



Detroit Historic Commission Meeting – Feb 8, 2023

Request for blanket resolution approval to perform 4.8-13.2kV conversion work in Historic Districts

Julie Jozwiak – DTE Regional Relations, City of Detroit

Danielle Browning – Sr. Strategist Tree Trim

AJ Smith – General Supervisor Tree Trim

Andrea Ahler – Manager Tree Trim

Sarah Kosmicki-Johns – Regional Forester Tree Trim

Leamon Swink – General Supervisor Overhead/Underground

4.8 to 13.2 Conversion Overview

Basic Description

- Modernizing the underground and overhead distribution systems, which deliver power to homes and businesses.
- Upgrading miles of overhead and underground infrastructure including new cables, conduit and other electrical equipment.
- Replacing utility poles with taller, stronger poles, which will better withstand the elements. Restoration of property will follow in areas where poles are removed.
- Trimming or removing trees that may interfere with power lines.

Benefits

- Increased safety and power quality.
- Reduced wire down events.
- Decreased outages during extreme weather.
- Increased grid capacity.



[Powering Corktown now, into the future - Empowering Michigan](#)

Conversion Process Steps

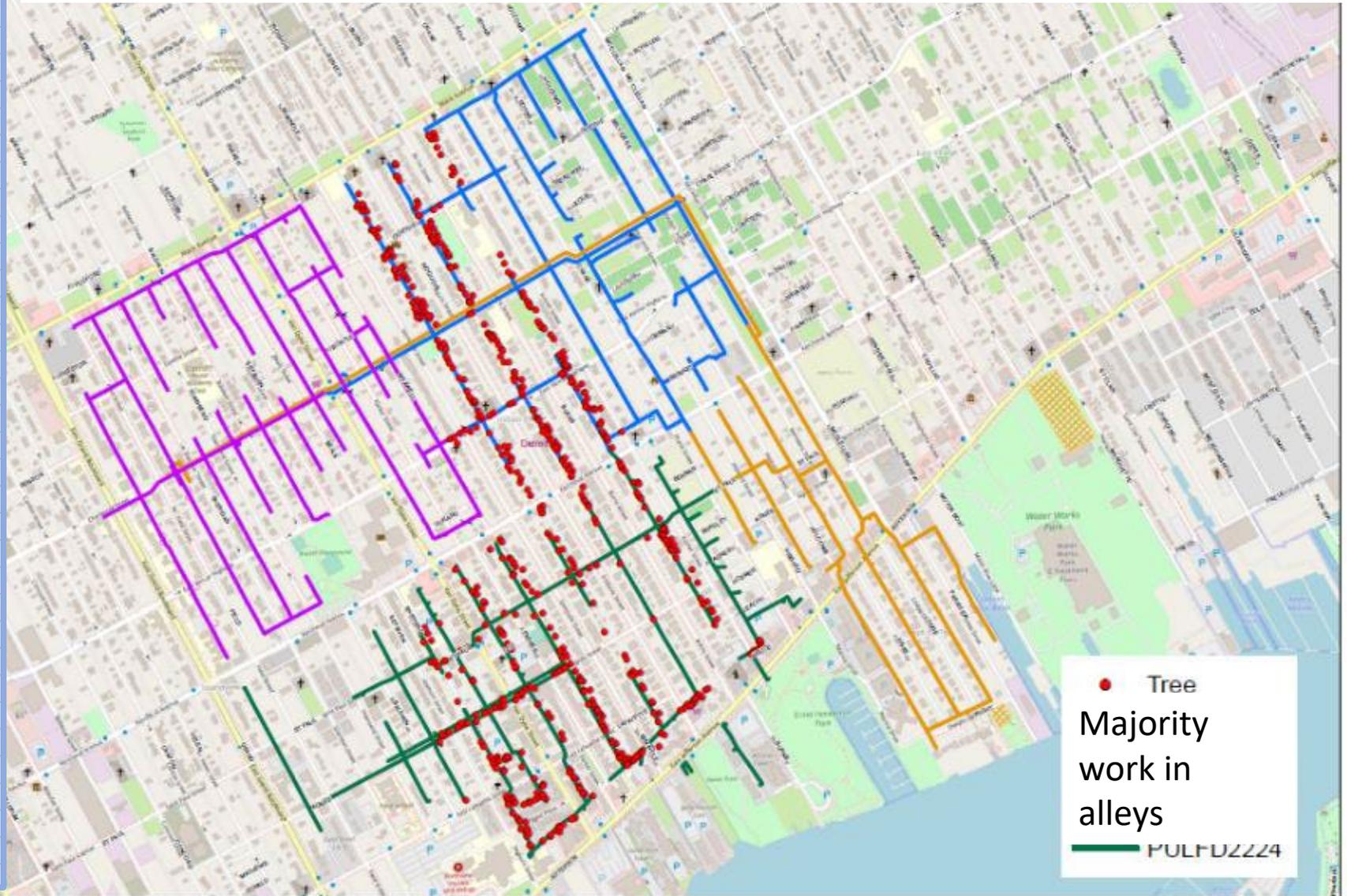
- Tree Trim in all areas
- New poles set next to old
- New wires set on poles
- Poles 'top cut' - cut just above the communication lines
- ATT/Comcast etc transferred to new poles
- Old poles removed; restoration items completed
- Energize new lines/poles with 4.8kV
- Energize new lines/poles with 13.2kV

