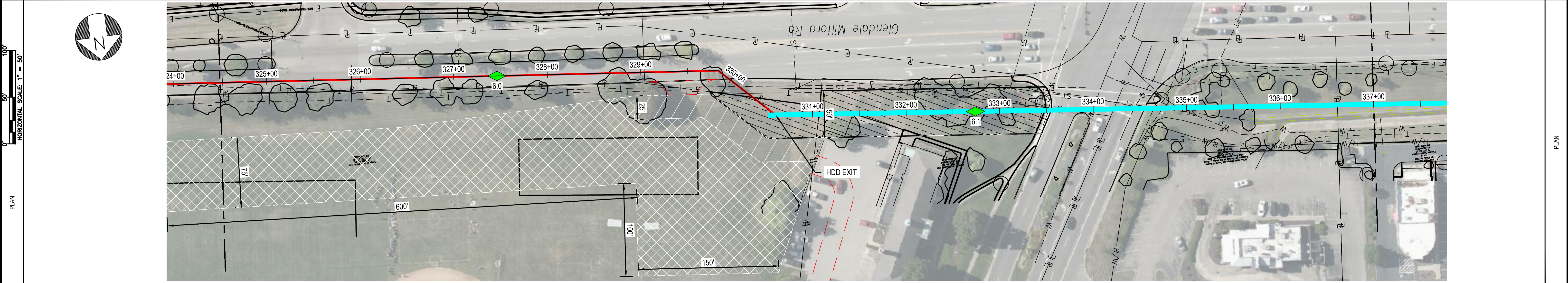


RIGHT-OF-WAY	OWNERSHIP		RIGHT-OF-WAY
	ACREAGE		
	EASEMENTS		
REF. DWG. NO.		PNG-C-350-SK01099	

STATIONING	<div>GLENDALE MILFORD PERMIT</div>	STATIONING
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PLAN

PIPE DATA (SLOPE STATIONING)	STA	WELD #	(COW)	JOINT LENGTH	JOINT #	HEAD #
	STA	WELD #	(COW)			
FOR PERMITTING PURPOSES ONLY						

PROFILE	<div><div>200'</div><div>100'</div><div>0'</div><div>80'</div><div>40'</div><div>0'</div><div>HORIZONTAL SCALE: 1" = 100'</div><div>VERTICAL SCALE: 1" = 40'</div></div>	ENGINEERING PLANS
---------	--	-------------------

MATERIAL	
CONST. METHOD	
CLASS / MAOP	

PROPRIETARY & CONFIDENTIAL ALL RIGHTS RESERVED * DO NOT SCALE THIS DRAWING * USE DIMENSIONS ONLY												REF. DWG(S)													
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																									
NO.	DATE	REVISION(S) DESCRIPTION				BY	CHK	APPD	DESCRIPTION		APPROVALS			<div><div>DUKE ENERGY</div><div>Piedmont Natural Gas</div></div> <div>COPYRIGHT 2019</div>		SHEET(S) 1 OF X		DWG SCALE		AS NOTED					
P1	03/09/2020	ISSUED FOR PERMITTING				AKT	CNS	AMP	AREA CODE	-	DATE	-	INITIALS			-	REGIONAL ENGINEER	DWG DATE 01/13/2020		SUPERSEDED		-			
									ACCOUNT NUMBER	Q3680	DATE	-	INITIALS			-	MGR TECH REC & STD	DRAWING NUMBER		REVISION					
									PROJECT NUMBER	1880115	DATE	-	INITIALS			-		PNG -C-350-SK01041		P1					
									DRAWING BY	AKT	DATE	-	INITIALS			-	PRINCIPAL ENGINEER	C/HAMILTON COUNTY/C350							
									STATION ID	C350	DATE	-	INITIALS	-											
									CHECKER INITIALS	CNS															
PROFESSIONAL ENGINEER/ARCHITECTS																									

