

Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

19370128

Technical Review by AEP on 2021-04-19

Independent Review by DLO on 2021-04-22

1:2,400 (A1 original document size of 11x17)

0 100 200 Feet

N

Legend

AP Substation

Existing Structure to be Replaced

Proposed Structure

Existing 138 kV Transmission Line to be Rebuilt

Proposed 138 kV Transmission Line

Proposed Access Road

Project Area

Photo Location

Existing Culvert

Existing Storm Drain

Seep/Spring

Welland Determination

Sample Point

Upland Drainage Feature

Approximate Upland Drainage Feature

Field Delineated Waterway

Approximate Waterway

Field Delineated Waterway Area

Field Delineated Open Water

Approximate Open Water

Field Delineated Emergent Wetland

Field Delineated Scrub-Shrub Wetland

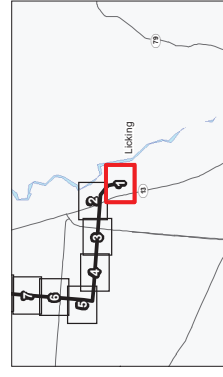
Approximate Wetland

National Wetlands Inventory Feature

FEMA Flood Hazard Area

100-year Floodplain

Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, 2019, ESRI, Inc.
3. Orthorectification: 2019 NAD



Wetland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Project Location

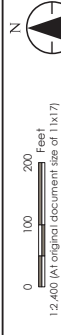
Oh

102707308

193/07328
Prepared by: 114 on 2021-04-13

Prepared by JLN on 2021-04-13
 Legal Review by AJK on 2021-04-22

Independent Review by DJG on 2021-04-22



Legend

- | | |
|---|--------------------------------------|
| APF Substation | Field Delineated Waterway |
| Existing Structure to be Replaced | Approximate Waterway |
| Proposed Structure | Field Delineated Waterway Area |
| Existing 138 kV Transmission Line to be Rebuilt | Field Delineated Open Water |
| Proposed 138 kV Transmission Line | Approximate Open Water |
| Proposed Access Road | Field Delineated Emergent Wetland |
| Project Area | Field Delineated Scrub-Shrub Wetland |
| Photo Location | Approximate Wetland |
| Existing Culvert | National Wetlands Inventory |
| Existing Storm Drain | Hazard Area |
| Seep/Spring | FEMA Flood Hazard Area |
| Wetland Determination Sample Point | 100-year Floodplain |
| Upland Drainage Feature | Roadway |
| Approximate Upland Drainage Feature | |

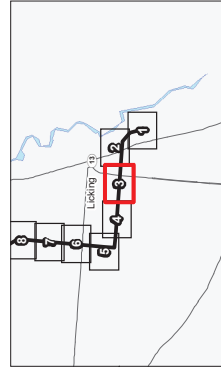


Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Coos and Licking Counties,
Ohio

192701238

Prepared by: J.H. on 2021-04-19

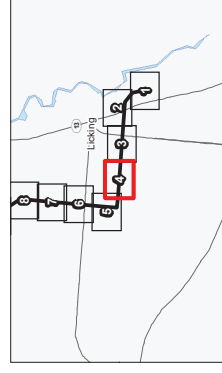
Technical Review by: A.K. on 2021-04-22

Independent Review by: D.L. on 2021-04-22



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- Existing Culvert
- Existing Storm Drain
- Seep/Spring
- Wetland Determination Sample Point
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, 2019, ESRI, Inc.
3. Orthorectification: 2019/1/14/20



Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

19/07/2020

Prepared by: J.H. on 2021-04-19

Technical Review by: A.K. on 2021-04-22

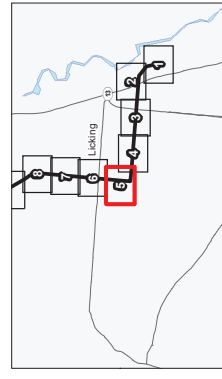
Independent Review by: D.L. on 2021-04-22

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Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- Existing Culvert
- Existing Storm Drain
- Seep/Spring
- Welland Determination Sample Point
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, 2019, ESRI, BNA, COARP, MDCS
3. Orthorectification: 2019 NAD



Disclaimer: Stantec does not accept any liability for the accuracy or completeness of the data. The recipient accepts full responsibility for verifying the accuracy and completeness of the data. The recipient releases Stantec, its officers, employees, consultants and agents, from any and all claims arising in any way from the content or creation of the data.

Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

County and Listing Counties

Technical Review by AEP on 2021-04-19

Independent Review by 2015 on 2021-04-22

19270128

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N

Legend

AP Substation

Existing Structure to be Replaced

Proposed Structure

Existing 138 kV Transmission Line to be Rebuilt

Proposed 138 kV Transmission Line

Proposed Access Road

Project Area

Photo Location

Existing Culvert

Existing Storm Drain

Seep/Spring

Wetland Determination Sample Point

Upland Drainage Feature

Approximate Upland Drainage Feature

Field Delineated Waterway

Approximate Waterway

Field Delineated Waterway Area

Field Delineated Open Water

Approximate Open Water

Field Delineated Emergent Wetland

Field Delineated Scrub-Shrub Wetland

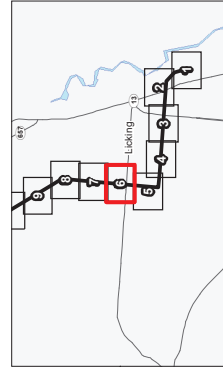
Approximate Wetland

National Wetlands Inventory Feature

FEMA Flood Hazard Area

100-year Floodplain

Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, 2015; FMA, COAP, MADS
3. Orthorectification: 2019/1/14



Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Cooper and Licking Counties,
Ohio

19-0701238

Prepared by: J.H. on 2021-04-19

Technical Review by: A.K. on 2021-04-22

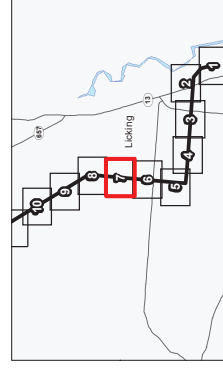
Independent Review by: D.L. on 2021-04-22

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Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- Existing Culvert
- Existing Storm Drain
- Seep/Spring
- Welland Determination Sample Point
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, USGS, FEMA, COBRP, NAD 83
3. Orthorectification: 2019/1/14/19

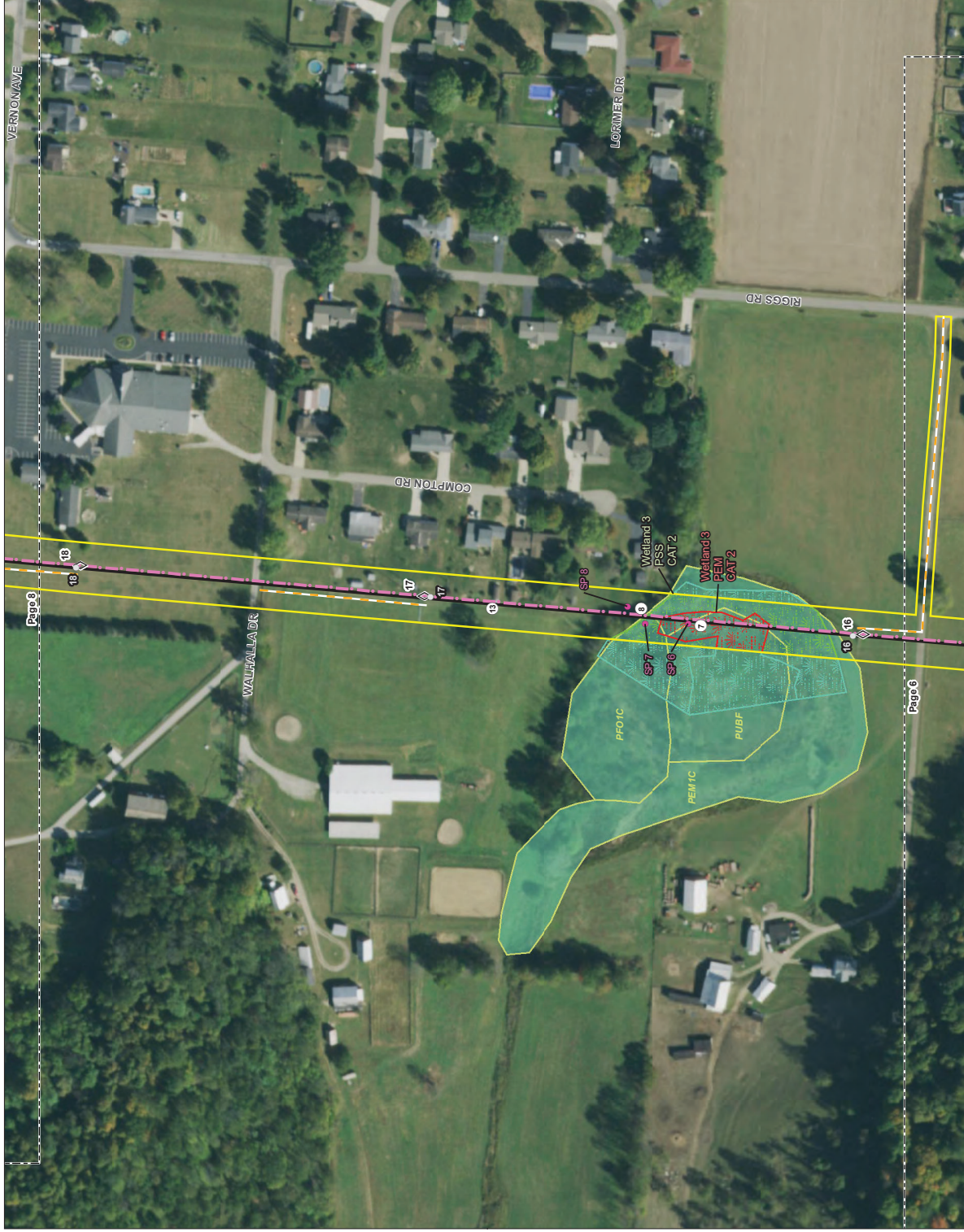


Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

19270128

Prepared by: J.H. on 2021-04-19

Technical Review by: A.K. on 2021-04-22

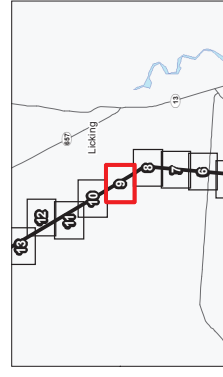
Independent Review by: D.G. on 2021-04-22

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1:2,400 (A1 original document size of 11x17)



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- Existing Culvert
- △ Existing Storm Drain
- Seep/Spring
- Wetland Determination Sample Point
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, 2019; USGS, 2019; FEMA, 2019; AEP, 2019
3. Orthorectification: 2019/1/10



Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

19-070-028

Prepared by: J.H. on 2021-04-19

Technical Review by: A.K. on 2021-04-22

Independent Review by: D.G. on 2021-04-22

Scale

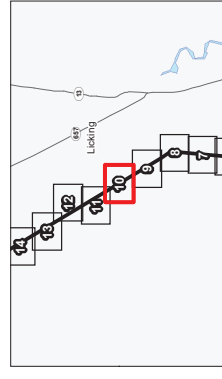
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North Arrow

0 100 200 Feet

Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- Existing Culvert
- Existing Storm Drain
- Seep/Spring
- Wetland Determination Sample Point
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, 2019, 1:24,000 Scale, 30m Resolution
3. Orthorectification: 2019 NAD



Wetland and Waterbody
Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location 193707328

Knox and Licking Counties,

Ohio

2

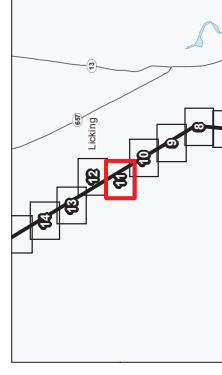
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Legend

- | | | |
|---|---|--------------------------------------|
| ■ | APF Substation | Field Delineated Waterway |
| ● | Existing Structure to be Replaced | Approximate Waterway |
| ◇ | Proposed Structure | Field Delineated Waterway Area |
| ▤ | Existing 138 kV Transmission Line to be Rebuilt | Field Delineated Open Water |
| ▥ | Proposed 138 kV Transmission Line | Approximate Open Water |
| ▧ | Proposed Access Road | Field Delineated Emergent Wetland |
| ▨ | Project Area | Field Delineated Scrub-Shrub Wetland |
| ○ | Photo Location | Approximate Wetland |
| △ | Existing Culvert | National Wetlands Inventory Feature |
| ▽ | Existing Storm Drain | FEMA Flood Hazard Area |
| ● | Seep/Spring | 100-year Floodplain |
| ● | Wetland Determination Sample Point | Roadway |
| ● | Upland Drainage Feature | |
| ~ | Approximate Upland Drainage Feature | |



Notes

- NOTES**
1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Data Sources: Stantec, AEP, USGS, FEMA, OGRIP, NADS
 3. Orthophotography: 2019 NAIP

J. Chromatogr. 2017, 1404, 1–11



Figure No.

2

Wetland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

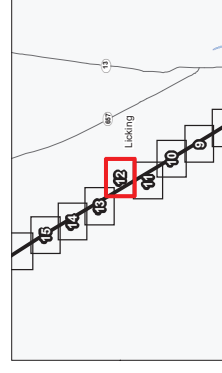
19370128
Prepared by: J.H. on 2021-04-19
Technical Review by: A.K. on 2021-04-22
Independent Review by: D.G. on 2021-04-22

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1:2,400 (A1 original document size of 11x17)



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- △ Existing Culvert
- ▲ Existing Storm Drain
- Seep/Spring
- Wetland Determination Sample Point
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, USGS, FEMA, CORP, MGS
3. Orthorectification: 2019 NAD



Figure No.

2

Wetland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio and Licking Counties,
Ohio

19/07/2020

Prepared by: JLT on 2021-04-19

Technical Review by: ALE on 2021-04-22

Independent Review by: DLO on 2021-04-22

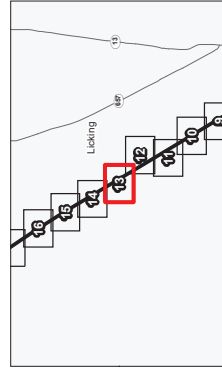
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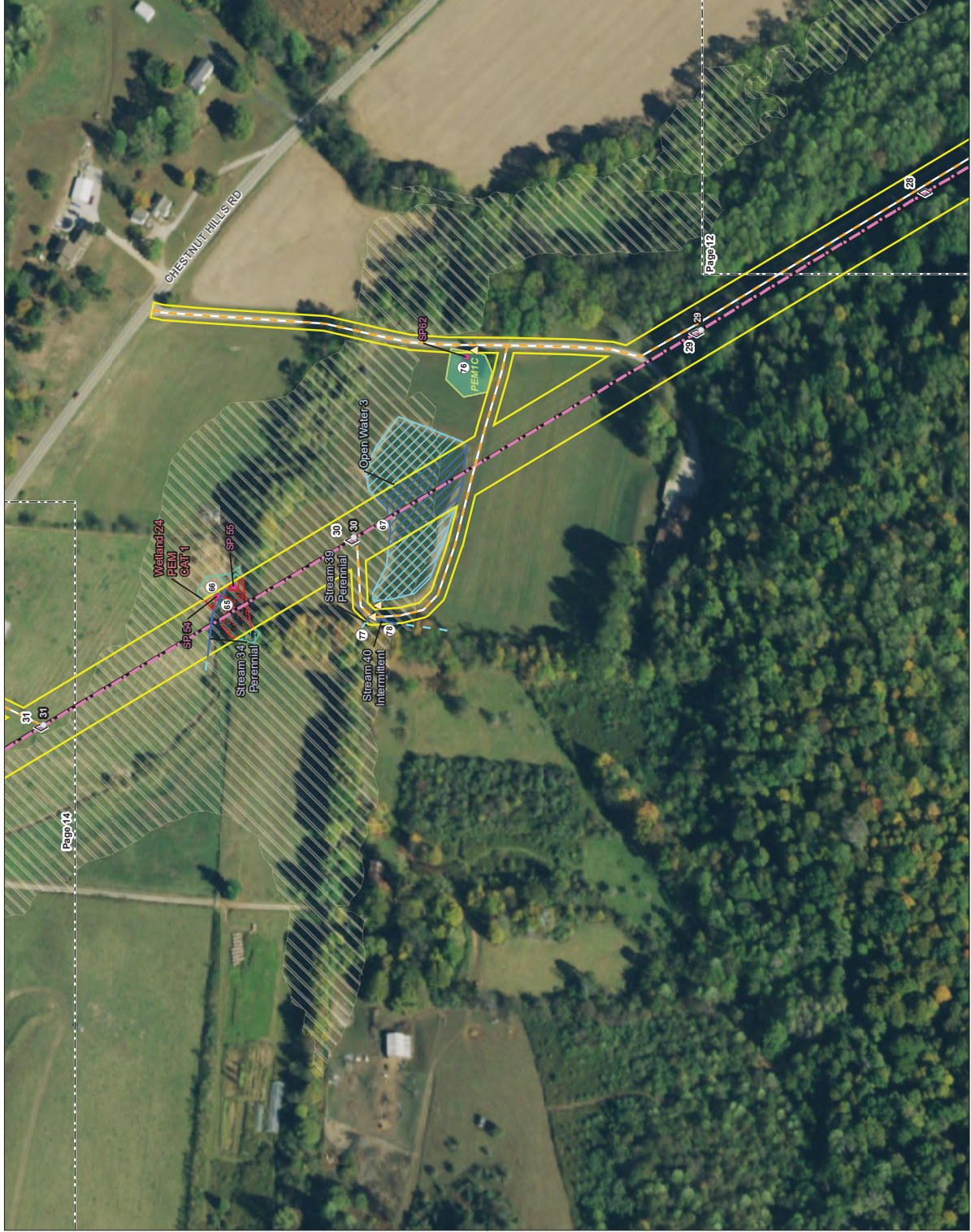
Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- △ Existing Culvert
- ▲ Existing Storm Drain
- Seep/Spring
- Wetland Determination Sample Point
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, LIDAR, USGS, FEMA, COBRP, NADOS
3. Orthorectification: 2019 NAD



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Figure No.

2

Wetland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

192701230

Prepared by: J.H. on 2021-04-19

Technical Review by: A.K. on 2021-04-22

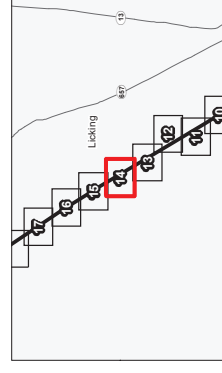
Independent Review by: D.L. on 2021-04-22

Scale
0 100 200 Feet
1:2,400 (A1 original document size of 11x17)



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- Existing Culvert
- △ Existing Storm Drain
- Seep/Spring
- Wetland Determination Sample Point
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. State Plane Coordinate System, NAD 1983, FIPS 5003, GCS, NAD83
3. Orthorectified by 2019 NAD



Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

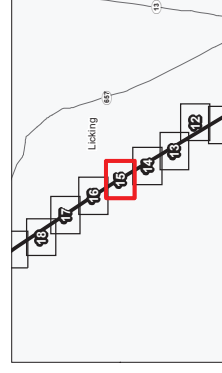
191071238
Prepared by: J.A. on 2021-04-19
Technical Review by: A.K. on 2021-04-19
Final Review by: J.A. on 2021-04-22
Independent Review by: J.A. on 2021-04-22

0 100 200 Feet
1:2,400 (A1 original document size of 11x17)



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- Existing Culvert
- Existing Storm Drain
- Seep/Spring
- Wetland Determination Sample Point
- Upland Drainage Feature
- Approximate Upland Drainage Feature
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- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, 2019
3. Orthorectification: 2019 NAD



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Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio and Licking Counties,

Ohio

19-070-128

Prepared by: J.H. on 2021-04-19

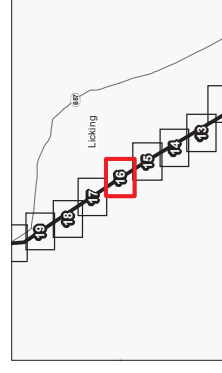
Technical Review by: A.K. on 2021-04-22

Independent Review by: D.G. on 2021-04-22



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- Existing Culvert
- △ Existing Storm Drain
- Seep/Spring
- Wetland Determination Sample Point
- Upland Drainage Feature
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- Field Delineated Waterway
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- Approximate Open Water
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- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery from 2019, 2018, 2017, 2016, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996, 1995, 1994, 1993, 1992, 1991, 1990, 1989, 1988, 1987, 1986, 1985, 1984, 1983, 1982, 1981, 1980, 1979, 1978, 1977, 1976, 1975, 1974, 1973, 1972, 1971, 1970, 1969, 1968, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1959, 1958, 1957, 1956, 1955, 1954, 1953, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1943, 1942, 1941, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1922, 1921, 1920, 1919, 1918, 1917, 1916, 1915, 1914, 1913, 1912, 1911, 1910, 1909, 1908, 1907, 1906, 1905, 1904, 1903, 1902, 1901, 1900, 1899, 1898, 1897, 1896, 1895, 1894, 1893, 1892, 1891, 1890, 1889, 1888, 1887, 1886, 1885, 1884, 1883, 1882, 1881, 1880, 1879, 1878, 1877, 1876, 1875, 1874, 1873, 1872, 1871, 1870, 1869, 1868, 1867, 1866, 1865, 1864, 1863, 1862, 1861, 1860, 1859, 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Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

193701240

Prepared by: JLT on 2021-04-19

Technical Review by: AJK on 2021-04-22

Independent Review by: DLS on 2021-04-22

Scale

1:2,400 (A1 original document size of 11x17)

North Arrow

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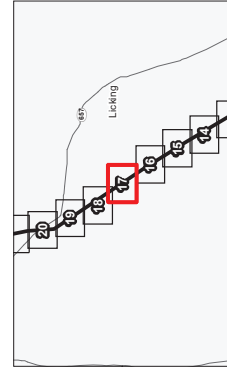
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Notes

1. Coordinate System: NAD 1983 UTM Zone 17N

2. Data Source: Aerial Imagery, 2019

3. Orthorectification: 2019 NAD



Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

193701238

Prepared by J.H. on 2021-04-19

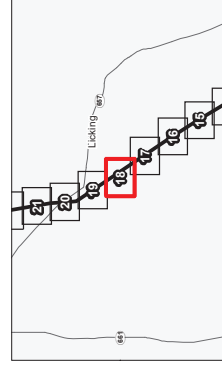
Technical Review by A.K. on 2021-04-22

Independent Review by D.L. on 2021-04-22



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- △ Existing Culvert
- ▲ Existing Storm Drain
- Seep/Spring
- Wetland Determination Sample Point
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery from 2019, 2018, 2017, 2016, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996, 1995, 1994, 1993, 1992, 1991, 1990, 1989, 1988, 1987, 1986, 1985, 1984, 1983, 1982, 1981, 1980, 1979, 1978, 1977, 1976, 1975, 1974, 1973, 1972, 1971, 1970, 1969, 1968, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1959, 1958, 1957, 1956, 1955, 1954, 1953, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1943, 1942, 1941, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1922, 1921, 1920, 1919, 1918, 1917, 1916, 1915, 1914, 1913, 1912, 1911, 1910, 1909, 1908, 1907, 1906, 1905, 1904, 1903, 1902, 1901, 1900, 1899, 1898, 1897, 1896, 1895, 1894, 1893, 1892, 1891, 1890, 1889, 1888, 1887, 1886, 1885, 1884, 1883, 1882, 1881, 1880, 1879, 1878, 1877, 1876, 1875, 1874, 1873, 1872, 1871, 1870, 1869, 1868, 1867, 1866, 1865, 1864, 1863, 1862, 1861, 1860, 1859, 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Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

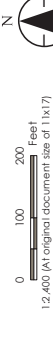
Ohio

19/07/2020

Prepared by: J.H. on 2021/04/19

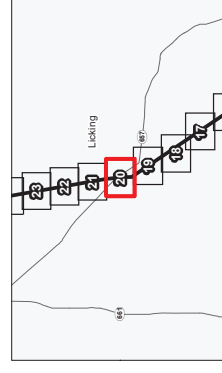
Technical Review by: A.K. on 2021/04/22

Independent Review by: D.L. on 2021/04/22



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- Existing Culvert
- ▲ Existing Storm Drain
- Seep/Spring
- Wetland Determination Sample Point
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, 2019
3. Orthorectification: 2019 NAD





Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

19370128

Prepared by: J.H. on 2021-04-19

Technical Review by: A.K. on 2021-04-22

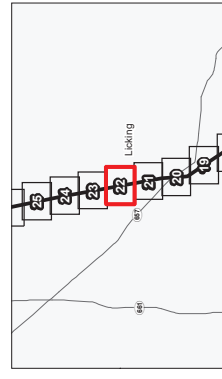
Independent Review by: D.G. on 2021-04-22

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Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- Existing Culvert
- △ Existing Storm Drain
- Seep/Spring
- Wetland Determination Sample Point
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, 2019; USGS, 2019; FEMA, 2019; AEP, 2019
3. Orthorectification: 2019 NAD





Figure No.

