

## **ELECTRIC**

1. Campbell Hill 3 Phase Rebuild (Napoleon to Clough): 18 Poles and 3000ft of 336 conductor.
2. Water Plant upgrades: Adding a new 3Phase Transformer and Security Cameras.
3. Stone Ridge (Phase7): Adding 1500ft of 1/0 URD Wire and Transformers
4. Stone Brook Estates: Adding 2000ft of 1/0 Wire and Transformers
5. Dunbridge Rd 3 Phase Rebuild: (Poe to Dunbridge) 28 Poles with 15000ft of 336 conductor
6. Wood Bridge Park (Reconfiguring Circuits) Adding another feed to Woodbridge Park from Poe Rd
7. Substation #7 ( New Transformer)
8. Thurstin LED Lighting Project: Adding 20 New L.E.D Lights (Wooster to Poe)
9. 10-15 Poles in Portage to be Upgraded: Replacing 1Phase and 3Phase Poles all through the Village
10. Substation Security System: Adding 16 Cameras (A.C.T.I) Model # I92 and I94 \$50,000
11. Make ready work for ACD.net (15-18 Pole to be changed throughout the City, this is an ongoing project.)
12. A 20 MW Portion of the AMP Solar Phase II project is to be constructed in 2016 on 140 acres of property owned by the City of Bowling Green at the corner of Newton Road and Carter Road. The City of Bowling Green's share will be 10 MW of solar PV capacity producing about 4% of all customers' electric energy.
13. A 69 KV power line is proposed to be built from the Dunbridge Road Substation, East on Poe Road, and North on Carter Road to a new 69KV/12.47 KV substation serving the proposed AMP Phase II Solar Project.

## **SEWER**

14. Wolfly Ave. Sewer – Installation of 8” sanitary sewer on Wolfly between North Grove and North Main Street. No sewer exists in that area. Estimated construction cost of project is \$150,000.00. Construction is anticipated in 2016.

15. Summit Street Sewer Replacement – This project consists of redirecting the sewer flow to the south from Ridge Street to Court Street and abandoning a section of sewer. Work will be performed in house by the Water & Sewer Division personnel.
16. Dunbridge Sewer Manhole Rehabilitation – Reline or replace existing manholes from Gypsy Lane Road to E. Wooster Street due to deterioration from hydrogen sulfide corrosion
17. N/S Alley from Pearl Street to Oak Street Sewer Relining – Relining and repair of the existing combined sewer in the alley just west of Main Street between Oak and Pearl Streets. Sewer is located under concrete duct bank in the alley.
18. Kenwood Avenue Sewer Improvement – Realignment of the existing combined sewer from the northern extent near 627 Kenwood Avenue through the southern extent along Napoleon Road. The new alignment consists of sewer from the intersection of Dixie Street and Main Street to the intersection of Dixie Street and Kenwood Avenue. From there the sewer would extend north to 627 Kenwood Avenue and south to the same southern extent along Napoleon Road. Construction is anticipated in 2017.
19. West Wooster Street Sewer Relining – Relining and repair of the existing combined sewers on West Wooster Street between Church Street and Haskins Road.
20. Morton Avenue Sewer – Construct approximately 435 feet of new combined sewer along Morton Avenue from Meeker Street to the 30” combined sewer. Work will be performed in house by Water & Sewer Division personnel.
21. Darlyn Dr. Sewer Relining – Relining and repair of the existing combined sewer from Poe Rd. to the north side of the golf course at City Park.
22. Brim Road Sewer Extension – Construct new sanitary sewer along Brim Road extending from the existing sanitary sewer at S. Christopher Street to the Fairgrounds entrance just south of Ashbury Boulevard. Work will be performed in house by Water & Sewer Division personnel.
23. Manitoba Drive – Pheasant Farms Plat 1 Pond – Construct new storm sewer outlet to Belleville Ditch to keep storm sewer drained.
24. Conneaut Lift Station and Force Main Replacement – The Conneaut lift station has inadequate wet well storage and pumping capacity, creating wet basement issues during some storm events. Staff recommends relocating the pump station and increasing its storage and pumping capacity. A larger diameter force main is also necessary to handle the increased peak flows. This project is recommended for design in 2016 with construction in 2016 and 2017. The cost of a new pump station and force main is estimated at \$1,250,000. An OWDA low-interest loan is anticipated.

25. S. Main Pump Station Corrosion and Odor Control – The Sewer Division has discovered concrete corrosion issues in several areas of the wastewater collection system that are near pump stations or in locations where the flow is disturbed to allow for the release of hydrogen sulfide (H<sub>2</sub>S) gas. The H<sub>2</sub>S gas corrodes concrete pipes, manholes and wet wells causing costly repairs or collapses. H<sub>2</sub>S gas does not affect Vitrified Clay or PVC pipe. Chemical feed systems can be added to our collection system that will prevent the release of H<sub>2</sub>S gas in the sewer and eliminate corrosion problems. Corrosion control chemicals have a secondary benefit by also controlling odors and will not impact operations at Water Pollution Control. Property negotiations are in progress to house the chemical feed systems.
26. Tanglewood Pump Station – Parks and Recreation is budgeting \$21,000 in their 2016 budget to replace the Tanglewood Pump Station. The estimate to replace the pump station is \$60,000 due to the need to bore under the street to run electric service to the pump station. \$40,000 is budgeted to assist in completing the project.

### **WATER**

27. Manville, Clough & Third Waterline – Phase 1 consists of replacing the existing 6” water line between Lehman Ave. and Third St. with an 8” water line in 2015 at an estimated cost of \$55,000. Replacement of the existing 6” water line on Third Street between Manville Ave. and S. College Dr. with an 8” water line is anticipated in 2015 and estimated at \$255,000. Replacement of the existing 4” water line on Clough between South Prospect Street and South Summit Street with an 8” Water line estimated at \$60,000. This project will be bid and awarded in 2015. Phase 2 of the project is anticipated in 2017 and consists of replacing the existing 8” water line on Manville Ave. from Napoleon Rd to Third St. at an estimated \$300,000.
28. 20” Transmission Main Valves - Due to the age of the original 20” ductile iron water main along SR 64 and the lack of regular operation of the valves, new valves will be installed on the existing 20” main to ensure the main can be shut down in case of an emergency. Three to four valves are necessary at an estimated cost of \$100,000 per valve.
29. Transmission Main Bypass at King/SR 64 – Both transmission mains from the water treatment plant tie in to a common point called a “cross” at the King Rd / SR 64 intersection creating a potential weak point in our transmission system. A bypass will be designed to improve distribution reliability should one of the transmission mains need to be taken out of service or if the “cross” would ever need repaired. Engineering is anticipated in 2016 with construction in 2017.

### **2016 PAVING PROGRAM**

30. Newton (Haskins to Brim)
31. Van Camp (Brim to Fairview)
32. Charles (dead end to Clark)
33. Lyn (Clark to Martindale)
34. S. Prospect (Lehman to Palmer)
35. Clough (S. College to Mercer)
36. Lot #2
37. Lot #4
38. Biddle (entire length)
39. Williams (entire length)
40. South Main & Gypsy intersection
41. Conneaut paving (Mitchell to Grove)
42. Fairview paving ( Conneaut to Poe)

### **2016 50/50 SIDEWALK PROGRAM**

43. Multiple sites within mapping boundary