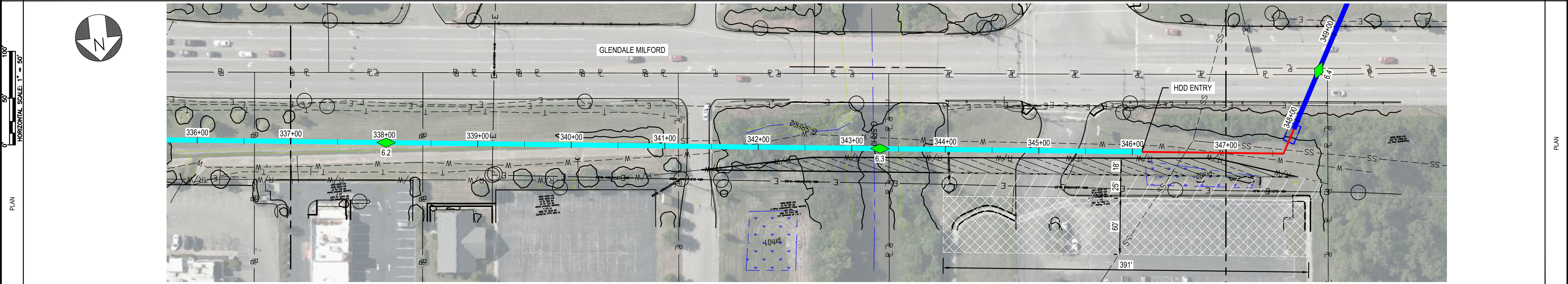
PROFESSIONAL ENGINEERS



STATIONING

GLENDALE MILFORD PERMIT

STATIONING



PIPE DATA (SLOPE STATIONING)	STA	WELD #	(COW)	JOINT #	HEAT #
	STA	WELD #	(COW)	JOINT #	HEAT #
FOR PERMITTING PURPOSES ONLY					

PROFILE	40' 80' 100' 200' VERTICAL SCALE: 1" = 40'	0' 80' 100' 200' HORIZONTAL SCALE: 1" = 100'
	ENGINEERING PLANS	

MATERIAL	
CONST. METHOD	
CLASS / MAOP	

PROFESSIONAL ENG/ARCH STONS

NO. DATE REVISION(S) 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

DUKE ENERGY

Piedmont Natural Gas

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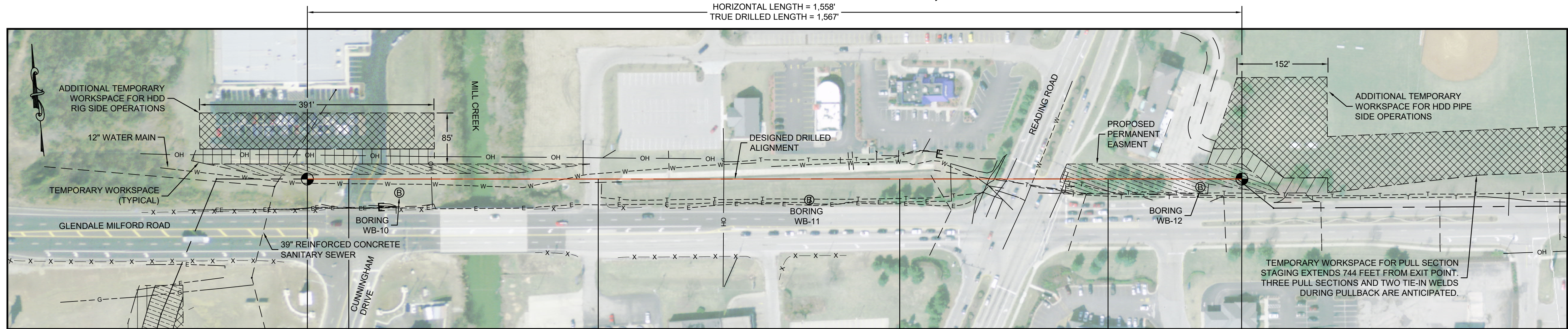
C350 PIPELINE PIPELINE ALIGNMENT SHEETS HAMILTON COUNTY, OH HAMILTON COUNTY, OH

REF. DWG(S)

SHEET(S)	1 OF X	DWG SCALE	AS NOTED
DWG DATE	01/13/2020	SUPERSEDED	
DRAWING NUMBER		REVISION	
PNG -C-350-SK01042		P1	
C/HAMILTON COUNTY/C350			