2

Wetland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio
Crawford and Licking Counties

193701240

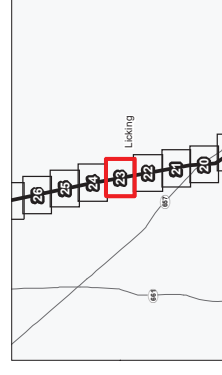
Prepared by JLT on 2021-04-19
Technical Review by AJK on 2021-04-22
Independent Review by JLG on 2021-04-22

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Feet
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Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- - - Proposed 138 kV Transmission Line
- - - Proposed Access Road
- Project Area
- Photo Location
- Existing Culvert
- △ Existing Storm Drain
- Wellhead Determination
- Sample Point
- Upland Drainage Feature
- - - Approximate Upland Drainage Feature
- Field Delineated Waterway
- - - Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Shrub Wetland
- Approximate Wetland
- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery from 2019, USGS, NOAA, USFWS, USFIS, FEMA, COGIP, NAD 83
3. Orthorectification: 2019 NAD 83



Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

19370128

Prepared by J.H. on 2021-04-19

Technical Review by A.K. on 2021-04-22

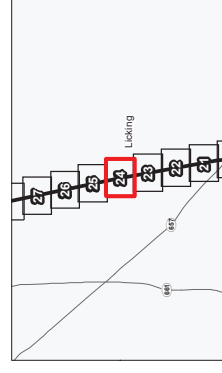
Independent Review by D.L. on 2021-04-22

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Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- Existing Culvert
- Existing Storm Drain
- Seep/Spring
- Welland Determination Sample Point
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, 2019; USGS, NHD
3. Orthorectification: 2019 NAD



Page 24 of 55



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Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

19370128

Prepared by JLI on 2021-04-19

Technical Review by AJK on 2021-04-22

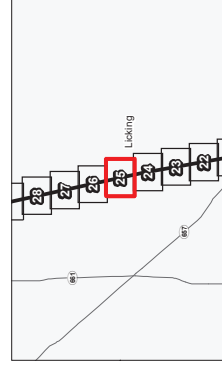
Independent Review by DLS on 2021-04-22

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- Proposed 138 kV Transmission Line
- Proposed Access Road
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- Photo Location
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- Approximate Upland Drainage Feature
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- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, USGS, FEMA, CORP, MGS
3. Orthorectification: 2019 NAD



Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio and Licking Counties,
Ohio

192707238

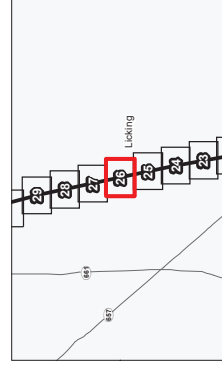
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Technical Review by A/E on 2021-04-22
Independent Review by JLI on 2021-04-22

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- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, LIDAR, GPS, FMA, COIRP, NADOS
3. Orthorectification: 2019 NAD



Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

19370128

Prepared by: J.H. on 2021-04-19

Technical Review by: A.K. on 2021-04-22

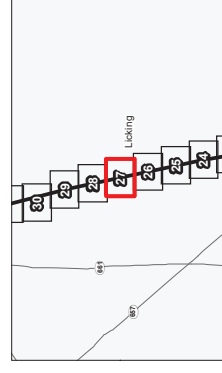
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- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data sources include: AEP GIS, USGS, FEMA, CORP, NAD 83, Orthophotography, 2019 NAD



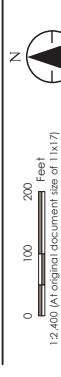
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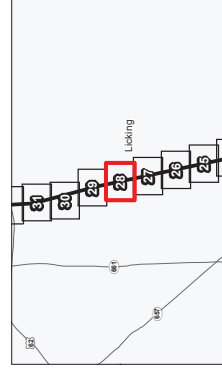
Welland and Waterbody Delineation Map

Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project location
Ohio
19370128
Prepared by: JLT on 2021-04-19
Technical Review by: AJK on 2021-04-19
Independent Review by: DLS on 2021-04-22



- Legend**
- AEP Substation
 - Existing Structure to be Replaced
 - ◇ Proposed Structure
 - Existing 138 kV Transmission Line to be Rebuilt
 - Proposed 138 kV Transmission Line
 - Proposed Access Road
 - Project Area
 - Photo Location
 - Existing Culvert
 - Existing Storm Drain
 - Seep/Spring
 - Welland Determination Sample Point
 - Upland Drainage Feature
 - Approximate Upland Drainage Feature
 - Field Delineated Waterway
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 - Field Delineated Waterway Area
 - Field Delineated Open Water
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 - FEMA Flood Hazard Area
 - 100-year Floodplain
 - Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, 2019 NAIP
3. Orthorectification: 2019 NAIP



Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

19/07/2020

Prepared by: J.H. on 2021-04-19

Technical Review by: A.E. on 2021-04-22

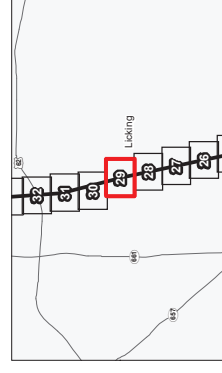
Independent Review by: D.G. on 2021-04-22

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Legend

- AEP Substation
- Existing Structure to be Replaced
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- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, LIDAR, GPS, FMA, COAP, NAD 83
3. Orthorectification: 2019 NAD

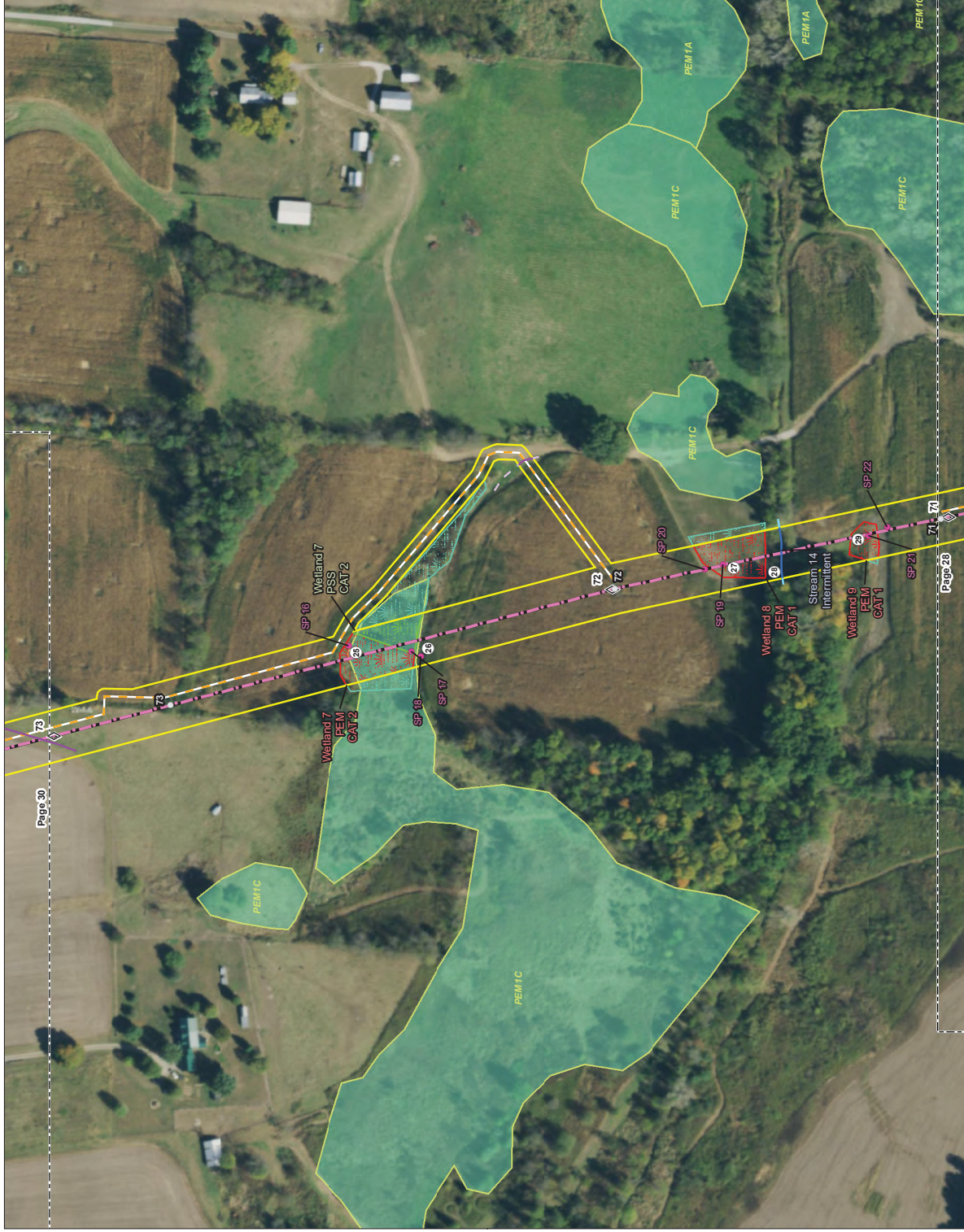


Figure No.

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Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

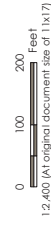
Good and Licking Counties,
Ohio

19370128

Prepared by: JLT on 2021-04-19

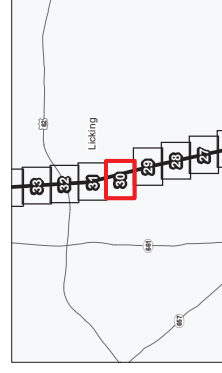
Technical Review by: AJK on 2021-04-22

Independent Review by: DLO on 2021-04-22



Legend

- AEP Substation
- Existing Structure to be Replaced
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- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, USGS, FEMA, CORP, MGS
3. Orthorectification: 2019 NAD



Figure No.

2

Wetland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

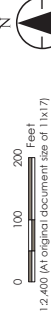
Ohio

19370128

Prepared by J.H. on 2021-04-19

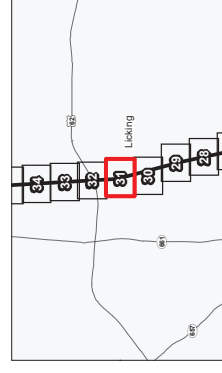
Technical Review by A.K. on 2021-04-22

Independent Review by D.G. on 2021-04-22



Legend

- AEP Substation
- Existing Structure to be Replaced
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- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data sources include: AEP GIS, USGS, FEMA, CORP, NAD 83, Orthophotography, 2019 NAD



Figure No.

2

Welland and Waterbody Delineation Map

Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

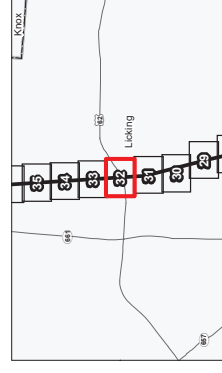
Project Location
Ohio
193701238
Prepared by: JLT on 2021-04-19
Technical Review by: AJK on 2021-04-22
Independent Review by: DLO on 2021-04-22

Scale
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Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
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- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, USGS, FEMA, COGIP, NAD 83
3. Orthorectification: 2019 NAD



Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location	193707328
Knox and Licking Counties, Ohio	Prepared by J.L.H. on 2021-04-13 Technical Review by A.J.K. on 2021-04-22 Independent Review by D.J.G. on 2021-04-22



■	APF Substation	Field Delineated Waterway
●	Existing Structure to be Replaced	Approximate Waterway
◇	Proposed Structure	Field Delineated Waterway Area
⚡	Existing 138 kV Transmission Line to be Rebuilt	Field Delineated Open Water
⚡	Proposed 138 kV Transmission Line	Approximate Open Water
⚡	Proposed Access Road	Field Delineated Emergent Wetland
□	Project Area	Field Delineated Scrub Shrub Wetland
○	Photo Location	Approximate Wetland
△	Existing Culvert	National Wetlands Inventory Feature
▲	Existing Storm Drain	FEMA Flood Hazard Area
●	Seep/Spring	100-year Floodplain
●	Wetland Determination Sample Point	Roadway
●	Approximate Upland Drainage Feature	

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources: Stantec, AEP, USGS, FEMA, OGRIP, NADS
3. Orthophotography: 2019 NAIP

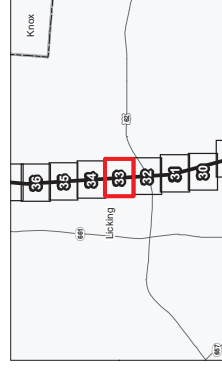


Figure No.

2

Wetland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Coos and Licking Counties,
Ohio

19370128

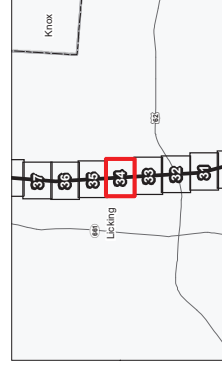
Prepared by J.H. on 2021-04-19
Technical Review by A.K. on 2021-04-22
Independent Review by D.L. on 2021-04-22

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Legend

- AEP Substation
- Existing Structure to be Replaced
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- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
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- Approximate Wetland
- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

- Coordinate System: NAD 1983 UTM Zone 17N
- Horizontal Accuracy: ± 3.0 Meters (9.84 Feet)
- Orthorectification: 2019 NAD



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Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

County and Locating Counties

Ohio

19/07/2020

Prepared by: JLL on 2021-04-19

Technical Review by: AJL on 2021-04-22

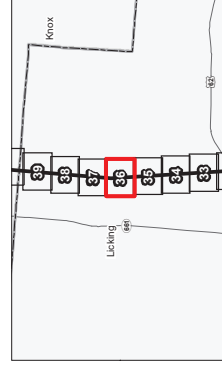
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Legend

- AEP Substation
- Existing Structure to be Replaced
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- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, USGS, FEMA, COARP, NAD 83
3. Orthorectification: 2019 NAD



Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

County and Locating Counties

19370328

Prepared by J.H. on 2021-04-19

Technical Review by A.K. on 2021-04-22

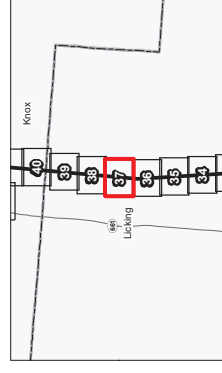
Independent Review by D.L. on 2021-04-22

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Legend

- AEP Substation
- Existing Structure to be Replaced
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- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, 2019; LIDAR, 2019; USGS, 2019; FEMA, 2019; AEP, 2019
3. Orthorectification: 2019 NAD



Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Knox and Licking Counties,
Ohio

193707238

Prepared by JLT on 2021-04-19

Technical Review by AJK on 2021-04-22

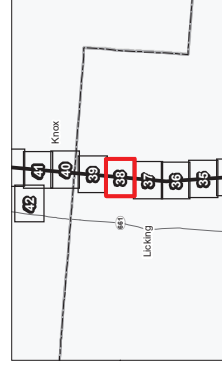
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Legend

- AEP Substation
- Existing Structure to be Replaced
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- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, USGS, FEMA, COGAP, NAD83
3. Orthorectification: 2019 NAD83



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Figure No.

2

Wetland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project location
Ohio and Licking Counties,
Ohio

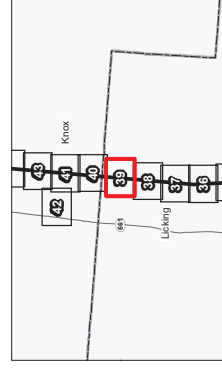
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Independent Review by: DLO on 2021-04-22

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Legend

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- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data source: National Wetlands Inventory, FEMA, CORP, NADOS
3. Orthorectification: 2019 NAD



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Welland and Waterbody Delineation Map

Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

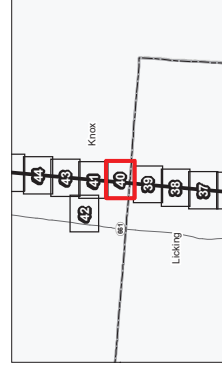
Project Location
Ohio and Licking Counties, Ohio
19370128
Prepared by JLI on 2021-04-19
Technical Review by AJK on 2021-04-22
Independent Review by DLO on 2021-04-22

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- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, LIDAR, Topographic Data, etc.
3. Orthorectification: 2019 NAD



Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio
Knox and Licking Counties

192701238

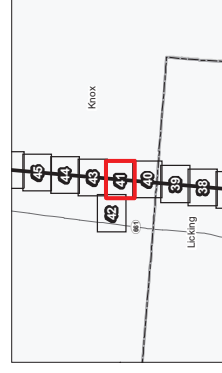
Prepared by J.H. on 2021-04-19
Technical Review by A.K. on 2021-04-22
Independent Review by D.G. on 2021-04-22

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- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, 2019, ESRI, Inc.
3. Orthorectification: 2019 NAD

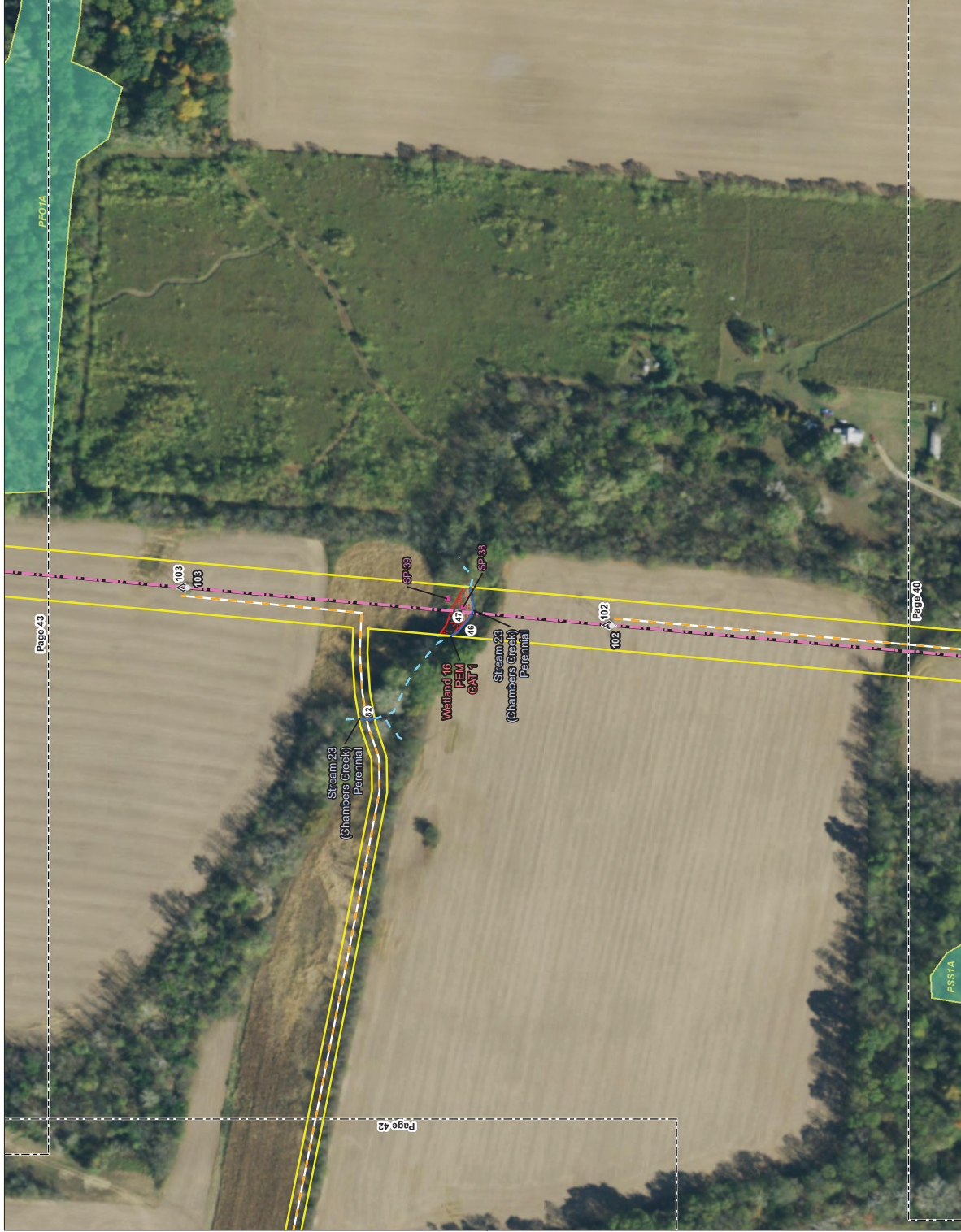


Figure No.

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Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

193707238

Prepared by A/E on 2021-04-19

Technical Review by A/E on 2021-04-22

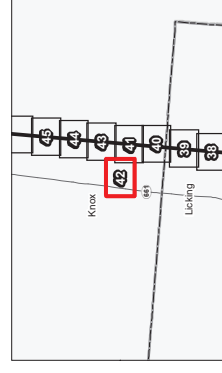
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Legend

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- FEMA Flood Hazard Area
- 100-year Floodplain
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Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, USGS, FEMA, COGIP, NAD83
3. Orthorectification: 2019 NAD83



Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Knox and Licking Counties,
Ohio

19-070128

Prepared by J.H. on 2021-04-19

Technical Review by A.K. on 2021-04-22

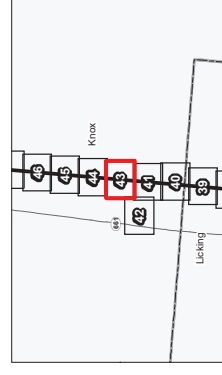
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Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, USGS, FEMA, COIRP, NAD 83
3. Orthorectification: 2019 NAD



Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Knox and Licking Counties,
Ohio

193701328

Prepared by: J.H. on 2021-04-19

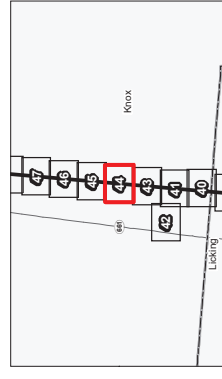
Technical Review by: A.K. on 2021-04-22

Independent Review by: D.G. on 2021-04-22



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- Existing Culvert
- ▲ Existing Storm Drain
- Seep/Spring
- Wetland Determination Sample Point
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, USGS, NOAA, etc.
3. Orthorectification: 2019 NAD

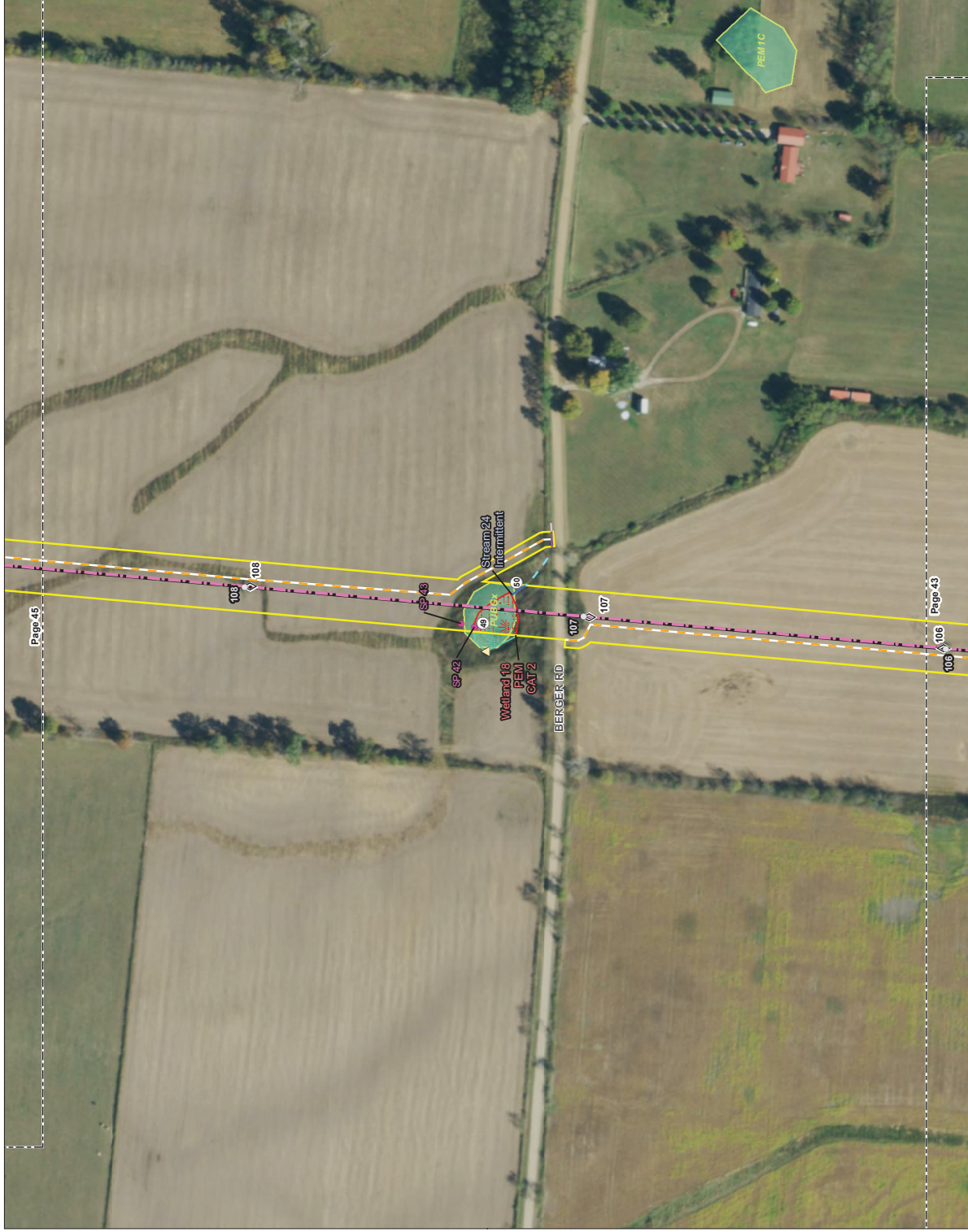


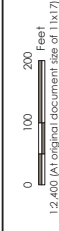
Figure No.

