

A.4 FIGURE 4 – WETLAND AND WATERBODY DELINEATION MAP

Figure No.

4

Wetland and Waterbody Delineation Map

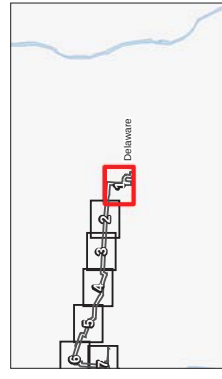
Client/Project

Columbia Gas of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternate Route Wetland and Waterbody Delineation

Project Location
Columbia Gas of Ohio
Ohio
13707065
Prepared by JG on 2020-02-27
Technical Review by AK on 2020-03-25
Independent Review by AT on 2020-04-13

Scale
0 100 200 Feet
12,400 (At original document size of 11x17)
N

- Legend**
- Survey Corridor
 - Approximate Proposed Pipeline - Alternate Route
 - Wetland Determination Sample Point
 - Culvert
 - Photo Location
 - Field Delineated Waterway
 - Approximate Waterway
 - Field Delineated Waterway Area
 - Field Delineated Open Water
 - Approximate Open Water
 - Field Delineated Emergent Wetland
 - Field Delineated Forested Wetland
 - Approximate Wetland



Notes

1. Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
2. Data Source: Aerial Photography, Columbus Gas, USGS, NAD83, Ohio
3. Orthorectified 2013 Ortho



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Figure No.

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Wetland and Waterbody Delineation Map

Client/Project

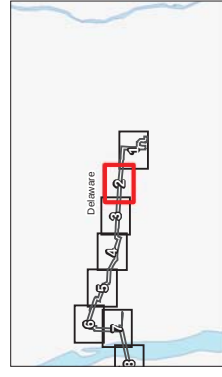
Columbiana Co. of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternate Route Wetland and Waterbody Delineation

Project Location
Columbiana Co. of Ohio
Prepared by J.D. on 2020-02-27
Technical Review by M.E. on 2020-03-25
Independent Review by M.E. on 2020-04-13

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

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Notes

- Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
- Map Scale: 1 inch = 200 feet
- Orthophotography: 2013 Ortho



Figure No.

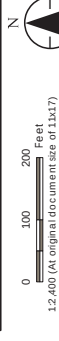
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Wetland and Waterbody Delineation Map

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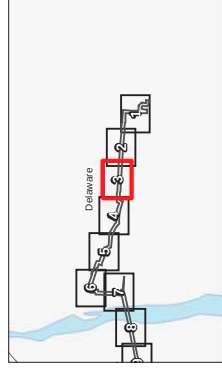
Columbiana Co. of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternates Route Wetland and Waterbody Delineation

Project Location
Columbiana Co. of Ohio
Technical Review by JG on 2020-02-27
Independent Review by JG on 2020-04-13



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Notes

- Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
- Horizontal Datum: North American Datum of 1983
- Orthorectified: Yes
- Orthorectification Method: Orthorectification
- Orthorectification Date: 2013-08-08



Figure No.

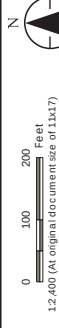
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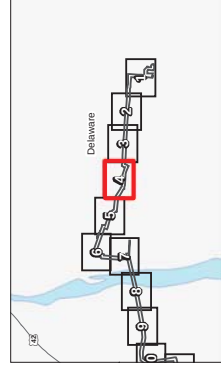
Columbia Gas of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternate Route Wetland and Waterbody Delineation

Project Location
Columbia Gas of Ohio
Technical Review by ME on 2020-03-27
Independent Review by ME on 2020-04-13



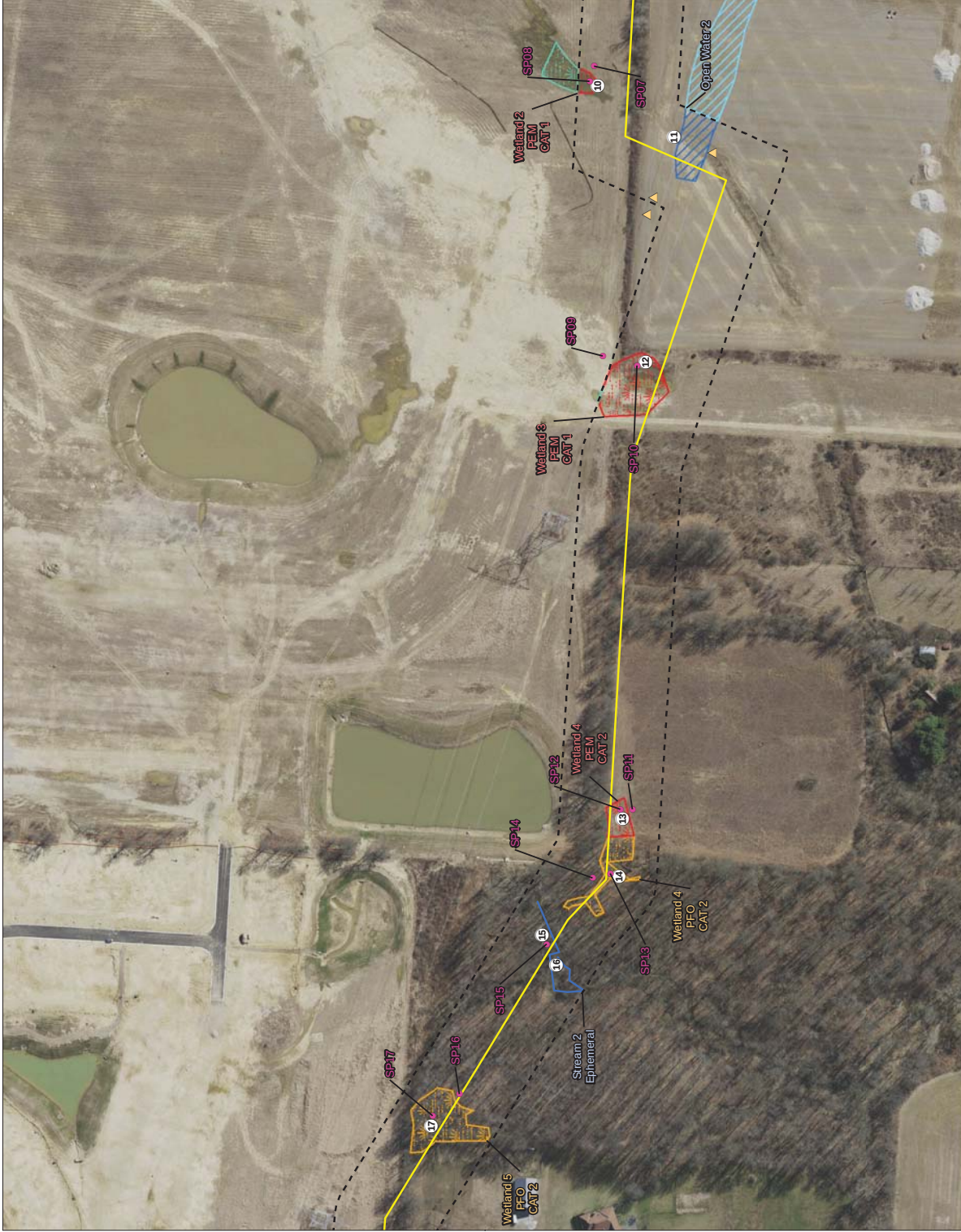
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- Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
- Map Scale: 1 inch = 100 feet
- Orthophotography: 2013 Ortho



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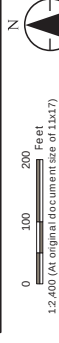
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Wetland and Waterbody Delineation Map

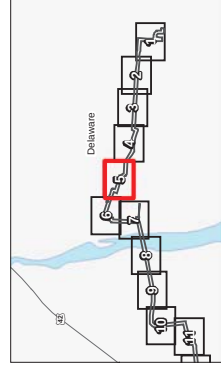
Client/Project

Columbia Gas of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternate Route Wetland and Waterbody Delineation

Project Location
Ohio and Delaware Counties
13707065
Prepared by JG on 2020-02-27
Technical Review by AK on 2020-03-25
Independent Review by AT on 2020-04-13

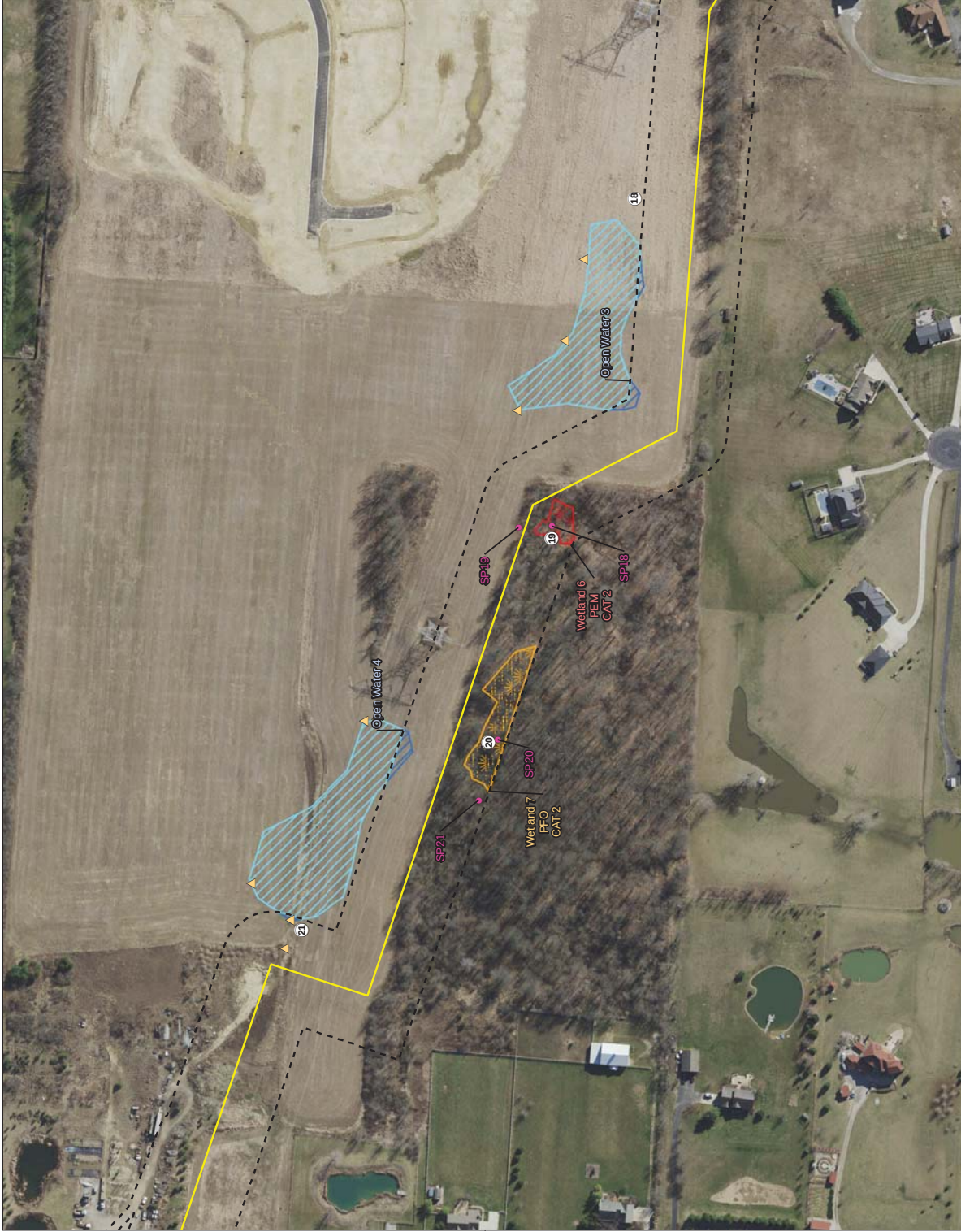


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1. Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
2. Data Source: Aerial Photography from Columbia Gas, 1995; NAD83, Ortho
3. Ortho Photography: 2013 Ortho



