



**To:** Members of Dublin City Council  
**From:** Dana L. McDaniel, City Manager  
**Date:** March 16, 2021  
**Initiated By:** Megan D. O'Callaghan, PE, Deputy City Manager/Chief Finance and Development Officer  
Paul A. Hammersmith, PE, Director of Engineering/City Engineer  
**Re:** OTHER - American Electric Power (AEP) Distribution – Hayden Run Circuit Improvement (Hayden F-1602)

## Summary

This memorandum is to provide a summary of the information Staff has learned to date about AEP's plan to improve the Hayden Run distribution circuit (Hayden F-1602) as depicted on the attached alignment exhibit. This project involves installing approximately three miles of a second overhead circuit on the existing pole line along the depicted alignment.

The circuit extends along the west side Cosgray Road from Hayden Run Road north to Shier Rings Road, and then along the south side of Shier Rings Road from Cosgray Road east to Eiterman Road. The majority of the existing overhead line for this circuit north of Rings Road is located within the Dublin corporate boundaries except a small portion within Amlin, which would be Washington Township. Along Shier Rings Road, the overhead line is within the City of Dublin except the portion near Holiday Lane and Shier Lane (a length of approximately 1,700 feet) which fronts Washington Township.

This improvement will be an internal upgrade to the existing distribution system providing load relief to this circuit and increasing system capacity and reliability. Generally, the circuit will be installed on 55-foot tall poles (60-foot tall for large equipment) with double cross arms - an upper arm for the existing circuit and a lower arm for the new circuit. The result will be a double circuit using the existing aerial alignment but replacing the current poles (generally now 45-foot tall) with taller poles. The two exhibits attached show the current configuration along Cosgray Road and final configuration that will be similar to the existing AEP overhead double circuit located along the south side of Shier Rings Road east of Eiterman Road.

This new circuit, in association with two other new related circuits to the south in the Hayden Run area, is to provide load relief to Dublin, Hayden Run, and north and south on Cosgray Road and east on Shier Rings Road. As named by AEP, this new circuit is Hayden F-1602 and will be a 13.8 kV aerial (overhead) line.

According to AEP staff, construction is anticipated to commence in 2021 once any needed acquisitions are complete. AEP staff is anticipating the acquisitions to be minimal with no impacts to land owned by the City of Dublin. In terms of the overall project cost, AEP has not provided one to date. However, using previous programming level estimates, burial of both the existing and proposed additional circuit along Shier Rings Road from Cosgray Road to Eiterman Road would be approximately \$2.1 million.