2

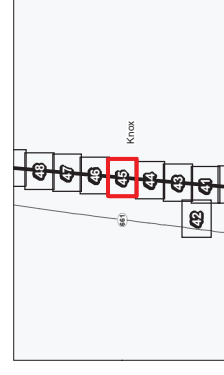
Welland and Waterbody Delineation Map

Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Ohio
19370128
Prepared by JLT on 2021-04-19
Technical Review by AJK on 2021-04-22
Independent Review by DLS on 2021-04-22



- Legend**
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 - 100-year Floodplain
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Notes
1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, USGS, FEMA, CORP, NADOS
3. Orthorectification: 2019 NAD



Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio and Licking Counties,
Ohio

19270128

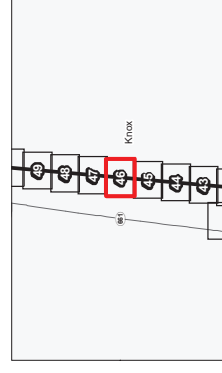
Prepared by J.H. on 2021-04-19
Technical Review by A.K. on 2021-04-22
Independent Review by D.G. on 2021-04-22

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Legend

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- Existing Structure to be Replaced
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- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, LIDAR, USGS, FEMA, CORP, NAD 83
3. Orthorectification: 2019 NAD



Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

19370728

Prepared by J.H. on 2021-04-19

Technical Review by A.K. on 2021-04-22

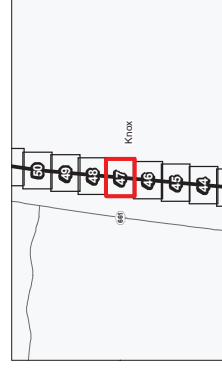
Independent Review by D.G. on 2021-04-22

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Legend

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- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, 2019 NAIP
3. Orthorectification: 2019 NAIP





Wetland and Waterbody
Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Knox and Licking Counties,

Ohio

Percentage of respondents who have used a mobile phone to access the Internet	Percentage of respondents
100%	100%

12,400 (At original da

Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio
Crawford and Jackson Counties

192701238

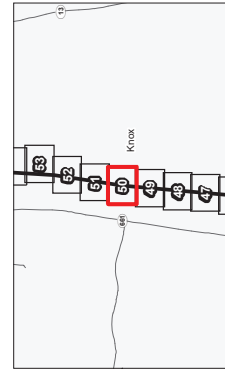
Prepared by J.H. on 2021-04-19
Technical Review by A.K. on 2021-04-22
Independent Review by D.L. on 2021-04-22

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1:2,400 (A1 original document size of 11x17)



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- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, USGS, FEMA, COGIP, NAD83
3. Orthorectification: 2019 NAD83



Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

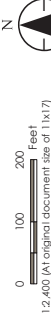
Ohio and Licking Counties

19370128

Prepared by J.H. on 2021-04-19

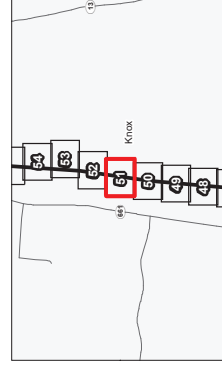
Technical Review by A.K. on 2021-04-22

Independent Review by D.G. on 2021-04-22



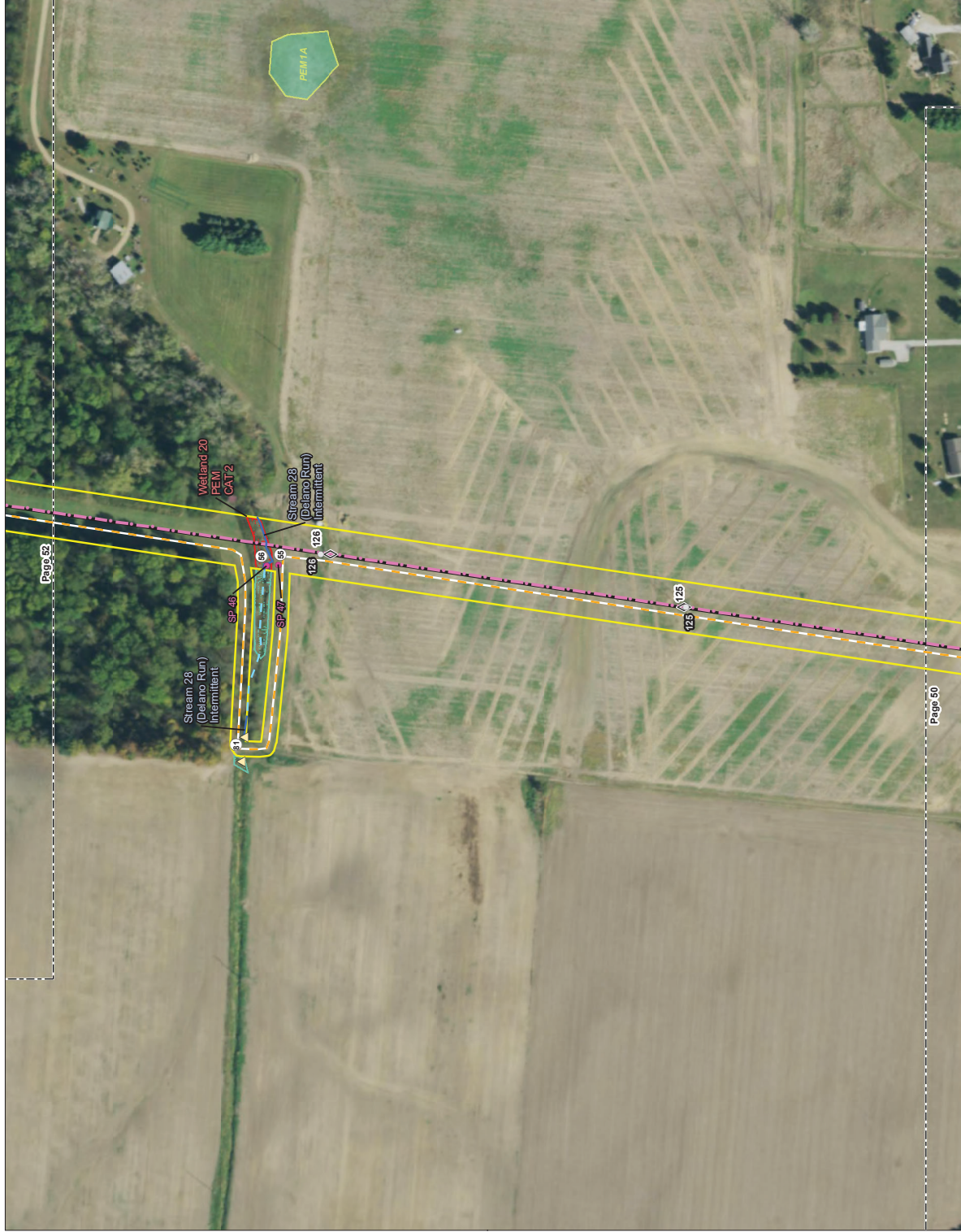
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Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery from 2019, 2018, 2017, 2016, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996, 1995, 1994, 1993, 1992, 1991, 1990, 1989, 1988, 1987, 1986, 1985, 1984, 1983, 1982, 1981, 1980, 1979, 1978, 1977, 1976, 1975, 1974, 1973, 1972, 1971, 1970, 1969, 1968, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1959, 1958, 1957, 1956, 1955, 1954, 1953, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1943, 1942, 1941, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1922, 1921, 1920, 1919, 1918, 1917, 1916, 1915, 1914, 1913, 1912, 1911, 1910, 1909, 1908, 1907, 1906, 1905, 1904, 1903, 1902, 1901, 1900, 1899, 1898, 1897, 1896, 1895, 1894, 1893, 1892, 1891, 1890, 1889, 1888, 1887, 1886, 1885, 1884, 1883, 1882, 1881, 1880, 1879, 1878, 1877, 1876, 1875, 1874, 1873, 1872, 1871, 1870, 1869, 1868, 1867, 1866, 1865, 1864, 1863, 1862, 1861, 1860, 1859, 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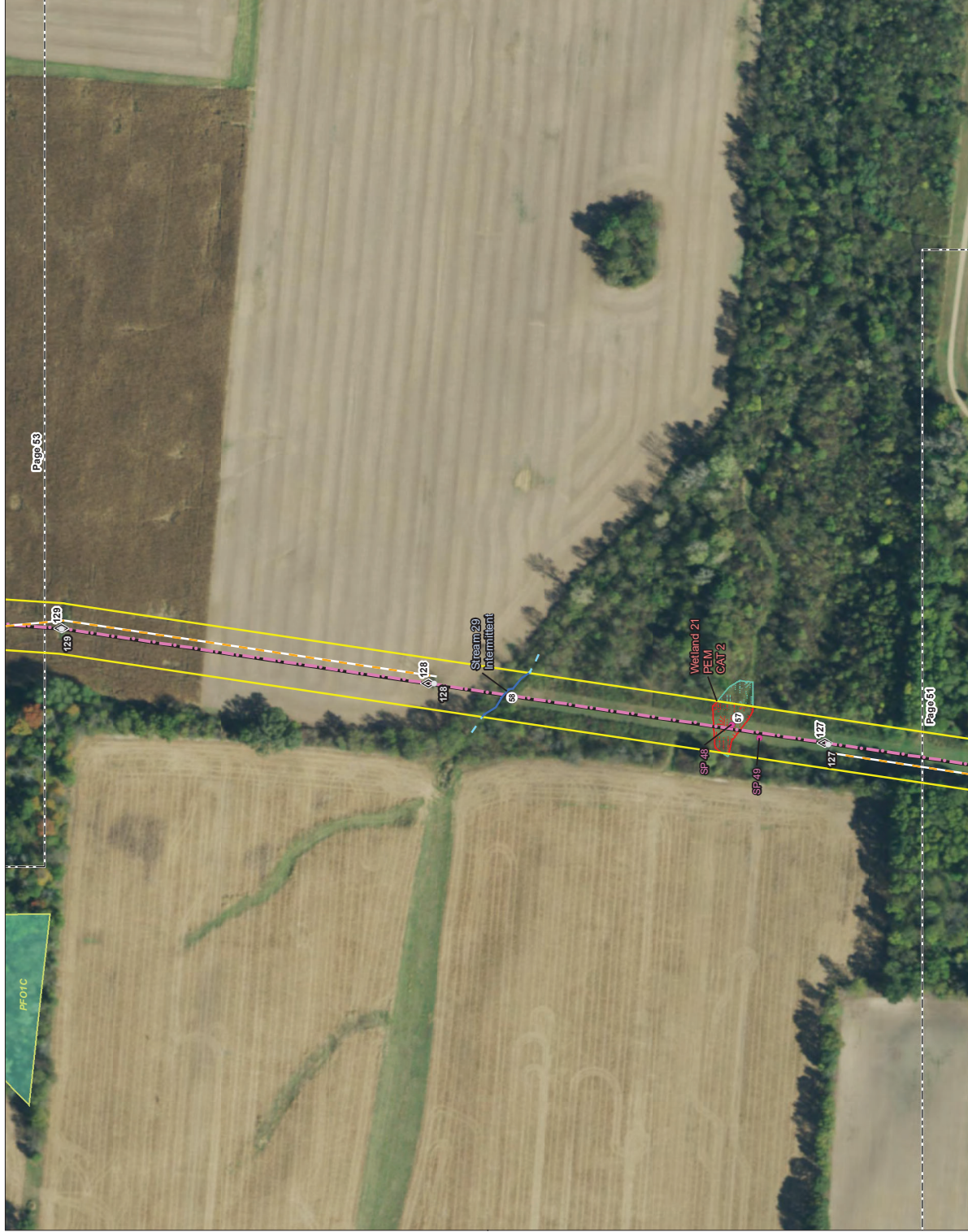


Figure No.

2

Wetland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

County and Listing Counties

Ohio

193701280

Prepared by J.H. on 2021-04-19

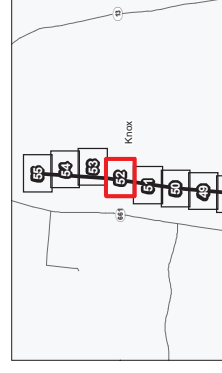
Technical Review by A.E. on 2021-04-22

Independent Review by D.C. on 2021-04-22



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- Existing Culvert
- Existing Storm Drain
- Seep/Spring
- Wetland Determination Sample Point
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery from 2019, USGS, NOAA, FEMA, COGIP, IMOS
3. Orthorectification: 2019 NAD

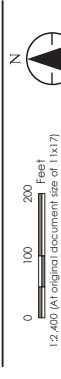


Wetland and Waterbody
Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location	193707328
Knox and Licking Counties, Ohio	Prepared by J.L.H on 2021-04-13 Technical Review by A.J.K on 2021-04-22 Independent Review by D.J.G on 2021-04-22



- | | | |
|---------------|--|---|
| Legend | AEP Substation
Existing Structure to be Replaced
Proposed Structure
Existing 138 kV Transmission Line to be Rebuilt
Proposed 138 kV Transmission Line
Proposed Access Road
Project Area
Photo Location
Existing Culvert
Existing Storm Drain
Seep/Spring
Wetland Determination Sample Point
upland Drainage Feature
Approximate Upland Drainage Feature | Field Delineated Waterway
Approximate Waterway
Field Delineated Waterway Area
Field Delineated Open Water
Approximate Open Water
Field Delineated Emergent Wetland
Field Delineated Scrub-Shrub Wetland
Approximate Wetland
National Wetlands Inventory Feature
FEMA Flood Hazard Area
100-year Floodplain
Roadway |
|---------------|--|---|

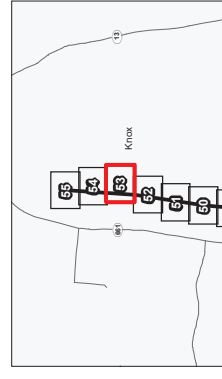


Figure No.

2

Wetland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

19/07/2020

Prepared by: J.H. on 2021-04-13

Technical Review by: A.E. on 2021-04-22

Final Review by: J.H. on 2021-04-22

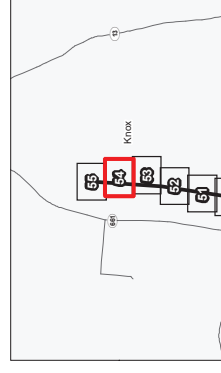
Independent Review by: J.H. on 2021-04-22

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Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- Existing Culvert
- △ Existing Storm Drain
- Seep/Spring
- Wetland Determination Sample Point
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery, 2019
3. Orthorectification: 2019 NAD

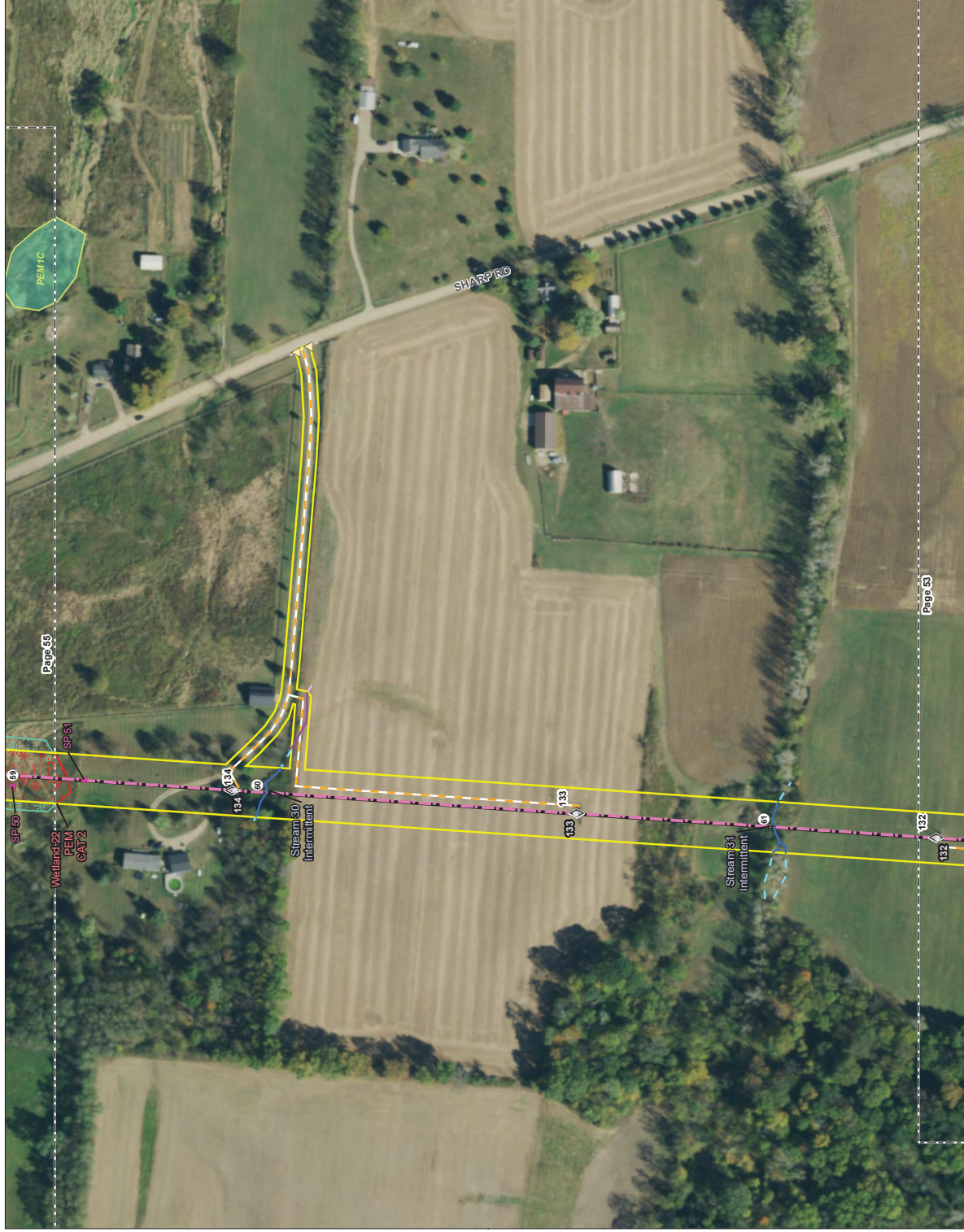


Figure No.

2

Welland and Waterbody Delineation Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

19270128

Prepared by: JLT on 2021-04-19

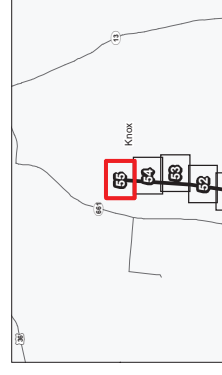
Technical Review by: AJK on 2021-04-22

Independent Review by: DLS on 2021-04-22



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- Existing Culvert
- Existing Storm Drain
- Seep/Spring
- Welland Determination Sample Point
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- National Wetlands Inventory Feature
- FEMA Flood Hazard Area
- 100-year Floodplain
- Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Source: Aerial Imagery from 2019, USGS, NOAA, FEMA, COGIP, MDCS
3. Orthorectification: 2019 NAD



**NORTH NEWARK–SHARP ROAD 138 KV TRANSMISSION LINE REBUILD PROJECT ECOLOGICAL
RESOURCES INVENTORY REPORT**

April 23, 2021

A.3 FIGURE 3 – HABITAT ASSESSMENT MAP

Figure No.

3

Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Ohio and Lorain Counties,
Ohio

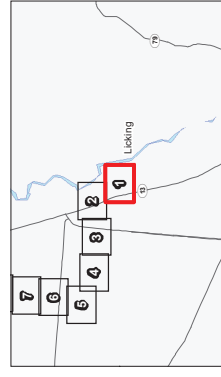
19/07/2020
Prepared by: JLL on 2021-04-19
Technical Review by: AEP on 2021-04-22
Independent Review by: JLL on 2021-04-22

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Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- △ Existing Culvert
- ▲ Existing Storm Drain
- Seep/Spring
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- Habitat Area
- Mixed Early Successional/Second Growth Deciduous Forest
- Early Successional Deciduous Forest
- Maintained Lawn
- Agricultural Field
- Old Field
- New Field
- Hayfield
- Pasture
- Industrial
- Existing Railroad
- Existing Paved Surface
- Existing Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COBRP, NADIS
3. Orthophoto imagery: 2017 NADP



Figure No.

3

Habitat Assessment Map

Client/Project

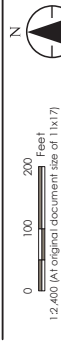
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Coos and Licking Counties,
Ohio

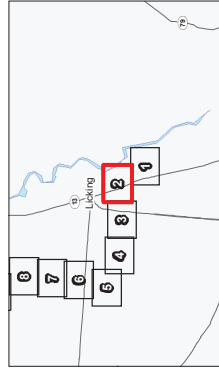
19-070-138

Prepared by: JLT on 2021-04-19
Technical Review by: AEP on 2021-04-22
Independent Review by: DLO on 2021-04-22



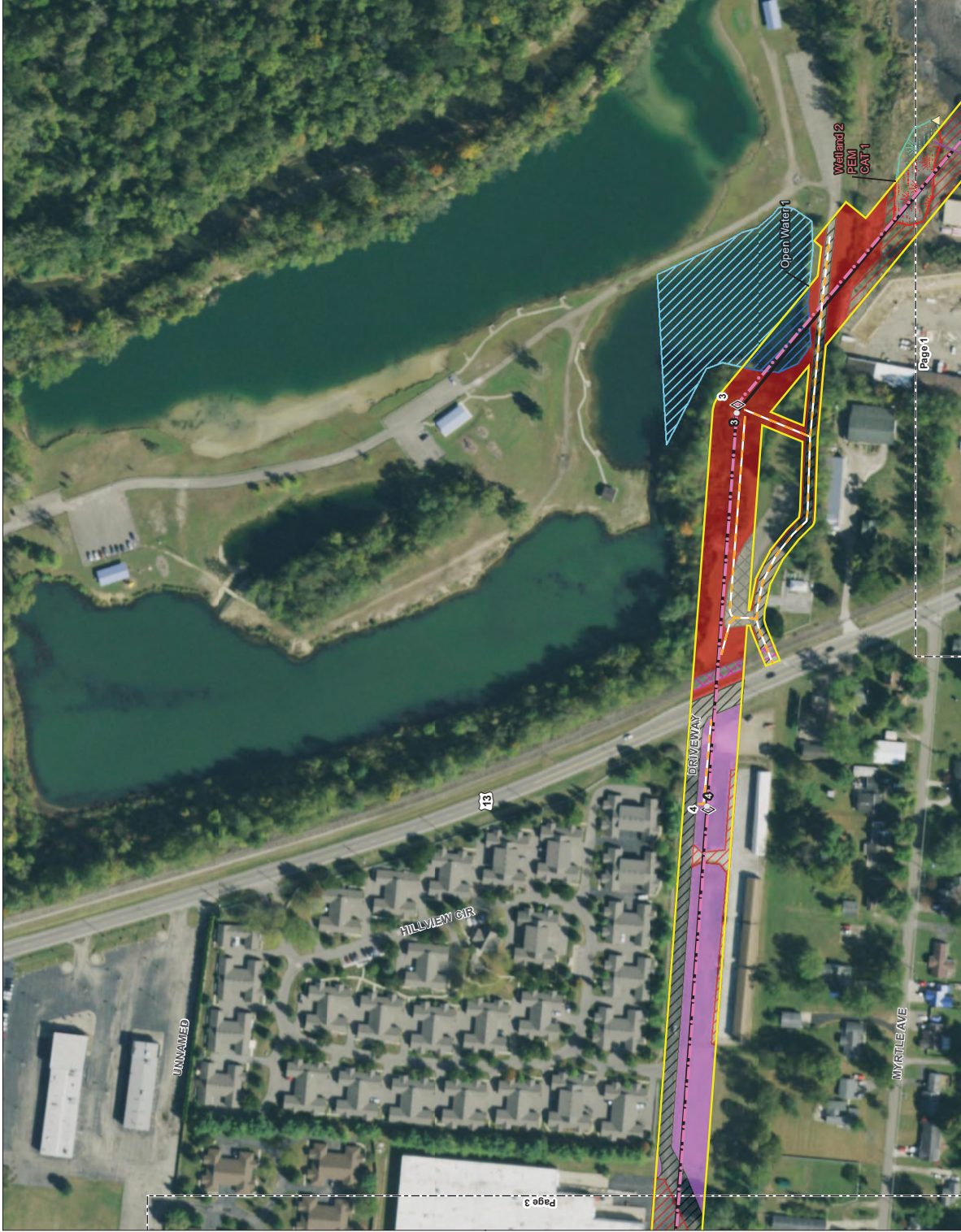
Legend

- | | |
|--|--|
| <ul style="list-style-type: none"> ■ AEP Substation ● Existing Structure to be Replaced ◇ Proposed Structure Existing 138 kV Transmission Line to be Rebuilt Proposed 138 kV Transmission Line Proposed Access Road Project Area Photo Location Existing Culvert Existing Storm Drain Seep/Spring Upland Drainage Feature Approximate Upland Drainage Feature Field Delineated Waterway Approximate Waterway Field Delineated Waterway Area Field Delineated Open Water | <ul style="list-style-type: none"> Approximate Open Water Field Delineated Emergent Wetland Field Delineated Scrub-Shrub Wetland Approximate Wetland Habitat Area Mixed Early Successional/Second Growth Deciduous Forest Early Successional Deciduous Forest Maintained Lawn Agricultural Field Old Field New Field Hayfield Pasture Industrial Existing Railroad Existing Paved Surface Existing Roadway |
|--|--|



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COBRP, NAD83
3. Orthophoto Imagery: 2017 NADP



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Figure No.

3

Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Coos and Licking Counties,
Ohio

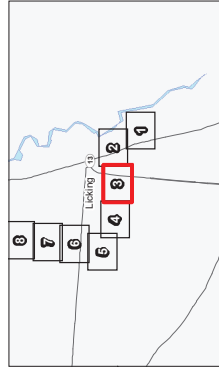
192070128

Prepared by: JLL on 2021-04-19
Technical Review by: AEP on 2021-04-22
Independent Review by: DLO on 2021-04-22



Legend

- | | |
|---|---|
| ■ AEP Substation | ○ Approximate Open Water |
| ● Existing Structure to be Replaced | ● Field Delineated Emergent Wetland |
| ◇ Proposed Structure | ● Field Delineated Scrub-Shrub Wetland |
| ◇ Existing 138 kV Transmission Line to be Rebuilt | ● Approximate Wetland Habitat Area |
| ~ Proposed 138 kV Transmission Line | ■ Mixed Early Successional/Second Growth Deciduous Forest |
| ~ Proposed Access Road | ■ Early Successional Deciduous Forest |
| □ Project Area | ■ Maintained Lawn |
| ○ Photo Location | ■ Agricultural Field |
| △ Existing Culvert | ■ Old Field |
| △ Existing Storm Drain | ■ New Field |
| ● Seep/Spring | ■ Hayfield |
| ~ Upland Drainage Feature | ■ Pasture |
| ~ Approximate Upland Drainage Feature | ■ Industrial |
| ~ Field Delineated Waterway | ■ Existing Railroad |
| ~ Approximate Waterway | ■ Existing Paved Surface |
| ~ Field Delineated Waterway Area | ■ Existing Roadway |
| ~ Field Delineated Open Water | |



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COWI, NADIS
3. Orthophotography: 2017 NADP



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Figure No.

3

Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Coos and Licking Counties,
Ohio

19707123

Prepared by: J.A. on 2021-04-19

Technical Review by: A.K. on 2021-04-22

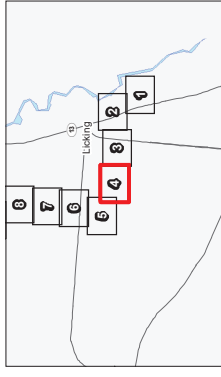
Independent Review by: J.D. on 2021-04-22

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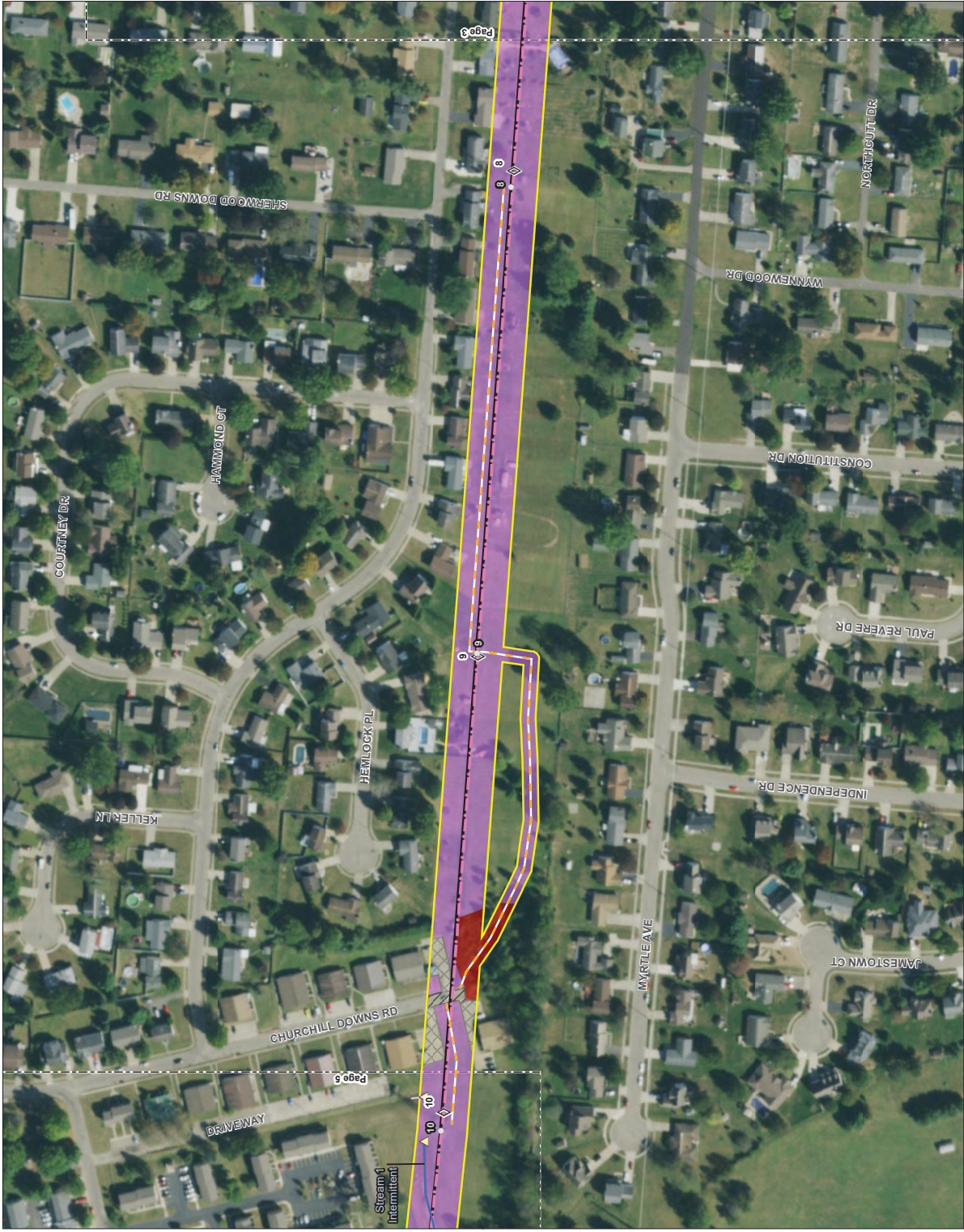
Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- △ Existing Culvert
- ▲ Existing Storm Drain
- Seep/Spring
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- Habitat Area
- Mixed Early Successional/Second Growth Deciduous Forest
- Early Successional Deciduous Forest
- Maintained Lawn
- Agricultural Field
- Old Field
- New Field
- Hayfield
- Pasture
- Industrial
- Existing Railroad
- Existing Paved Surface
- Existing Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COAP, NADs
3. Orthophoto imagery: 2017 NAD



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Figure No.