Service interruptions will be communicated directly to customers.
Goal is to get this to under 2 hours.



Pre-Conversion Tree Trimming

Circuit	Species	Frequency
1	Elm	1
	Maple	2
	Norway maple	2
2	Ailanthus	6
	Apple	8
	Arborvitae	1
	Ash	2
	Birch	5
	Black locust	4
	Black walnut	3
	Box-elder	4
	Cedar	15
	Cherry	5
	Cottonwood	7
	Crab Apple	2
	Elm	14
	Hackberry	4
	Hardwood-other	13
	Hawthorn	4
	Linden	1
	Maple	53
	Mulberry	49
	Northern Catalpa	1
	Norway maple	2
	Oak	22
	Ornamental	4
	Osage orange	1
	Pear	1
	Pine	9
	Silver maple	3
	Softwood-other	1
	Spruce	23
	Sycamore	2
	White pine	2
Willow	1	



Pre-Conversion Tree Trimming

What's different than our standard Tree Trim maintenance?

- Clearing around DTE poles – need between 5 and 10 ft of clearance.
- Will talk to homeowners before removing a tree and get signed agreement.
- We will pick up larger than 4" branches upon request (part of agreement)
- We work with City's forestry dept if tree is in berm

Standard Policy →

What to Expect

How We Trim

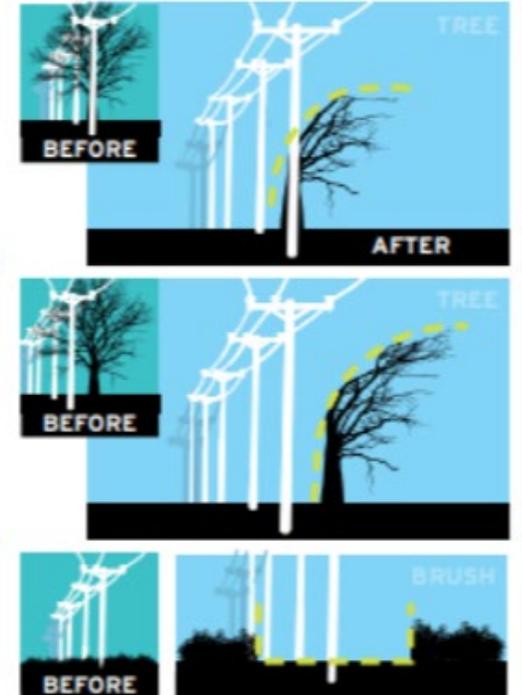
Crews will trim a radius of approximately 15 feet around DTE electrical equipment, including poles. Tree limbs below and above our equipment will **NOT** be left on trees. All branches within 10' of DTE poles will be trimmed to allow line crews safe access.

Smaller trees and brush near poles will be targeted for removal to allow safe access to DTE equipment for upgrades.