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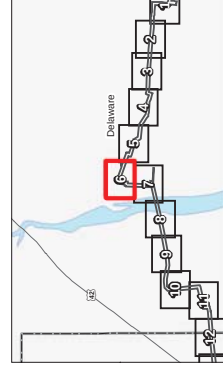
Columbia Gas of Ohio
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Alternate Route Wetland and Waterbody Delineation

Project Location
Columbia Gas of Ohio
Technical Review by JG on 2020-02-27
Independent Review by JK on 2020-03-25
and dependent Review by AT on 2020-04-13

132070065
0 100 200 Feet
12,400 (At original document size of 11x17)

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- Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
- Photography: 2013 Google Earth
- Orthophotography: 2013 Google



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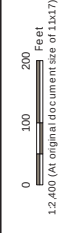
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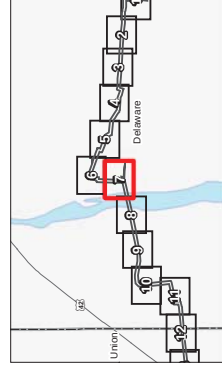
Columbiana Co. of Ohio
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Project Location
Columbiana Co. of Ohio
Prepared by JG on 2020-02-27
Technical Review by JG on 2020-03-25
Independent Review by JG on 2020-04-13



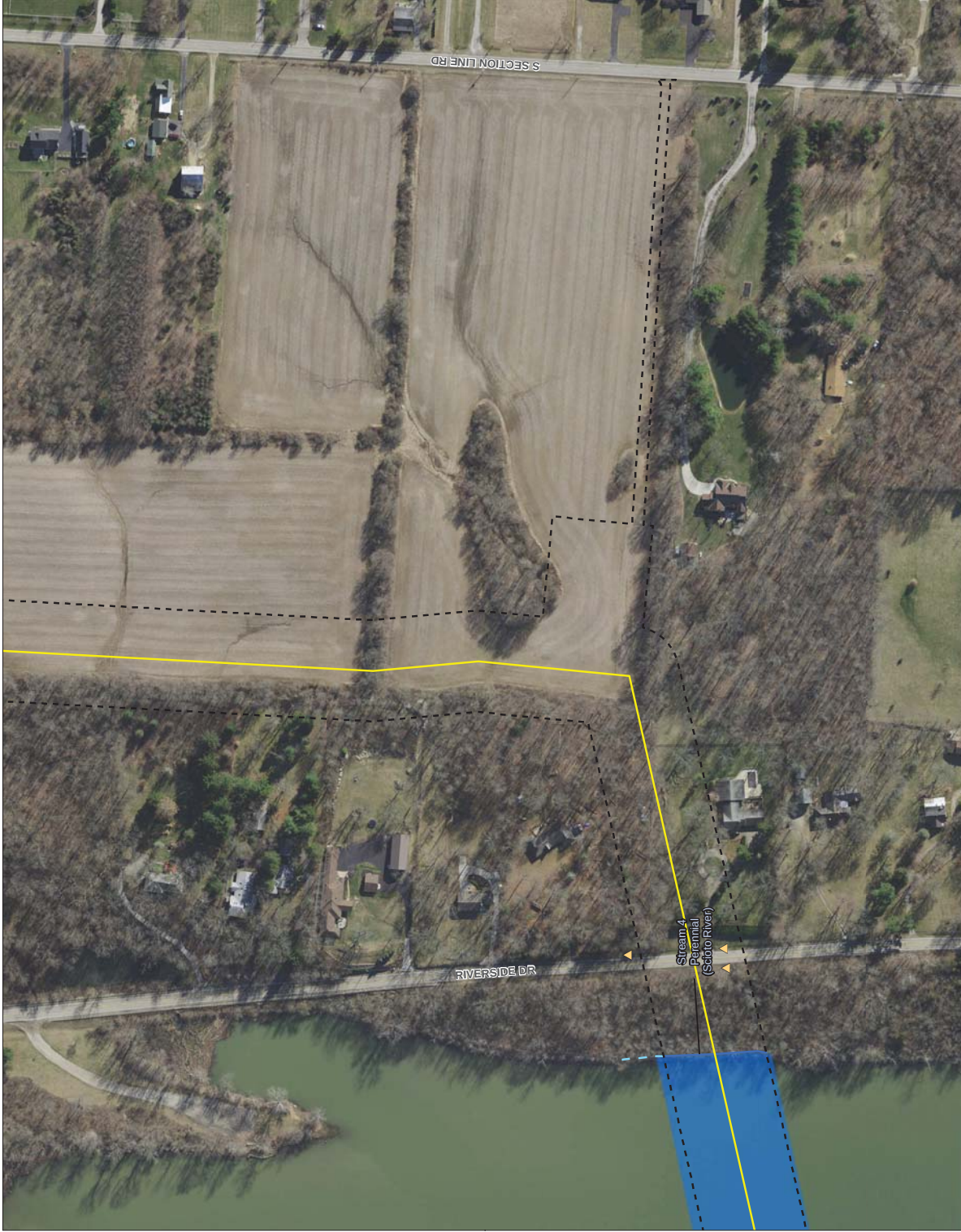
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- Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
- Source: Aerial Photography from 2013, Columbus Gas, USGS, NAD83, Ohio
- Orthorectified 2013 Ortho



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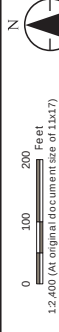
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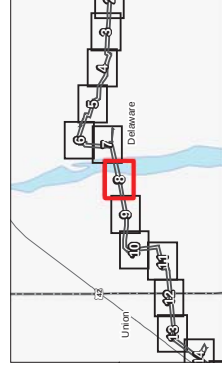
Columbiana Co. of Ohio
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Alternate Route Wetland and Waterbody Delineation

Project Location
Columbiana and Delaware Counties
Ohio
13707065
Prepared by JG on 2020-02-27
Technical Review by AK on 2020-03-25
Independent Review by AT on 2020-04-13



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Notes

- Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
- Source: Columbus County, Ohio, Columbus, Ga, USGS, NAD83, Ohio
- Orthophotography 2013 OCGP



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Figure No.

4

Title

Wetland and Waterbody Delineation Map

Client/Project

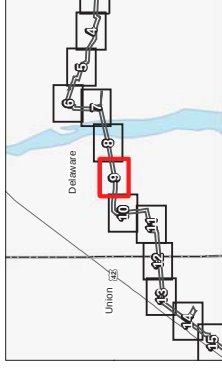
Columbia Gas of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternate Route Wetland and Waterbody Delineation

Project Location
Union and Delaware Counties
Ohio
13707065
Prepared by JG on 2020-02-27
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Notes

- Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3601 Feet
- Orthorectified imagery from the National Aerial Photography Program (NAPP)
- Orthorectified imagery from the National Aerial Photography Program (NAPP)



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Figure No.

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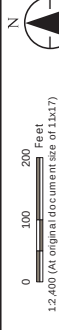
Title

Wetland and Waterbody Delineation Map

Client/Project

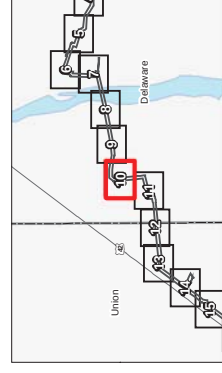
Columbia Gas of Ohio
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Project Location
Union and Delaware Counties
Ohio
13707065
Prepared by JLD on 2020-03-27
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Notes

1. Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
2. Data Source: Aerial Photography, Columbus Gas, USGS, NAD, Ohio
3. Orthorectified 2013 Ortho



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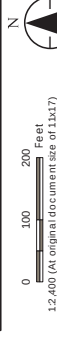
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Wetland and Waterbody Delineation Map

Client/Project

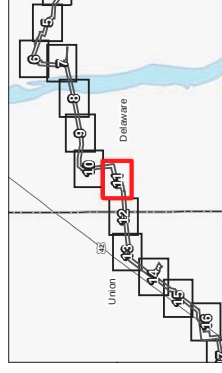
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- Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
- Units: Feet
- Source: Aerial Photography 2013, Columbus Gas, USGS, NAD83, Ohio
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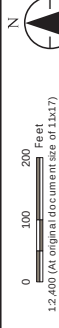
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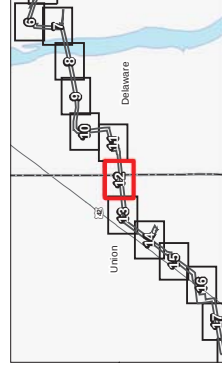
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Union and Delaware Counties
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Technical Review by MK on 2020-03-25
Independent Review by AT on 2020-04-13



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- Source: Aerial Photography from 2013, Columbus Gas, USGS, NAD83, USHP
- Orthorectified 2013 Ortho



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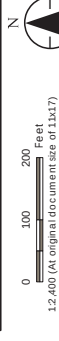
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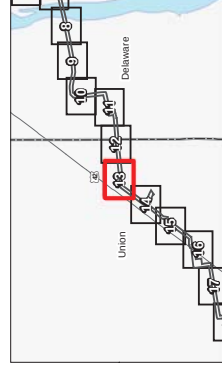
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- Map Scale: 1 inch = 400 feet
- Orthophotography: 2013 OGRIP



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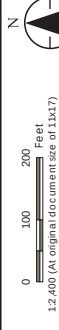
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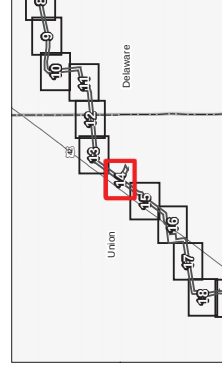
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- Map Scale: 1 inch = 400 feet
- Orthorectified: Yes
- Orthorectification Method: Columbia Gas, USGS, NAD83, USGS
- Orthorectification Date: 2013/08/09