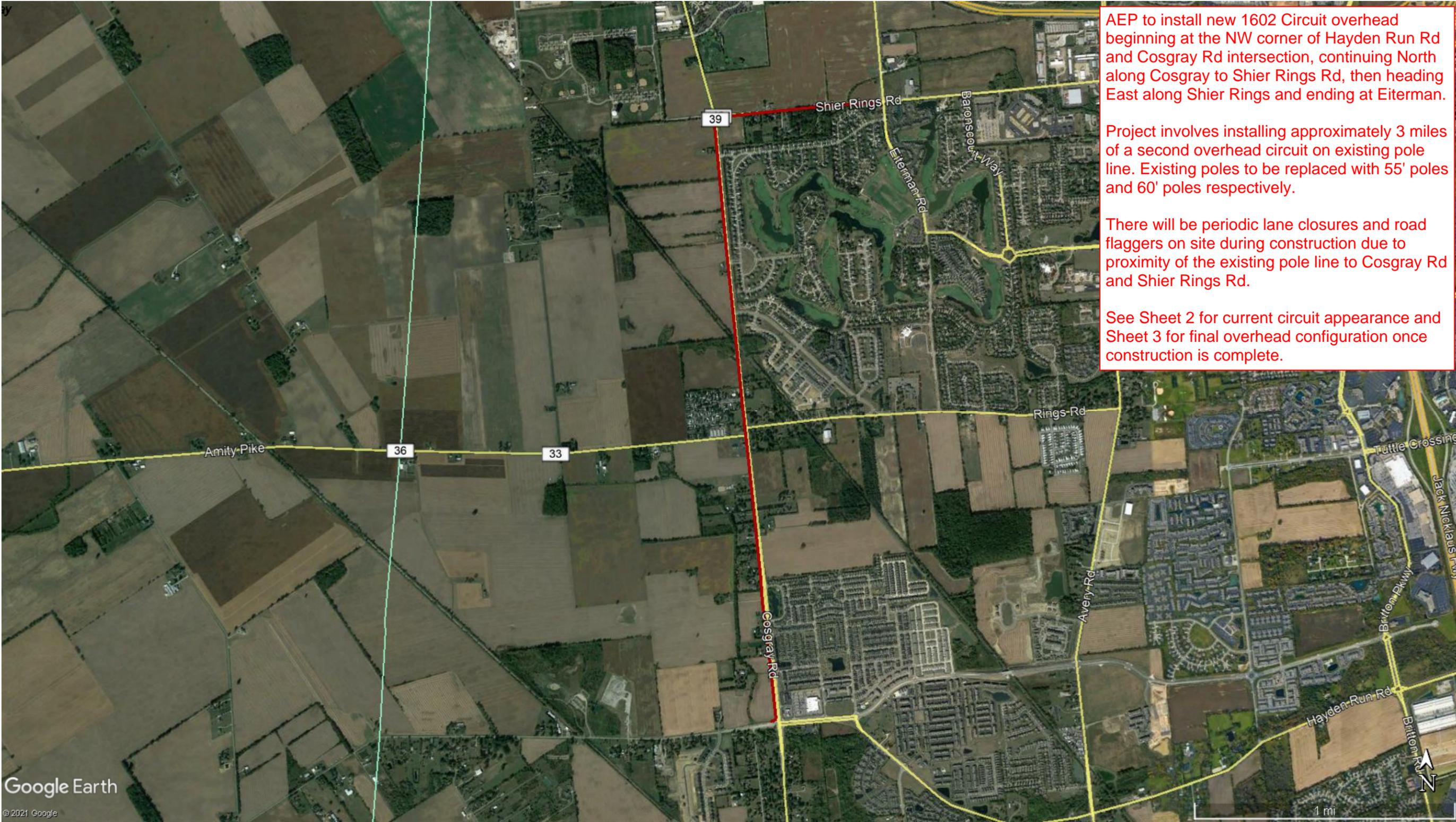
Dublin staff previously requested that AEP not initiate any acquisitions for this project in and around Dublin until an appropriate communication plan is prepared and communicated to City Council. AEP

staff has indicated they are working on a web page, Frequently Asked Questions (FAQs), post cards and copy for social media posts and newsletters. As Dublin staff has done with other recent AEP projects, we will continue to work closely with AEP to obtain a complete understanding of this planned improvement.

### **Recommendation**

This memorandum is provided for informational purposes and is intended to only be a summary of the information Staff has learned to date about AEP's plan to improve the Hayden Run distribution circuit (Hayden F-1602). Staff will continue to coordinate with AEP and provide any additional updates as may be necessary.

**New 1602 Circuit**



AEP to install new 1602 Circuit overhead beginning at the NW corner of Hayden Run Rd and Cosgray Rd intersection, continuing North along Cosgray to Shier Rings Rd, then heading East along Shier Rings and ending at Eiterman.

Project involves installing approximately 3 miles of a second overhead circuit on existing pole line. Existing poles to be replaced with 55' poles and 60' poles respectively.

There will be periodic lane closures and road flaggers on site during construction due to proximity of the existing pole line to Cosgray Rd and Shier Rings Rd.

See Sheet 2 for current circuit appearance and Sheet 3 for final overhead configuration once construction is complete.

Current Configuration



## Final Configuration





**To:** Members of Dublin City Council  
**From:** Dana L. McDaniel, City Manager  
**Date:** December 8, 2020  
**Initiated By:** Megan D. O'Callaghan, PE, Deputy City Manager/Chief Operating Officer  
Paul A. Hammersmith, PE, Director of Engineering/City Engineer  
**Re:** American Electric Power (AEP) Distribution 5-Year Improvement Plan

## Summary

This memorandum is to provide a brief summary of AEP's 5-Year Improvement Plan (2019-2024) for distribution system improvements in and around the Dublin area (see attached list). The thirteen improvement projects focus on upgrading portions of the existing distribution system, providing load relief to various circuits and increasing system capacity and reliability.

