



155 East Broad Street
20th Floor
Columbus, Ohio, 43215

o: 614-222-1330
f: 614-222-1337

June 25, 2020

Ms. Tanowa M. Troupe
Ohio Power Siting Board
PUCO Docketing Division
180 East Broad Street, 11th Floor
Columbus, OH 43215-3716

Re: Case No. 16-253-GA-BTX
Reading Permit for Multiple Bores

Dear Ms. Troupe:

Duke Energy Ohio, Inc., is filing, herewith, a permit, issued by the City of Reading, for a bore in various locations.

Please contact me if you have any questions.

Sincerely,

Emily A. Olive, CP
Paralegal

CITY OF READING
BUILDING DEPARTMENT

EXCAVATION/FILL PERMIT

DATE ISSUED 3/24/2020 6/25/2020 PERMIT # _____
LOCATION various locations noted on Excavation Summary VOID AFTER _____
OWNER Duke Energy Ohio EXCAVATION X FILL _____ OTHER _____
CONTRACTOR TBD ADDRESS TBD
ENGINEER Burns & McDonnell ADDRESS 530 W. Spring St. Columbus, OH 43215
QUANTITY various quantities noted on Excavation Summary CUBIC YARDS FEE _____
BORROW/DISPOSAL SITE: TBD

This permit is issued in accordance with terms and conditions of the City of Reading Ordinance No. 82-57. The owner is required/ not required to engage a professional engineer or architect/ a geotechnical engineer, for field observation and testing and for submission of a summary report to this office upon completion of operations. This permit must be on the job and in the hands of the person actually engaged in doing the work.

The Excavating or Filling must be performed in compliance with all existing Ordinances and Regulations of the City of Reading.

In consideration of the issuance of this permit the applicant and owner agree to indemnify and hold the City of Reading harmless from any and all expense, damage, loss or liability for injury to persons or property, public or private, due either directly or indirectly to the permission and authority herein given.

Drainage of buildings and paved areas shall be in accordance with the OHIO BASIC BUILDING CODE.

The owner shall notify this office twelve (12) hours prior to start of work and when work is completed. All work shall be subjected to final inspection upon completion.

ATTACHMENTS:

- a. Soil boring logs, analysis, and report with recommendations
- b. Declaration of contract for Geotechnical Engineering Serv.
- c. Authorization from adjoining property owners.
- d. M.S.D. Bond
- e. Public works bond

Permit issued by 

The above terms and conditions are hereby accepted:

Requested work hours are from 7am-7pm for all work

Excavation Summary








Road/Street	Start Lat	Start Long	End Lat	End Long	Length of Cut (ft)	Approximate Excavation Dirt (cu. Yds)
West Street	39°14'02.25"N	84°26'14.48"W	39°13'59.10"N	84°26'17.23"W	400	197
West Street	39°13'55.77"N	84°26'18.29"W	39°13'45.77"N	84°26'24.34"W	1130	557
W. Pleasant St.	39°13'45.77"N	84°26'24.34"W	39°13'43.94"N	84°26'20.22"W	360	178
Market St.	39°13'43.94"N	84°26'20.22"W	39°13'40.77"N	84°26'22.08"W	345	170
Columbia St.	39°13'40.77"N	84°26'22.08"W	39°13'40.37"N	84°26'22.35"W	40	20
Market St.	39°13'40.37"N	84°26'22.35"W	39°13'37.02"N	84°26'23.87"W	360	178
Mechanic St.	39°13'37.02"N	84°26'23.87"W	39°13'35.45"N	84°26'19.71"W	340	168
Reading Rd. (US-42)						
NOTE: this open cut crossing permit was submitted to ODOT						
Mechanic St.	39°13'35.45"N	84°26'19.71"W	39°13'35.29"N	84°26'19.32"W	75	37
	39°13'35.29"N	84°26'19.32"W	39°13'34.31"N	84°26'16.65"W	225	111
Indiana & Ohio Railroad-Mechanic St.						
NOTE: this bored crossing was submitted to SORTA & Indiana & Ohio Railway						
Mechanic St.	39°13'34.31"N	84°26'16.65"W	39°13'34.03"N	84°26'16.09"W	N/A-bored	N/A-bored
	39°13'34.03"N	84°26'16.09"W	39°13'32.86"N	84°26'13.18"W	260	128
3rd St.	39°13'32.86"N	84°26'13.22"W	39°13'25.87"N	84°26'17.32"W	756	373
Vine St.	39°13'25.87"N	84°26'17.32"W	39°13'25.47"N	84°26'17.64"W	55	27
3rd St.	39°13'25.47"N	84°26'17.64"W	39°13'19.35"N	84°26'21.30"W	700	345
Benson St.	39°13'19.35"N	84°26'21.30"W	39°13'18.91"N	84°26'21.60"W	40	20
3rd St.	39°13'18.91"N	84°26'21.60"W	39°13'12.22"N	84°26'25.89"W	760	375
along Vorhees St.	39°13'12.22"N	84°26'25.89"W	39°13'13.11"N	84°26'28.40"W	215	106
East Galbraith Rd.						
NOTE: this is a bored crossing so no road excavation will take place						
	39°12'41.83N	84°26'47.05"W	39°12'40.41"N	84°26'43.62"W	N/A-bored	N/A-bored

Excavations for open cut efforts will be managed at minimum 4' depth and 4'-7' in width.