Debris Policy

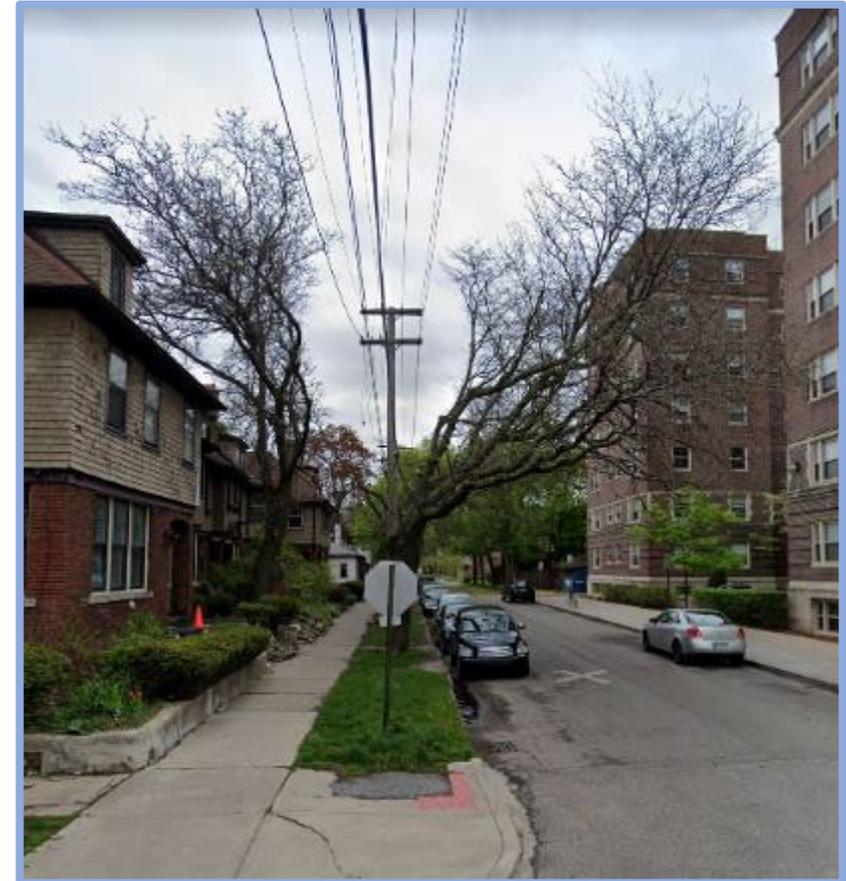
- **Debris we'll remove:** small branches and limbs.
- **Debris we'll leave behind:** larger pieces of wood (cut in manageable lengths); dead or diseased wood or debris; trees and/or limbs that fell due to natural causes.

Please note: we do not remove dead or diseased vegetation to prevent the spread of tree diseases.