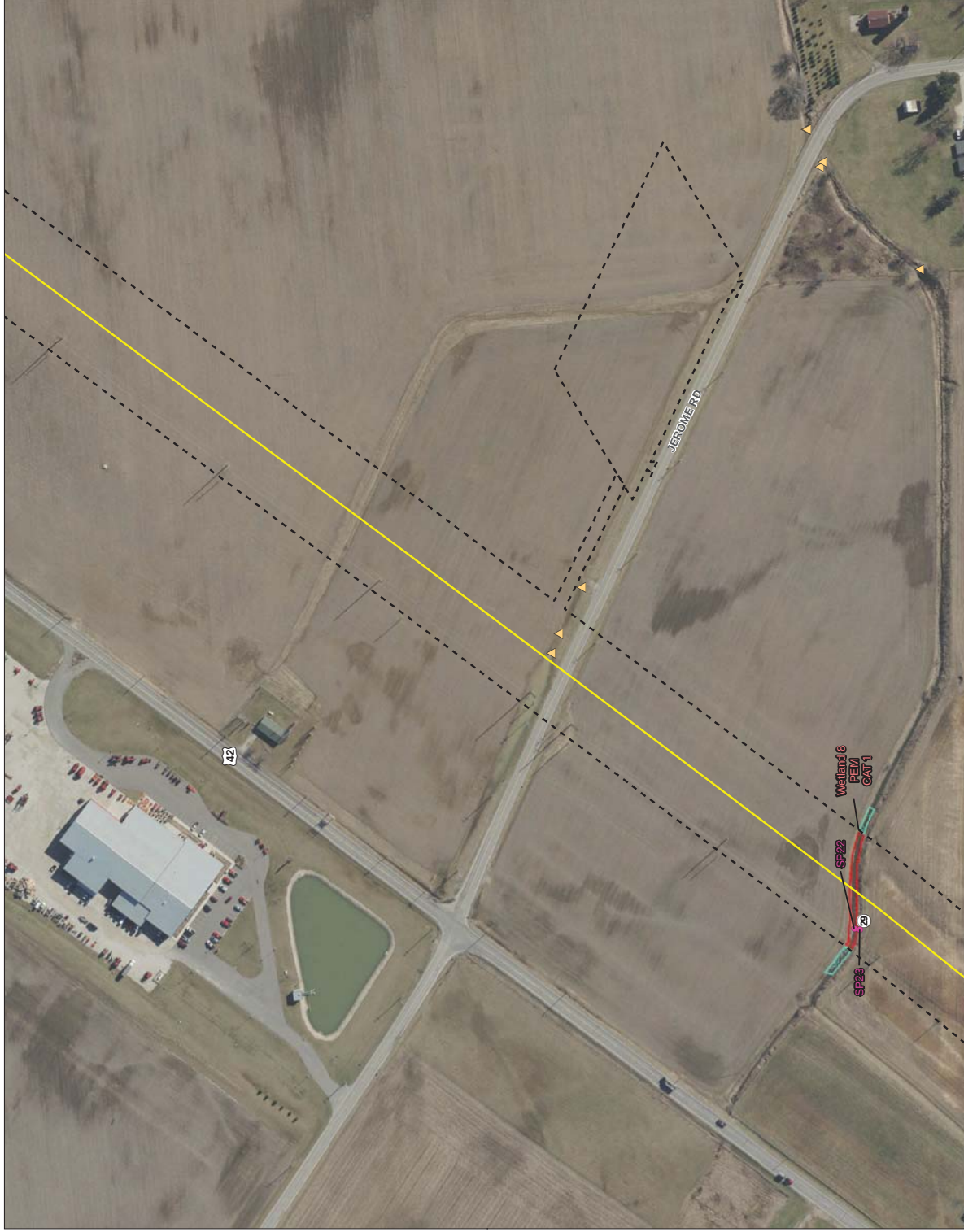


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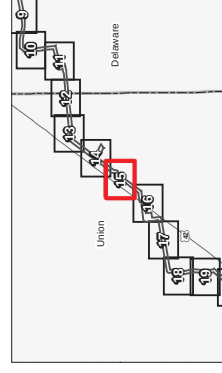
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0 100 200 Feet
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- Source: Aerial Photography from Columbia Gas, 1955; NAD83, OGR
- Orthorectified 2013 OGR



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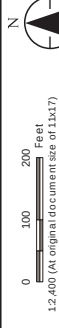
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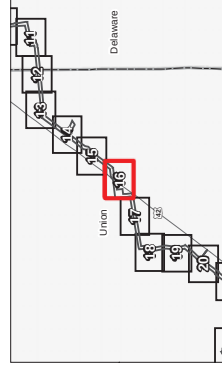
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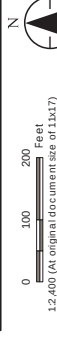
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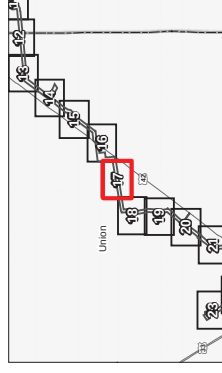
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Alternate Route Wetland and Waterbody Delineation

Project Location
Union and Delaware Counties
Ohio
13707065
Prepared by JDE on 2020-03-27
Technical Review by JDE on 2020-03-27
Independent Review by JDE on 2020-04-13



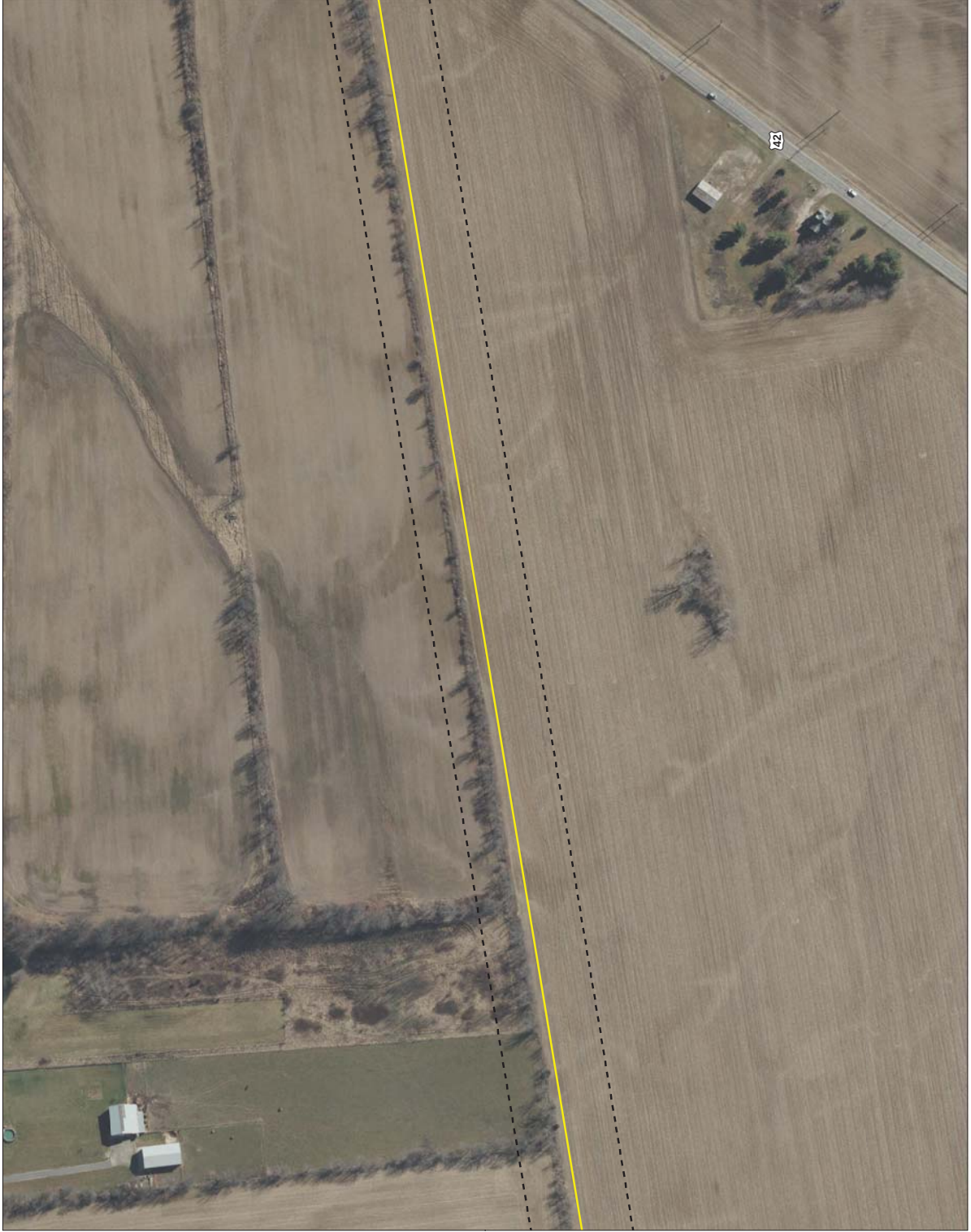
Legend

- Survey Corridor
- Approximate Proposed Pipeline - Alternate Route
- Wetland Determination Sample Point
- Culvert
- Photo Location
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Forested Wetland
- Approximate Wetland



Notes

- Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
- Photography: Aerial photography from 2013, Columbus Gas, USGS, NAD83, Ohio
- Orthorectified: 2013 Ortho



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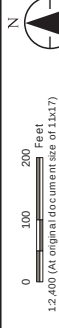
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Wetland and Waterbody Delineation Map

Client/Project

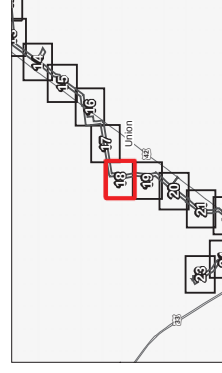
Columbia Gas of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternate Route Wetland and Waterbody Delineation

Project Location
Union and Delaware Counties
Ohio
13707065
Prepared by JG on 2020-03-27
Technical Review by MK on 2020-03-25
Independent Review by AT on 2020-04-13



Legend

- Survey Corridor
- Approximate Proposed Pipeline - Alternate Route
- Wetland Determination Sample Point
- Culvert
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- Approximate Wetland



Notes

- Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
- Map Scale: 1 inch = 200 feet
- Orthorectified Aerial Photography: Columbus Gas, 1995; NAD83, Ortho
- Orthorectified Aerial Photography: 2013 Ortho



Figure No.

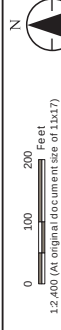
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Wetland and Waterbody Delineation Map

Client/Project

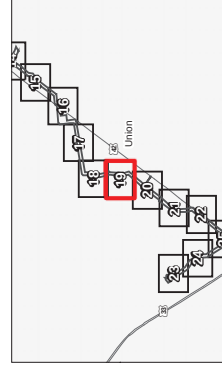
Columbia Gas of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternate Route Wetland and Waterbody Delineation

Project Location
Union and Delaware Counties
Ohio
13707065
Prepared by JED on 2020-03-27
Technical Review by MJC on 2020-03-25
Independent Review by MJC on 2020-04-13



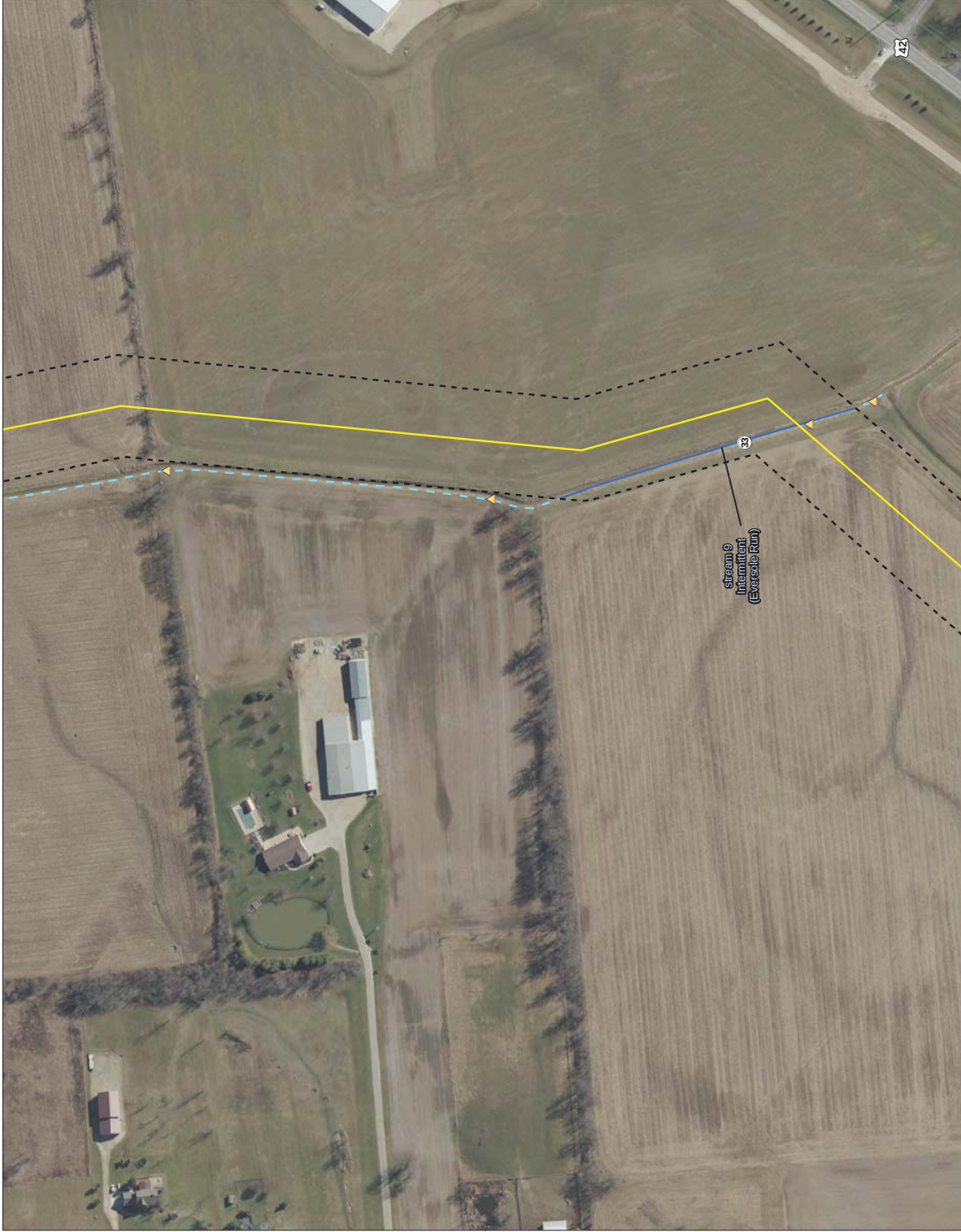
Legend

- Survey Corridor
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- Approximate Wetland