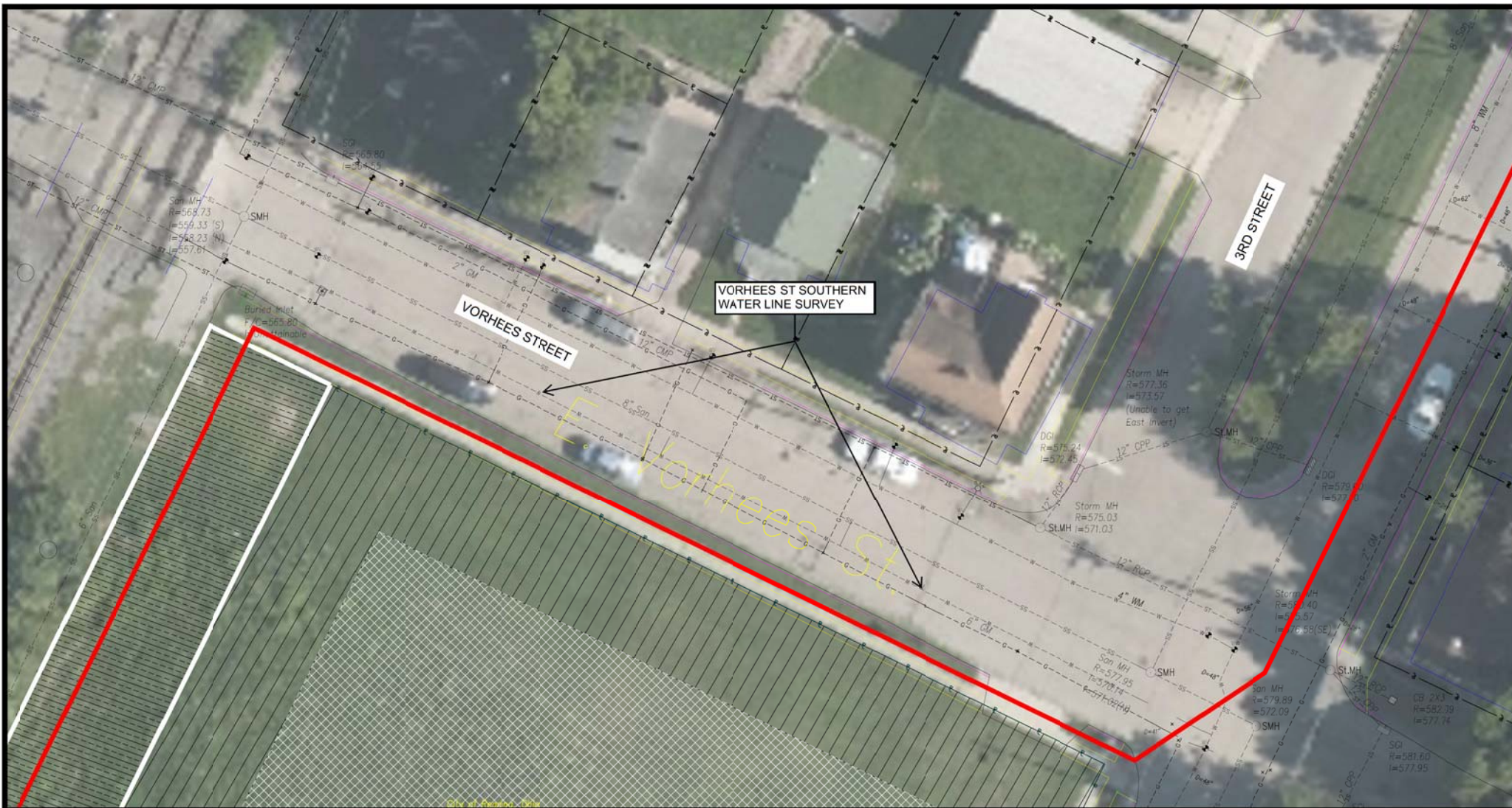
Excavation/Fill Permit Conditions

1. Streets shall be paved curb to curb upon completion of installation. This will be inspected by City of Reading Public Works to ensure proper road construction specifications.
2. Traffic control will maintained by contractor.
3. Construction Hours permitted will be 7AM-7PM
4. Contractor will make every attempt to accommodate residents/businesses during construction.
5. All holes will be properly plated and covered in a safe manner
6. This permit is subject to the City of Reading's appeal of the Central Corridor Pipeline.

RIGHT-OF-WAY		OWNERSHIP				RIGHT-OF-WAY	
		ACREAGE					
		EASEMENTS					
REF. DWG. NO.							
STATIONING						STATIONING	
PLAN						PLAN	
PIPE DATA (SLOPE STATIONING)		STA. 452+00 453+00 454+00 455+00 456+00 457+00 458+00 459+00 460+00		SLOPE 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%		PIPE DATA	
PROFILE		VERTICAL SCALE: 1" = 40'		HORIZONTAL SCALE: 1" = 100'		PROFILE	
MATERIAL							
CONST. METHOD							
CLASS / MAP							
FOR PERMITTING PURPOSES ONLY							
PIEDMONT'S NATURAL GAS FACILITY DRAWINGS ARE CONSIDERED CONFIDENTIAL (OM-1095) * DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE * TO INSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO. MANAGEMENT (RIM) POLICY 1001							
REF. DWG(S)							
SHEET(S) 1 OF X DWG SCALE AS NOTED							
DWG DATE 01/13/2020 SUPERSEDED							
DRAWING NUMBER PNG -C-350-SK01054 P1							
REVISION							
C:\HAMILTON COUNTY\C350							
NO. DATE		REVISIONS DESCRIPTION		BY CHK APPD		DESCRIPTION	
P1 03/09/2020		ISSUED FOR PERMITTING		AKT CNS AMP		AREA CODE	
						ACCOUNT NUMBER Q3680	
						PROJECT NUMBER 1880115	
						DRAWING BY AKT	
						STATION ID C350	
						CHECKER INITIALS CNS	
						DATE	
						INITIALS	
						APPROVALS	
						REGIONAL ENGINEER	
						MGR. TECH REC & STD	
						PRINCIPAL ENGINEER	
PROFESSIONAL ENGINEER'S STAMP						DUKE ENERGY Piedmont Natural Gas	
						COPYRIGHT 2019	
						C350 PIPELINE PIPELINE ALIGNMENT SHEETS HAMILTON COUNTY, OH HAMILTON COUNTY, OH	