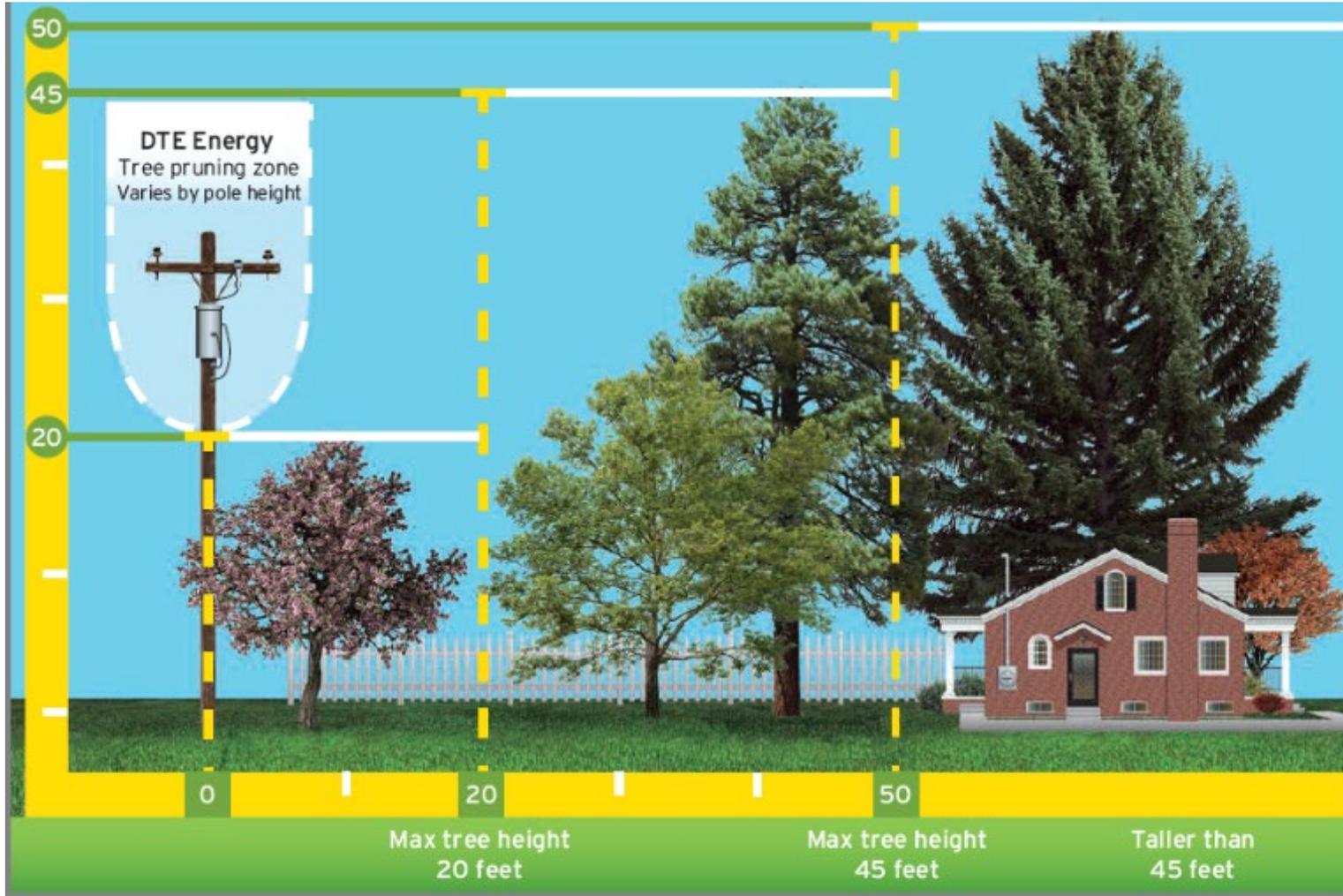
Pre-Conversion Tree Trimming

Example of a tree that MAY be requested to be cut at base – close to utility pole.



View looking down Agnes to East shows view of trees pre-bloom – have been previously trimmed by regular maintenance program

In an Ideal World....



Directly under power lines to 20 feet away, maximum height 20 feet. From 20 to 50 feet away, maximum height 45 feet. More than 50 feet away, no maximum height.

New Pole Installation/old pole removal, additional details

- Contractor LeCom will be placing new pole, adding wires
- Backyard machines can bring poles, other equipment in as needed while larger trucks will be used on streets and in alleyways.
- New Pole Height – 45-55' For the most part, today's poles are in the 35-40' range.
- Depth into ground? Rule is 10% of pole height + 2' so roughly 6'
- LeCom (different crew) comes in after main job and moves ATT/Comcast wires over to new pole. They will remove the pole, backfill, restore cement (if needed)



Current Conversion Area Maps

Corktown

Islandview

Midtown/Downtown

Promenade

Downtown and Midtown

Garfield:

- AC Network Conversion:
 - Conduit Construction
 - Cable Pulling/Installation
- Circuit Conversion Project
 - Preconversion Construction
 - Conduit Construction

Charlotte:

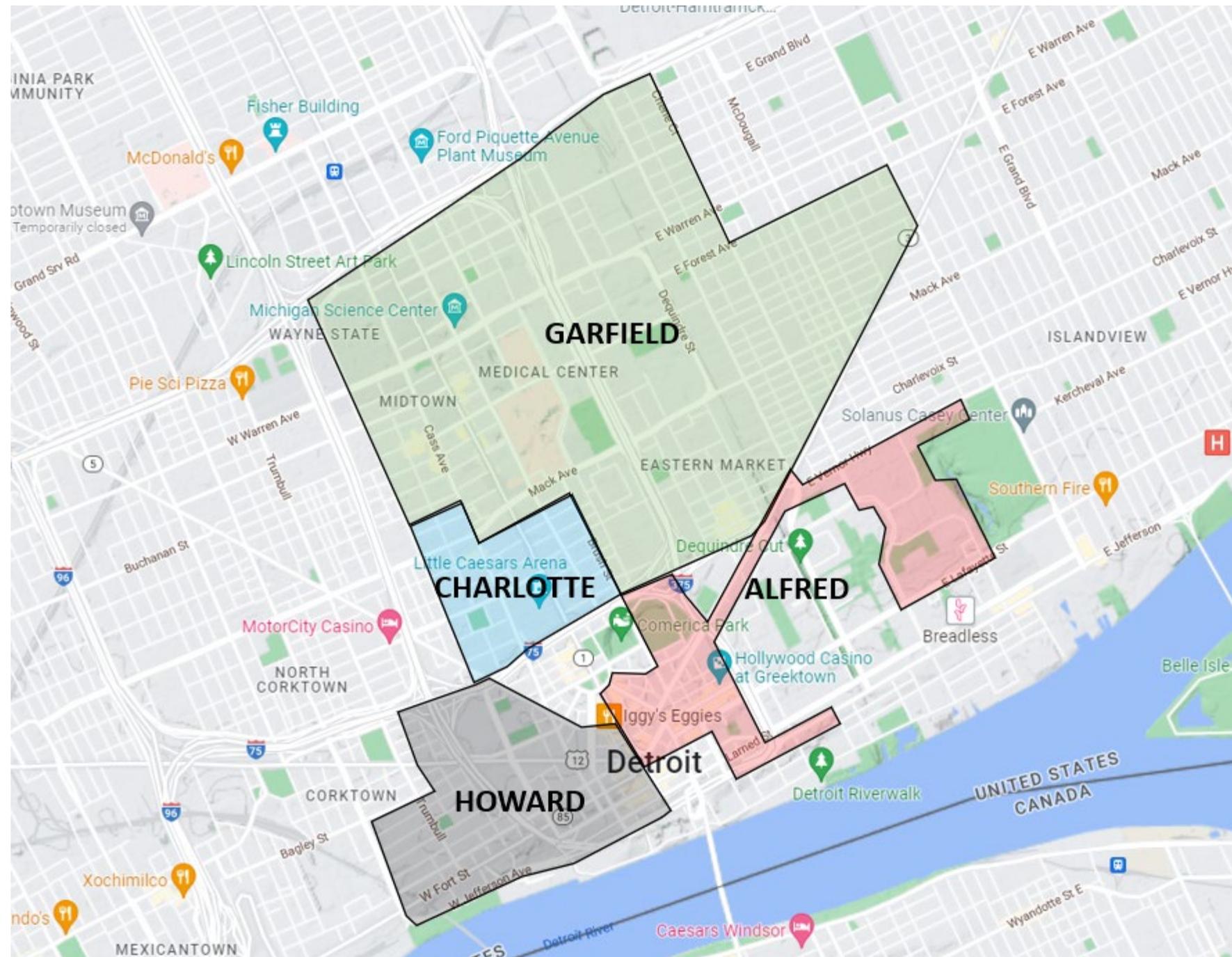
- AC Network Conversion:
 - Cable Pulling/Installation
 - Conversion Operations (outages)
- 4800V Radial UG Load Transfers/Cutovers

Alfred:

- Circuit Conversion Project
 - Radial OH Preconversion Engineering & Design Only

Howard:

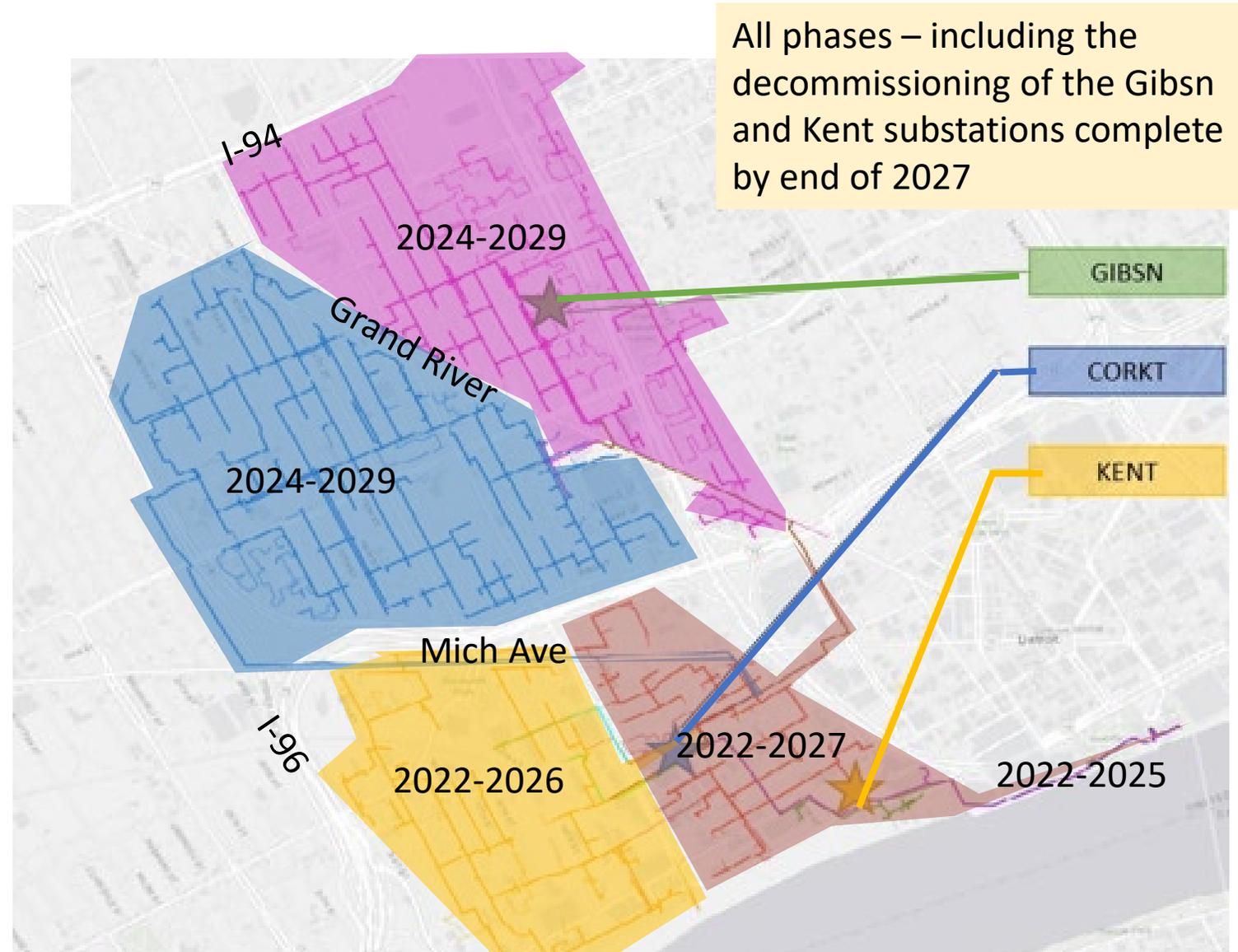
- AC Network Engineering & Design Only



Corktown Substation

- 1548 Porter St (near Trumbull, between Labrosse and Porter)
- Complete by 2029

6218 Customers total

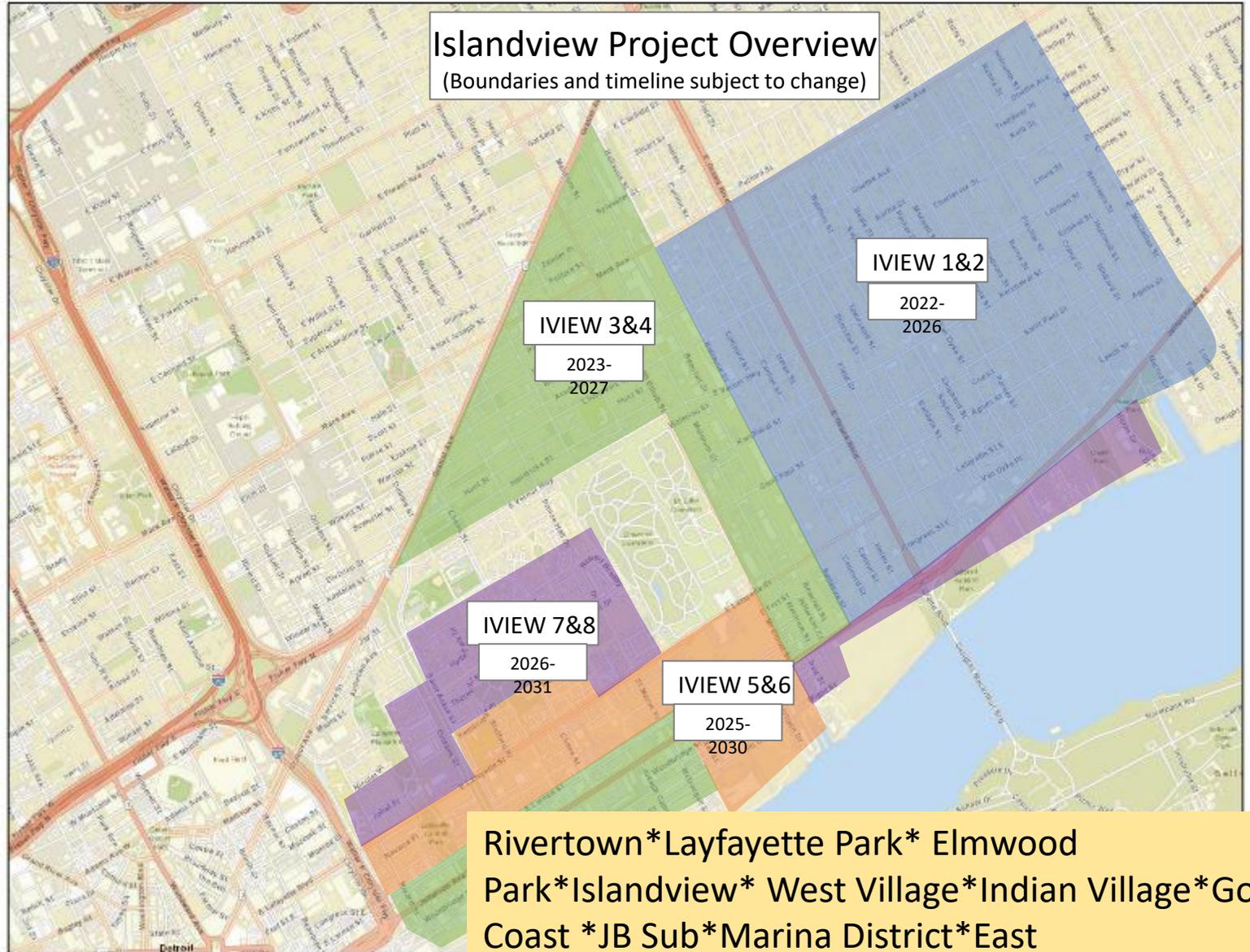


Hubbard Richard * Corktown * North Corktown * Core City * Woodbridge * Jeffries

Islandview Substation

- 6501 Beaufait (Beaufait from E Vernor to Charlevoix)
- Complete area conversion 2031 (sequenced)

8500 Customers total



Rivertown* Layfayette Park* Elmwood Park* Islandview* West Village* Indian Village* Gold Coast* JB Sub* Marina District* East Village* McDougall-Hunt (S of Gratiot)



