Project Name	Year	Sub/Ckt	Description	Start-End Map Location	Length (miles)
PE-07	2020	01-Peary/2	Rebuild 1Ø 6A OH 12.5 kV to 1Ø 1/0 ACSR OH 12.5 kV	269-30 to 269-17	1.7



Project Name	Year	Sub/Ckt	Description	Start-End Map Location Length	(miles)
ME-01 20	020	03-Meadowbrook/1	Rebuild 1Ø 6A OH 12.5 kV to 1Ø 1/0 ACSR OH 25	kV 152-28 to 152-29	2.0

This project is for the rebuild of 6A copper conductor single phase to 1/0 ACSR and a voltage conversion from 12.5 kV to 25 kV. There is currently a 100 kVA step-transformer located at the beginning of the project that is over capacity at 162 kW. As part of the project, the step-transformer will be moved to the end of the line-rebuild at Map 152-29 where the load is 56 kW.



Project Name	Year	Sub/Ckt	Description	Start-End Map Location	Length (miles)
ME-05	2020	03-Meadowbrook/2	Rebuild 3Ø 6A OH 25 kV to 3Ø 4/0 ACSR OH 25 kV	152-16 to 152-17	2.0

This is an age project. The three-phase line has load amps greater than 30 and serves more than 50 members. This project was also a crew submittal.



Project Name	Year	Sub/Ckt	Description	Start-End Map Location	Length (miles)
SD-02	2020	04-Side Lake/2	Rebuild 1Ø 6A OH 12.5 kV to 1Ø 1/0 ACSR OH 12.5 kV	202-18 to 202-08	1.8

This is an age project. The single-phase line has load amps greater than 30 and serves more than 50 members.



Project Name	Year	Sub/Ckt	Description	Start-End Map Location Length (miles)
WI-01 20	020	06A-Winton/3	Reinsulate OH 3Ø and Taps to 25 kV	161-26 to 161-24 1.5

One of the existing step transformers is overloaded at 417 kW and the area is difficult to sectionalize because of high load current and low downline minimum fault. The existing 3-phase and member transformers will be converted to 25 kV and the existing step transformers will be relocated. One of the 333 kVA step transformers will feed Saari Rd (N) and the other 333 kVA step transformer will feed MNTH 1 and be located after the tap to Pyhola Rd (S). After completion of the project, the load on the step transformer feeding south will be 285 kW. Additionally, the project will include sectionalizing changes of a new 25-E to feed Saari Rd and a Tripsaver 25 to feed Pyhola Rd. The taps along the 3-phase line can be transformers to B-phase and the taps fed by the step transformers can be left on the existing phases.



RUS 740c Code	Project Name	Year	Sub/Ckt	Project D	escription	
BA-02	2020	09-Babbit	t/1 Rebui	d 1Ø 6A OH 12.5 kV to 1Ø 1/0 ACSR OH 12.5 kV	184-24 to 185-19	1.6
This is an ag	e project. Tł	ne single-phase	e line serves m	ore than 50 members.		



RUS 740c	Project				Start-End Map	D Length	
Code	Name	Year	Sub/Ckt	Project Description	Location	(miles)	
LA-06	2020	1	0-Lakeland/2	Rebuild 1Ø 6A OH 12.5 kV to 1Ø 1/0 ACSR OH 12.5 kV	227-36 to 249-02 1	0	

This is an age project. The single-phase line serves more than 50 members.





Project Name	Year	Sub/Ckt	Description	Start-End Map Location	Length (miles)
CO-01	2020	13-Cook/2	Rebuild 10/64 OH 25 kV to 10/1/0 ACSB OH 25 kV	141-05 to 126-26	<u>л</u> 2

This is an age project. The single-phase line serves more than 50 members. This project was a crew submittal.









Project Name	Year	Sub/Ckt	Description	Start-End Map Location	Length (miles)
LA-08	2020	19-Lakeland B/6	Rebuild 1Ø 6A OH 12.5 kV to 1Ø 1/0 ACSR OH 12.5 kV	272-35	0.8

This is an age project. The single-phase line serves more than 50 members.



Project Name	Year	Sub/Ckt	Description	Start-End Map Location	Length (miles)	
	2020	17-Orr/1	Rebuild 1Ø 6A OH 25 kV to 1Ø 1/0 ACSR OH 25 kV	104-30 to 103-25	0.8	



Project Name	Year	Sub/Ckt	Description	Start-End Map Location	Length (miles)
SL-04	2020	39-Sturgeon Lake/1	Rebuild 1Ø 6A OH 12.5 kV to 1Ø 1/0 ACSR OH 12.5 kV	428-21 to 428-20	0.6
SK-02	2020	43-Sturgeon Lake/4	Rebuild 1Ø 6A OH 12.5 kV to 1Ø 1/0 ACSR OH 12.5 kV	428-20	0.5

These are age projects.











Project Name	Year	Sub/Ckt	Description	Start-End Map Location	Length (miles)	
	2020	43-Sturgeon Lake/4	Rebuild 1Ø Steel OH 12.5 kV to 1Ø 1/0 ACSR OH 12.5 kV	428-05	0.2	1





Project Name	Year	Sub/Ckt	Description	Start-End Map Location	Length (miles)
ON-02	2020	51-Onigum/1	Rebuild 1Ø 6A OH 12.5 kV to 1Ø 1/0 ACSR OH 12.5 kV	338-02 to 338-11	1.0

This is an age project. The single-phase line has load amps greater than 30 and serves more than 50 members.