3

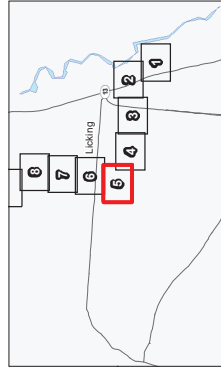
Habitat Assessment Map

Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Ohio
19/07/2020
Prepared by: JLT on 2021-04-19
Technical Review by: AEP on 2021-04-22
Independent Review by: DLO on 2021-04-22



- Legend**
- AEP Substation
 - Existing Structure to be Replaced
 - ◇ Proposed Structure
 - Existing 138 kV Transmission Line to be Rebuilt
 - Proposed 138 kV Transmission Line
 - Proposed Access Road
 - Project Area
 - Photo Location
 - △ Existing Culvert
 - ▲ Existing Storm Drain
 - Seep/Spring
 - Upland Drainage Feature
 - Approximate Upland Drainage Feature
 - Field Delineated Waterway
 - Approximate Waterway
 - Field Delineated Waterway Area
 - Field Delineated Open Water
 - Approximate Open Water
 - Field Delineated Emergent Wetland
 - Field Delineated Scrub-Shrub Wetland
 - Approximate Wetland
 - Habitat Area
 - Mixed Early Successional/Second Growth Deciduous Forest
 - Early Successional Deciduous Forest
 - Maintained Lawn
 - Agricultural Field
 - Old Field
 - New Field
 - Hayfield
 - Pasture
 - Industrial
 - Existing Railroad
 - Existing Paved Surface
 - Existing Roadway



Notes
1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COWI, NADP
3. Orthophoto imagery: 2017 NADP



Disclaimer: Stantec does not warrant the accuracy or completeness of the data. The recipient accepts full responsibility for verifying the accuracy and completeness of the data. The recipient releases Stantec, its officers, employees, consultants and agents, from any and all claims arising in any way from the content or creation of the data.

Figure No.

3

Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Crawford and Licking Counties,
Ohio

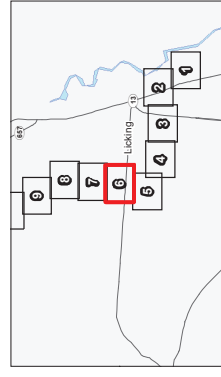
192701230
Prepared by J.H. on 2021-04-19
Technical Review by A.K. on 2021-04-22
Independent Review by J.D. on 2021-04-22

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Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- △ Existing Culvert
- ▲ Existing Storm Drain
- Seep/Spring
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub Wetland
- Approximate Wetland
- Habitat Area
- Mixed Early Successional/Second Growth Deciduous Forest
- Early Successional Deciduous Forest
- Maintained Lawn
- Agricultural Field
- Old Field
- New Field
- Hayfield
- Pasture
- Industrial
- Existing Railroad
- Existing Paved Surface
- Existing Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, OGRIP, NADIS
3. Original imagery by 2017 NADP

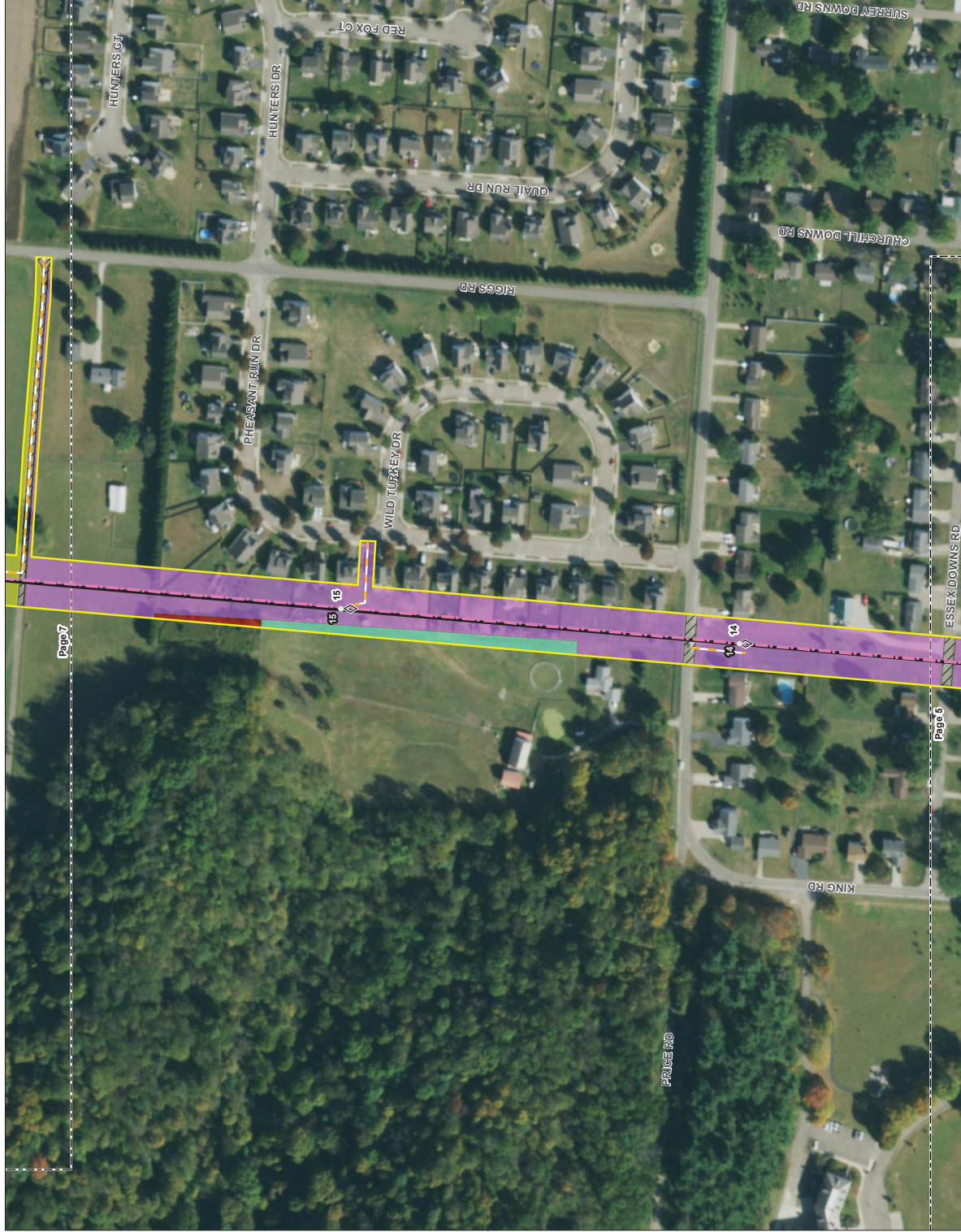


Figure No.

3

Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

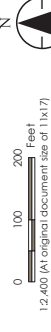
Coos and Licking Counties,
Ohio

19-070-1248

Prepared by JLT on 2021-04-19

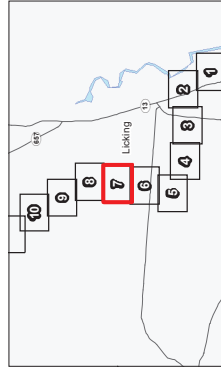
Technical Review by AEP on 2021-04-19

Independent Review by JLT on 2021-04-22



Legend

- | | | |
|---|---------------------------------------|----------------------------------|
| ■ AEP Substation | ○ Field Delineated Water | ■ Approximate Open Water |
| ● Existing Structure to be Replaced | ● Field Delineated Emergent Wetland | ● Field Delineated Scrub Wetland |
| ◇ Proposed Structure | ◇ Field Delineated Emergent Wetland | ◇ Field Delineated Scrub Wetland |
| ~ Existing 138 kV Transmission Line to be Rebuilt | ~ Proposed 138 kV Transmission Line | ~ Proposed Access Road |
| ~ Proposed 138 kV Transmission Line | ~ Project Area | ~ Photo Location |
| ~ Existing Culvert | ~ Existing Storm Drain | ~ Seep/Spring |
| ~ Upland Drainage Feature | ~ Approximate Upland Drainage Feature | ~ Field Delineated Waterway |
| ~ Approximate Waterway | ~ Field Delineated Waterway | ~ Field Delineated Open Water |
| ~ Field Delineated Open Water | ~ Field Delineated Open Water | ~ Field Delineated Open Water |
- Mixed Early Successional/Second Growth Deciduous Forest
■ Early Successional Deciduous Forest
■ Maintained Lawn
■ Agricultural Field
■ Old Field
■ New Field
■ Hayfield
■ Pasture
■ Industrial
■ Existing Railroad
■ Existing Paved Surface
■ Existing Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COWI, NADIS
3. Orthophoto Imagery: 2017 NADP

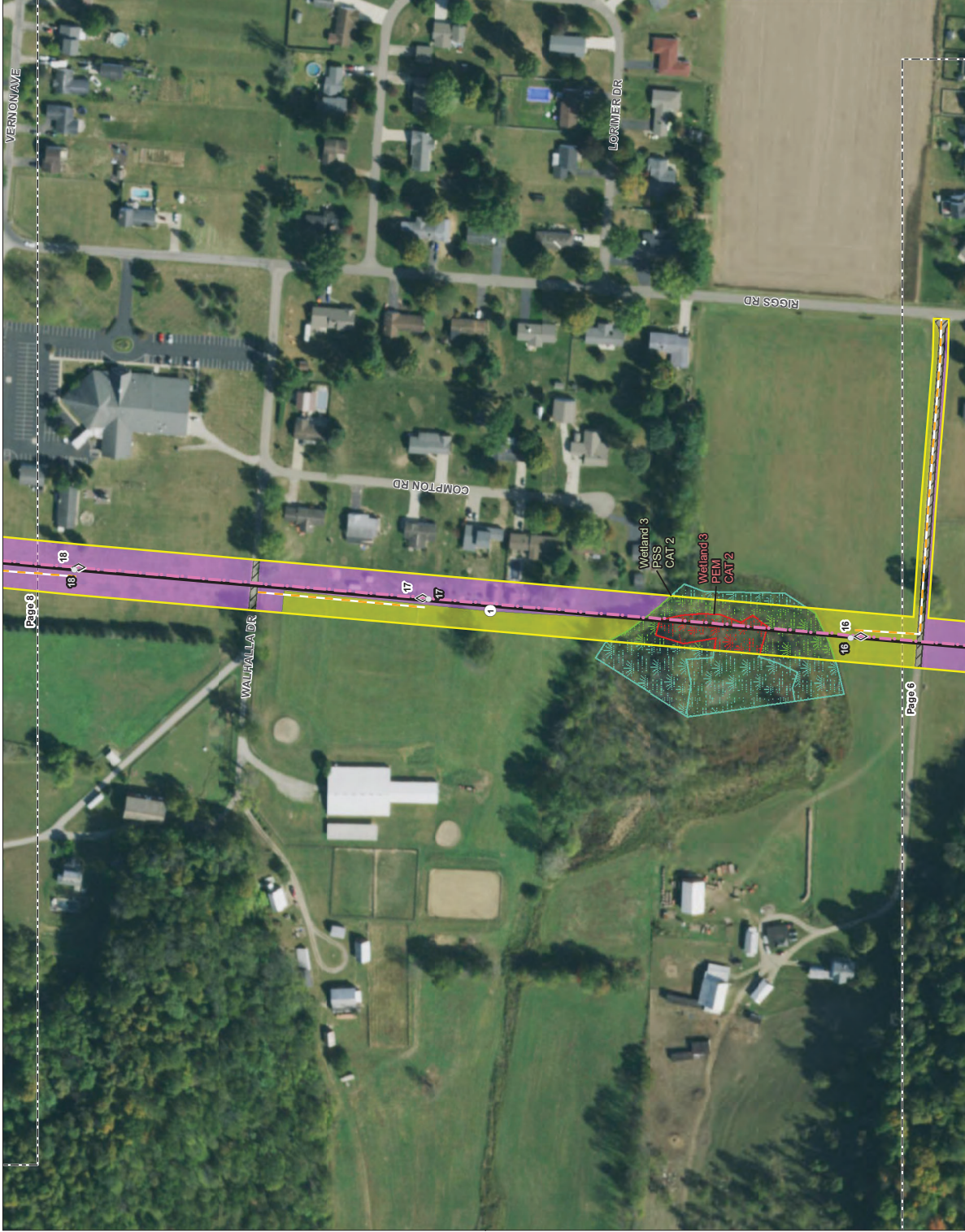


Figure No.

3

Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

192701248

Prepared by: JAL on 2021-04-19

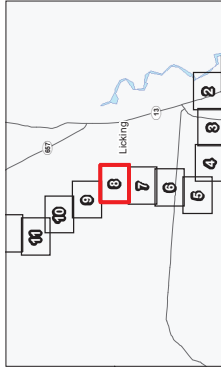
Technical Review by: AAK on 2021-04-22

Independent Review by: JAL on 2021-04-22

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Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- △ Existing Culvert
- ▲ Existing Storm Drain
- Seep/Spring
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub Wetland
- Approximate Wetland
- Habitat Area
- Mixed Early Successional/Second Growth Deciduous Forest
- Early Successional Deciduous Forest
- Maintained Lawn
- Agricultural Field
- Old Field
- New Field
- Hayfield
- Pasture
- Industrial
- Existing Railroad
- Existing Paved Surface
- Existing Roadway



Notes

- Coordinate System: NAD 1983 UTM Zone 17N
- Data Sources include: Stantec, AEP, USGS, COWI, NAD83
- Orthophoto Imagery: 2017 NADP



Figure No.

3

Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Coos and Licking Counties,
Ohio

192701238

Prepared by JLT on 2021-04-19

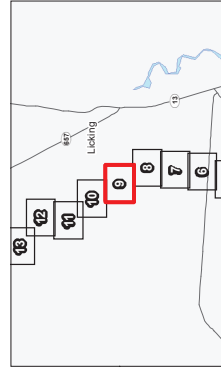
Technical Review by AEP on 2021-04-22

Independent Review by JLT on 2021-04-22

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Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- △ Existing Culvert
- Existing Storm Drain
- Seep/Spring
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland Habitat Area
- Mixed Early Successional/Second Growth Deciduous Forest
- Early Successional Deciduous Forest
- Maintained Lawn
- Agricultural Field
- Old Field
- New Field
- Hayfield
- Pasture
- Industrial
- Existing Railroad
- Existing Paved Surface
- Existing Roadway



Notes

- Coordinate System: NAD 1983 UTM Zone 17N
- Data Sources include: Stantec, AEP, USGS, COBRP, NAD83, Orthophotography, 2017 NADP

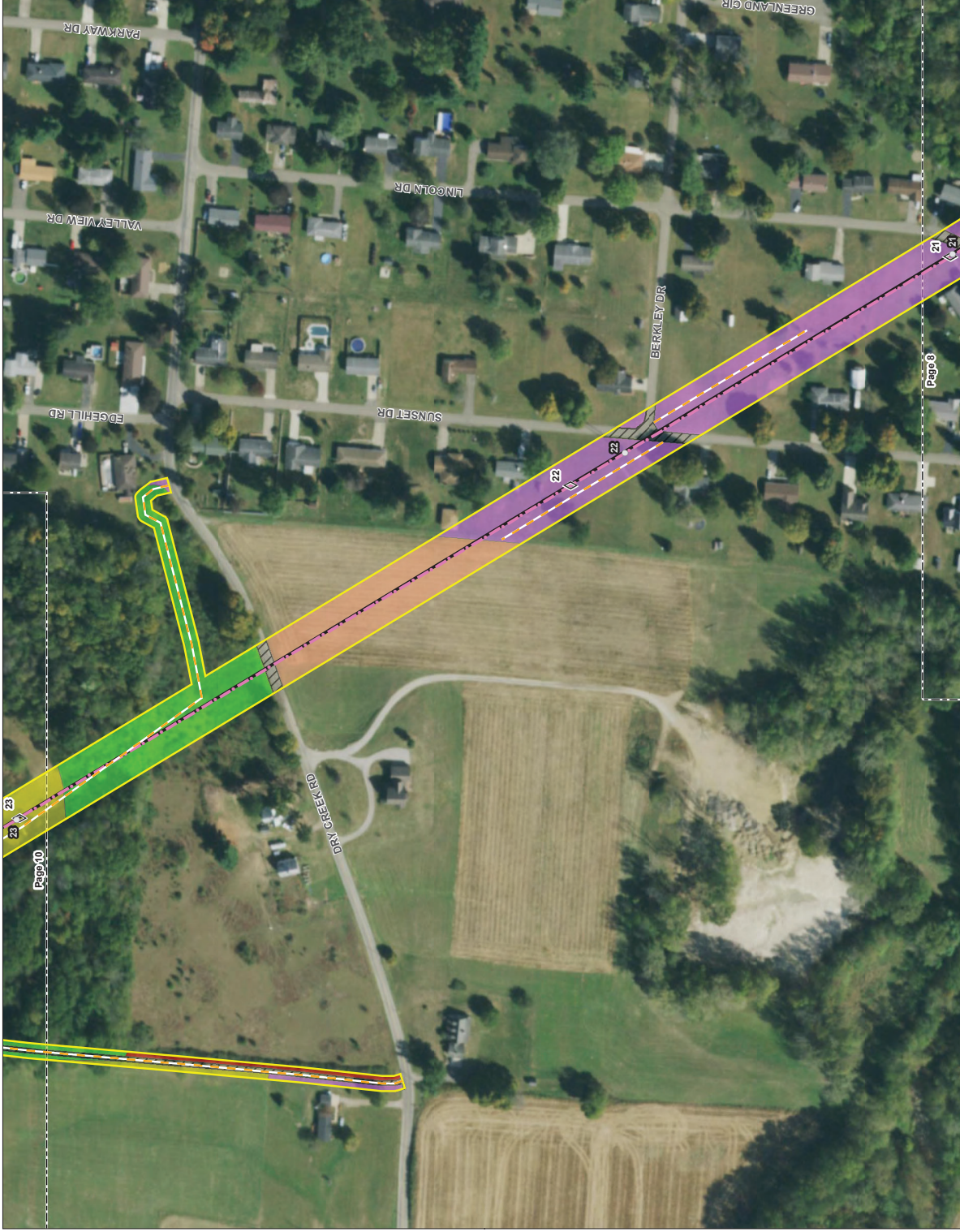


Figure No.

3

Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

19-070-1248

Prepared by: J.A. on 2021-04-19

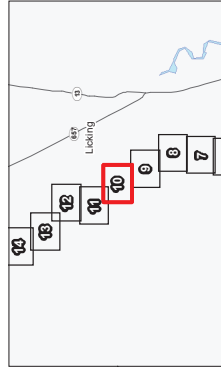
Technical Review by: A.E. on 2021-04-22

Independent Review by: D.L. on 2021-04-22



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- ▲ Existing Culvert
- ▲ Existing Storm Drain
- Seep/Spring
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub Wetland
- Approximate Wetland Habitat Area
- Mixed Early Successional/Second Growth Deciduous Forest
- Early Successional Deciduous Forest
- Maintained Lawn
- Agricultural Field
- Old Field
- New Field
- Hayfield
- Pasture
- Industrial
- Existing Railroad
- Existing Paved Surface
- Existing Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, CORP, NAD83, and other sources.

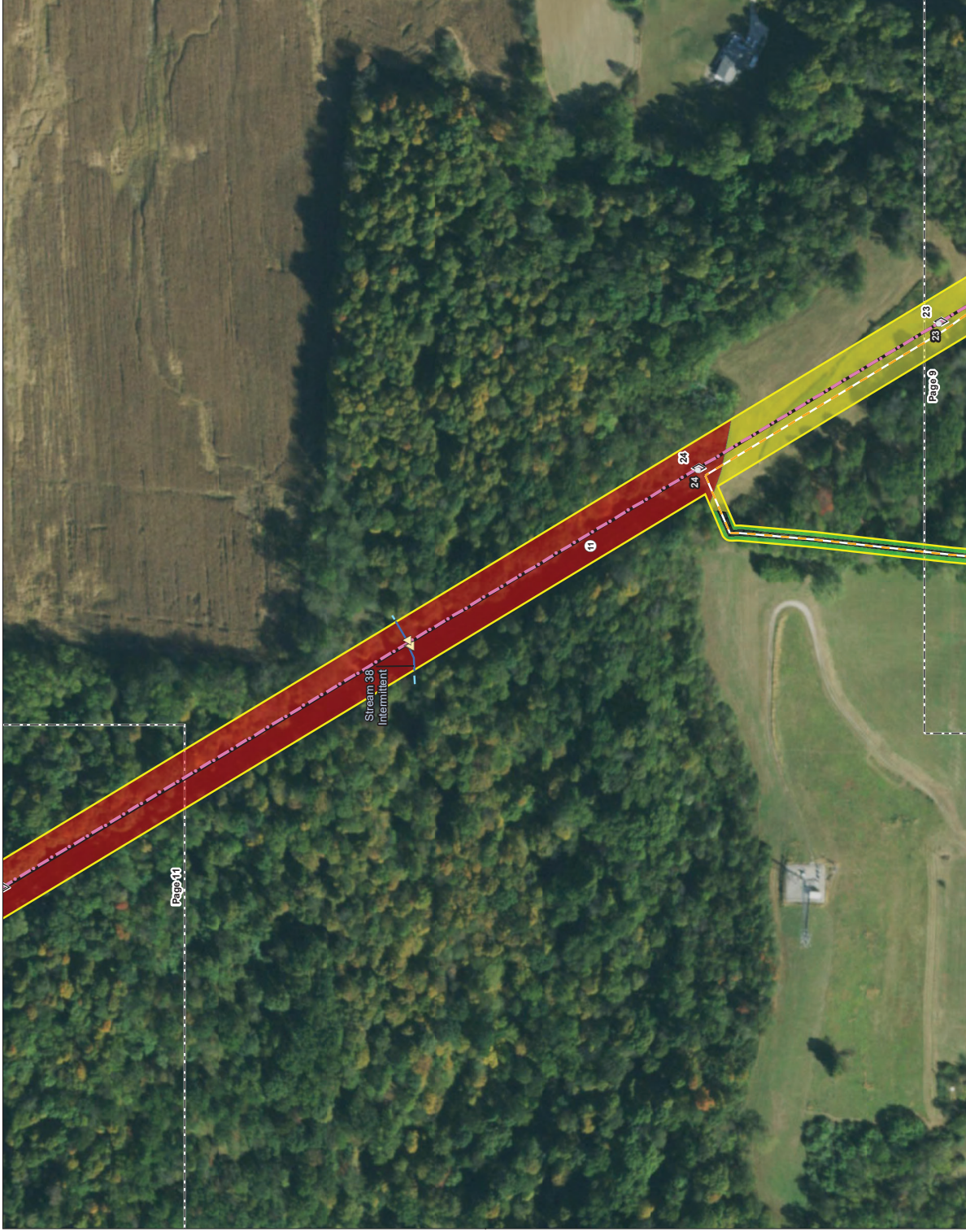


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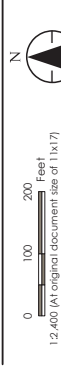
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Habitat Assessment Map

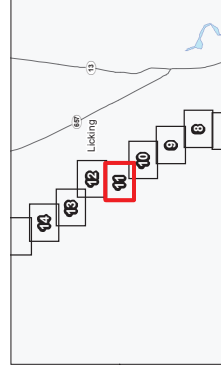
Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Columbiana and Licking Counties,
Ohio

193701230
Prepared by JLT on 2021-04-19
Technical Review by AEP on 2021-04-22
Independent Review by DLO on 2021-04-22

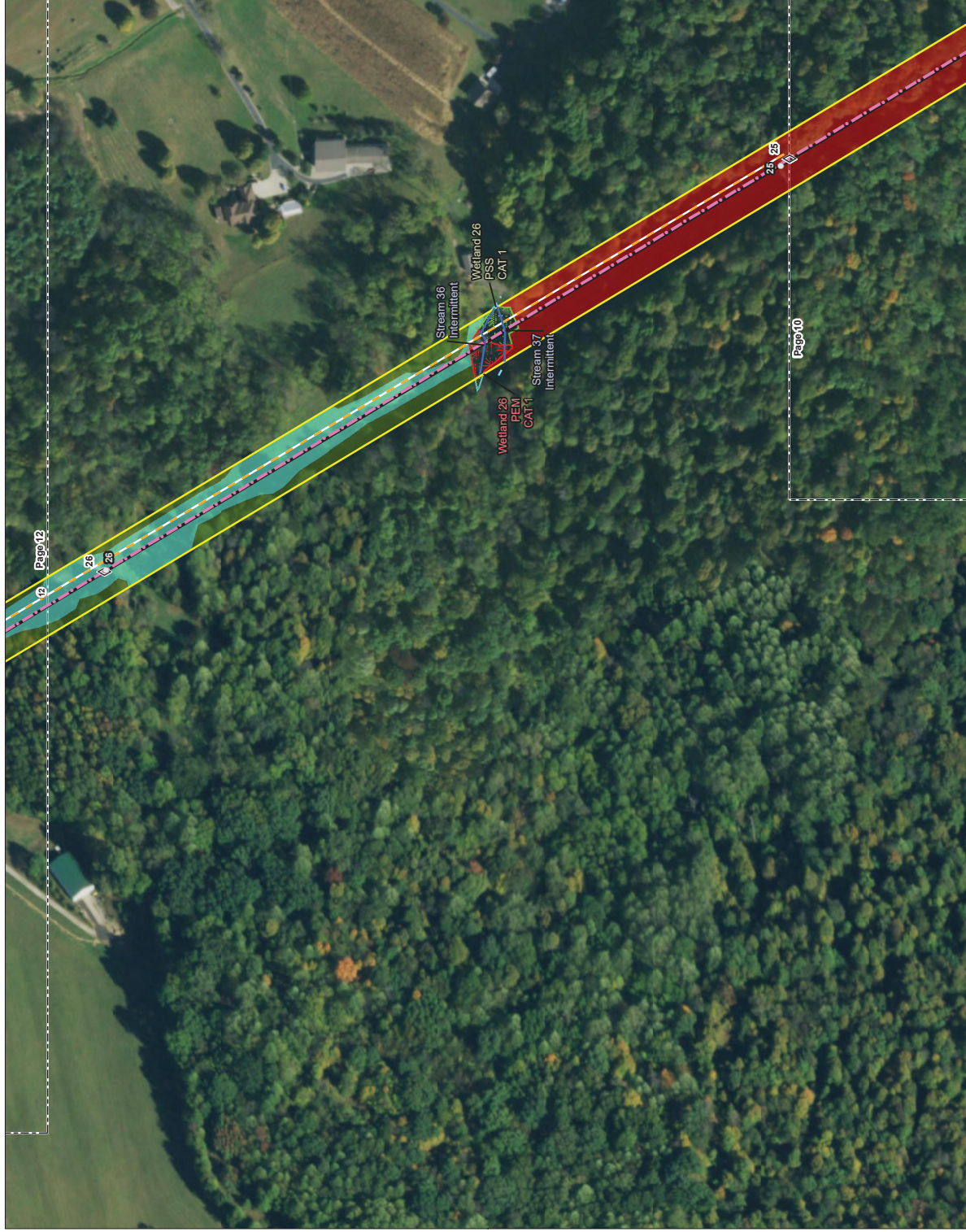


- Legend**
- AEP Substation
 - Existing Structure to be Replaced
 - ◇ Proposed Structure
 - ⚡ Existing 138 kV Transmission Line to be Rebuilt
 - ⚡ Proposed 138 kV Transmission Line
 - ⚡ Proposed Access Road
 - ⚡ Project Area
 - Photo Location
 - △ Existing Culvert
 - ▲ Existing Storm Drain
 - Seep/Spring
 - ⤵ Upland Drainage Feature
 - ⤵ Approximate Upland Drainage Feature
 - ⤵ Field Delineated Waterway
 - ⤵ Approximate Waterway
 - ⤵ Field Delineated Waterway Area
 - ⤵ Field Delineated Open Water
 - ⬭ Approximate Open Water
 - ⬭ Field Delineated Emergent Wetland
 - ⬭ Field Delineated Scrub-Shrub Wetland
 - ⬭ Approximate Wetland
 - ⬭ Habitat Area
 - ⬭ Mixed Early Successional/Second Growth Deciduous Forest
 - ⬭ Early Successional Deciduous Forest
 - ⬭ Maintained Lawn
 - ⬭ Agricultural Field
 - ⬭ Old Field
 - ⬭ New Field
 - ⬭ Hayfield
 - ⬭ Pasture
 - ⬭ Industrial
 - ⬭ Existing Railroad
 - ⬭ Existing Paved Surface
 - ⬭ Existing Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COWI, NAD83
3. Orthophoto Imagery: 2017 NAD



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Figure No.