LEGEND		
	PROPOSED C350 PIPELINE	 PROPOSED BORE PIT
	PROPOSED JACK & BORE	 EDGE OF CURB
		 EDGE OF ROAD
		 SIDEWALK
		 EDGE OF BUILDING

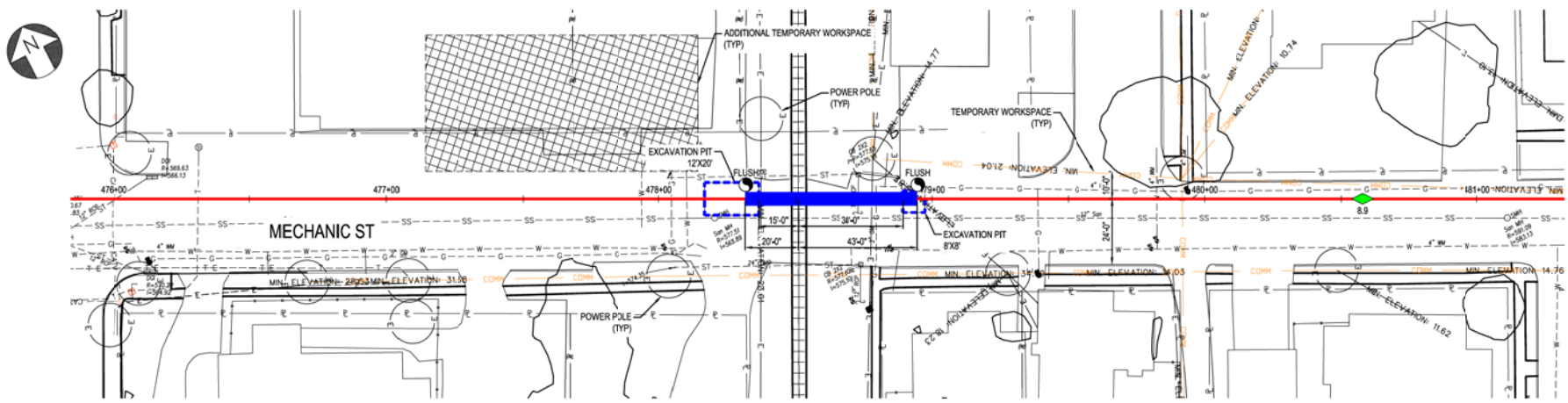
RIGHT-OF-WAY	OWNERSHIP		RIGHT-OF-WAY																																																																		
	ACREAGE																																																																				
EASEMENTS																																																																					
REF. DWG. NO.																																																																					
STATIONING			STATIONING																																																																		
PLAN			PLAN																																																																		
PIPE DATA (SLOPE STATIONING)			PIPE DATA																																																																		
PROFILE			PROFILE																																																																		
MATERIAL																																																																					
CONST. METHOD																																																																					
CLASS / MAP																																																																					
<p style="text-align: center;">PROPRIETARY & CONFIDENTIAL ALL RIGHTS RESERVED * DO NOT SCALE THIS DRAWING * USE DIMENSIONS ONLY</p> <p style="text-align: center;">PIEDMONT'S NATURAL GAS FACILITY DRAWINGS ARE CONSIDERED CONFIDENTIAL (DM-1096) * DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE * TO INSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO. MANAGEMENT (RIM) POLICY 1001</p>																																																																					
<table border="1" style="width: 100%;"> <thead> <tr> <th>NO.</th><th>DATE</th><th>REVISION(S) DESCRIPTION</th><th>BY</th><th>CHK</th><th>APPD</th><th>DESCRIPTION</th><th>APPROVALS</th></tr> </thead> <tbody> <tr> <td>P1</td><td>03/09/2020</td><td>ISSUED FOR PERMITTING</td><td>AKT</td><td>CNS</td><td>JMP</td><td>AREA CODE -</td><td>REGIONAL ENGINEER</td></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td>ACCOUNT NUMBER 03680</td><td>MANAGER REC & STD</td></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td>PROJECT NUMBER 1880115</td><td>PRINCIPAL ENGINEER</td></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td>DRAWING BY AKT</td><td></td></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td>STATION ID C350</td><td></td></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td>CHECKER INITIALS CNS</td><td></td></tr> </tbody> </table> <div style="float: right; width: 20%; text-align: center;"> <p>Copyright 2019</p> </div> <div style="clear: both;"></div> <div style="text-align: center; margin-top: 20px;"> <h2>C350 PIPELINE</h2> <h3>PIPELINE ALIGNMENT SHEETS</h3> <h3>HAMILTON COUNTY, OH</h3> <p>HAMILTON COUNTY, OH</p> </div> <table border="1" style="width: 100%; margin-top: 10px;"> <tr> <td>SHEET(S) 1 OF X</td> <td>DWG SCALE AS NOTED</td> </tr> <tr> <td>DWG DATE 01/13/2020</td> <td>SUPERSEDED</td> </tr> <tr> <td>DRAWING NUMBER</td> <td>REVISION</td> </tr> <tr> <td colspan="2">PNG -C-350-SK01059</td> </tr> <tr> <td colspan="2">CHAMLAIN COUNTY/C350</td> </tr> </table>				NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD	DESCRIPTION	APPROVALS	P1	03/09/2020	ISSUED FOR PERMITTING	AKT	CNS	JMP	AREA CODE -	REGIONAL ENGINEER							ACCOUNT NUMBER 03680	MANAGER REC & STD							PROJECT NUMBER 1880115	PRINCIPAL ENGINEER							DRAWING BY AKT								STATION ID C350								CHECKER INITIALS CNS		SHEET(S) 1 OF X	DWG SCALE AS NOTED	DWG DATE 01/13/2020	SUPERSEDED	DRAWING NUMBER	REVISION	PNG -C-350-SK01059		CHAMLAIN COUNTY/C350	
NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD	DESCRIPTION	APPROVALS																																																														
P1	03/09/2020	ISSUED FOR PERMITTING	AKT	CNS	JMP	AREA CODE -	REGIONAL ENGINEER																																																														
						ACCOUNT NUMBER 03680	MANAGER REC & STD																																																														
						PROJECT NUMBER 1880115	PRINCIPAL ENGINEER																																																														
						DRAWING BY AKT																																																															
						STATION ID C350																																																															
						CHECKER INITIALS CNS																																																															
SHEET(S) 1 OF X	DWG SCALE AS NOTED																																																																				
DWG DATE 01/13/2020	SUPERSEDED																																																																				
DRAWING NUMBER	REVISION																																																																				
PNG -C-350-SK01059																																																																					
CHAMLAIN COUNTY/C350																																																																					