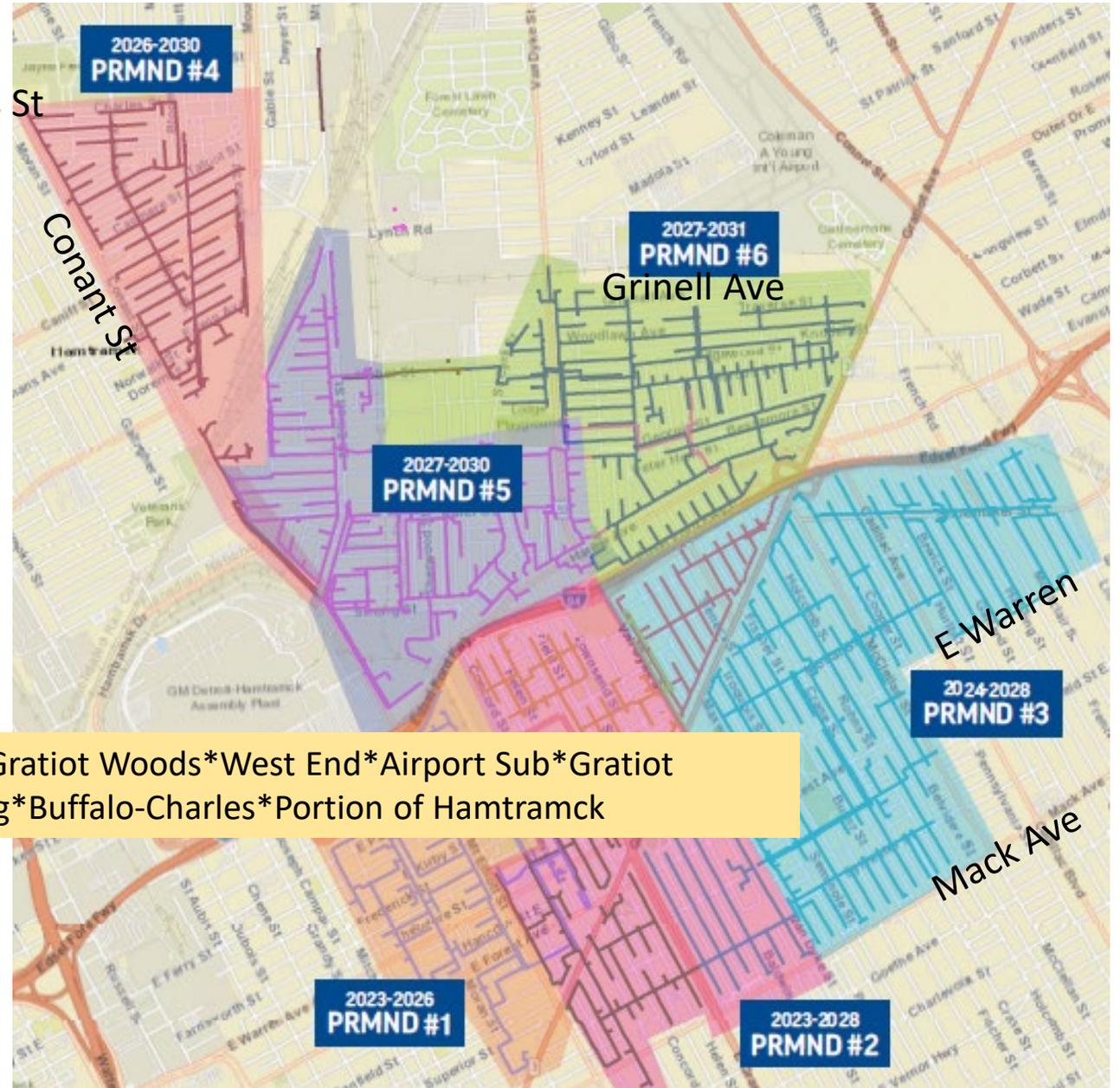
Dates and scope subject to change

Promenade Substation

- 7630 E Edsel Ford (Van Dyke and Harper)
- Complete area conversion 2031 (sequenced)

9300 Customers total, 105 miles OH, 22.7 UG

Charles St



Pingree Park*Gratiot Woods*West End*Airport Sub*Gratiot Town/Kettering*Buffalo-Charles*Portion of Hamtramck

Q & A