3

Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

19370128

Prepared by J.H. on 2021-04-19

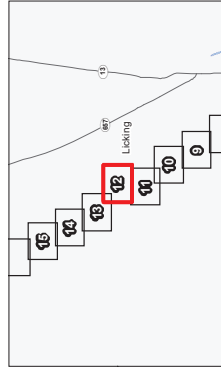
Technical Review by A.K. on 2021-04-22

Independent Review by D.C. on 2021-04-22



Legend

- AEP Substation
- Existing Structure to be Replaced
- Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- Existing Culvert
- Existing Storm Drain
- Seep/Spring
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland Habitat Area
- Mixed Early Successional/Second Growth Deciduous Forest
- Early Successional Deciduous Forest
- Maintained Lawn
- Agricultural Field
- Old Field
- New Field
- Hayfield
- Pasture
- Industrial
- Existing Railroad
- Existing Paved Surface
- Existing Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COAP, NAD83
3. Orthophotography: 2017 NADP



Figure No.

3

Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio and Lorain Counties,
Ohio

193701248

Prepared by JLT on 2021-04-19

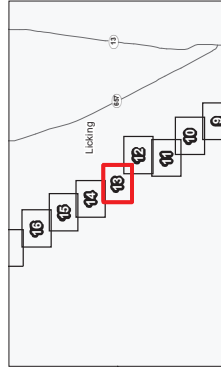
Technical Review by ALE on 2021-04-22

Independent Review by DLO on 2021-04-22



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- ▲ Existing Culvert
- ▲ Existing Storm Drain
- Seep/Spring
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub/Shrub Wetland
- Approximate Wetland Habitat Area
- Mixed Early Successional/Second Growth Deciduous Forest
- Early Successional Deciduous Forest
- Maintained Lawn
- Agricultural Field
- Old Field
- New Field
- Hayfield
- Pasture
- Industrial
- Existing Railroad
- Existing Paved Surface
- Existing Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COAP, NAD83, Orthophotography, 2017 NADP

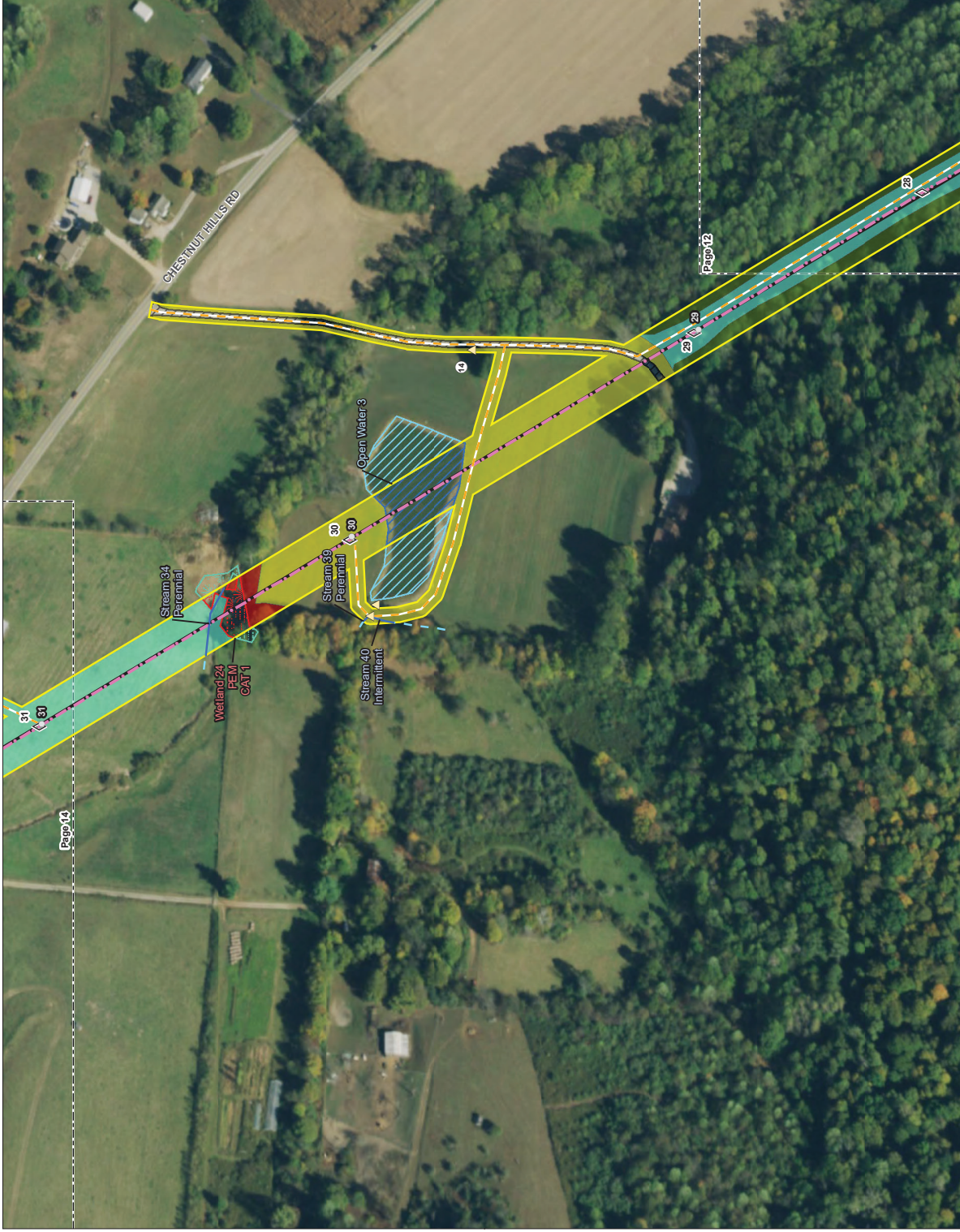


Figure No.

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Habitat Assessment Map

Client/Project

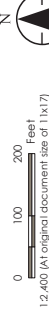
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Coos and Licking Counties,
Ohio

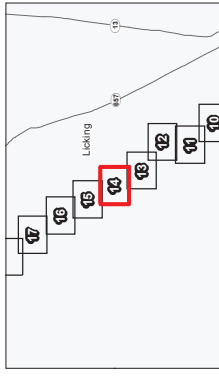
19/07/2020

Prepared by J.H. on 2021-04-19
Technical Review by A.E. on 2021-04-22
Independent Review by D.L. on 2021-04-22



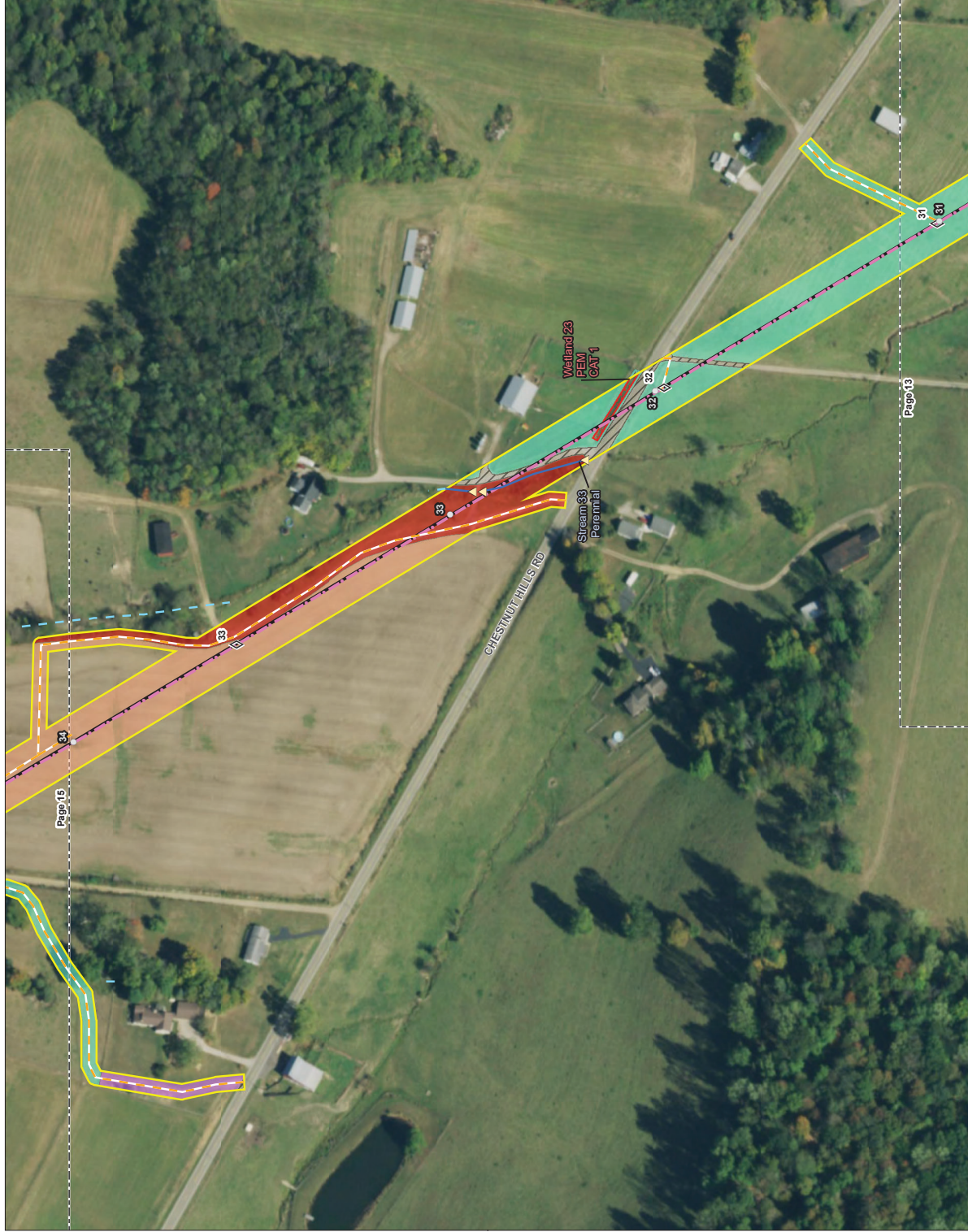
Legend

- | | |
|--|---|
| <ul style="list-style-type: none"> ■ AEP Substation ● Existing Structure to be Replaced ◇ Proposed Structure ⚡ Existing 138 kV Transmission Line to be Rebuilt ⚡ Proposed 138 kV Transmission Line ⚡ Proposed Access Road ⚡ Project Area ○ Photo Location ▲ Existing Culvert ▲ Existing Storm Drain ● Seep/Spring ⤵ Upland Drainage Feature ⤵ Approximate Upland Drainage Feature ⤵ Field Delineated Waterway ⤵ Approximate Waterway ⤵ Field Delineated Waterway Area ⤵ Field Delineated Open Water | <ul style="list-style-type: none"> ⬭ Approximate Open Water ⬭ Field Delineated Emergent Wetland ⬭ Field Delineated Scrub-Shrub Wetland ⬭ Approximate Wetland ⬭ Habitat Area ⬭ Mixed Early Successional/Second Growth Deciduous Forest ⬭ Early Successional Deciduous Forest ⬭ Maintained Lawn ⬭ Agricultural Field ⬭ Old Field ⬭ New Field ⬭ Hayfield ⬭ Pasture ⬭ Industrial ⬭ Existing Railroad ⬭ Existing Paved Surface ⬭ Existing Roadway |
|--|---|



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COAP, NAD83
3. Orthophoto imagery: 2017 NADP



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Figure No.

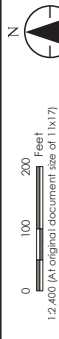
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Habitat Assessment Map

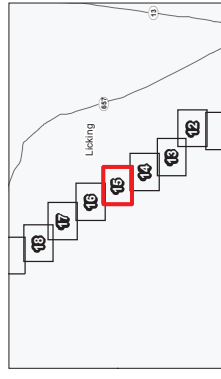
Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Ohio

193701248
Prepared by: JLT on 2021-04-19
Technical Review by: AEP on 2021-04-19
Independent Review by: JLT on 2021-04-22



- Legend**
- | | | |
|---|---|---|
| ■ AEP Substation | ○ Field Delineated Water | ■ Approximate Open Water |
| ● Existing Structure to be Replaced | ● Field Delineated Emergent Wetland | ● Field Delineated Emergent Wetland |
| ◇ Proposed Structure | ◇ Field Delineated Scrub-Shrub Wetland | ◇ Field Delineated Scrub-Shrub Wetland |
| ⚡ Existing 138 kV Transmission Line to be Rebuilt | ⚡ Approximate Wetland Habitat Area | ⚡ Approximate Wetland Habitat Area |
| ⚡ Proposed 138 kV Transmission Line | ⚡ Mixed Early Successional/Second Growth Deciduous Forest | ⚡ Mixed Early Successional/Second Growth Deciduous Forest |
| ⚡ Proposed Access Road | ⚡ Early Successional Deciduous Forest | ⚡ Early Successional Deciduous Forest |
| ⚡ Project Area | ⚡ Maintained Lawn | ⚡ Maintained Lawn |
| ○ Photo Location | ⚡ Agricultural Field | ⚡ Agricultural Field |
| △ Existing Culvert | ⚡ Old Field | ⚡ Old Field |
| ▲ Existing Storm Drain | ⚡ New Field | ⚡ New Field |
| ● Seep/Spring | ⚡ Hayfield | ⚡ Hayfield |
| ⚡ Upland Drainage Feature | ⚡ Pasture | ⚡ Pasture |
| ⚡ Approximate Upland Drainage Feature | ⚡ Industrial | ⚡ Industrial |
| ⚡ Field Delineated Waterway | ⚡ Existing Railroad | ⚡ Existing Railroad |
| ⚡ Approximate Waterway | ⚡ Existing Paved Surface | ⚡ Existing Paved Surface |
| ⚡ Field Delineated Waterway Area | ⚡ Existing Roadway | ⚡ Existing Roadway |
| ⚡ Field Delineated Open Water | | |



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COWI, NAD83
3. Orthophoto Imagery: 2017 NADP



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Figure No.

3

Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Coos and Licking Counties,
Ohio

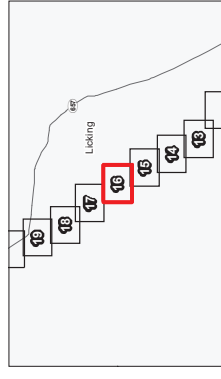
19-070-128

Prepared by: JLL on 2021-04-19
Technical Review by: AAE on 2021-04-22
Independent Review by: JLL on 2021-04-22



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- ⚡ Existing 138 kV Transmission Line to be Rebuilt
- ⚡ Proposed 138 kV Transmission Line
- ⚡ Proposed Access Road
- ⚡ Project Area
- Photo Location
- ▲ Existing Culvert
- ▲ Existing Storm Drain
- Seep/Spring
- ~ Upland Drainage Feature
- ~ Approximate Upland Drainage Feature
- ~ Field Delineated Waterway
- ~ Approximate Waterway
- ~ Field Delineated Waterway Area
- ~ Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland
- Habitat Area
- Mixed Early Successional/Second Growth Deciduous Forest
- Early Successional Deciduous Forest
- Maintained Lawn
- Agricultural Field
- Old Field
- New Field
- Hayfield
- Pasture
- Industrial
- Existing Railroad
- Existing Paved Surface
- Existing Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, CORP, NAD83
3. Orthophotography: 2017 NADP

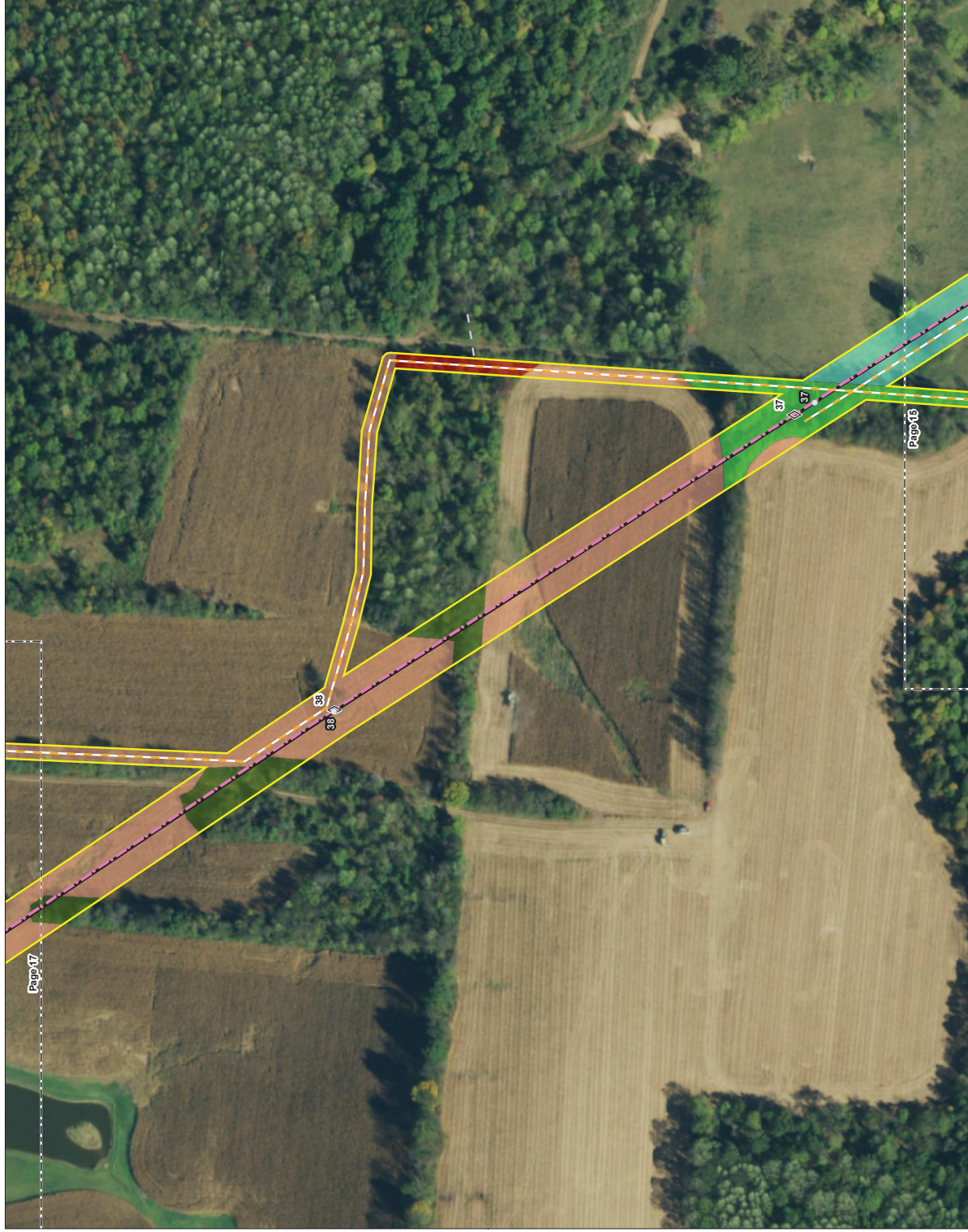


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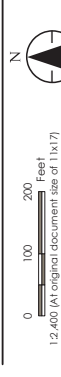
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Habitat Assessment Map

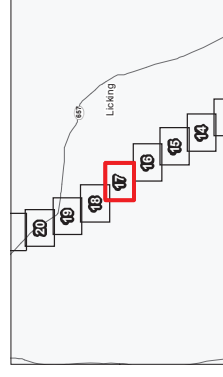
Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Cora and Licking Counties,
Ohio

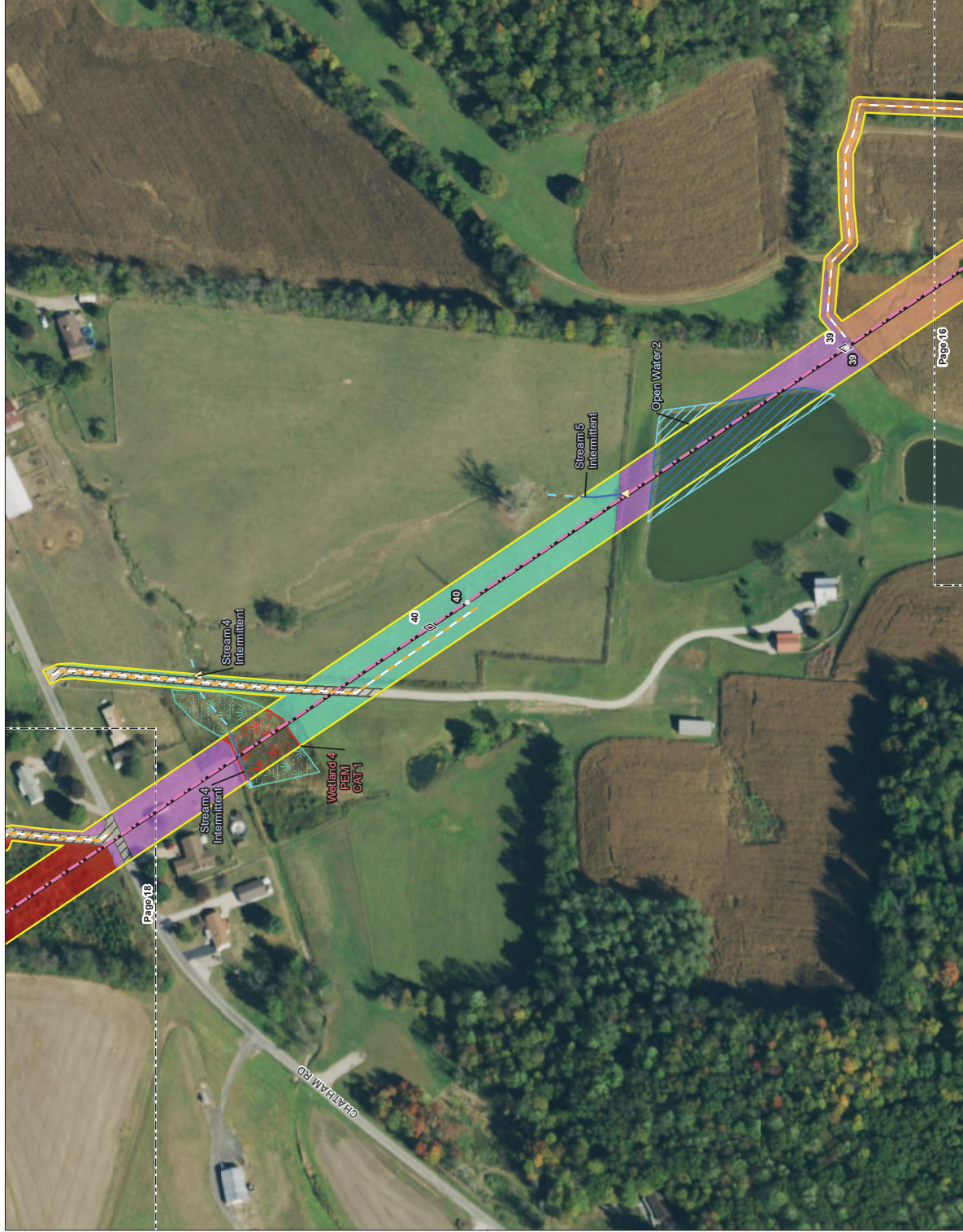
193701238
Prepared by JLT on 2021-04-19
Technical Review by AJK on 2021-04-19
Independent Review by DLO on 2021-04-22



- Legend**
- AEP Substation
 - Existing Structure to be Replaced
 - ◇ Proposed Structure
 - ⚡ Existing 138 kV Transmission Line to be Rebuilt
 - ⚡ Proposed 138 kV Transmission Line
 - ⚡ Proposed Access Road
 - ⚡ Project Area
 - Photo Location
 - △ Existing Culvert
 - ▲ Existing Storm Drain
 - Seep/Spring
 - ~ Upland Drainage Feature
 - ~ Approximate Upland Drainage Feature
 - ~ Field Delineated Waterway
 - ~ Approximate Waterway
 - ~ Field Delineated Waterway Area
 - ~ Field Delineated Open Water
 - Approximate Open Water
 - Field Delineated Emergent Wetland
 - Field Delineated Scrub/Shrub Wetland
 - Approximate Wetland
 - Habitat Area
 - Mixed Early Successional/Second Growth Deciduous Forest
 - Early Successional Deciduous Forest
 - Maintained Lawn
 - Agricultural Field
 - Old Field
 - New Field
 - Hayfield
 - Pasture
 - Industrial
 - Existing Railroad
 - Existing Paved Surface
 - Existing Roadway



Notes
1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, CORP, NAD83
3. Orthophotography: 2017 NAD