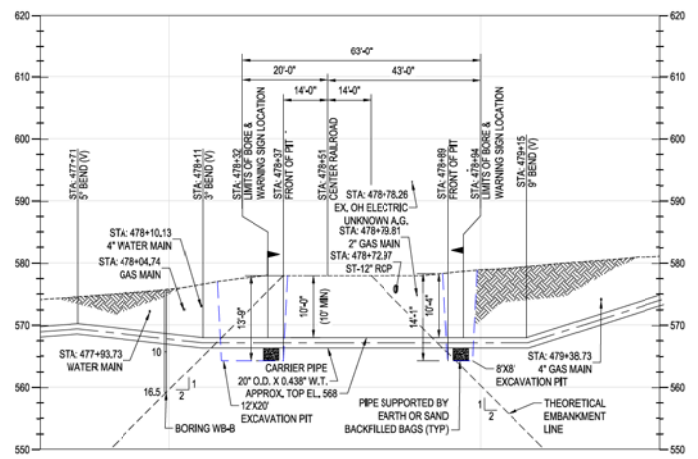
<p>SCALE</p> <p>0 10 20</p> <p>1IN = 10FT</p>	<p>LEGEND</p>		<p>PROPOSED BORE PIT</p>	<p>EDGE OF CURB</p>	<p>BURNS MCDONNELL</p> <p>DUKE ENERGY</p>	<p>C350 PIPELINE</p> <p>VORHEES STREET WATER LINE ADDITION</p> <p>ISSUED FOR PERMIT</p>
	<p>PROPOSED C350 PIPELINE</p> <p>PROPOSED JACK & BORE</p>	<p>EDGE OF ROAD</p> <p>SIDEWALK</p> <p>EDGE OF BUILDING</p>	<p>PROPOSED PERMANENT EASEMENT</p> <p>PROPOSED TEMPORARY WORKSPACE</p>	<p>EDGE OF CURB</p> <p>PROPOSED PERMANENT EASEMENT</p> <p>PROPOSED TEMPORARY WORKSPACE</p>		

PLAN

PROFILE



NOTES:
1. PER I.O.R.Y. GENERAL SPECIFICATIONS FOR SUB-GRADE AND ABOVE GRADE UTILITY CROSSINGS OF RAILROAD'S RIGHT-OF-WAY: BORE PITS WILL BE PROTECTED WITH ADEQUATE SHEETING, BULKHEADS, AND SIDEWALLS TO PROTECT THE RAILROAD'S ROADBED.



FOR PERMITTING PURPOSES ONLY

MATERIAL CLASS (MCP)

PROFESSIONAL ENGINEER STAMP

DUKE ENERGY DRAWINGS ARE CONSIDERED CONFIDENTIAL (DM-1095) * DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE * TO INSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO. MANAGEMENT (RIM) POLICY 1001

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPROV	DESCRIPTION	DATE	INITIALS	APPROVALS
P1	03/09/2020	ISSUED FOR PERMITTING	AKT	CNS	AMP	AREA CODE	XXXX/20XX	XXXX	REGIONAL ENGINEER
						ACCOUNT NUMBER	Q3680	XXXX	MGR. TECH REC & STD
						PROJECT NUMBER	1880115	XXXX	
						DRAWING BY	AKT	XXXX	
						STATION ID	C350	XXXX	PRINCIPAL ENGINEER
						CHECKER INITIALS	CNS	XXXX/20XX	

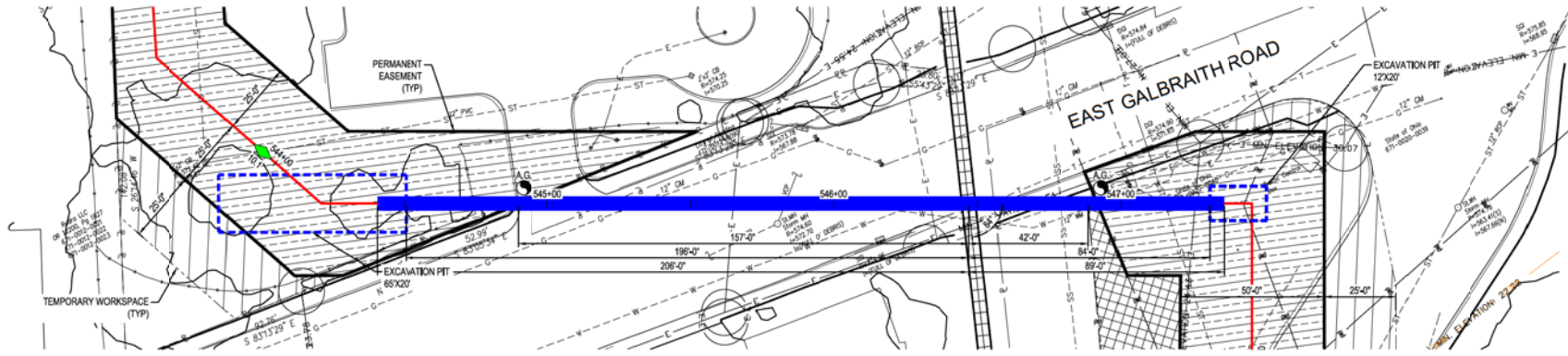


C350 PROJECT
BORE CROSSING DETAIL 12
HAMILTON COUNTY, OHIO
HAMILTON COUNTY, OH

REF. DWG(S)	SHEET(S) X OF X	DWG SCALE	AS NOTED
	DWG DATE: 09-05-2018	SUPERSEDED	
	DRAWING NUMBER	REVISION	
	PNG C-350-SK01089	P1	
	HAMILTON COUNTY/C350		