Notes

- Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
- Map Scale: 1 inch = 100 feet
- Orthorectified: Yes
- Orthorectification: Columbus Gas, 1995; NAD83, Ohio
- Orthorectification: 2013 OGR



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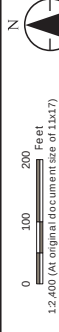
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Wetland and Waterbody Delineation Map

Client/Project

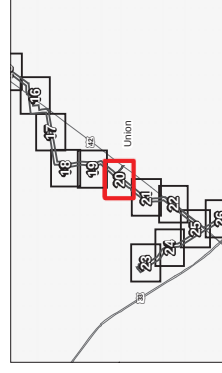
Columbia Gas of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternate Route Wetland and Waterbody Delineation

Project Location
Union and Delaware Counties
Ohio
13707065
Prepared by JDE on 2020-02-27
Technical Review by JDE on 2020-03-25
Independent Review by JDE on 2020-04-13



Legend

- Survey Corridor
- Approximate Proposed Pipeline - Alternate Route
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Notes

- Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
- Source: Aerial Photography from 2013, Columbus, GA, USGS, NAD83, Ohio
- Orthorectified 2013 Ortho



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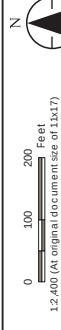
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Wetland and Waterbody Delineation Map

Client/Project

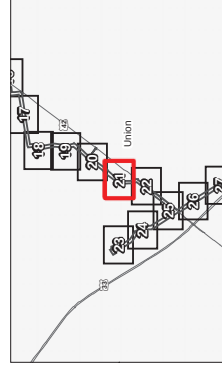
Columbia Gas of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternate Route Wetland and Waterbody Delineation

Project Location
Union and Delaware Counties
Ohio
13707065
Prepared by JDE on 2020-03-27
Technical Review by JDE on 2020-03-27
Independent Review by JDE on 2020-04-13



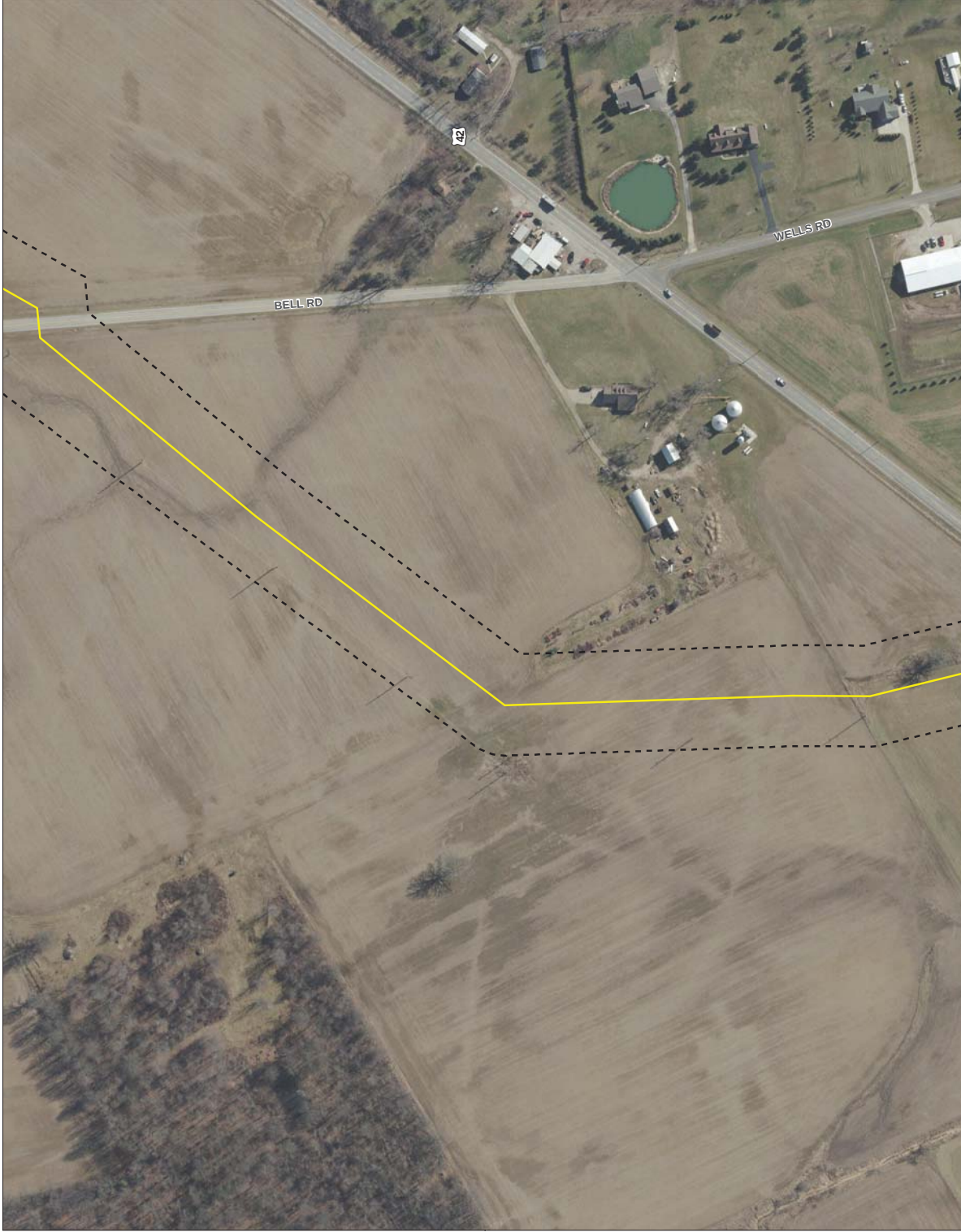
Legend

- Survey Corridor
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Notes

1. Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
2. Data Source: Aerial Photography from Columbia Gas, 2005; NAD83, Ohio
3. Orthorectified 2013 Ortho



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Figure No.

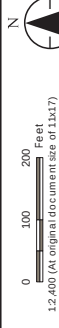
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Wetland and Waterbody Delineation Map

Client/Project

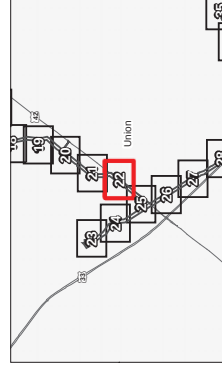
Columbia Gas of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternate Route Wetland and Waterbody Delineation

Project Location
Union and Delaware Counties
Ohio
13707065
Prepared by JDE on 2020-02-27
Technical Review by JDE on 2020-03-25
Independent Review by JDE on 2020-04-13



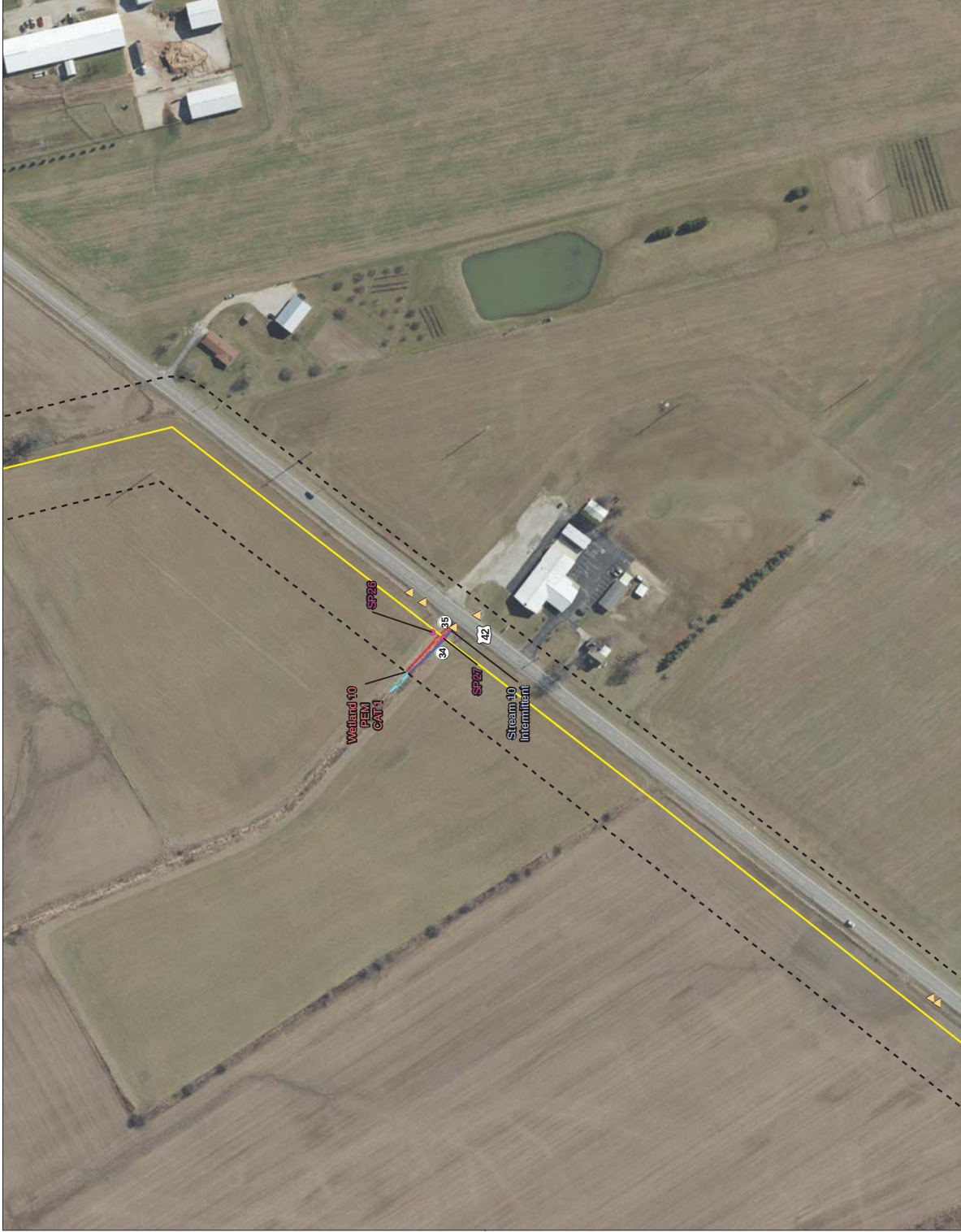
Legend

- Survey Corridor
- Approximate Proposed Pipeline - Alternate Route
- Wetland Determination Sample Point
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- Approximate Open Water
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- Field Delineated Forested Wetland
- Approximate Wetland



Notes

- Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
- Horizontal Datum: North American Datum of 1983, NAD83, NAVD83
- Orthorectified 2013 Ortho



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Figure No.