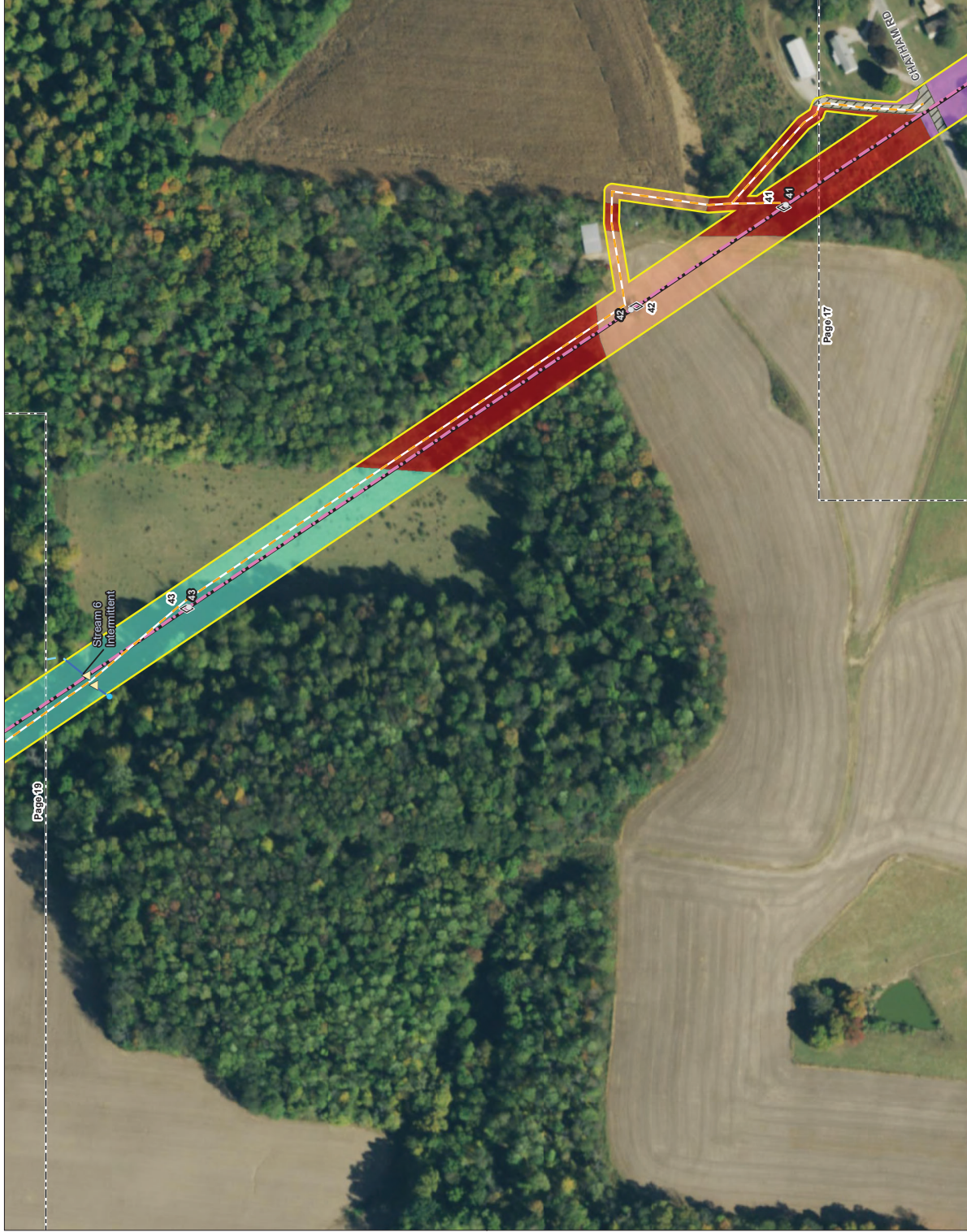


Figure No. 3

Habitat Assessment Map

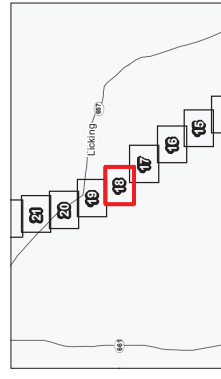
Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Ohio

193701240
Prepared by JLT on 2021-04-19
Technical Review By AJK on 2021-04-19
Independent Review By DLO on 2021-04-22

0 100 200 Feet
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- Legend**
- AEP Substation
 - Existing Structure to be Replaced
 - ◇ Proposed Structure
 - ⚡ Existing 138 kV Transmission Line to be Rebuilt
 - ⚡ Proposed 138 kV Transmission Line
 - ⚡ Proposed Access Road
 - Project Area
 - Photo Location
 - △ Existing Culvert
 - ▲ Existing Storm Drain
 - Seep/Spring
 - ⚡ Upland Drainage Feature
 - ⚡ Approximate Upland Drainage Feature
 - ⚡ Field Delineated Waterway
 - ⚡ Approximate Waterway
 - ⚡ Field Delineated Waterway Area
 - ⚡ Field Delineated Open Water
 - ⚡ Approximate Open Water
 - ⚡ Field Delineated Emergent Wetland
 - ⚡ Field Delineated Scrub-Shrub Wetland
 - ⚡ Approximate Wetland
 - ⚡ Habitat Area
 - ⚡ Mixed Early Successional/Second Growth Deciduous Forest
 - ⚡ Early Successional Deciduous Forest
 - ⚡ Maintained Lawn
 - ⚡ Agricultural Field
 - ⚡ Old Field
 - ⚡ New Field
 - ⚡ Hayfield
 - ⚡ Pasture
 - ⚡ Industrial
 - ⚡ Existing Railroad
 - ⚡ Existing Paved Surface
 - ⚡ Existing Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COWI, NADP
3. Orthophoto Imagery: 2017 NADP



Figure No.

3

Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Crawford and Licking Counties,
Ohio

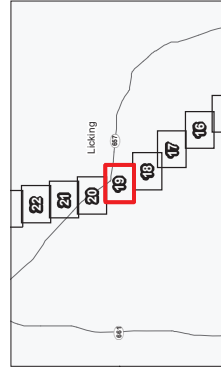
19-070-128
Prepared by: JLV on 2021-04-19
Technical Review by: ALE on 2021-04-22
Independent Review by: JLV on 2021-04-22

0 100 200 Feet
1:2,400 (A1 original document size of 11x17)



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- ⚡ Existing 138 kV Transmission Line to be Rebuilt
- ⚡ Proposed 138 kV Transmission Line
- ⚡ Proposed Access Road
- Project Area
- Photo Location
- ▲ Existing Culvert
- ▲ Existing Storm Drain
- Seep/Spring
- ~ Upland Drainage Feature
- ~ Approximate Upland Drainage Feature
- ~ Field Delineated Waterway
- ~ Approximate Waterway
- ~ Field Delineated Waterway Area
- ~ Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub Wetland
- Approximate Wetland
- Habitat Area
- Mixed Early Successional/Second Growth Deciduous Forest
- Early Successional Deciduous Forest
- Maintained Lawn
- Agricultural Field
- Old Field
- New Field
- Hayfield
- Pasture
- Industrial
- Existing Railroad
- Existing Paved Surface
- Existing Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COBRP, NAD83
3. Orthophotography: 2017 NADP

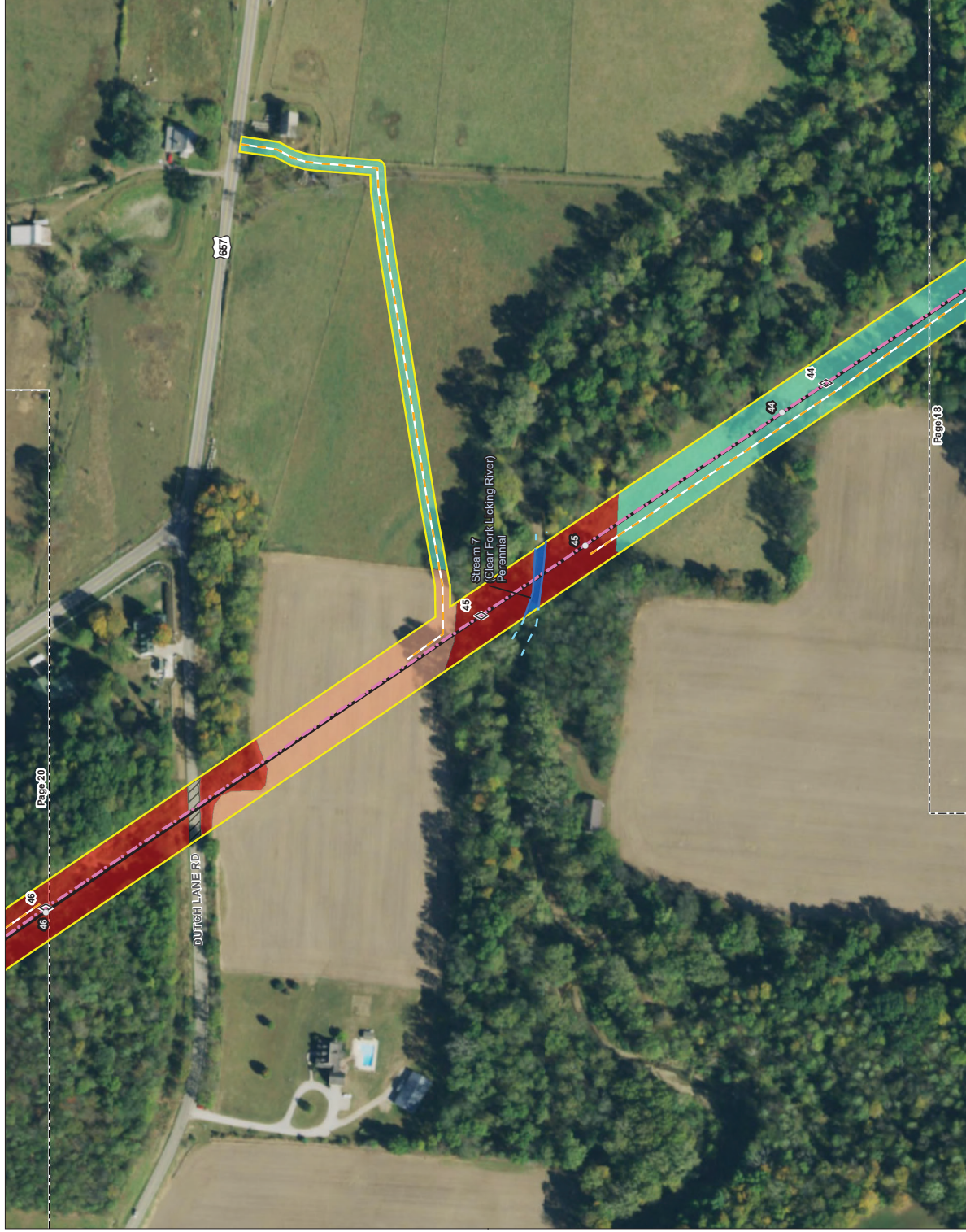


Figure No.

3

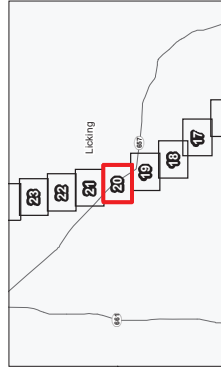
Habitat Assessment Map

Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Ohio
Prepared by JLT on 2021-04-19
Technical Review by AJK on 2021-04-19
Independent Review by AJK on 2021-04-22

19,700 Feet
0 100 200
1:2,400 (A1 original document size of 11x17)

- Legend**
- | | | |
|---|-------------------------------------|-------------------------------------|
| ■ AEP Substation | ○ Field Delineated Open Water | ■ Approximate Open Water |
| ● Existing Structure to be Replaced | ● Field Delineated Emergent Wetland | ● Field Delineated Emergent Wetland |
| ◇ Proposed Structure | ◇ Field Delineated Scrub Wetland | ◇ Field Delineated Scrub Wetland |
| ◇ Existing 138 kV Transmission Line to be Rebuilt | ◇ Field Delineated Wetland | ◇ Field Delineated Wetland |
| ◇ Proposed 138 kV Transmission Line | ◇ Field Delineated Wetland | ◇ Field Delineated Wetland |
| ◇ Proposed Access Road | ◇ Field Delineated Wetland | ◇ Field Delineated Wetland |
| ◇ Project Area | ◇ Field Delineated Wetland | ◇ Field Delineated Wetland |
| ◇ Photo Location | ◇ Field Delineated Wetland | ◇ Field Delineated Wetland |
| ◇ Existing Culvert | ◇ Field Delineated Wetland | ◇ Field Delineated Wetland |
| ◇ Existing Storm Drain | ◇ Field Delineated Wetland | ◇ Field Delineated Wetland |
| ◇ Seep/Spring | ◇ Field Delineated Wetland | ◇ Field Delineated Wetland |
| ◇ Upland Drainage Feature | ◇ Field Delineated Wetland | ◇ Field Delineated Wetland |
| ◇ Approximate Upland Drainage Feature | ◇ Field Delineated Wetland | ◇ Field Delineated Wetland |
| ◇ Field Delineated Waterway | ◇ Field Delineated Wetland | ◇ Field Delineated Wetland |
| ◇ Approximate Waterway | ◇ Field Delineated Wetland | ◇ Field Delineated Wetland |
| ◇ Field Delineated Waterway Area | ◇ Field Delineated Wetland | ◇ Field Delineated Wetland |
| ◇ Field Delineated Open Water | ◇ Field Delineated Wetland | ◇ Field Delineated Wetland |



Notes
1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, CORP, NAD83
3. Orthophotography: 2017 NAD



Figure No.

3

Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

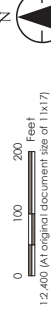
Ohio

193701238

Prepared by: JLT on 2021-04-19

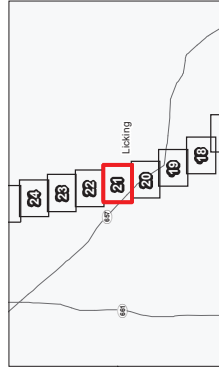
Technical Review by: ALE on 2021-04-22

Independent Review by: JLT on 2021-04-22



Legend

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|--------------------------|-------------------------------------|--|---|---|---------------------------------------|-------------------|----------------------|--------------------|------------------------|---------------|---------------------------|---------------------------------------|-----------------------------|--------------------------|----------------------------------|-------------------------------|
| ■ AEP Substation | ○ AEP Structure to be Replaced | ◇ Proposed Structure | ⚡ Existing 138 kV Transmission Line to be Rebuilt | ⚡ Proposed 138 kV Transmission Line | ⚡ Proposed Access Road | ⚡ Project Area | ○ Photo Location | △ Existing Culvert | ▲ Existing Storm Drain | ● Seep/Spring | ~ Upland Drainage Feature | ~ Approximate Upland Drainage Feature | ~ Field Delineated Waterway | ~ Approximate Waterway | ~ Field Delineated Waterway Area | ~ Field Delineated Open Water |
| ○ Approximate Open Water | ○ Field Delineated Emergent Wetland | ○ Field Delineated Scrub-Shrub Wetland | ○ Approximate Wetland Habitat Area | ○ Mixed Early Successional/Second Growth Deciduous Forest | ○ Early Successional Deciduous Forest | ○ Maintained Lawn | ○ Agricultural Field | ○ Old Field | ○ New Field | ○ Hayfield | ○ Pasture | ○ Industrial | ○ Existing Railroad | ○ Existing Paved Surface | ○ Existing Roadway | |



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COBRP, NAD83
3. Orthorectified imagery, 2017 NAD

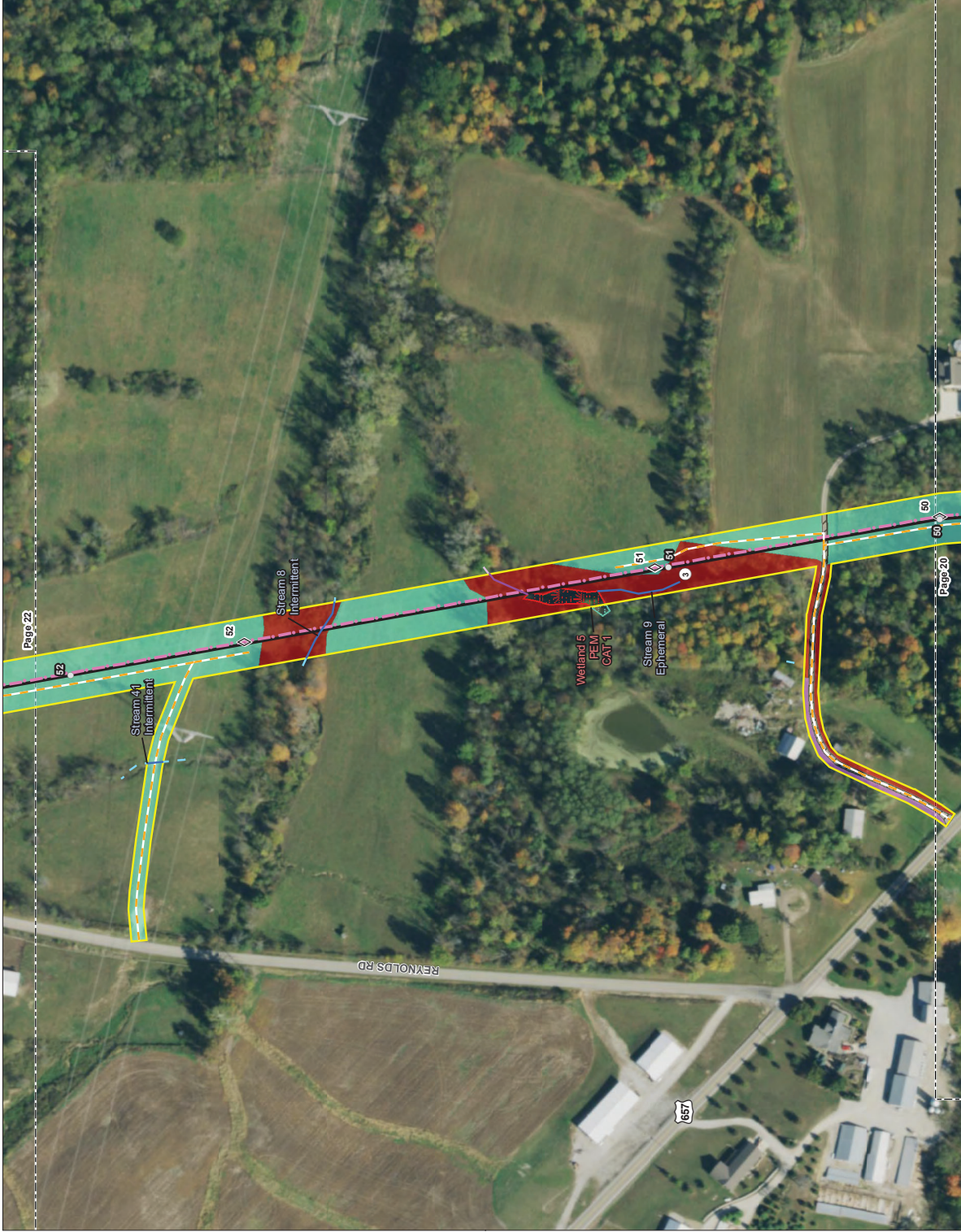




Figure No.

3

Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

193701238

Prepared by: J.H. on 2021-04-19

Technical Review by: A.K. on 2021-04-22

Independent Review by: D.C. on 2021-04-22

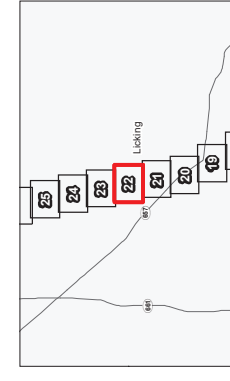


N



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- ◇ Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- △ Existing Culvert
- △ Existing Storm Drain
- Seep/Spring
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub Wetland
- Field Delineated Shrub Wetland
- Approximate Wetland
- Habitat Area
- Mixed Early Successional/Second Growth Deciduous Forest
- Early Successional Deciduous Forest
- Maintained Lawn
- Agricultural Field
- Old Field
- New Field
- Hayfield
- Pasture
- Industrial
- Existing Railroad
- Existing Paved Surface
- Existing Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, OGRIP, NAD83
3. Orthorectified imagery, 2017 NAD



Figure No.

3

Habitat Assessment Map

Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Ohio and Lorain Counties, Ohio

193701238
Prepared by JLT on 2021-04-19
Technical Review by A/E on 2021-04-22
Independent Review by DLO on 2021-04-22

0 100 200 Feet
1:2,400 (A1 original document size of 11x17)

- Legend**
- AEP Substation
 - Existing Structure to be Replaced
 - ◇ Proposed Structure
 - ◇ Existing 138 kV Transmission Line to be Rebuilt
 - ◇ Proposed 138 kV Transmission Line
 - ◇ Proposed Access Road
 - ◇ Project Area
 - Photo Location
 - △ Existing Culvert
 - △ Existing Storm Drain
 - Seep/Spring
 - ◇ Upland Drainage Feature
 - ◇ Approximate Upland Drainage Feature
 - ◇ Field Delineated Waterway
 - ◇ Approximate Waterway
 - ◇ Field Delineated Waterway Area
 - ◇ Field Delineated Open Water
 - ◇ Approximate Open Water
 - ◇ Field Delineated Emergent Wetland
 - ◇ Field Delineated Scrub-Shrub Wetland
 - ◇ Approximate Wetland
 - ◇ Habitat Area
 - ◇ Mixed Early Successional/Second Growth Deciduous Forest
 - ◇ Early Successional Deciduous Forest
 - ◇ Maintained Lawn
 - ◇ Agricultural Field
 - ◇ Old Field
 - ◇ New Field
 - ◇ Hayfield
 - ◇ Pasture
 - ◇ Industrial
 - ◇ Existing Railroad
 - ◇ Existing Paved Surface
 - ◇ Existing Roadway

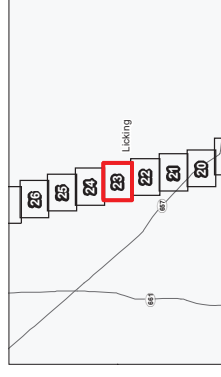


Figure No.

3

Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

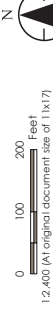
Coos and Licking Counties,
Ohio

193701238

Prepared by JLT on 2021-04-19

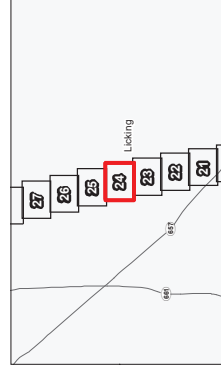
Technical Review by AJK on 2021-04-23

Independent Review by JLT on 2021-04-22



Legend

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|--------------------------|-------------------------------------|--|---|---|---------------------------------------|-------------------|----------------------|--------------------|------------------------|---------------|---------------------------|---------------------------------------|-----------------------------|--------------------------|----------------------------------|-------------------------------|
| ■ AEP Substation | ○ Existing Structure to be Replaced | ◇ Proposed Structure | ⚡ Existing 138 kV Transmission Line to be Rebuilt | ⚡ Proposed 138 kV Transmission Line | ⚡ Proposed Access Road | ⚡ Project Area | ⚡ Photo Location | ⚡ Existing Culvert | ⚡ Existing Storm Drain | ⚡ Seep/Spring | ⚡ Upland Drainage Feature | ⚡ Approximate Upland Drainage Feature | ⚡ Field Delineated Waterway | ⚡ Approximate Waterway | ⚡ Field Delineated Waterway Area | ⚡ Field Delineated Open Water |
| ○ Approximate Open Water | ○ Field Delineated Emergent Wetland | ○ Field Delineated Scrub-Shrub Wetland | ○ Approximate Wetland Habitat Area | ○ Mixed Early Successional/Second Growth Deciduous Forest | ○ Early Successional Deciduous Forest | ○ Maintained Lawn | ○ Agricultural Field | ○ Old Field | ○ New Field | ○ Hayfield | ○ Pasture | ○ Industrial | ○ Existing Railroad | ○ Existing Paved Surface | ○ Existing Roadway | |



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COWI, NADIS
3. Orthophotography: 2017 NADP

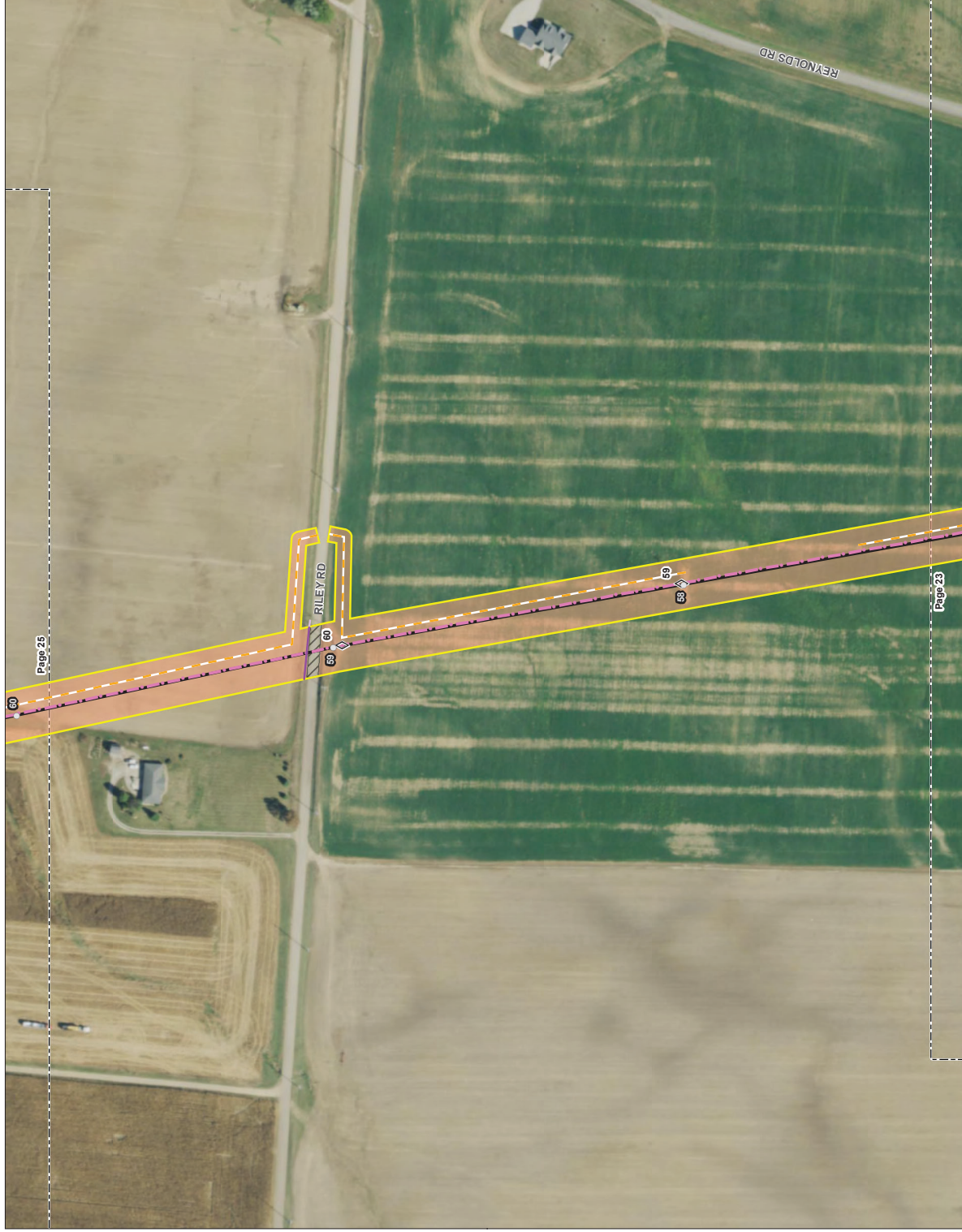


Figure No.