Project Name	Year	Sub/Ckt	Description	Start-End Map Location	Length (miles)	
AR-01 2	020	53-Arbo/1	Rebuild 1Ø 6A OH 12.5 kV to 3Ø 1/0 ACSR OH 12	2.5 kV 262-33 to 2	262-27 1.6	

This project starts at the existing 3-phase and continues East for 1.6 miles to Prairie Lake Rd. The existing line is 6A copper conductor. This construction is required because the line has greater than 50 amps of load making the area difficult to sectionalize. This project follows the recommendation of the existing LRP. The existing voltage regulator # 53-1-5513REG at Map 262-33 on this line may be removed after completion of the project due to improved voltage levels. This project will require some sectionalizing and phase balancing changes as well. The existing voltage regulators at the start of the project can be removed.



Project Name	Year	Sub/Ckt	Description	Start-End Map Location	Length (miles)
A.D. 000	2020	52 A.H /A		244 274 244 22	2.0
AR-06	2020	53-Arbo/4	Rebuild 1Ø 6A OH 12.5 kV to 1Ø 1/0 ACSR OH 12.5 kV	241-27 to 241-23	2.8

This is an age project and is also necessary because the county is reconstructing and widening Clearwater Rd. This line has greater than 30 load amps.



Project Name	Year	Sub/Ckt	Description	Start-End Map Location	Length (miles)	
	2020	53-Arbo/4	Rebuild 1Ø 6A OH 12.5 kV to 1Ø 1/0 ACSR OH 12.5 kV	241-22 to 241-21	1.3	



Project Name	Year	Sub/Ckt	Description	Start-End Map Location Length (miles)
CH-02	2020	55-Cohasset	Upgrade substation (transrupter, 875 amp regulators)	

The existing substation regulators are at capacity and will be upgraded to coordinate with the transformer. New 875 amp regulators will be installed along with new regulator bypass switches. The high-side fuses will also be replaced with a transrupter.



Project Name	Year	Sub/Ckt	Description	Start-End Map Location	Length (miles)	
CH-03	2020	55-Cohasset/1	Rebuild 10/88 OH 12 5 kV to 10/1/0 ACSB OH 12 5 kV	282-14 to 282-11	1 0	

This is an age project. The single-phase line has load amps greater than 30 and serves more than 50 members.



RUS 740c	Project	Vear	Sub/Ckt	Project Description	Start-End Map	Length (miles)
COUE	Name	TEdi	JUD/CKL	rioject Description	Location	(IIIIes)
CH-04	2020	55-Co	ohasset/5	Rebuild 2Ø 6A OH 12.5 kV to 3Ø 4/0 ACSR OH 12.5 kV	260-36 to 261-31 2	.0

This is an age project. The two-phase line has load amps greater than 30 and serves more than 50 members. The existing two-phase line will be rebuilt to three-phase. This project was recommended by the LRP.



R	RUS 740c	Project				S	tart-End Map	Length
	Code	Name	Year	Sub/Ckt	Project Description		Location	(miles)
	BB-02	2020) 58-E	Blackberry/1	Rebuild 1Ø 6A OH 12.5 kV to 1Ø 1/0 ACSR OH 12.5 kV	284-23 to 284-14	1.7	

This is an age project. The single-phase line serves more than 50 members.



Project Name	Year	Sub/Ckt	Description St	tart-End Map Location	Length (miles)
GU-01	2020	59-Gunn	Rebuild entire substation (12 MVA 69/12.5 KV)		
	2020	59-Gunn/1-4	New 3Ø 750 MCM URD 12.5 kV (CKT 1-4 @ 0.25 Miles Eacl	h) 283-26 to 283-24	1.0

The existing substation will be rebuilt due to age. The new substation will be relocated about 0.5 miles north from the existing substation along Gunn Rd and will be built with a padmount type low side. The substation will tie into the existing overhead double circuit that is routed parallel to Gunn Rd. The existing 12 MVA Gunn transformer will be used to replace the Arbo 7.5 MVA transformer, which is currently at 90% capacity.



RUS 740c	Project				Start-End Map	Length
Code	Name	Year	Sub/Ckt	Project Description	Location	(miles)
GU-02	2020		59-Gunn/4	Rebuild 1Ø 6A OH 12.5 kV to 1Ø 1/0 ACSR OH 12.5 kV	284-16 to 284-09 1.5	

This is an age project. The single-phase line serves more than 50 members. This project was a crew submittal.



RUS 740c Code	Project Name	Year	Sub/Ckt	Project Description	Star L	rt-End Map Location	Length (miles)
	2020	64-	Remer/2	Reroute 1Ø #4 ACSR OH 12.5 kV to 1Ø 1/0 URD 12.5 kV	321-11 to 321-02	0.6	

This is an age project and crew submittal. The existing overhead line is difficult to access and maintain.



Project Name	Year	Sub/Ckt	Description	Start-End Map Location	Length (miles)	
۹۵-H2	2020	66-Shoal Lake/2	Rebuild 10 64 OH 12 5 kV to 10 1/0 ACSB OH 12 5 kV	222-31	20	

This is an age project. The single-phase line has load amps greater than 30 and serves more than 50 members.



RUS 740c	Project				Start-End Map	Length
Code	Name	Year	Sub/Ckt	Project Description	Location	(miles)
PO-01	2020	67-P	okegama/1	Rebuild 10 6A OH 12.5 kV to 10 1/0 ACSR OH 12.5 kV	325-09 to 325-35 3.4	

This is an age project. The single-phase line has load amps greater than 30 and serves more than 50 members. This project was a crew submittal.