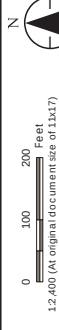
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Wetland and Waterbody Delineation Map

Client/Project

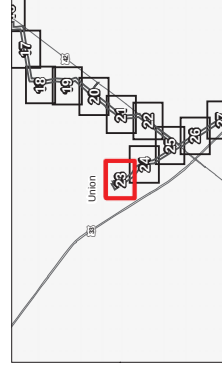
Columbia Gas of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternate Route Wetland and Waterbody Delineation

Project Location
Union and Delaware Counties
Ohio
13207065
Prepared by JDE on 2020-03-27
Technical Review by MLE on 2020-03-25
Independent Review by MLE on 2020-04-13



Legend

- Survey Corridor
- Approximate Proposed Pipeline - Alternate Route
- Wetland Determination Sample Point
- Culvert
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- Field Delineated Waterway
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- Field Delineated Waterway Area
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- Approximate Open Water
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- Approximate Wetland



Notes

1. Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
2. Data Source: Aerial Photography, Columbus Gas, USGS, NAD83, USRP
3. Orthorectified 2013 Ortho

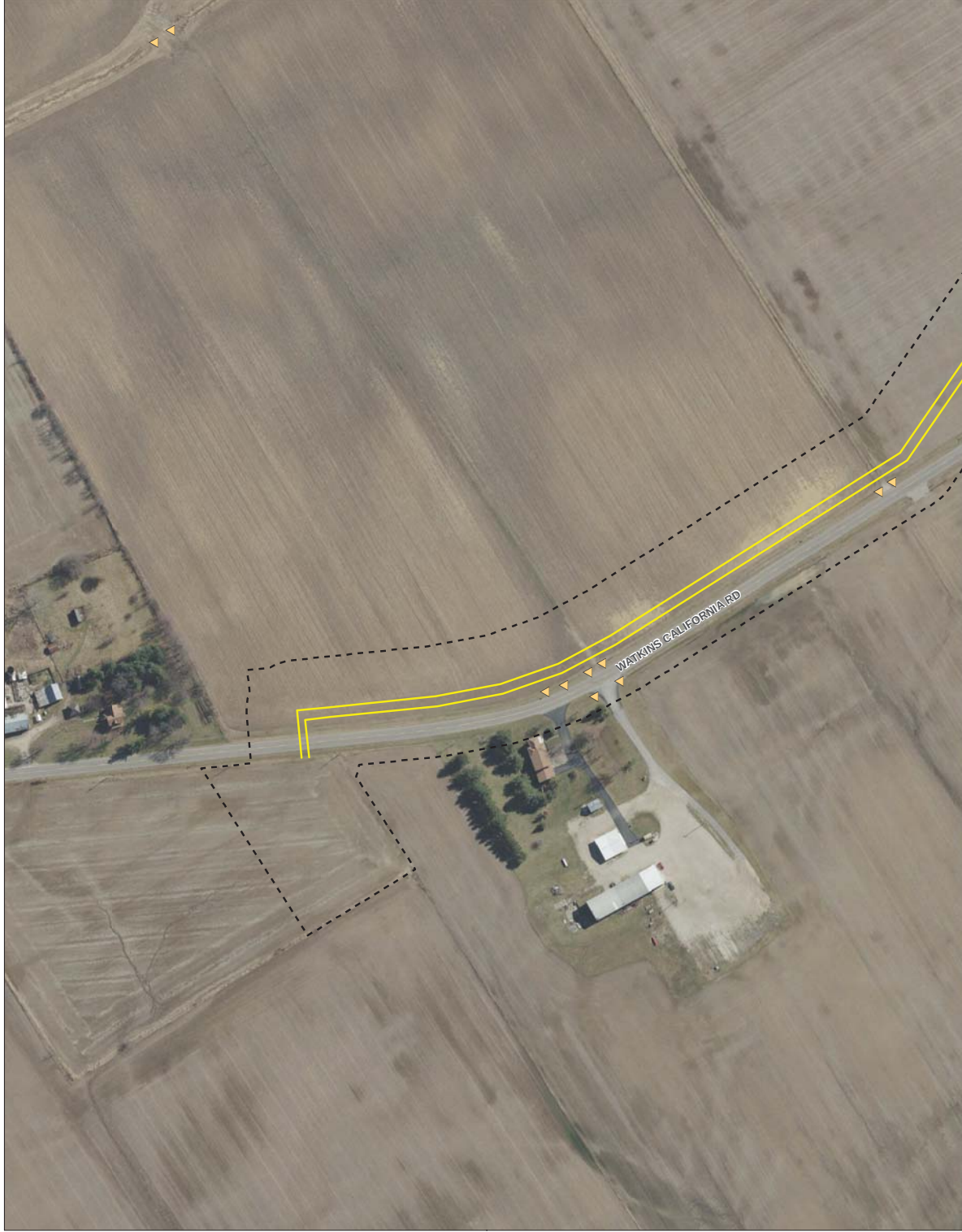


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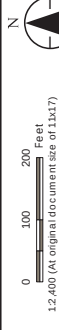
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Wetland and Waterbody Delineation Map

Client/Project

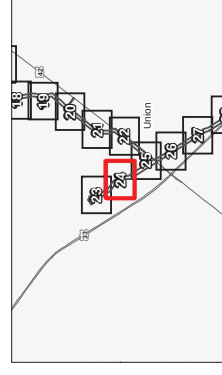
Columbia Gas of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternates Route Wetland and Waterbody Delineation

Project Location
Union and Delaware Counties
Ohio
13707065
Prepared by JG on 2020-03-27
Technical review by MK on 2020-03-27
Independent review by AT on 2020-04-13



Legend

- Survey Corridor
- Approximate Proposed Pipeline - Alternate Route
- Wetland Determination Sample Point
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- Field Delineated Open Water
- Approximate Open Water
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- Field Delineated Forested Wetland
- Approximate Wetland



Notes

1. Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
2. Data Source: Aerial Photography, Columbus, Ga. 1995; NAD83, Ohio
3. Orthophotography 2013 OGeP

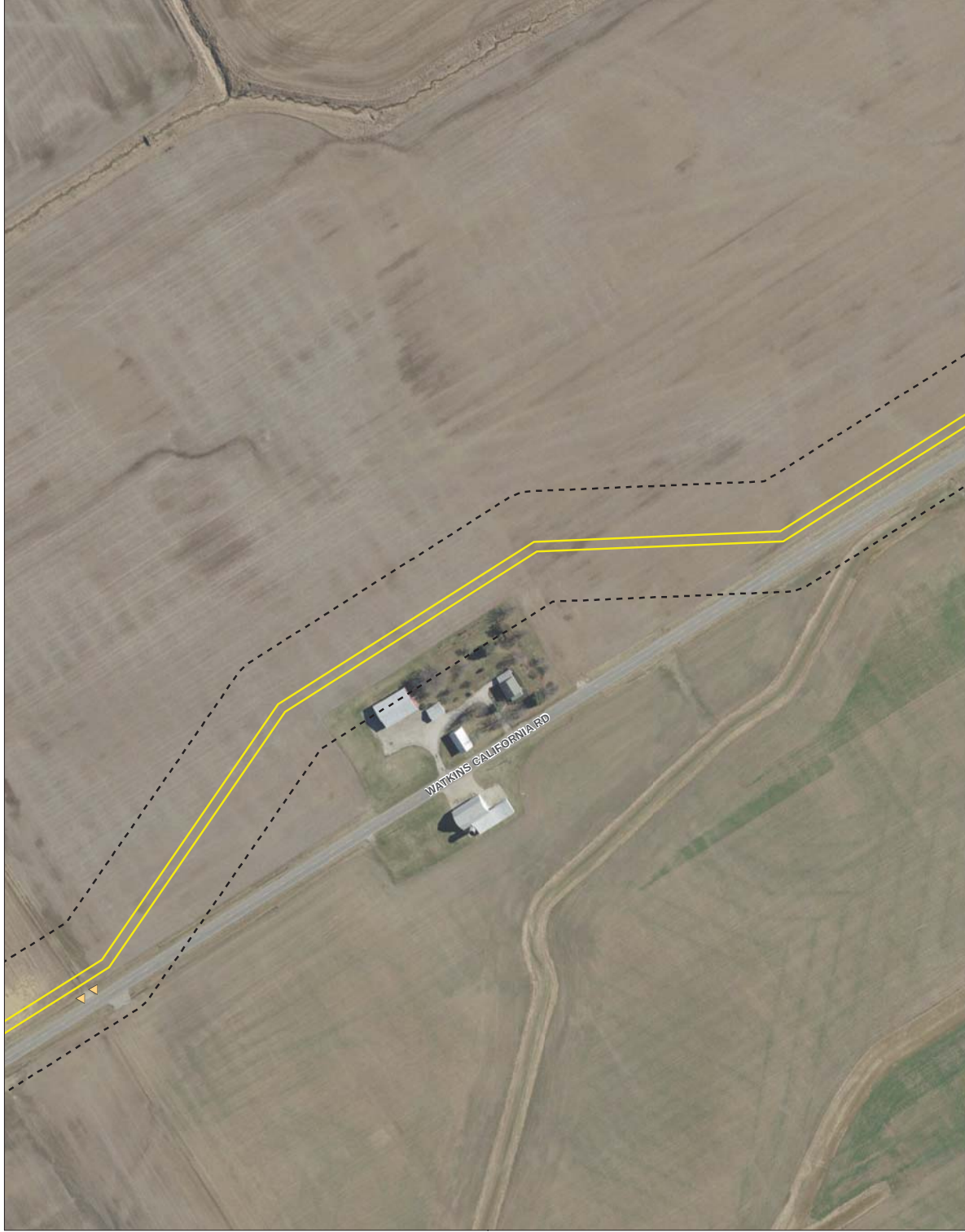


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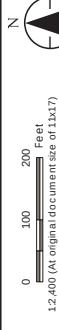
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Wetland and Waterbody Delineation Map

Client/Project

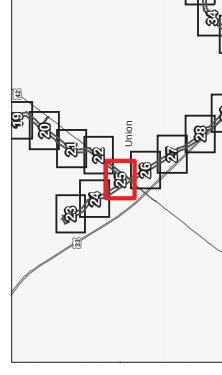
Columbus Gas of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternate Route Wetland and Waterbody Delineation

Project Location
Union and Delaware Counties
Ohio
13707065
Prepared by JG on 2020-02-27
Technical Review by MK on 2020-03-25
Independent Review by AT on 2020-04-13



Legend

- Survey Corridor
- Approximate Proposed Pipeline - Alternate Route
- Wetland Determination Sample Point
- Culvert
- Photo Location
- Field Delineated Waterway
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- Approximate Wetland



Notes

- Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
- Source: Aerial Photography from Columbus Gas, USGS, NAD83, Ohio
- Orthorectified 2013 Ortho



Figure No.