3

Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio

County and Listing Counties

Technical Review by AEP on 2021-04-19

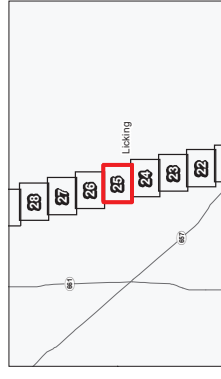
Independent Review by DLO on 2021-04-22

192701248

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Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- ◇ Existing 138 kV Transmission Line to be Rebuilt
- ◇ Proposed 138 kV Transmission Line
- ◇ Proposed Access Road
- ◇ Photo Location
- ◇ Existing Culvert
- ◇ Existing Storm Drain
- ◇ Seep/Spring
- ◇ Upland Drainage Feature
- ◇ Approximate Upland Drainage Feature
- ◇ Field Delineated Waterway
- ◇ Approximate Waterway
- ◇ Field Delineated Waterway Area
- ◇ Field Delineated Open Water
- ◇ Approximate Open Water
- ◇ Field Delineated Emergent Wetland
- ◇ Field Delineated Scrub-Shrub Wetland
- ◇ Approximate Wetland
- ◇ Habitat Area
- ◇ Mixed Early Successional/Second Growth Deciduous Forest
- ◇ Early Successional Deciduous Forest
- ◇ Maintained Lawn
- ◇ Agricultural Field
- ◇ Old Field
- ◇ New Field
- ◇ Hayfield
- ◇ Pasture
- ◇ Industrial
- ◇ Existing Railroad
- ◇ Existing Paved Surface
- ◇ Existing Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COWI, NAD83
3. Orthorectified imagery, 2017 NAD



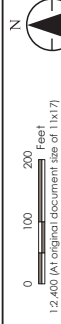
Figure No.

3

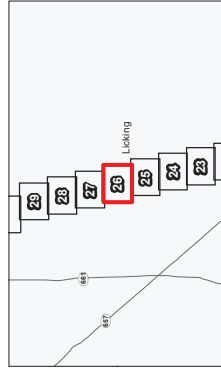
Habitat Assessment Map

Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Ohio
19270128
Prepared by: JLL on 2021-04-19
Technical Review by: AEP on 2021-04-22
Independent Review by: DLO on 2021-04-22



- Legend**
- AEP Substation
 - Existing Structure to be Replaced
 - ◇ Proposed Structure
 - ⚡ Existing 138 kV Transmission Line to be Rebuilt
 - ⚡ Proposed 138 kV Transmission Line
 - ⚡ Proposed Access Road
 - ⚡ Project Area
 - Photo Location
 - △ Existing Culvert
 - ▲ Existing Storm Drain
 - Seep/Spring
 - ~ Upland Drainage Feature
 - ~ Approximate Upland Drainage Feature
 - ~ Field Delineated Waterway
 - ~ Approximate Waterway
 - ~ Field Delineated Waterway Area
 - ~ Field Delineated Open Water
 - Approximate Open Water
 - Field Delineated Emergent Wetland
 - Field Delineated Scrub-Shrub Wetland
 - Approximate Wetland Habitat Area
 - Mixed Early Successional/Second Growth Deciduous Forest
 - Early Successional Deciduous Forest
 - Maintained Lawn
 - Agricultural Field
 - Old Field
 - New Field
 - Hayfield
 - Pasture
 - Industrial
 - Existing Railroad
 - Existing Paved Surface
 - Existing Roadway



Notes
1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COWI, NAD
3. Orthophoto imagery: 2017 NAD



Figure No.

3

Habitat Assessment Map

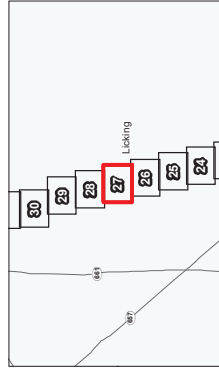
Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Ohio and Lorain Counties

193701240
Prepared by JLI on 2021-04-19
Technical Review by AEP on 2021-04-22
Independent Review by DLO on 2021-04-22

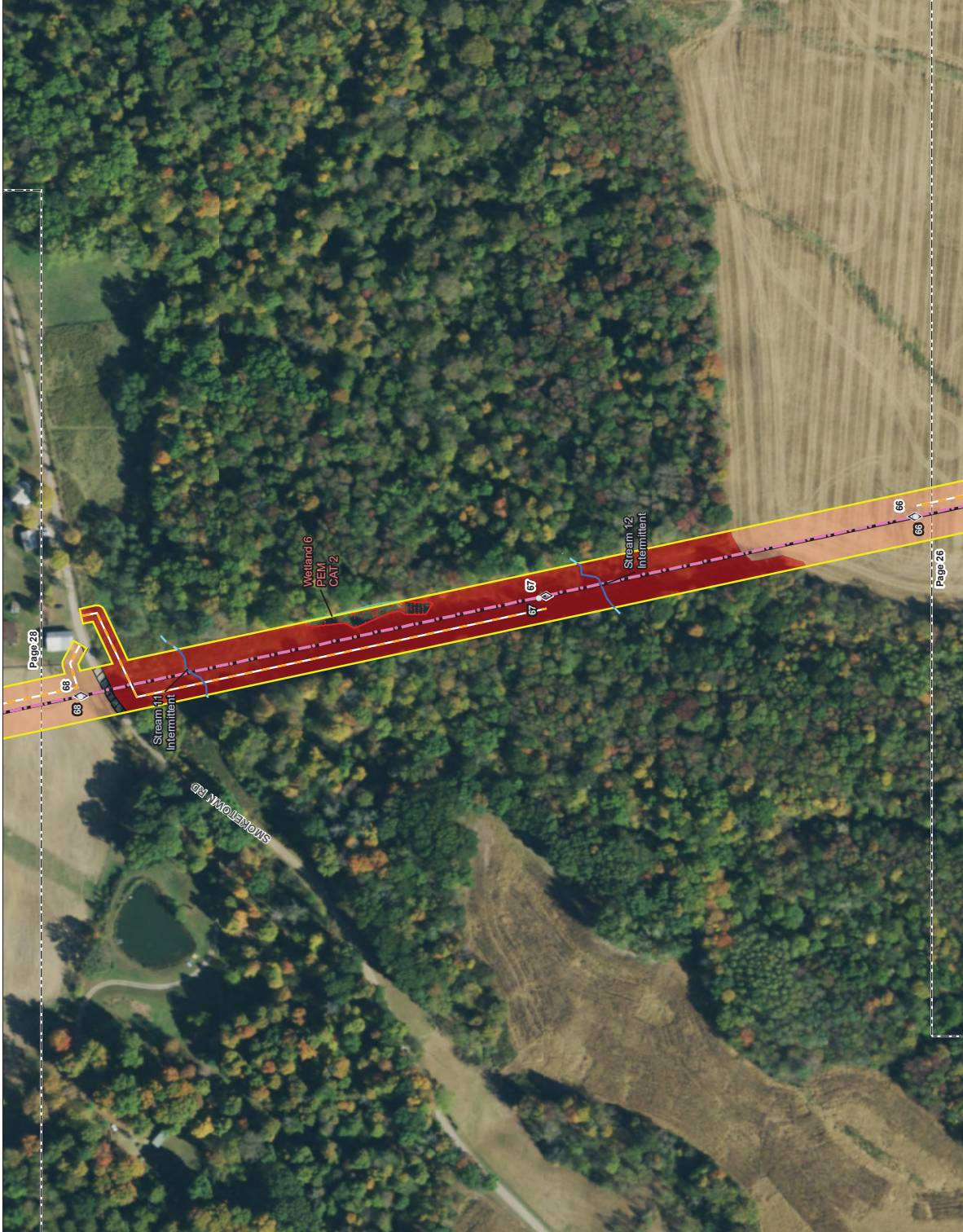


- Legend**
- | | | |
|---|--|---|
| ■ AEP Substation | ○ Field Delineated Open Water | ■ Mixed Early Successional/Second Growth Deciduous Forest |
| ● Existing Structure to be Replaced | ● Field Delineated Emergent Wetland | ■ Early Successional Deciduous Forest |
| ◇ Proposed Structure | ● Field Delineated Scrub-Shrub Wetland | ■ Maintained Lawn |
| ⚡ Existing 138 kV Transmission Line to be Rebuilt | ● Approximate Wetland Habitat Area | ■ Agricultural Field |
| ⚡ Proposed 138 kV Transmission Line | ■ Project Area | ■ Old Field |
| ⚡ Proposed Access Road | ○ Photo Location | ■ New Field |
| ○ Existing Culvert | ▲ Existing Storm Drain | ■ Hayfield |
| ● Seep/Spring | ● Upland Drainage Feature | ■ Pasture |
| ○ Approximate Upland Drainage Feature | ○ Field Delineated Waterway | ■ Industrial |
| ○ Field Delineated Waterway | ○ Approximate Waterway | ■ Existing Railroad |
| ○ Field Delineated Waterway Area | ○ Field Delineated Open Water | ■ Existing Paved Surface |
| ○ Field Delineated Open Water | | ■ Existing Roadway |



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COWI, NADIS
3. Orthophotography: 2017 NADP



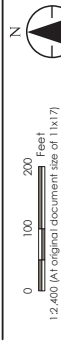
Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

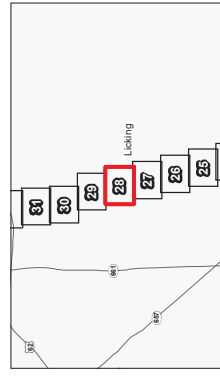
Project Location
Knox and Licking Counties,

Project Location	193707328
Knox and Licking Counties, Ohio	Prepared by JLH on 2021-04-13 Technical Review by AJK on 2021-04-22 Independent Review by DJG on 2021-04-22



Legend

-
- Legend:
- AP Substation
 - Existing Structure to be Replaced
 - Proposed Structure
 - Existing 138 kV Transmission Line
 - Proposed 138 kV Transmission Line
 - Proposed Access Road
 - Project Area
 - Photo Location
 - Existing Culvert
 - Existing Storm Drain
 - Seep/Spring
 - Upland Drainage
 - Feature
 - Approximate Upland Drainage Feature
 - Field Delineated Waterway
 - Approximate Waterway
 - Field Delineated Waterway Area
 - Field Delineated Open Water
 - Approximate Open Water
 - Field Delineated Emergent Wetland
 - Field Delineated Shrub Wetland
 - Approximate Wetland
 - Mixed Early Successional/Second Growth Deciduous Forest
 - Early Successional Deciduous Forest
 - Maintained Lawn
 - Agricultural Field
 - Old Field
 - New Field
 - Hayfield
 - Pasture
 - Industrial
 - Existing Railroad
 - Existing Paved Surface
 - Existing Roadway
 - Water



Notes

- Notes**
1. Coordinate System : NAD 1983 UTM Zone 17N
 2. Data Sources include : Stantec, AEP, USGS, OGRIP, NADS
 3. Orthophotography: 2019 NAIP



Figure No.

3

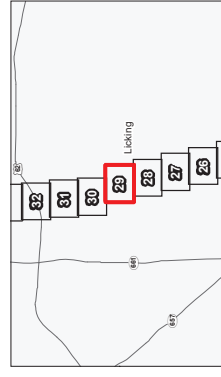
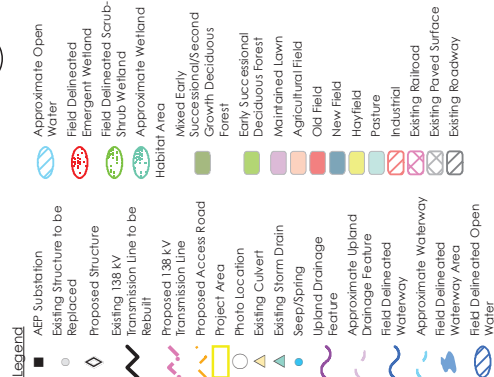
Habitat Assessment Map

Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Ohio

19/07/2020
Prepared by: J.H. on 2021-04-19
Technical Review by: A.E. on 2021-04-22
Independent Review by: D.G. on 2021-04-22

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1:2,400 (A1 original document size of 11x17)



Page 29 of 55



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Figure No.

3

Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Good and Luking Counties,
Ohio

193701238

Prepared by: JLT on 2021-04-19

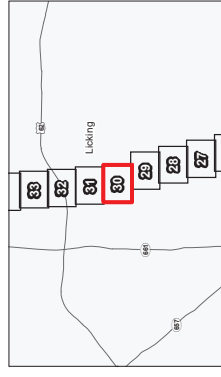
Technical Review by: ALE on 2021-04-22

Independent Review by: DLO on 2021-04-22



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- ⚡ Existing 138 kV Transmission Line to be Rebuilt
- ⚡ Proposed 138 kV Transmission Line
- ⚡ Proposed Access Road
- ⚡ Project Area
- Photo Location
- △ Existing Culvert
- ▲ Existing Storm Drain
- Seep/Spring
- ~ Upland Drainage Feature
- ~ Approximate Upland Drainage Feature
- ~ Field Delineated Waterway
- ~ Approximate Waterway
- ~ Field Delineated Waterway Area
- ~ Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland Habitat Area
- Mixed Early Successional/Second Growth Deciduous Forest
- Early Successional Deciduous Forest
- Maintained Lawn
- Agricultural Field
- Old Field
- New Field
- Hayfield
- Pasture
- Industrial
- Existing Railroad
- Existing Paved Surface
- Existing Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COWI, NAD83
3. Orthophoto imagery: 2017 NAD

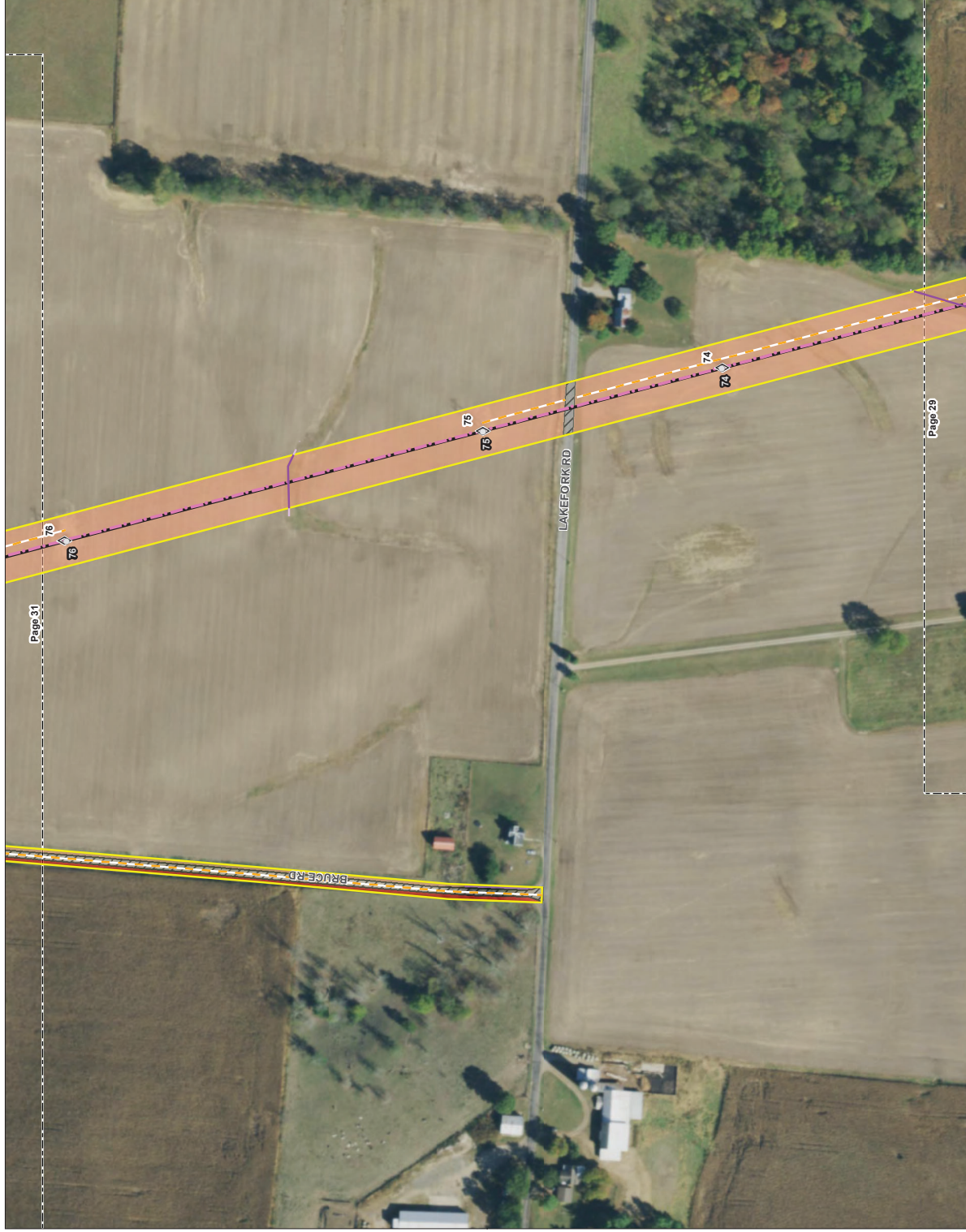


Figure No.

3

Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio and Lorain Counties,
Ohio

19370128

Prepared by JLT on 2021-04-19

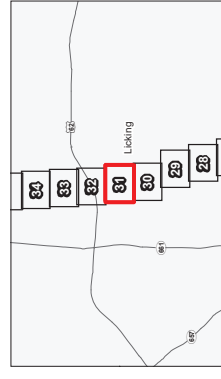
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Independent Review by JLG on 2021-04-22



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- ⚡ Existing 138 kV Transmission Line to be Rebuilt
- ⚡ Proposed 138 kV Transmission Line
- ⚡ Proposed Access Road
- ⚡ Project Area
- Photo Location
- △ Existing Culvert
- ▲ Existing Storm Drain
- Seep/Spring
- ~ Upland Drainage Feature
- ~ Approximate Upland Drainage Feature
- ~ Field Delineated Waterway
- ~ Approximate Waterway
- ~ Field Delineated Waterway Area
- ~ Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland Habitat Area
- Mixed Early Successional/Second Growth Deciduous Forest
- Early Successional Deciduous Forest
- Maintained Lawn
- Agricultural Field
- Old Field
- New Field
- Hayfield
- Pasture
- Industrial
- Existing Railroad
- Existing Paved Surface
- Existing Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COWI, NADIS
3. Orthophoto courtesy of USGS

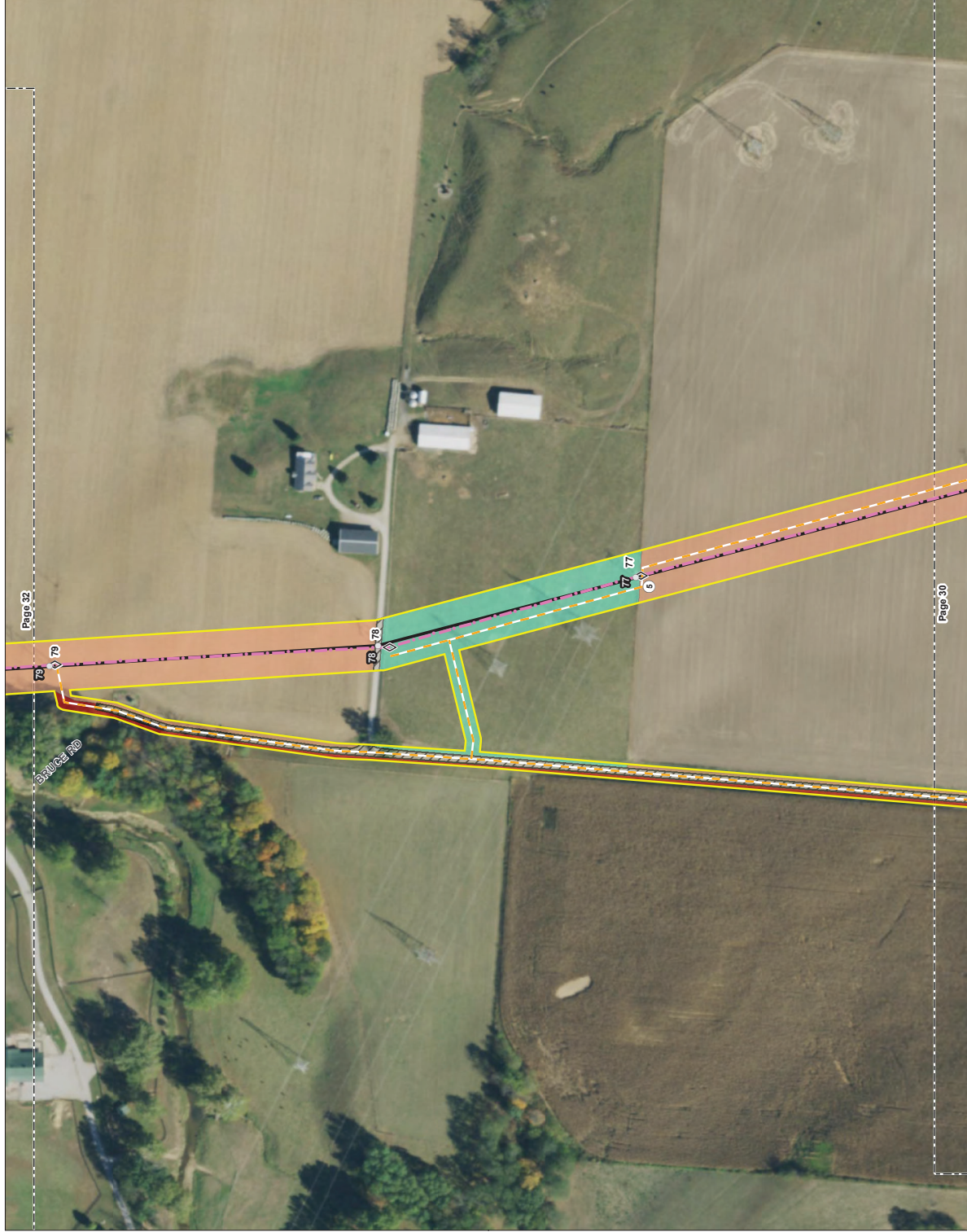


Figure No.

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Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Ohio

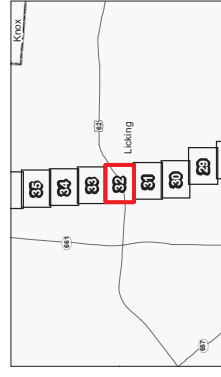
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Prepared by JLI on 2021-04-19
Technical Review by AEP on 2021-04-22
Independent Review by JLI on 2021-04-22

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1:2,400 (A1 original document size of 11x17)



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- Existing 138 kV Transmission Line to be Rebuilt
- Proposed 138 kV Transmission Line
- Proposed Access Road
- Project Area
- Photo Location
- △ Existing Culvert
- Existing Storm Drain
- Seep/Spring
- Upland Drainage Feature
- Approximate Upland Drainage Feature
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Scrub-Shrub Wetland
- Approximate Wetland Habitat Area
- Mixed Early Successional/Second Growth Deciduous Forest
- Early Successional Deciduous Forest
- Maintained Lawn
- Agricultural Field
- Old Field
- New Field
- Hayfield
- Pasture
- Industrial
- Existing Railroad
- Existing Paved Surface
- Existing Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, CDBG, NADs
3. Orthophoto imagery: 2017 NAD



Figure No.

3

Habitat Assessment Map

Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

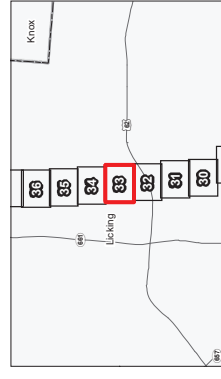
Project Location
Ohio

192701240
Prepared by: JLT on 2021-04-19
Technical Review by: AEP on 2021-04-22
Independent Review by: AEP on 2021-04-22

0 100 200 Feet
1:2,400 (A1 original document size of 11x17)



- Legend**
- AEP Substation
 - Existing Structure to be Replaced
 - ◇ Proposed Structure
 - ⚡ Existing 138 kV Transmission Line to be Rebuilt
 - ⚡ Proposed 138 kV Transmission Line
 - ⚡ Proposed Access Road
 - ⚡ Project Area
 - Photo Location
 - △ Existing Culvert
 - ▲ Existing Storm Drain
 - Seep/Spring
 - ~ Upland Drainage Feature
 - ~ Approximate Upland Drainage Feature
 - ~ Field Delineated Waterway
 - ~ Approximate Waterway
 - ~ Field Delineated Waterway Area
 - ~ Field Delineated Open Water
 - Approximate Open Water
 - Field Delineated Emergent Wetland
 - Field Delineated Scrub-Shrub Wetland
 - Approximate Wetland
 - Habitat Area
 - Mixed Early Successional/Second Growth Deciduous Forest
 - Early Successional Deciduous Forest
 - Maintained Lawn
 - Agricultural Field
 - Old Field
 - New Field
 - Hayfield
 - Pasture
 - Industrial
 - Existing Railroad
 - Existing Paved Surface
 - Existing Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COBRP, NAD83
3. Orthophoto Imagery: 2017 NADP



Figure No.

3

Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Ohio and Licking Counties,

Ohio

19370128

Prepared by JLT on 2021-04-19

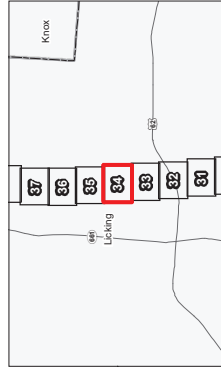
Technical Review by A/E on 2021-04-22

Independent Review by DLO on 2021-04-22



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- ◇ Existing 138 kV Transmission Line to be Rebuilt
- ◇ Proposed 138 kV Transmission Line
- ◇ Proposed Access Road
- ◇ Project Area
- ◇ Photo Location
- ◇ Existing Culvert
- ◇ Existing Storm Drain
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- ◇ Upland Drainage Feature
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- ◇ Maintained Lawn
- ◇ Agricultural Field
- ◇ Old Field
- ◇ New Field
- ◇ Hayfield
- ◇ Pasture
- ◇ Industrial
- ◇ Existing Railroad
- ◇ Existing Paved Surface
- ◇ Existing Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COWI, NADIS
3. Orthophotography: 2017 NADP



Figure No.