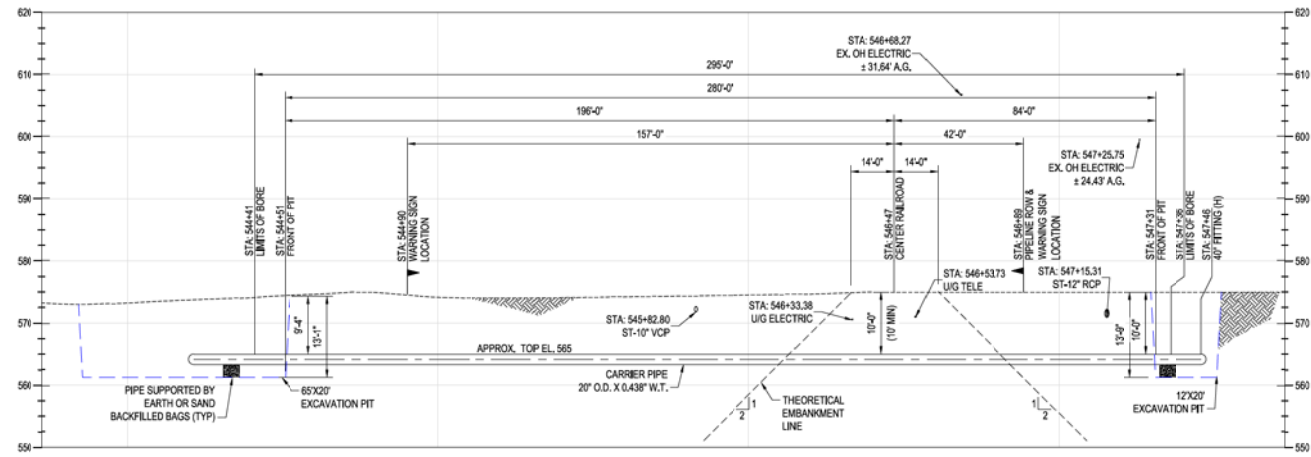
PLAN



NOTES:
1. PER I.O.R.Y. GENERAL SPECIFICATIONS FOR SUB-GRADE AND ABOVE GRADE UTILITY CROSSINGS OF RAILROAD'S RIGHT-OF-WAY: BORE PITS WILL BE PROTECTED WITH ADEQUATE SHEETING, BULKHEADS, AND SIDEWALLS TO PROTECT THE RAILROAD'S ROADBED.



PROFILE



FOR PERMITTING PURPOSES ONLY

DUKE ENERGY DRAWINGS ARE CONSIDERED CONFIDENTIAL (DM-1095) * DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE * TO INSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO. MANAGEMENT (RIM) POLICY 1001									
NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APP'D	DESCRIPTION	DATE	INITIALS	APPROVALS
P1	03/09/2020	ISSUED FOR PERMITTING	AKT	CNS	AMP	AREA CODE	XXXX/20XX	XXX	REGIONAL ENGINEER
						ACCOUNT NUMBER	Q3680		
						PROJECT NUMBER	1880115		
						DRAWING BY	AKT		
						STATION ID	C350		
						CHECKER INITIALS	CNS		
							XXXX/20XX	XXX	PRINCIPAL ENGINEER



C350 PROJECT
BORE CROSSING DETAIL 14
HAMILTON COUNTY, OHIO
HAMILTON COUNTY, OH

REF. DWG(S)	SHEET(S) X OF X	DWG SCALE	AS NOTED
DWG DATE	09-05-2018	SUPERSEDED	
DRAWING NUMBER	PNG C-350-SK01091	REVISION	P1
HAMILTON COUNTY/C350			


PROFESSIONAL ENGINEER STAMP



NOTE:
1. PROPOSED PIPELINE ACCESS ROUTES SHOULD REMAIN OPEN FOR LOCAL TRAFFIC AS MUCH AS PRACTICABLE. CONTRACTOR SHALL NOT UNNECESSARILY STORE MATERIALS OR EQUIPMENT ON ACCESS ROUTES OR OTHERWISE BLOCK TYPICAL TRAFFIC FLOW.

FOR PERMITTING PURPOSES ONLY

DUKE ENERGY DRAWINGS ARE CONSIDERED CONFIDENTIAL (DM-1095) * DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE * TO INSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO. MANAGEMENT (RIM) POLICY 1001									
PROPRIETARY & CONFIDENTIAL ALL RIGHTS RESERVED * DO NOT SCALE THIS DRAWING * USE DIMENSIONS ONLY									
NO.	DATE	REVISION/DESCRIPTION	BY	CHK	APPD	DESCRIPTION	DATE	REVISED	APPROVALS
P1	03/09/2020	ISSUED FOR PERMITTING	AKT	CNS	AMP	AREA CODE	XX/XX/20XX	XXX	REGIONAL ENGINEER
						ACCOUNT NUMBER	Q3680	XXX	MGR. TECH. REC. & STD.
						PROJECT NUMBER	1880115	XXX	PRINCIPAL ENGINEER
						DRAWING BY	AKT	XXX	
						STATION ID	C350	XXX	
						CHECKER INITIALS	CNS	XXX/XX/20XX	



C350 PROJECT

ACCESS ROUTE AND LAYDOWN PLAN - 02

HAMILTON COUNTY, OHIO

HAMILTON COUNTY, OHIO

SHEET(S) 1 OF X	DWG SCALE 1"=50'
DWG DATE 02/10/2020	SUPERSEDED
DRAWING NUMBER PNG -C-350-SK01002	REVISION P1
HAMILTON COUNTY/C350	

PROFESSIONAL ENGINEER STAMP



NOTE:
1. PROPOSED PIPELINE ACCESS ROUTES SHOULD REMAIN OPEN FOR LOCAL TRAFFIC AS MUCH AS PRACTICABLE. CONTRACTOR SHALL NOT UNNECESSARILY STORE MATERIALS OR EQUIPMENT ON ACCESS ROUTES OR OTHERWISE BLOCK TYPICAL TRAFFIC FLOW.