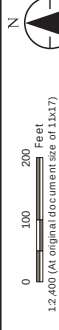
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Wetland and Waterbody Delineation Map

Client/Project

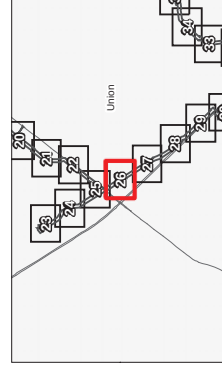
Columbia Gas of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternate Route Wetland and Waterbody Delineation

Project Location
Union and Delaware Counties
Ohio
132707065
Prepared by JG on 2020-02-27
Technical Review by MK on 2020-03-25
Independent Review by AT on 2020-04-13



Legend

- Survey Corridor
- Approximate Proposed Pipeline - Alternate Route
- Wetland Determination Sample Point
- Culvert
- Photo Location
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- Approximate Waterway
- Field Delineated Waterway Area
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- Approximate Open Water
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- Field Delineated Forested Wetland
- Approximate Wetland



Notes

1. Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
2. Data Source: Aerial Photography from 2013, Columbus Gas, USGS, NAD83, USHP
3. Orthorectified 2013 Ortho

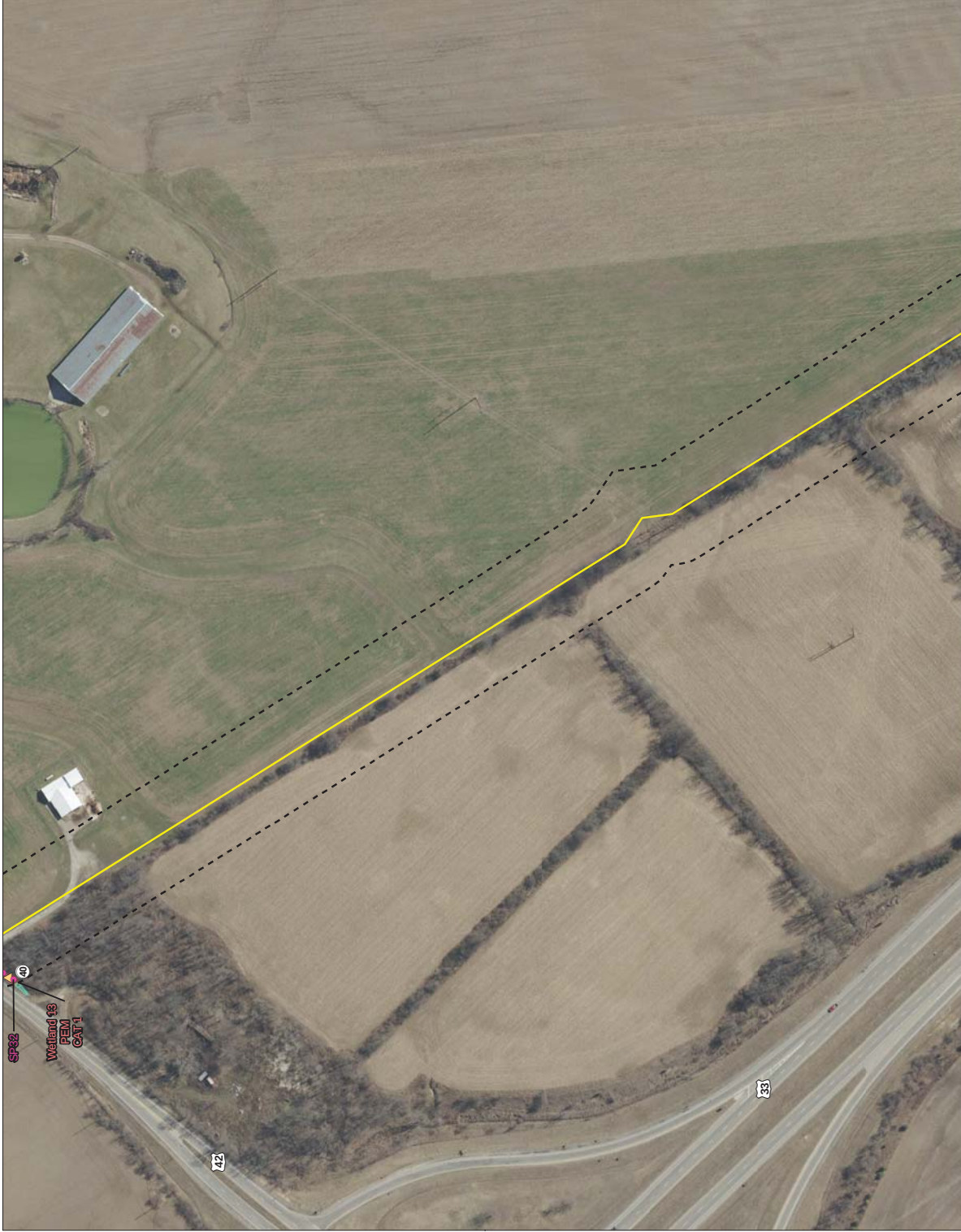


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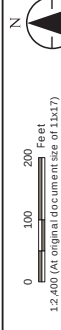
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Wetland and Waterbody Delineation Map

Client/Project

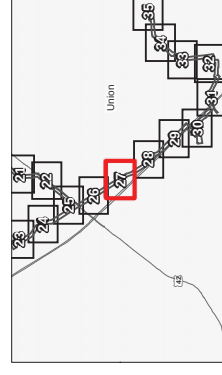
Columbia Gas of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternate Route Wetland and Waterbody Delineation

Project Location
Union and Delaware Counties
Ohio
132707065
Prepared by JG on 2020-03-27
Technical Review by JG on 2020-03-27
Independent Review by JG on 2020-04-13



Legend

- Survey Corridor
- Approximate Proposed Pipeline - Alternate Route
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Notes

1. Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
2. Data Source: Aerial Photography from Columbia Gas, 2005; NAD83, Ohio
3. Orthorectified 2013 Ortho

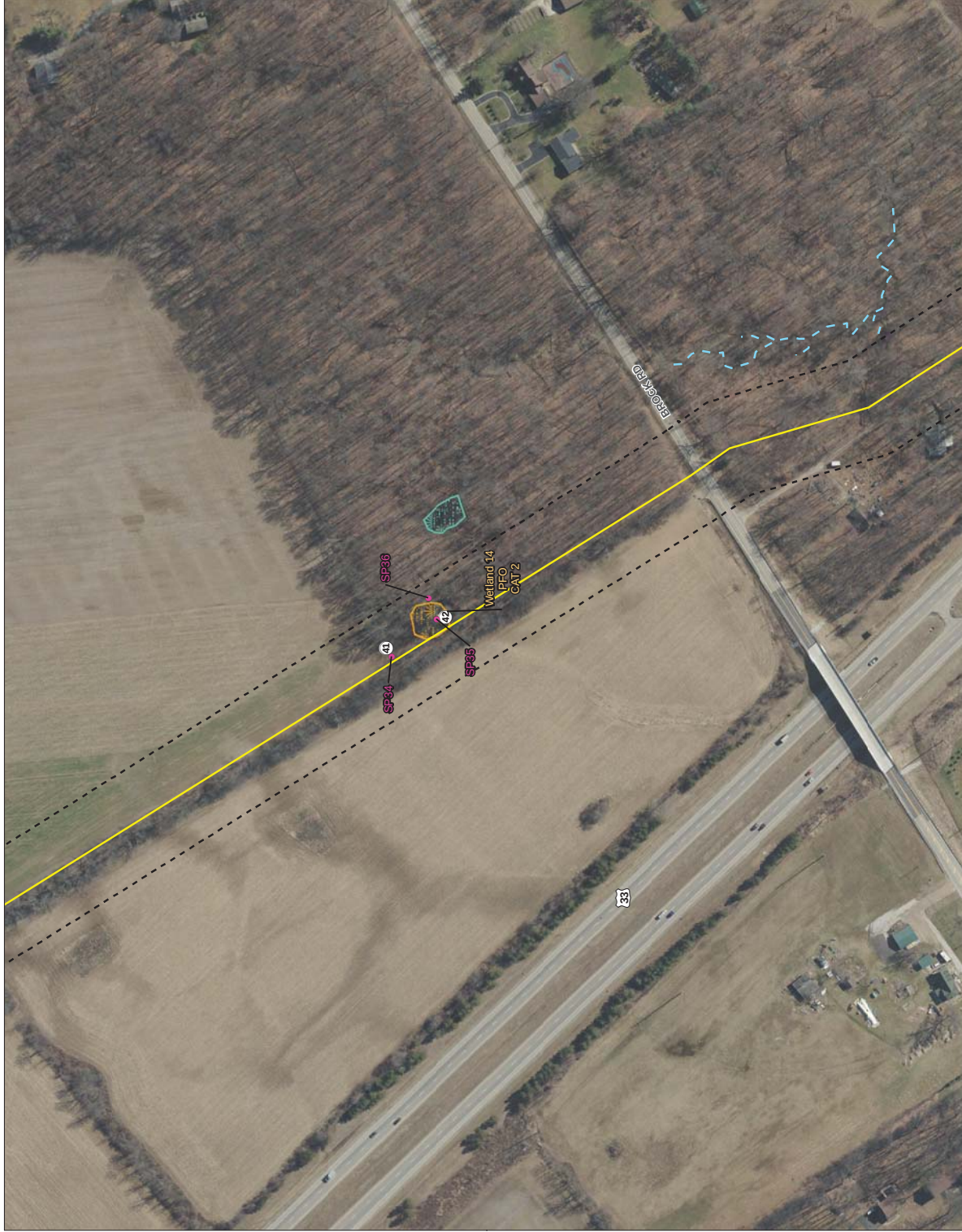


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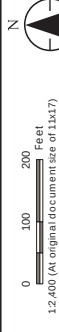
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Wetland and Waterbody Delineation Map

Client/Project

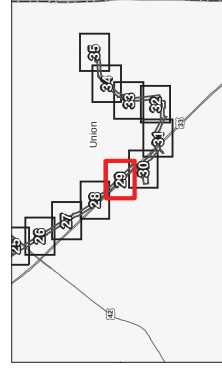
Columbia Gas of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternate Route Wetland and Waterbody Delineation

Project Location
Union and Delaware Counties
Ohio
132707065
Prepared by JG on 2020-03-27
Technical Review by MK on 2020-03-25
Independent Review by AT on 2020-04-13



Legend

- Survey Corridor
- Approximate Proposed Pipeline - Alternate Route
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Notes

- Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
- Source: USGS National Wetland Inventory, Columbus GMA, 1985; NAD83, OGR
- Orthophotography: 2013 OGR



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Figure No.