3

Habitat Assessment Map

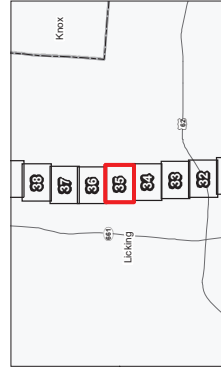
Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Knox and Licking Counties,
Ohio

192701248
Prepared by JLI on 2021-04-19
Technical Review by AEP on 2021-04-22
Independent Review by AEP on 2021-04-22

0 100 200 Feet
1:2,400 (A1 original document size of 11x17)

- Legend**
- AEP Substation
 - Existing Structure to be Replaced
 - ◇ Proposed Structure
 - Existing 138 kV Transmission Line to be Rebuilt
 - Proposed 138 kV Transmission Line
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 - Existing Paved Surface
 - Existing Roadway



Notes
1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COWI, NAD83
3. Orthorectified imagery, 2017 NAD

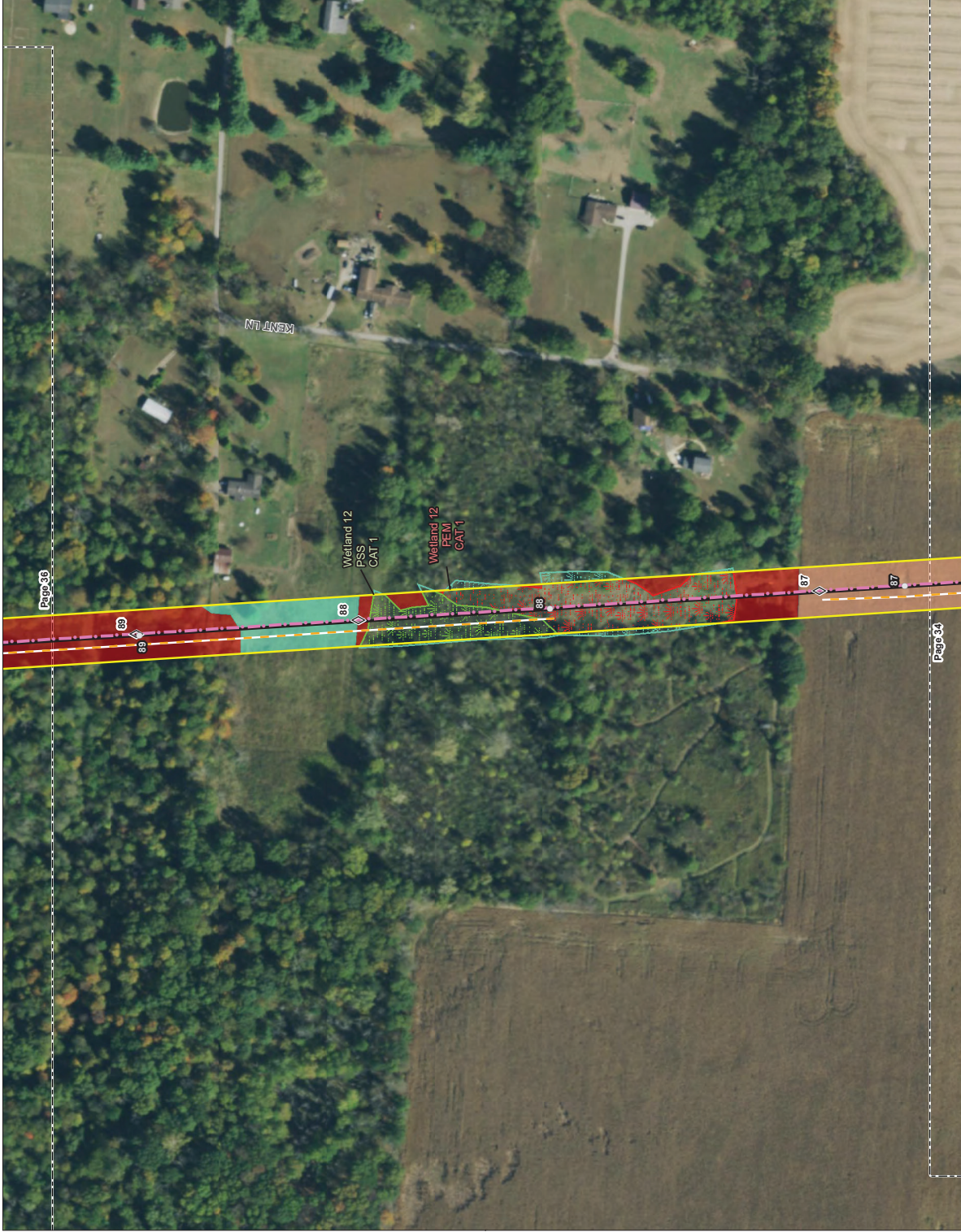


Figure No.

3

Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Knox and Licking Counties,
Ohio

193701240

Prepared by J.L. on 2021-04-19

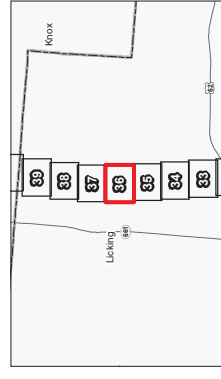
Technical Review by A.K. on 2021-04-22

Independent Review by D.L. on 2021-04-22



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- ⚡ Existing 138 kV Transmission Line to be Rebuilt
- ⚡ Proposed 138 kV Transmission Line
- ⚡ Proposed Access Road
- ⚡ Project Area
- ⚡ Photo Location
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- ⚡ Existing Storm Drain
- ⚡ Seep/Spring
- ⚡ Upland Drainage Feature
- ⚡ Approximate Upland Drainage Feature
- ⚡ Field Delineated Waterway
- ⚡ Approximate Waterway
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- ⚡ Hayfield
- ⚡ Pasture
- ⚡ Industrial
- ⚡ Existing Railroad
- ⚡ Existing Paved Surface
- ⚡ Existing Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COWI, NAD83
3. Orthophoto imagery: 2017 NAD



Figure No.

3

Habitat Assessment Map

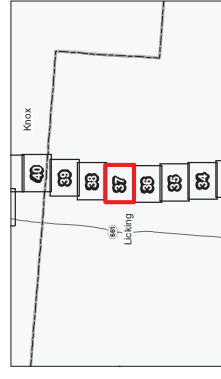
Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Knox and Licking Counties,
Ohio

193701238
Prepared by JLT on 2021-04-19
Technical Review by AJK on 2021-04-22
Independent Review by DLS on 2021-04-22



- Legend**
- | | | | | | | | | | | | | | | | | |
|--------------------------|-------------------------------------|----------------------------------|---|---|---------------------------------------|-------------------|----------------------|--------------------|------------------------|---------------|---------------------------|---------------------------------------|-----------------------------|--------------------------|----------------------------------|-------------------------------|
| ■ AEP Substation | ○ Existing Structure to be Replaced | ◇ Proposed Structure | ⚡ Existing 138 kV Transmission Line to be Rebuilt | ⚡ Proposed 138 kV Transmission Line | ⚡ Proposed Access Road | □ Project Area | ○ Photo Location | △ Existing Culvert | ▲ Existing Storm Drain | ● Seep/Spring | ~ Upland Drainage Feature | ~ Approximate Upland Drainage Feature | ~ Field Delineated Waterway | ~ Approximate Waterway | ~ Field Delineated Waterway Area | ~ Field Delineated Open Water |
| ○ Approximate Open Water | ○ Field Delineated Emergent Wetland | ○ Field Delineated Scrub Wetland | ○ Approximate Wetland Habitat Area | ○ Mixed Early Successional/Second Growth Deciduous Forest | ○ Early Successional Deciduous Forest | ○ Maintained Lawn | ○ Agricultural Field | ○ Old Field | ○ New Field | ○ Hayfield | ○ Pasture | ○ Industrial | ○ Existing Railroad | ○ Existing Paved Surface | ○ Existing Roadway | |



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COWI, NAD83
3. Orthophoto Imagery: 2017 NAD



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Figure No.

3

Habitat Assessment Map

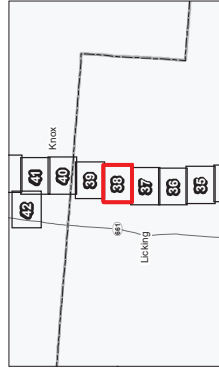
Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Knox and Licking Counties,
Ohio

193701238
Prepared by A/E on 2021-04-19
Technical Review by A/E on 2021-04-19
Independent Review by DLO on 2021-04-22



- Legend**
- AEP Substation
 - Existing Structure to be Replaced
 - ◇ Proposed Structure
 - ⚡ Existing 138 kV Transmission Line to be Rebuilt
 - ⚡ Proposed 138 kV Transmission Line
 - ⚡ Proposed Access Road
 - Project Area
 - Photo Location
 - △ Existing Culvert
 - ▲ Existing Storm Drain
 - Seep/Spring
 - ~ Upland Drainage Feature
 - ~ Approximate Upland Drainage Feature
 - ~ Field Delineated Waterway
 - ~ Approximate Waterway
 - ~ Field Delineated Waterway Area
 - ~ Field Delineated Open Water
 - Approximate Open Water
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 - Early Successional Deciduous Forest
 - Maintained Lawn
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 - Old Field
 - New Field
 - Hayfield
 - Pasture
 - Industrial
 - Existing Railroad
 - Existing Paved Surface
 - Existing Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COWI, NADIS
3. Orthophotography: 2017 NADP



Figure No.

3

Habitat Assessment Map

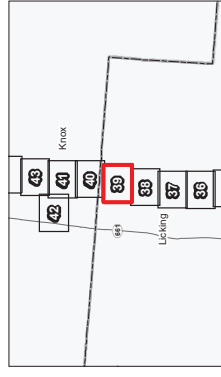
Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Ohio and Licking Counties,
Ohio

192701248
Prepared by JAL on 2021-04-19
Technical Review by AJK on 2021-04-22
Independent Review by DLO on 2021-04-22

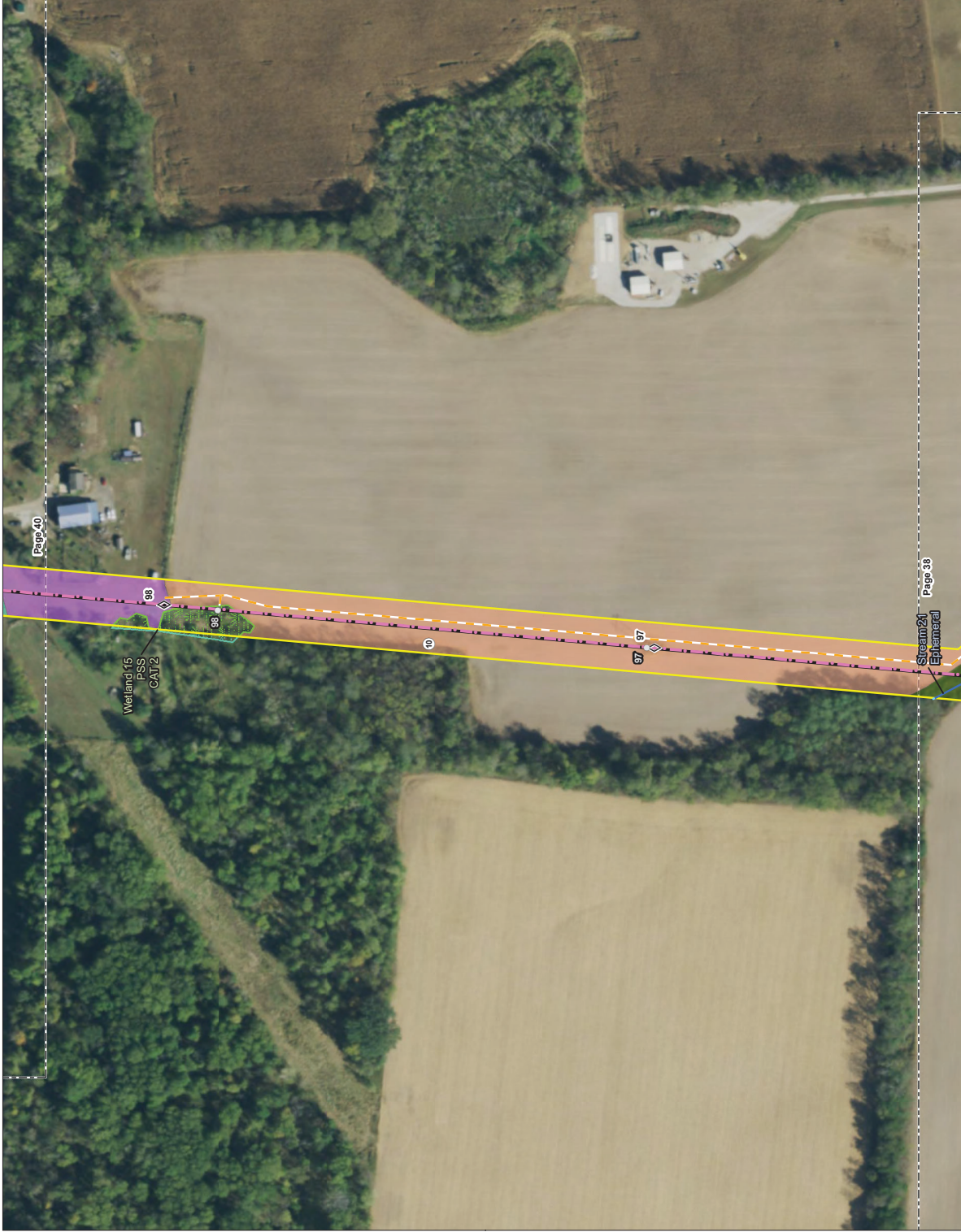


- Legend**
- | | | |
|---|---|---|
| ■ AEP Substation | ○ Field Delimited Water | ■ Approximate Open Water |
| ● Existing Structure to be Replaced | ● Field Delimited Emergent Wetland | ● Field Delimited Emergent Wetland |
| ◇ Proposed Structure | ◇ Field Delimited Scrub-Shrub Wetland | ◇ Field Delimited Scrub-Shrub Wetland |
| ⚡ Existing 138 kV Transmission Line to be Rebuilt | ⚡ Approximate Wetland | ⚡ Approximate Wetland |
| ⚡ Proposed 138 kV Transmission Line | ⚡ Mixed Early Successional/Second Growth Deciduous Forest | ⚡ Mixed Early Successional/Second Growth Deciduous Forest |
| ⚡ Proposed Access Road | ⚡ Early Successional Deciduous Forest | ⚡ Early Successional Deciduous Forest |
| ⚡ Project Area | ⚡ Maintained Lawn | ⚡ Maintained Lawn |
| ⚡ Photo Location | ⚡ Agricultural Field | ⚡ Agricultural Field |
| ⚡ Existing Culvert | ⚡ Old Field | ⚡ Old Field |
| ⚡ Existing Storm Drain | ⚡ New Field | ⚡ New Field |
| ⚡ Seep/Spring | ⚡ Hayfield | ⚡ Hayfield |
| ⚡ Upland Drainage Feature | ⚡ Pasture | ⚡ Pasture |
| ⚡ Approximate Upland Drainage Feature | ⚡ Industrial | ⚡ Industrial |
| ⚡ Field Delimited Waterway | ⚡ Existing Railroad | ⚡ Existing Railroad |
| ⚡ Approximate Waterway | ⚡ Existing Paved Surface | ⚡ Existing Paved Surface |
| ⚡ Field Delimited Waterway Area | ⚡ Existing Roadway | ⚡ Existing Roadway |
| ⚡ Field Delimited Open Water | | |



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COWI, NADIS
3. Orthophotography: 2017 NADP



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Figure No.

3

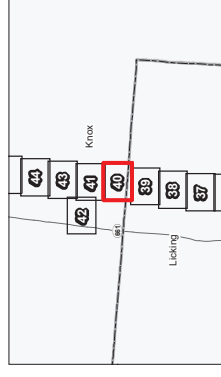
Habitat Assessment Map

Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Knox and Licking Counties,
Ohio

193707328
Prepared by J.H. on 2021-04-19
Technical Review by A.E. on 2021-04-22
Independent Review by D.S. on 2021-04-22

- Legend
- AEP Substation
 - Existing Structure to be Replaced
 - ◇ Proposed Structure
 - ◇ Existing 138 kV Transmission Line to be Rebuilt
 - ◇ Proposed 138 kV Transmission Line
 - ◇ Proposed Access Road
 - ◇ Project Area
 - Photo Location
 - △ Existing Culvert
 - △ Existing Storm Drain
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 - Upland Drainage Feature
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 - Agricultural Field
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 - Hayfield
 - Pasture
 - Industrial
 - Existing Railroad
 - Existing Paved Surface
 - Existing Roadway



Notes
1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COWI, NADIS
3. Orthophotography: 2017 NADP

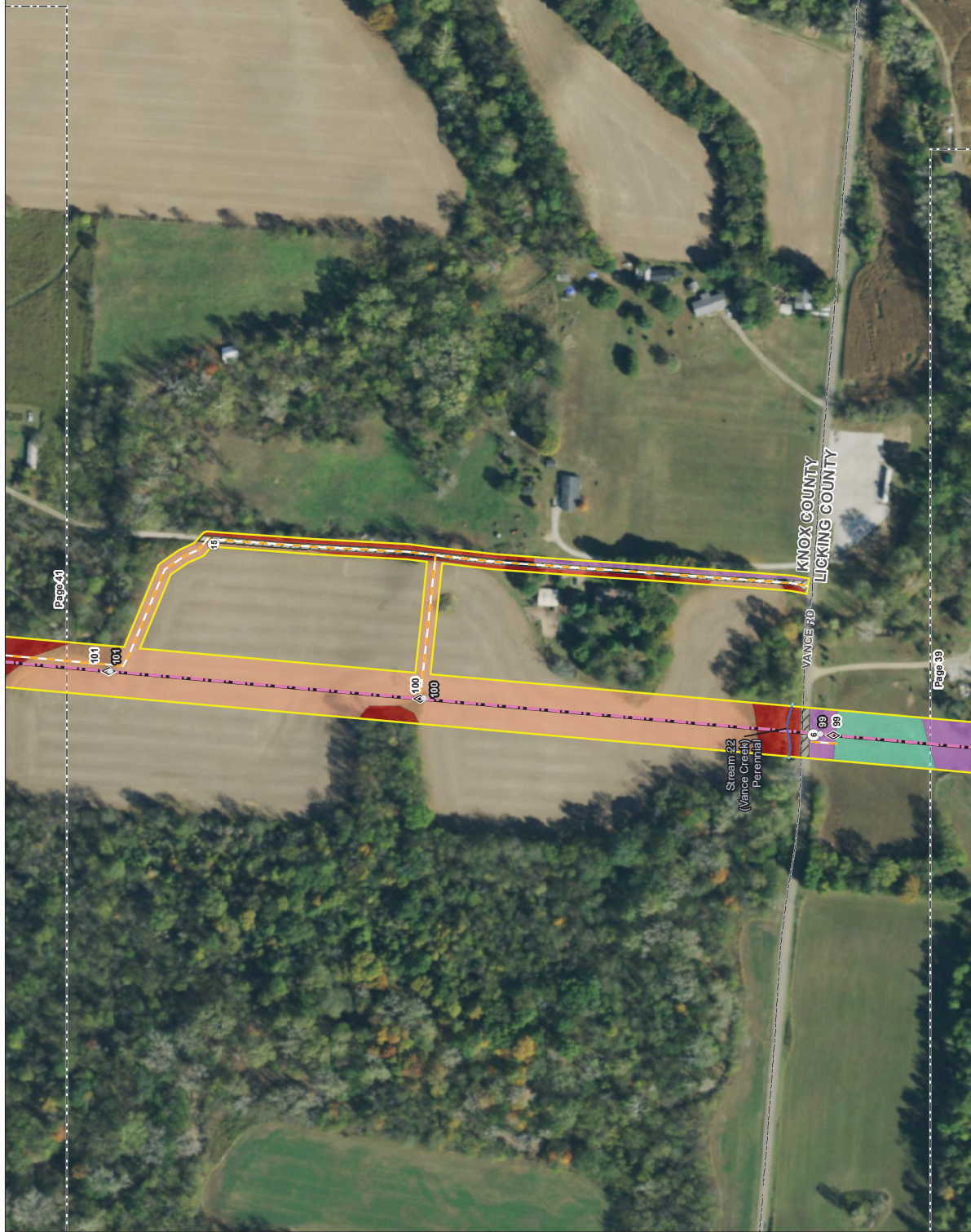


Figure No.

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Habitat Assessment Map

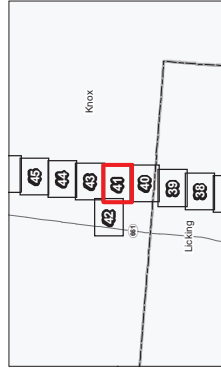
Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Knox and Licking Counties,
Ohio

192701238
Prepared by J.H. on 2021-04-19
Technical Review by A.K. on 2021-04-22
Independent Review by D.D. on 2021-04-22



- Legend**
- | | | |
|---|---|---|
| ■ AEP Substation | ○ Field Delineated Water | ■ Approximate Open Water |
| ● Existing Structure to be Replaced | ● Field Delineated Emergent Wetland | ● Field Delineated Emergent Wetland |
| ◇ Proposed Structure | ● Field Delineated Scrub-Shrub Wetland | ● Field Delineated Scrub-Shrub Wetland |
| ⚡ Existing 138 kV Transmission Line to be Rebuilt | ⚡ Approximate Wetland | ⚡ Approximate Wetland |
| ⚡ Proposed 138 kV Transmission Line | ⚡ Habitat Area | ⚡ Habitat Area |
| ⚡ Proposed Access Road | ⚡ Mixed Early Successional/Second Growth Deciduous Forest | ⚡ Mixed Early Successional/Second Growth Deciduous Forest |
| ⚡ Project Area | ⚡ Early Successional Deciduous Forest | ⚡ Early Successional Deciduous Forest |
| ⚡ Photo Location | ⚡ Maintained Lawn | ⚡ Maintained Lawn |
| ⚡ Existing Culvert | ⚡ Agricultural Field | ⚡ Agricultural Field |
| ⚡ Existing Storm Drain | ⚡ Old Field | ⚡ Old Field |
| ⚡ Seep/Spring | ⚡ New Field | ⚡ New Field |
| ⚡ Upland Drainage Feature | ⚡ Hayfield | ⚡ Hayfield |
| ⚡ Approximate Upland Drainage Feature | ⚡ Pasture | ⚡ Pasture |
| ⚡ Field Delineated Waterway | ⚡ Industrial | ⚡ Industrial |
| ⚡ Approximate Waterway | ⚡ Existing Railroad | ⚡ Existing Railroad |
| ⚡ Field Delineated Waterway Area | ⚡ Existing Paved Surface | ⚡ Existing Paved Surface |
| ⚡ Field Delineated Open Water | ⚡ Existing Roadway | ⚡ Existing Roadway |



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COBRP, NADs
3. Orthophoto Imagery: 2017 NADP



Figure No.

3

Habitat Assessment Map

Client/Project

AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Knox and Licking Counties,
Ohio

193707328

Prepared by J.H. on 2021-04-19

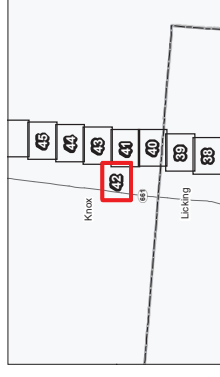
Technical Review by A.K. on 2021-04-22

Independent Review by D.L. on 2021-04-22



Legend

- AEP Substation
- Existing Structure to be Replaced
- ◇ Proposed Structure
- ⚡ Existing 138 kV Transmission Line to be Rebuilt
- ⚡ Proposed 138 kV Transmission Line
- ⚡ Proposed Access Road
- Project Area
- Photo Location
- ▲ Existing Culvert
- ▲ Existing Storm Drain
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- ~ Upland Drainage Feature
- ~ Approximate Upland Drainage Feature
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- ~ Hayfield
- ~ Pasture
- ~ Industrial
- ~ Existing Railroad
- ~ Existing Paved Surface
- ~ Existing Roadway



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, OGRIP, NAD83
3. Orthophoto imagery: 2017 NAD



Figure No.

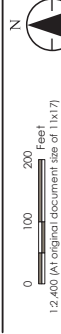
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Habitat Assessment Map

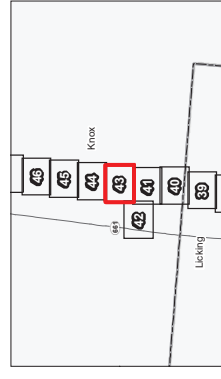
Client/Project
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location
Knox and Licking Counties,
Ohio

19-070-1248
Prepared by J.H. on 2021-04-19
Technical Review by A.K. on 2021-04-22
Independent Review by D.D. on 2021-04-22



- Legend**
- | | | | | | | | | | | | | | | | | |
|--------------------------|-------------------------------------|--|---|---|---------------------------------------|-------------------|----------------------|--------------------|------------------------|---------------|---------------------------|---------------------------------------|-----------------------------|--------------------------|----------------------------------|-------------------------------|
| ■ AEP Substation | ○ Existing Structure to be Replaced | ◇ Proposed Structure | ◇ Existing 138 kV Transmission Line to be Rebuilt | — Proposed 138 kV Transmission Line | — Proposed Access Road | □ Project Area | ○ Photo Location | △ Existing Culvert | △ Existing Storm Drain | ● Seep/Spring | — Upland Drainage Feature | — Approximate Upland Drainage Feature | — Field Delineated Waterway | — Approximate Waterway | — Field Delineated Waterway Area | — Field Delineated Open Water |
| ○ Approximate Open Water | ○ Field Delineated Emergent Wetland | ○ Field Delineated Scrub-Shrub Wetland | ○ Approximate Wetland Habitat Area | ■ Mixed Early Successional/Second Growth Deciduous Forest | ■ Early Successional Deciduous Forest | ■ Maintained Lawn | ■ Agricultural Field | ■ Old Field | ■ New Field | ■ Hayfield | ■ Pasture | ■ Industrial | ■ Existing Railroad | ■ Existing Paved Surface | ■ Existing Roadway | |



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COBRP, NADIS
3. Orthophotography: 2017 NADP



Figure No.

3

Habitat Assessment Map

Client/Project

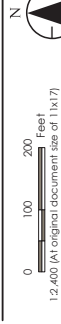
AEP Ohio Transmission Company, Inc.
North Newark-Sharp Road 138 kV
Transmission Line Rebuild Project

Project Location

Knox and Licking Counties,
Ohio

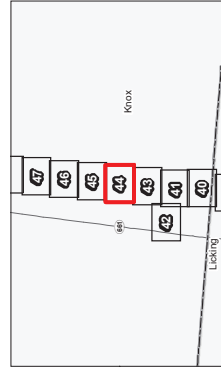
193707328

Prepared by J.H. on 2021-04-19
Technical Review by A.K. on 2021-04-22
Independent Review by D.G. on 2021-04-22



Legend

- | | | | | | | | | | | | | | | | | |
|--------------------------|-------------------------------------|----------------------------------|---|---|---------------------------------------|-------------------|----------------------|--------------------|------------------------|---------------|---------------------------|---------------------------------------|-----------------------------|--------------------------|----------------------------------|-------------------------------|
| ■ AEP Substation | ○ Existing Structure to be Replaced | ◇ Proposed Structure | ◇ Existing 138 kV Transmission Line to be Rebuilt | — Proposed 138 kV Transmission Line | — Proposed Access Road | — Project Area | ○ Photo Location | △ Existing Culvert | △ Existing Storm Drain | ● Seep/Spring | — Upland Drainage Feature | — Approximate Upland Drainage Feature | — Field Delineated Waterway | — Approximate Waterway | — Field Delineated Waterway Area | — Field Delineated Open Water |
| ○ Approximate Open Water | ○ Field Delineated Emergent Wetland | ○ Field Delineated Scrub Wetland | ○ Approximate Wetland Habitat Area | ■ Mixed Early Successional/Second Growth Deciduous Forest | ■ Early Successional Deciduous Forest | ■ Maintained Lawn | ■ Agricultural Field | ■ Old Field | ■ New Field | ■ Hayfield | ■ Pasture | ■ Industrial | ■ Existing Railroad | ■ Existing Paved Surface | ■ Existing Roadway | |



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Data Sources include: Stantec, AEP, USGS, COWI, NAD83
3. Orthophoto imagery: 2017 NAD



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Commission of Ohio Docketing Information System on

5/14/2021 3:32:02 PM

in

Case No(s). 21-0525-EL-BLN

Summary: Notice Letter of Notification Application for the North Newark-Sharp Road 138 kV Transmission Line Rebuild Project electronically filed by Tanner Wolfram on behalf of AEP Ohio Transmission Company, Inc.