**FOR PERMITTING
PURPOSES ONLY**

DUKE ENERGY DRAWINGS ARE CONSIDERED CONFIDENTIAL (DM-1095) * DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE * TO INSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO. MANAGEMENT (RIM) POLICY 1001									
NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APP'D	DESCRIPTION	DATE	INITIALS	APPROVALS
P1	03/09/2020	ISSUED FOR PERMITTING	AKT	CNS	AMP	AREA CODE	XXXX/20XX	XXX	REGIONAL ENGINEER
						ACCOUNT NUMBER	Q3680	XXX	MGR. TECH REC & STD
						PROJECT NUMBER	1880115	XXX	PRINCIPAL ENGINEER
						DRAWING BY	AKT	XXX	
						STATION ID	C350	XXX	
						CHECKER INITIALS	CNS	XXX	

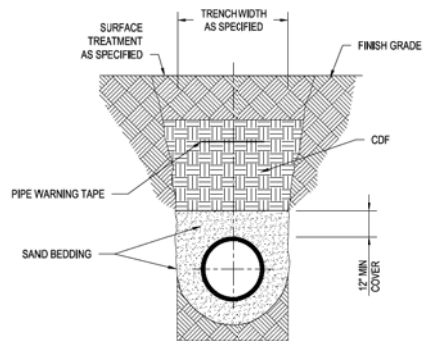


C350 PROJECT
ACCESS ROUTE AND LAYDOWN PLAN - 03
HAMILTON COUNTY, OHIO
HAMILTON COUNTY, OHIO

SHEET(S)	1 OF X	DWG SCALE	1"=80'
DWG DATE	02/10/2020	SUPERSEDED	---
DRAWING NUMBER			REVISION
PNG -C-350-SK01003			P1
CHAMILTON COUNTY/C350			

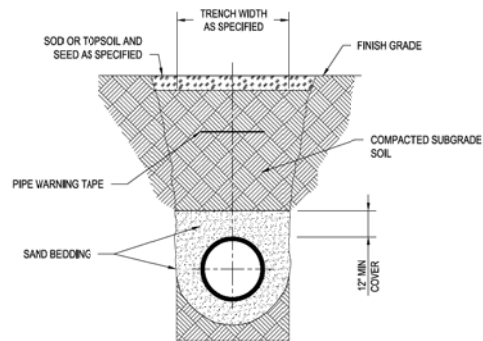
PROFESSIONAL ENGINEER STAMP

RESTORATION AFTER
INSTALLATION WILL BE
EXECUTED PER GUIDELINES
FROM CITY JURISDICTION.



NOTES:

- PIPE BEDDING SHALL BE CLEAN, GRADED SAND COMPACTED TO PROVIDE EVEN SUPPORT FOR PIPE. APPROVED MATERIALS INCLUDE M10 "STONE DUST" OR SIMILAR. BEDDING MATERIAL SHALL FULLY ENCASE PIPE. CONTROLLED DENSITY FILL (CDF) SHALL BE INSTALLED IN SUCH A MANNER THAT MINIMIZES VOIDS AND DOES NOT DISTURB BEDDING OR PIPE.
- PIPE WARNING TAPE SHALL BE INSTALLED APPROXIMATELY 24"-36" ABOVE PIPELINE, OR AS OTHERWISE RECOMMENDED BY MANUFACTURER. MATERIALS SHALL BE SIGNALTAPE® OR APPROVED EQUIVALENT AND SHALL BE NON-TRACEABLE VARIETY.

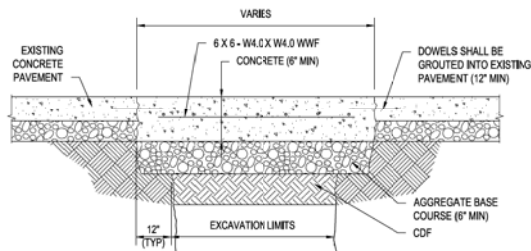


NOTES:

- PIPE BEDDING SHALL BE CLEAN, GRADED SAND COMPACTED TO PROVIDE EVEN SUPPORT FOR PIPE. APPROVED MATERIALS INCLUDE M10 "STONE DUST" OR SIMILAR. BEDDING MATERIAL SHALL FULLY ENCASE PIPE.
- PIPE WARNING TAPE SHALL BE INSTALLED APPROXIMATELY 24"-36" ABOVE PIPELINE, OR AS OTHERWISE RECOMMENDED BY MANUFACTURER. MATERIALS SHALL BE SIGNALTAPE® OR APPROVED EQUIVALENT AND SHALL BE NON-TRACEABLE VARIETY.

UTILITY TRENCH

SCALE: N.T.S.