4

Title

Wetland and Waterbody Delineation Map

Client/Project

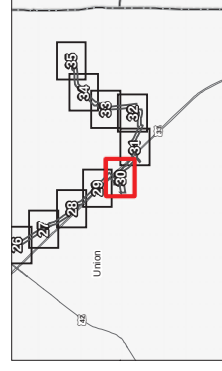
Columbiana Co. of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternate Route Wetland and Waterbody Delineation

Project Location
Columbiana Co. of Ohio
Prepared by JPD on 2020-03-27
Technical Review by JPD on 2020-03-27
Independent Review by JPD on 2020-04-13

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

Legend

- Survey Corridor
- Approximate Proposed Pipeline - Alternate Route
- Wetland Determination Sample Point
- Culvert
- Photo Location
- Field Delineated Waterway
- Approximate Waterway
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Notes

1. Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
2. Data Source: Aerial Photography from Columbus Gas, 1995; NAD 83, Ohio
3. Orthorectified 2013 Ortho

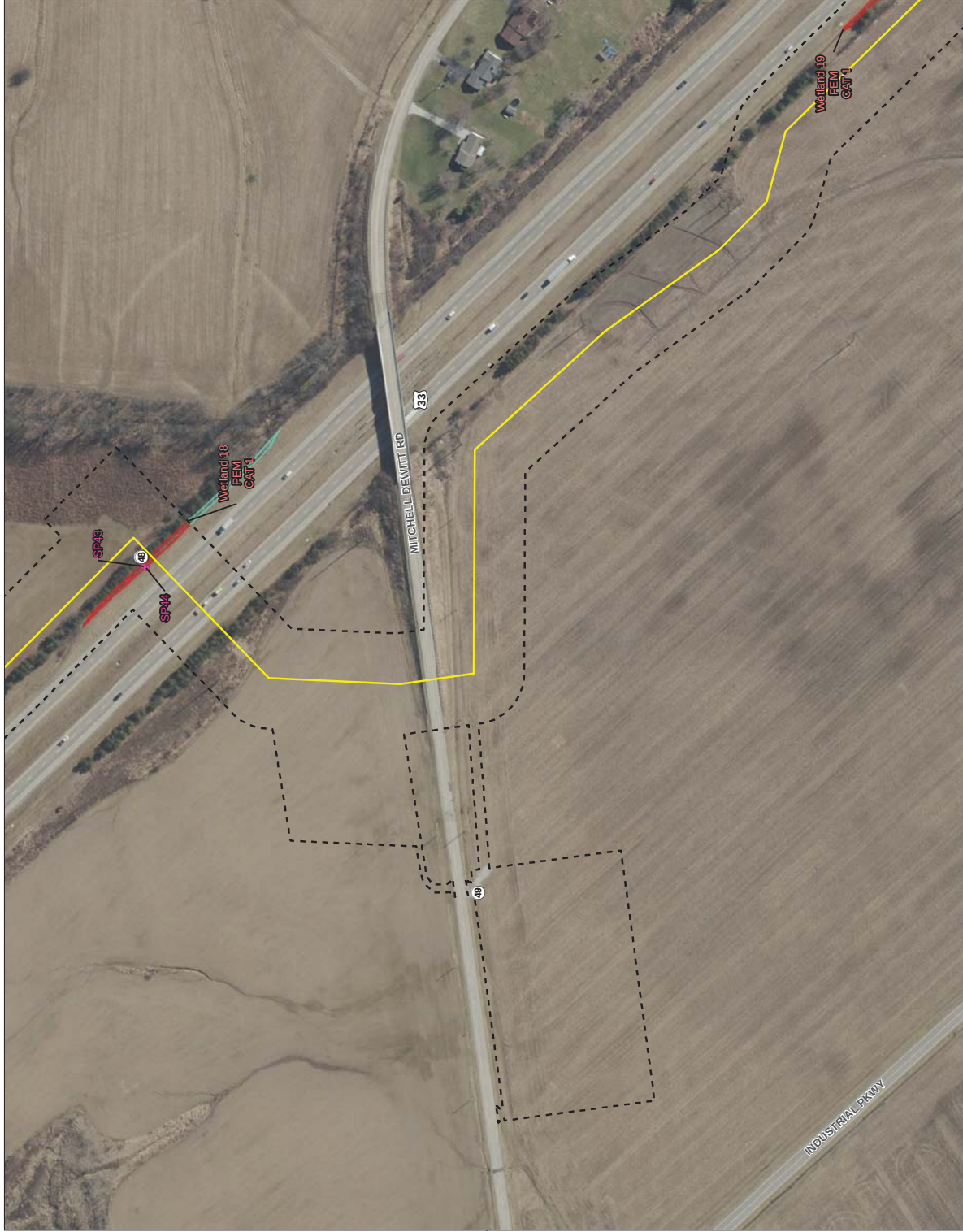


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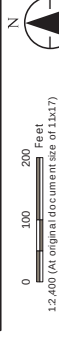
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Wetland and Waterbody Delineation Map

Client/Project

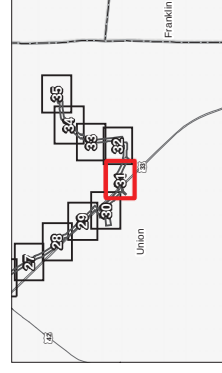
Columbia Gas of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternate Route Wetland and Waterbody Delineation

Project Location
Union and Delaware Counties
Ohio
13707065
Prepared by JG on 2020-02-27
Technical Review by ME on 2020-03-25
Independent Review by AT on 2020-04-13



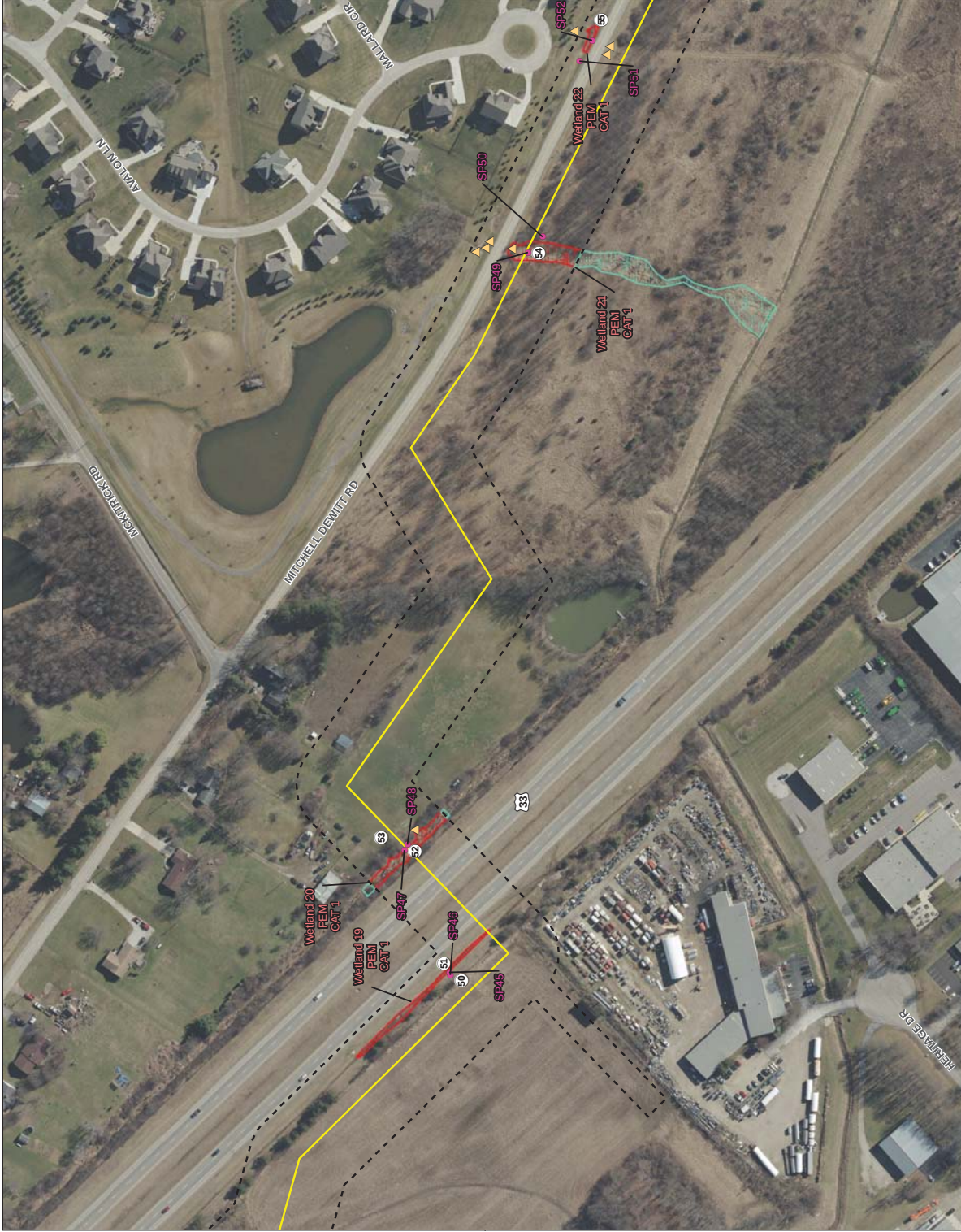
Legend

- Survey Corridor
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Notes

1. Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
2. Data Source: Aerial Imagery, Columbus Gas, USGS, NAD83, Ohio
3. Orthorectified, 2013 Ortho



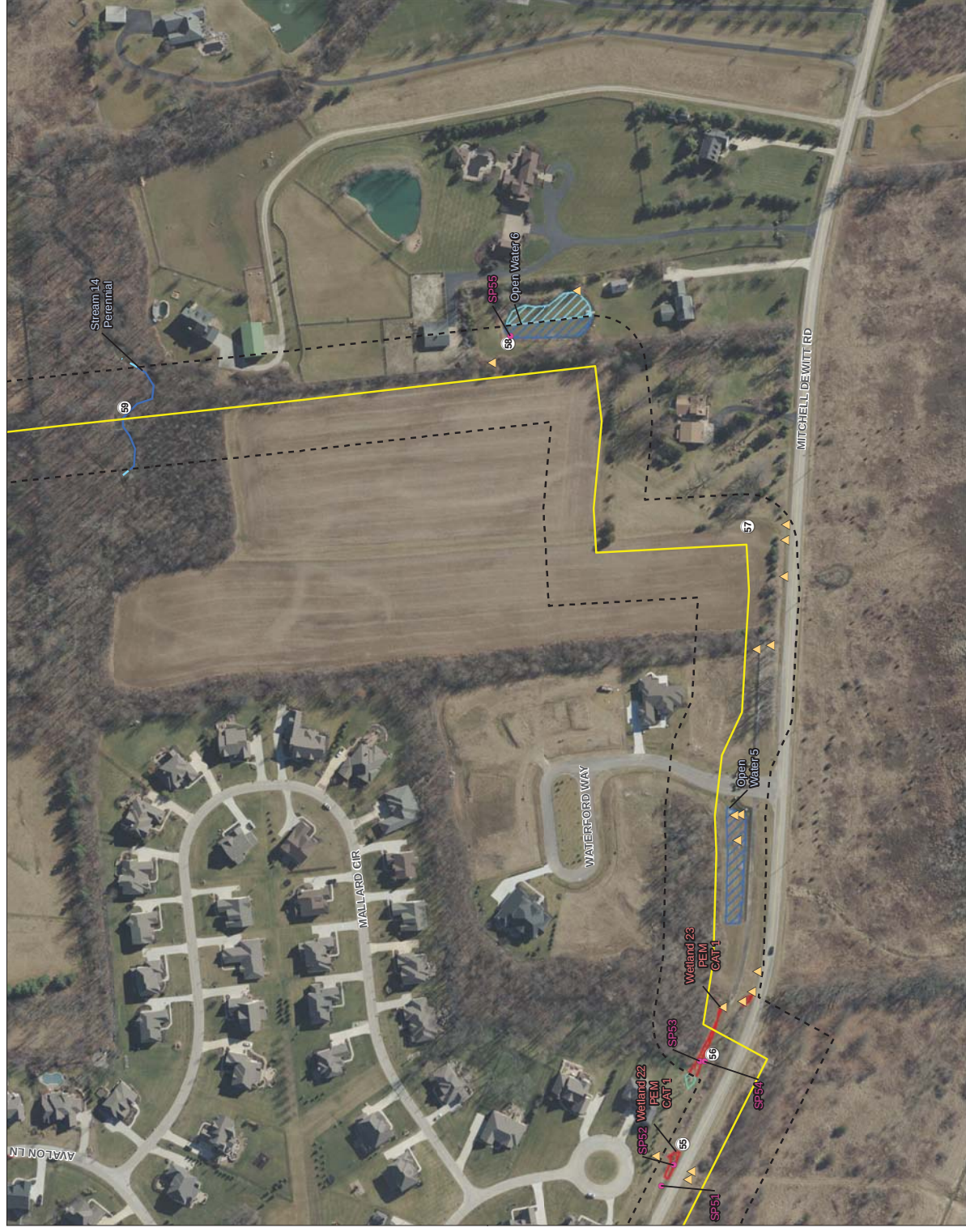


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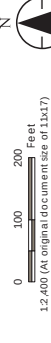
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Wetland and Waterbody Delineation Map

Client/Project

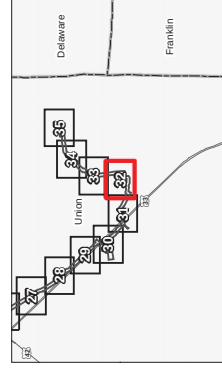
Columbia Gas of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternate Route Wetland and Waterbody Delineation

Project Location	Union and Delaware Counties Ohio	Prepared by JD on 2020-02-27 Technical Review by MK on 2020-03-25 Independent Review by NT on 2020-04-13	1937070555
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Legend

- Survey Corridor**
 Survey Corridor
 Approximate Proposed Pipeline - Alternate Route
 Wetland Determination Sample Point
 Culvert
 Photo Location
 Field Delineated Waterway
 Approximate Waterway
 Field Delineated Waterway Area
 Field Delineated Open Water
 Approximate Open Water
 Field Delineated Emergent Wetland
 Field Delineated Forested Wetland
 Approximate Wetland



Notes

- notes**
1. Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
 2. Data Sources Include :Stantec, Columbia Gas, USGS, NADS, OGRIP
 3. Orthophotography: 2018 OGRIP



Figure No.