Council is aware of a few of the projects such as the Bethel-Sawmill 138kV (kilovolts) Transmission Line Rebuild project (No. 4), the South High Street Overhead Utility Removal (No. 10) and the Shier Rings Road and University Boulevard Undergrounding (Nos. 1 and 2) to be performed with the University Boulevard, Phase 2 roadway extension project being constructed in 2021. The Shier Rings Undergrounding Emerald Parkway and Cosgray Road (No. 13) will provide for the burial of existing overhead distribution lines in 2022 along segments of Shier Rings Road.

Additionally, the SR 33 & 161 Public Project (No. 3) and Bridge Park Reliability Project (No.5) are related to Dublin initiated and/or sponsored projects. The SR 33 & 161 Public Project (No. 3) is part of the improvement to the US33/SR161/Post Road Interchange and the Bridge Park Reliability Project (No.5) will create circuit redundancy within the Bridge Park development. Several of the projects (Nos. 7, 8 and 9) will upgrade existing circuits from 13.2 kV to 34.5 kV thus improving system capacity to the areas served by these circuits. These areas will include Brand Road, Coffman Road, Avery Road, the River Forest neighborhood, Indian Hill Road, and Riverside Drive north of I-270. Two projects (Nos. 11 and 12) will install system "ties" which will essentially create better strength between existing circuits and improve reliability.

The most notable project, and the one staff believes could cause concern with adjacent residents in the Ballantrae neighborhood, is the Hayden Run Distribution (No. 6) which is a proposed new circuit along Cosgray Road from Hayden Run Road to Shier Rings Road (as shown on the attached exhibit). The new circuit, in association with two other new related circuits to the south in the Hayden Run area, is to provide load relief to Dublin, Hayden Run, and north and south on Cosgray Road and east on Shier Rings Road. As named by AEP, this new circuit is Hayden F-1602 and will be a 13.8 kV aerial (overhead) line.

As depicted on the attached exhibit, the circuit will generally be installed on 55-foot tall poles (60-foot tall for large equipment) with double cross arms. An upper arm for the existing circuit and a lower arm for the new circuit. The result will be a double circuit along Cosgray Road using the existing aerial alignment but replacing the current poles (generally now 45-foot tall) with taller poles.

According to AEP staff, construction is anticipated to commence in 2021 once any needed acquisitions are complete. Dublin staff requested that AEP not initiate any acquisitions for this project in and around Dublin until an appropriate communication plan is prepared and communicated to City Council. As Dublin staff has done with other recent AEP projects, we will continue to work closely with AEP to obtain a complete understanding of their planned improvements and ensure appropriate citizen engagement and communication occurs.

### **Recommendation**

This memorandum is provided for informational purposes and is intended to only be a summary of AEP's planned improvement projects. Staff will continue to coordinate with AEP and provide any additional information as may be necessary.

## Dublin Area Projects

Number	Engineer Year	Design Year	Build Year	Project Description
1	2020	2020	2021	Shier Rings Rd Undergrounding ( 6255 Shier Rings rd to Baronscourt Way/ Eiterman Rd.)
2	2020	2020	2021	University Blvd.
3	2020	2021	2022	SR 33 & 161 Public Project
4	2019	2020	2020	Bethel Rd Sawmill 138 kV rebuild with underline distribution
5	2019	2020	2020	Bridge Park Reliability Project
6	2019	2020	2021	Hayden Run Distribution 3 new circuits to provide load relief to Dublin, Hayden Run and North and South on Cosgray Rd./ East on Shier Rings Rd.
7	2014	2015	2020	13.2 to 34.5 kV conversion of F-3132 Phase 1 S/O Brand Rd. Fall 2020, Phase 2 Coffman Rd., Phase 3 Avery Rd.
8	2022	2023	2024	River Forest and Indian Hill Rd. 13.2 to 34.5 kV conversion / rebuild OH to UG 2025.
9	2021	2022	2023	Extend F-3134 along Riverside Dr. South to I-270, Convert F-8505 from 13.2 to 34.5 kV.
10	2019	2019	2021	S. High St. and S. Riverview conversion from OH to UG
11	2020	2021	2024	Install UG tie SW for F-2612, F-2613, and F-2616 along Riverside Dr. ROW required. YR 2022-23.
12	2021	2022	2023	Circuit tie strengthening between 37102 and F-2302 or F-2306 along Eitherman Rd. or Liggett Rd.
13	2020	2021	2022	Shier Rings Rd Undergrounding Emerald Parkway and Cosgray Rd. (Baronscourt Way to Cosgray)

# HAYDEN F-1602

