures built to right of way
 - Inaccessibility (swamp, wetlands, etc.)
 - Customers not willing to provide an easement for transformer placement
 - New construction in the area driven by growth
 - Developers buying blocks at a time with uncertainty of future need for specific laterals

SSUP will strive to underground (UG) laterals to drive storm resiliency

Laterals with low customer counts and no active residential customers may not be cost effective to underground

Sebastian State Park



OH lateral is 4.75 miles long through a state park

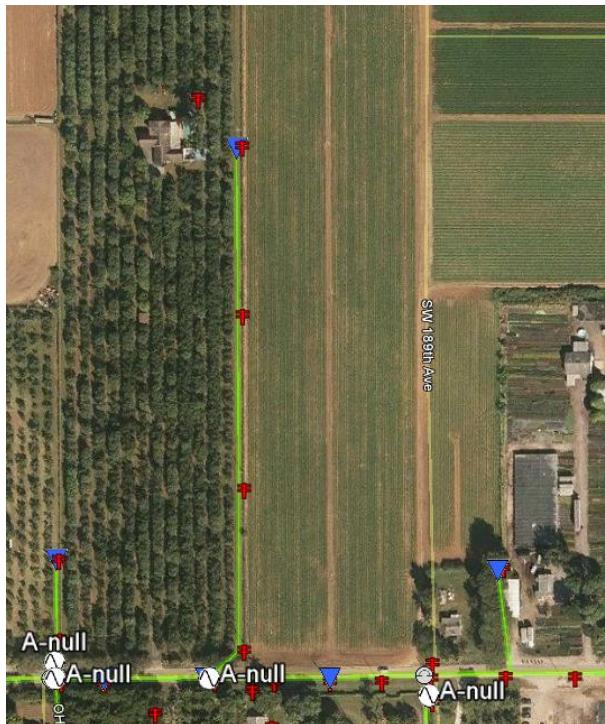
- Only 5 customers (0 residential)
- No serious vegetation concerns
- Difficult terrain for undergrounding and would require state approval (or easements)
- Substantial environmental considerations necessary
- Similar examples could be orange groves, farmland, and golf courses



Recommendation: Leave OH as-is

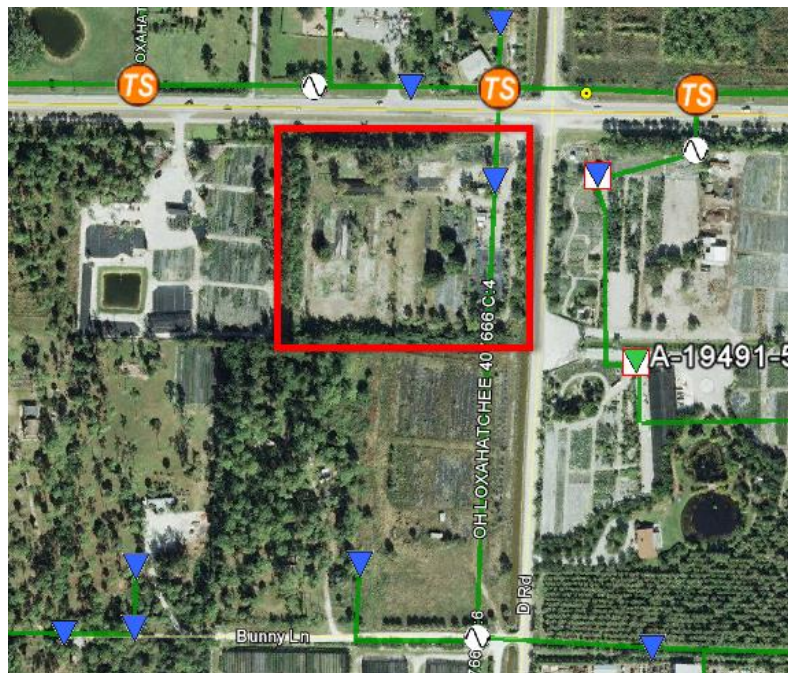
Farmland could also be better served to remain overhead

- Low customer count per mile, very few residential customers
- The digging and tilling in soil required for farming could be restrictive to property owners and possibly dangerous with underground lines and transformers (TX)
- Few vegetation concerns
- Historically, unless we can find existing easement, it may be very difficult to acquire new easements for UG from these owners
- ~40% of laterals on Avocado (2022 design plan) appear to have these concerns



Some laterals will have customers unwilling to grant FPL easements for undergrounding

Loxahatchee Groves



In limited cases, we find a customer who is a “hard no” for granting an easement:

- First option is to pursue alternate locations for our facilities and acquire easements
- When that approach fails, it may be necessary to leave the lateral OH
- Goal will be to UG everything possible and minimize what is left OH to just the property that refused to grant an easement
- Example left, leave span from Trip Saver to the TX overhead and underground the rest
- More prominent in rural areas because there is less opportunity to install the PMTX on a neighboring property due to service lengths

Recommendation: Leave part of lateral OH, underground the rest

Commercial areas that lack space or the property owner is unwilling to grant easements for underground facilities



- This lateral is 0.27 miles and serves 245 customers
- Assumption is we can install UG and convert OH
 - Need to identify existing easements
 - Possible environmental and permitting concerns in the area of the canal
- Vaults fed radially usually cannot be re-fed with loop
- A new easement will be proposed in the area of the bright green line to close the loop
 - If customer is unwilling to grant easement, our options will be limited



Dense urban areas are often built directly to Right of Way and/or lack space for PMTX

Miami-Dade



- In dense or urban areas, there may not be space for PMTX or other UG facilities because structures are built to the right of way
- In example left, an open delta PMTX and easement would require customer to give up valuable parking spaces
- Another example is through a boatyard. Every piece of the property is covered in concrete and is utilized for parking or boat storage
- We will encounter strict limitations on our ability to directional bore and place transformer within the property