



# BEMC Indigo Phase 2 Options

February 17, 2022



# City of Southport Substation Upgrade

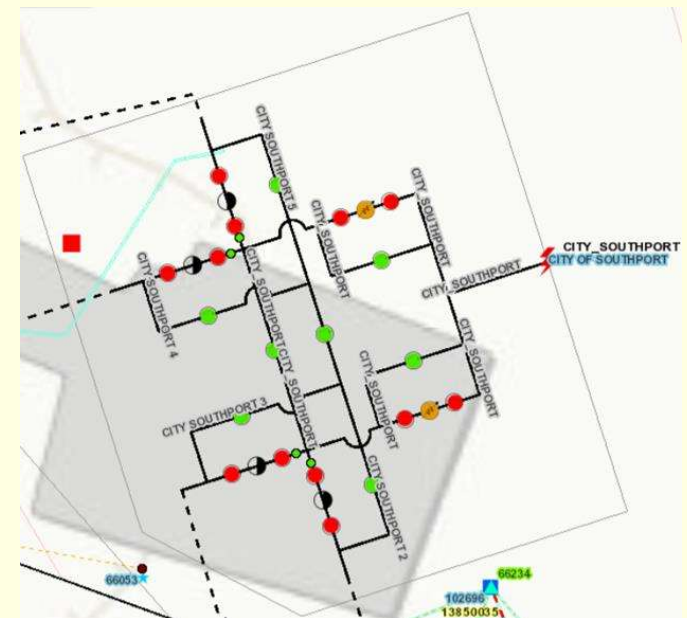
Duke – 3 - 5 MVA single-phase transformers

Winter Peak Load - 17.2 MVA (2018)

Projected Peak 2022 – 18 MVA

Recommend 30 MVA for Proposed New Developments

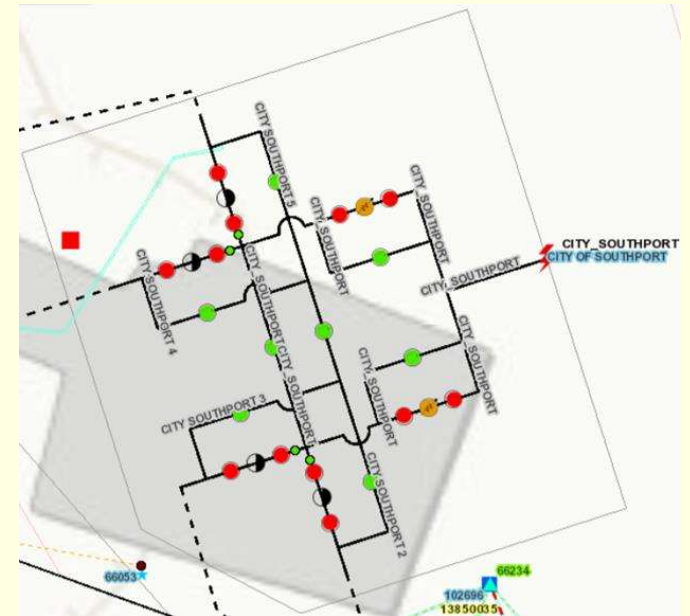
ROM = \$1M + Duke Energy Cost = \$1.5M



# Indigo Development – New Delivery Point Option

A new substation to serve the New Indigo load (\$2M + Duke Energy = \$1.5M)

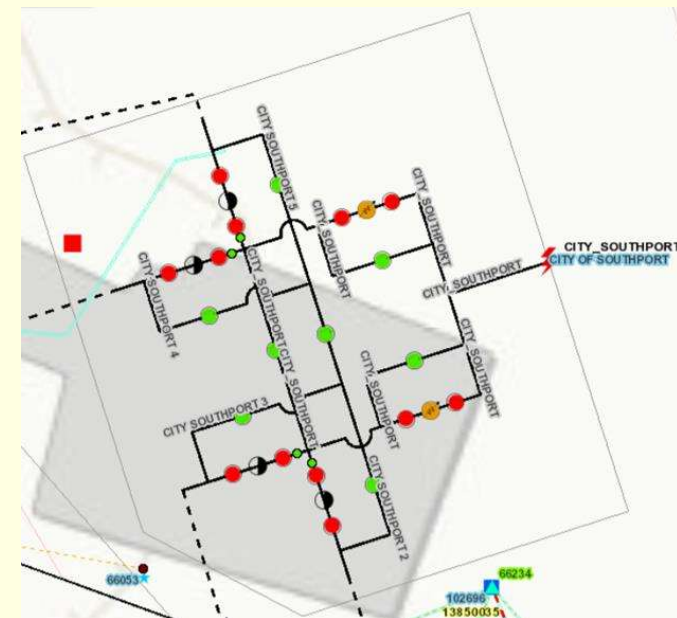
Add 3-phase feeders back to existing Southport Substation to provide a back-up Delivery Point from another Duke feeder (\$2M)



# Indigo Development – From Existing Substation

Add 2 new feeders from spare circuit bays  
Bore 2 - 0.75 mi UG 1250 kcmil feeders  
Add 2 Feeder Breakers/Reclosers  
ROM = \$2M

(Requires 30 MVA of Transformation)  
ROM = \$1M + Duke Energy Cost = \$1.5M



# Sectionalizing/Replacement Projects Indigo Plantation

- Install (1) Fused elbow in Indigo Plantation (Pad 45314PD)
- Install Fused elbows (XFMR 20123)
- Install Fused elbows (XFMR 34774)
- Install (3) Fused elbows in Indigo Plantation (Pad 47369)

ROM = \$18,000