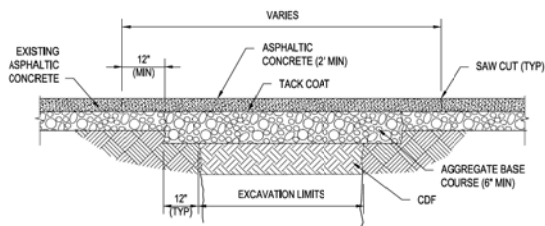


NOTES:

- THICKNESS OF ALL REPLACEMENT COURSES SHALL BE EQUAL TO EXISTING BUT SHALL NOT BE LESS THAN INDICATED.
- CONCRETE PAVEMENT SHALL BE SAWCUT AND REMOVED TO NEAREST JOINT TO PREVENT PARTIAL PANEL REMOVAL. WIDTH OF PAVEMENT REMOVAL SHALL BE MINIMUM 2' EITHER SIDE OF UTILITY CENTERLINE AND UP TO NEXT PANEL LIMIT.
- SAWCUTS THAT EXTEND OUTSIDE THE AREA OF REMOVAL AND REPLACEMENT SHALL BE FILLED WITH AN EPOXY-BASED GROUT APPROVED BY THE ENGINEER.
- FULL DEPTH SAWCUTS SHALL BE MADE AROUND THE PERIMETER OF THE AREA TO BE PATCHED. THE CUT SHALL BE MADE AT A RIGHT ANGLE TO THE PAVEMENT EDGE AND TO THE CENTERLINE OF THE PAVEMENT.
- LONGITUDINAL FULL DEPTH SAW CUTS SHALL BE AT EXISTING LONGITUDINAL JOINTS.
- ADDITIONAL SAWCUTS MAY BE REQUIRED WITH THE AREA OF THE PATCH TO FACILITATE REMOVAL OF THE CONCRETE OR TO ALLEVIATE BINDING OF THE FULL DEPTH SAW CUT AT THE PATCH EDGE.

CONCRETE PAVEMENT REMOVAL AND
REPLACEMENT FOR UTILITY TRENCH

SCALE: N.T.S.

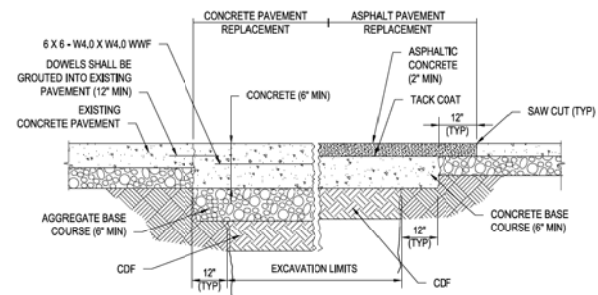


NOTES:

- THICKNESS OF ALL REPLACEMENT COURSES SHALL BE EQUAL TO EXISTING BUT SHALL NOT BE LESS THAN INDICATED.
- BASE COURSE SHALL BE PORTLAND CEMENT TO MATCH EXISTING CONCRETE BASE, AND SHALL BE ASPHALTIC CONCRETE BASE TO REPLACE ALL OTHER BASE MATERIALS.
- SAWCUTS THAT EXTEND OUTSIDE THE AREA OF REMOVAL AND REPLACEMENT SHALL BE FILLED WITH AN EPOXY-BASED GROUT APPROVED BY THE ENGINEER.

ASPHALT PAVEMENT REMOVAL AND
REPLACEMENT FOR UTILITY TRENCH

SCALE: N.T.S.



NOTES:

- WIDTH OF PAVEMENT REMOVAL SHALL BE MINIMUM 2' EITHER SIDE OF UTILITY CENTERLINE AND TO THE NEXT PAVEMENT PANEL OR JOINT LIMIT WHENEVER FEASIBLE.
- THICKNESS OF ALL REPLACEMENT COURSES SHALL BE EQUAL TO EXISTING BUT SHALL NOT BE LESS THAN INDICATED.
- BASE COURSE SHALL BE PORTLAND CEMENT CONCRETE TO REPLACE EXISTING CONCRETE BASE, AND SHALL BE ASPHALTIC CONCRETE BASE TO REPLACE ALL OTHER BASE MATERIALS.
- FULL DEPTH SAWCUTS SHALL BE MADE AROUND THE PERIMETER OF THE AREA TO BE PATCHED AND SHALL BE MADE AT EXISTING JOINTS AND PERPENDICULAR TO THE PAVEMENT EDGE AND CENTERLINE WHENEVER FEASIBLE. SAWCUTS THAT EXTEND OUTSIDE THE AREA OF REMOVAL AND REPLACEMENT SHALL BE FILLED WITH AN EPOXY-BASED GROUT APPROVED BY THE ENGINEER.
- EXISTING CONCRETE PAVEMENT SHALL BE SAWCUT AND REMOVED TO NEAREST JOINT TO PREVENT PARTIAL PANEL REMOVAL.
- CONCRETE REPLACEMENT PANELS SHALL BE SIZED TO MATCH THE EXISTING CONCRETE PANEL SIZES WHENEVER FEASIBLE AND SHALL HAVE A MAXIMUM LENGTH/WIDTH RATIO OF 1.25.
- SAWCUTS THAT EXTEND OUTSIDE THE AREA OF REMOVAL AND REPLACEMENT SHALL BE FILLED WITH AN EPOXY-BASED GROUT APPROVED BY THE ENGINEER.

PAVEMENT REMOVAL AND
REPLACEMENT FOR UTILITY TRENCH

SCALE: N.T.S.