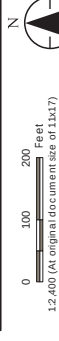
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Wetland and Waterbody Delineation Map

Client/Project

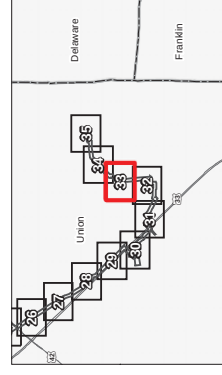
Columbia Gas of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternate Route Wetland and Waterbody Delineation

Project Location
Union and Delaware Counties
Ohio
130707065
Prepared by JG on 2020-03-27
Technical Review by JG on 2020-03-25
Independent Review by JG on 2020-04-13



Legend

- Survey Corridor
- Approximate Proposed Pipeline - Alternate Route
- Wetland Determination Sample Point
- Culvert
- Photo Location
- Field Delineated Waterway
- Approximate Waterway
- Field Delineated Waterway Area
- Field Delineated Open Water
- Approximate Open Water
- Field Delineated Emergent Wetland
- Field Delineated Forested Wetland
- Approximate Wetland



Notes

- Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet
- Original Data Source: Aerial Photography from Columbia Gas, USGS, NAD83, USGS
- Orthorectified by 2013 Ortho



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Figure No.

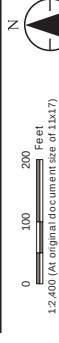
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Wetland and Waterbody Delineation Map

Client/Project

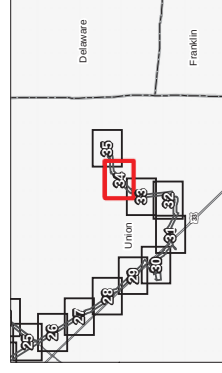
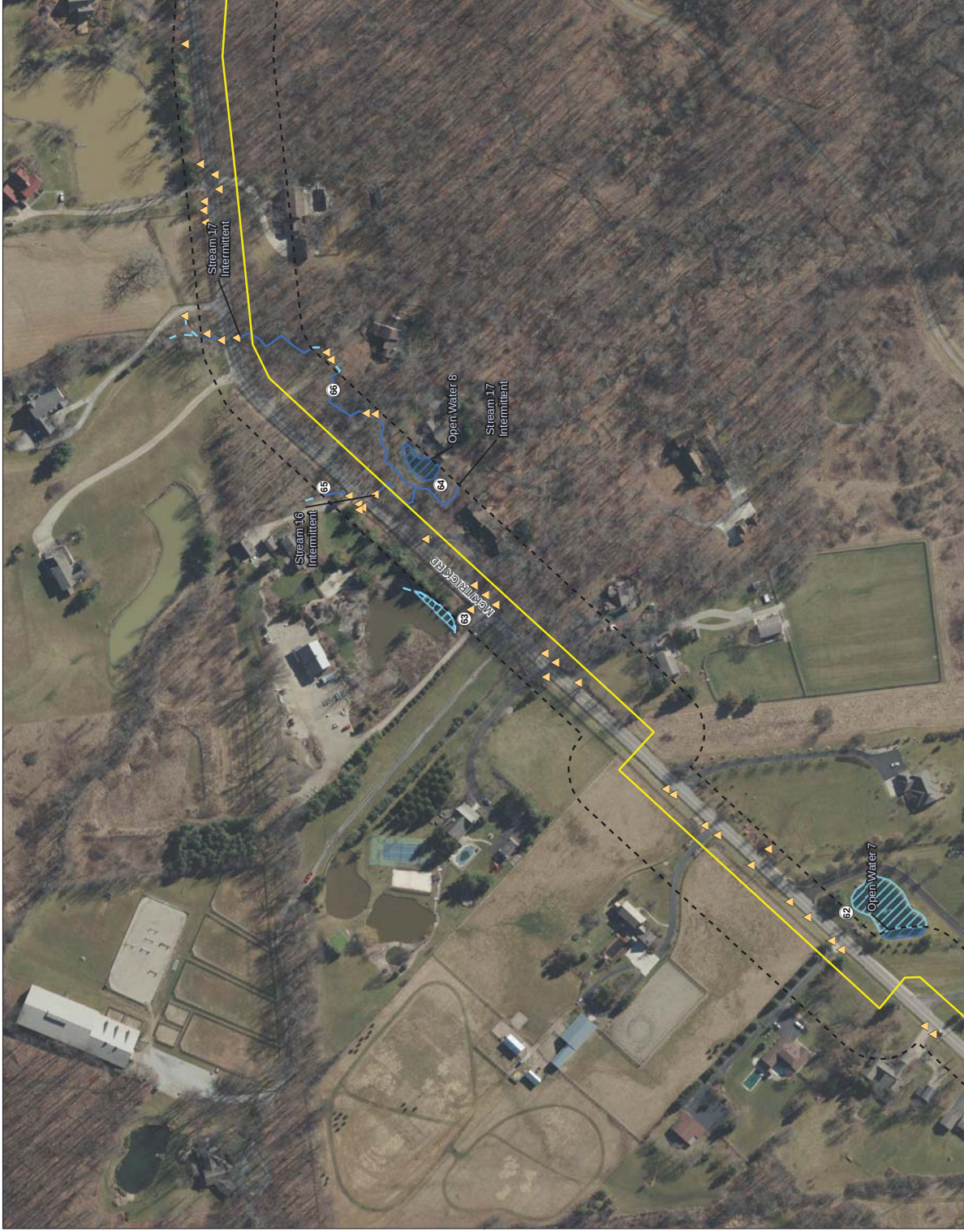
Columbia Gas of Ohio
Northern Columbus Loop Natural Gas Pipeline Project (Phase VII)
Alternate Route Wetland and Waterbody Delineation

Project Location
Union and Delaware Counties
Ohio
13707065
Prepared by JG on 2020-02-27
Technical Review by ME on 2020-03-25
Independent Review by AT on 2020-04-13



Legend

- Survey Corridor
- Approximate Proposed Pipeline - Alternate Route
- Wetland Determination Sample Point
- Culvert
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Notes

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2. Data Source: Aerial Photography, Columbus, Ga., 1995; NAD 83, Ohio
3. Orthorectified, 2013 Ortho



Figure No.

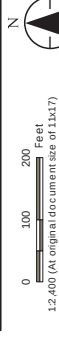
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Wetland and Waterbody Delineation Map

Client/Project

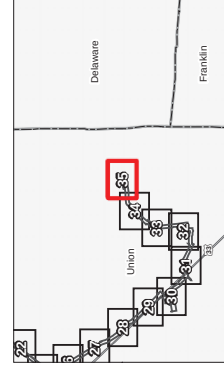
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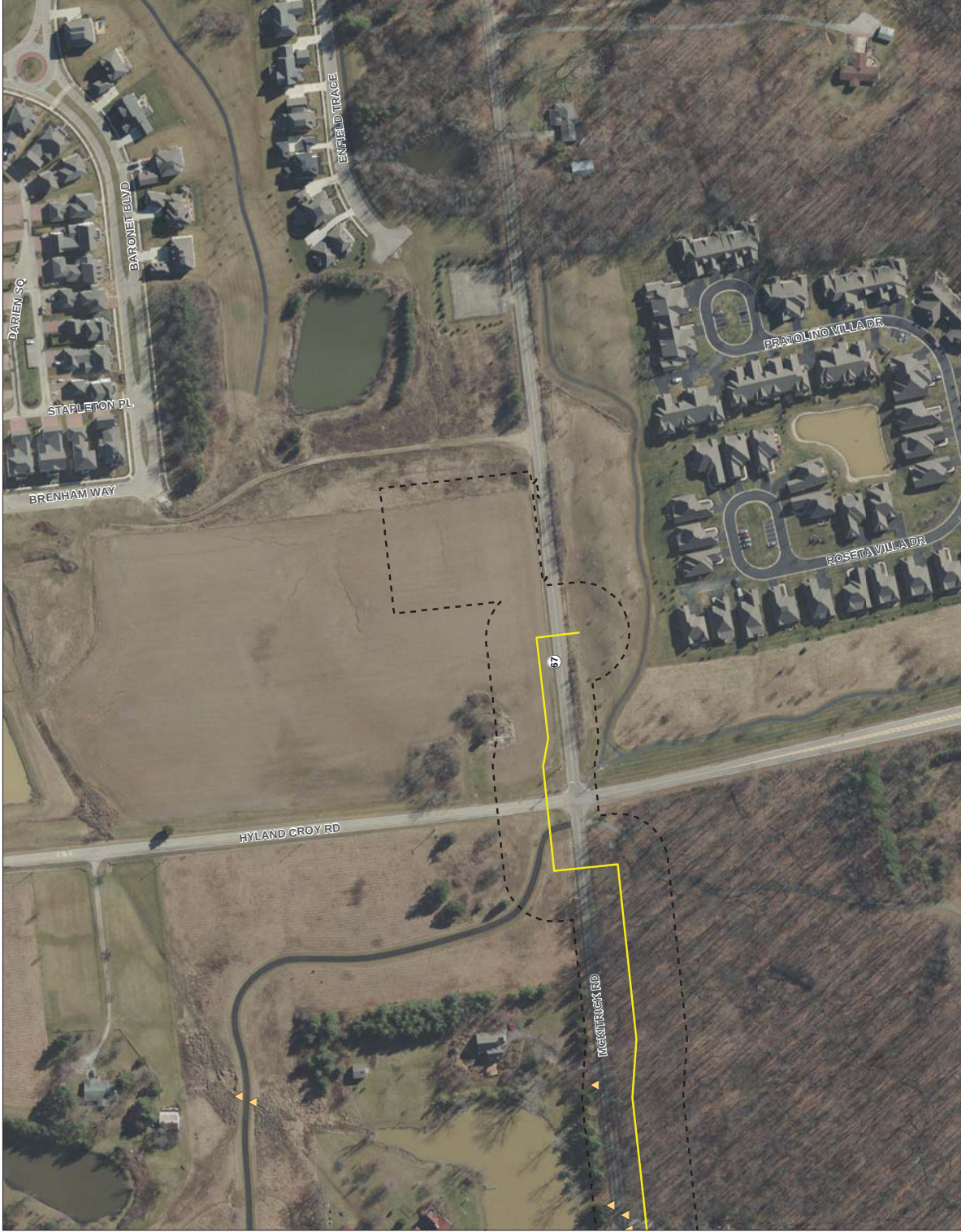
Legend

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2. Data Source: Aerial Photography, Columbus Gas, USGS, NAD83, Ohio
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This foregoing document was electronically filed with the Public Utilities

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in

Case No(s). 20-1236-GA-BTX

Summary: Application Appendix D.2, Part 3 of 7 electronically filed by Ms. Melissa L. Thompson on behalf of Columbia Gas of Ohio, Inc.