FOR PERMITTING
PURPOSES ONLY

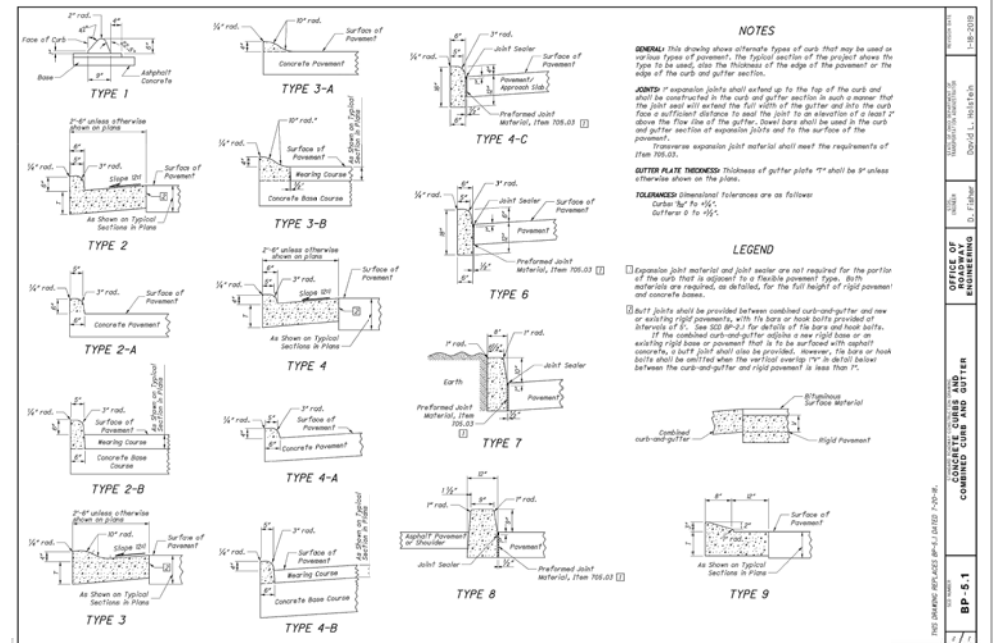
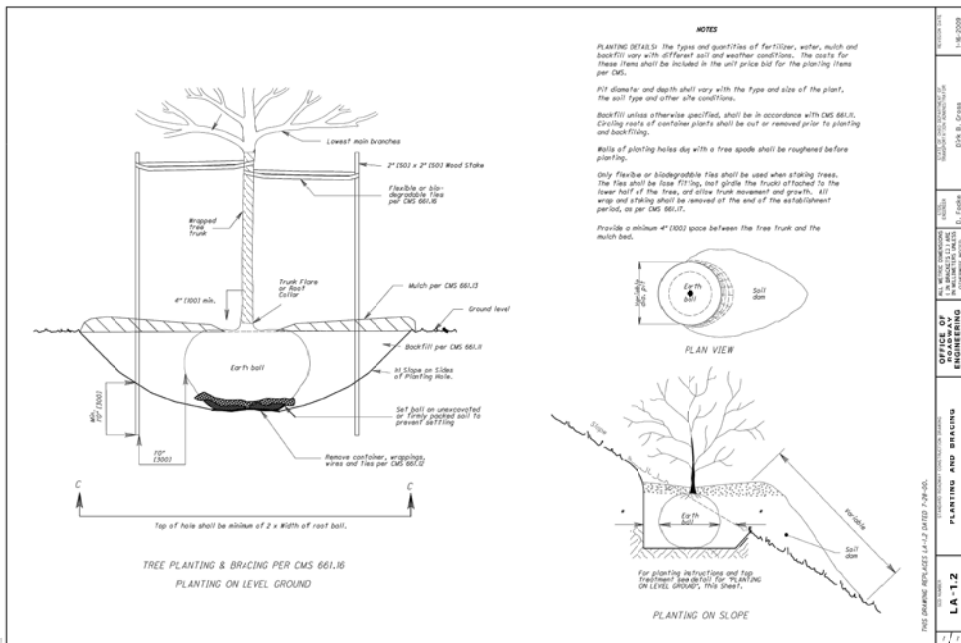
DUKE ENERGY DRAWINGS ARE CONSIDERED CONFIDENTIAL (DM-1095) * DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE * TO INSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO. MANAGEMENT (RIM) POLICY 1001

NO.	DATE	REVISIONS / DESCRIPTION	BY	CHK	APPD	DESCRIPTION	DATE	INITIALS	APPROVALS
P1	03/09/2020	ISSUED FOR PERMITTING	AKT	CNS	AMP	AREA CODE	Q3680	XXX	REGIONAL ENGINEER
						ACCOUNT NUMBER	1680115	XXX	MGR TECH REC & STD
						PROJECT NUMBER	1680115	XXX	PRINCIPAL ENGINEER
						DRAWING BY	AKT	XXX	
						STATION ID	C350	XXX	
						CHECKER INITIALS	CNS	XXX	



C350 PROJECT
RESTORATION DETAILS 1
HAMILTON COUNTY, OHIO
HAMILTON COUNTY, OHIO

SHEET(S)	1 OF X	DWG SCALE	NONE
DWG DATE	02/04/2020	SUPERSEDED	---
DRAWING NUMBER	PNG C-350-SK01110	REVISION	P1
CHAMLTON COUNTY/C350			



FOR PERMITTING PURPOSES ONLY

DUKE ENERGY DRAWINGS ARE CONSIDERED CONFIDENTIAL (DM-1095) * DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE * TO INSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO. MANAGEMENT (RIM) POLICY 1001

NO.	DATE	REVISIONS DESCRIPTION	BY	CHK	APPD	DESCRIPTION	DATE	APPROVALS
P1	03/09/2020	ISSUED FOR PERMITTING	AKT	CNS	AMP	AREA CODE	XXXX/20XX	XXX
						ACCOUNT NUMBER	Q3680	XXX
						PROJECT NUMBER	1880115	XXX
						DRAWING BY	AKT	XXX
						STATION ID	C350	XXX
						CHECKER INITIALS	CNS	XXX



C350 PROJECT
RESTORATION DETAILS 2
HAMILTON COUNTY, OHIO
HAMILTON COUNTY, OHIO

SHEET(S)	1 OF X	DWG SCALE	NONE
DWG DATE	02/04/2020	SUPERSEDED	---
DRAWING NUMBER	PNG C-350-SK01111	REVISION	P1
CHAMLTON COUNTY C350			

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

6/25/2020 2:15:08 PM

in

Case No(s). 16-0253-GA-BTX

Summary: Correspondence Reading Permit for Multiple Bores electronically filed by Carys Cochern on behalf of Duke Energy