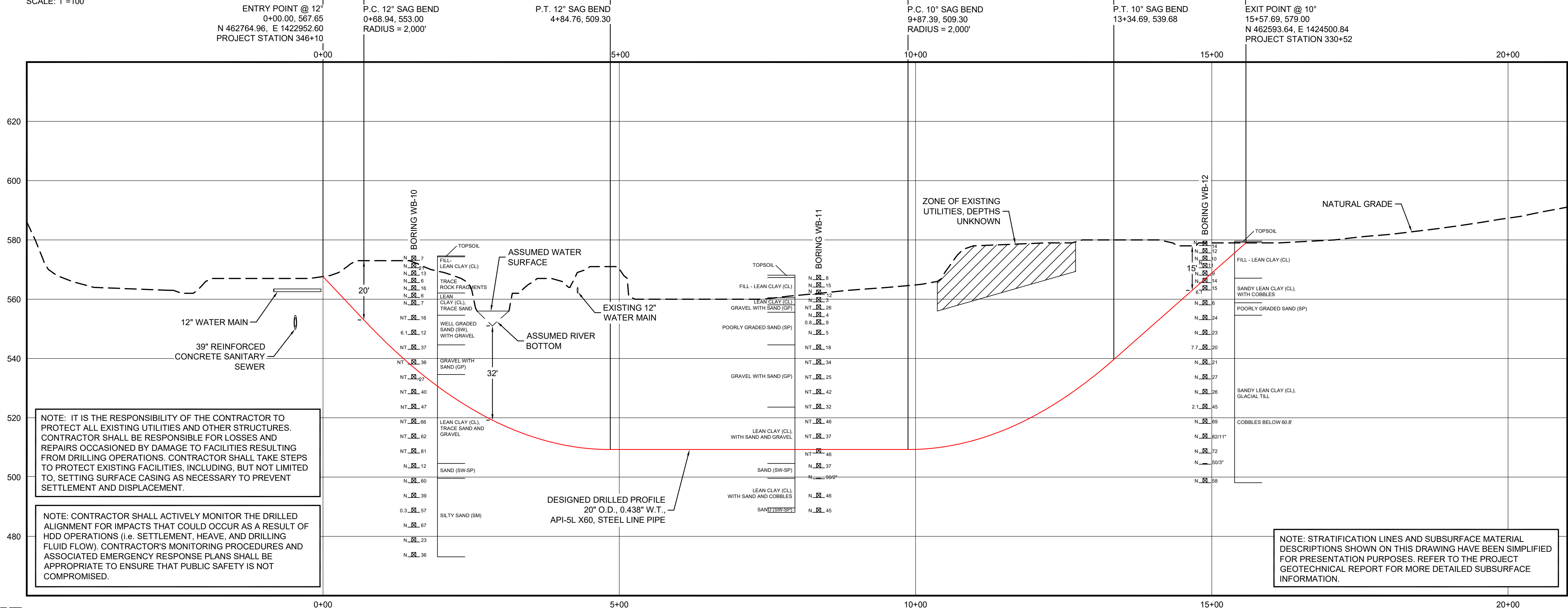


HAMILTON COUNTY, OHIO



PLAN

SCALE: 1"=100'



PROFILE

SCALE: 1"=100' HORIZONTAL  
1"= 20' VERTICAL

GENERAL LEGEND

● DRILLED PATH ENTRY/EXIT POINT

GEOTECHNICAL LEGEND

⊙ BORING LOCATION

SPLIT SPOON SAMPLE

53 23 — PENETRATION RESISTANCE IN BLOWS PER FOOT FOR A 140 POUND HAMMER FALLING 30 INCHES  
— PERCENTAGE OF GRAVEL BY WEIGHT FOR SAMPLES CONTAINING GRAVEL

CORE BARREL SAMPLE

53 6 — UCS 6,250 — UNCONFINED COMPRESSIVE STRENGTH (PSI)  
— MOHS HARDNESS  
— ROCK QUALITY DESIGNATION (PERCENT)

GEOTECHNICAL NOTES

1. GEOTECHNICAL DATA PROVIDED BY TERRACON CONSULTANTS, INC., CINCINNATI, OHIO. REFER TO THE GEOTECHNICAL ENGINEERING REPORT DATED JULY 11, 2018 FOR MORE DETAILED SUBSURFACE INFORMATION.
2. THE LETTER "N" TO THE LEFT OF A SPLIT SPOON SAMPLE INDICATES THAT NO GRAVEL WAS OBSERVED IN THE SAMPLE. THE LETTERS "NT" INDICATE THAT GRAVEL WAS OBSERVED BUT NO GRADATION TEST WAS PERFORMED.
3. THE GEOTECHNICAL DATA IS ONLY DESCRIPTIVE OF THE LOCATIONS ACTUALLY SAMPLED. EXTENSION OF THIS DATA OUTSIDE OF THE ORIGINAL BORINGS MAY BE DONE TO CHARACTERIZE THE SOIL CONDITIONS, HOWEVER, COMPANY DOES NOT GUARANTEE THESE CHARACTERIZATIONS TO BE ACCURATE. CONTRACTOR MUST USE HIS OWN EXPERIENCE AND JUDGMENT IN INTERPRETING THIS DATA.

TOPOGRAPHIC SURVEY NOTES

1. TOPOGRAPHIC SURVEY DATA PROVIDED BY XP-RS, LLC, OVERLAND PARK, KANSAS.
2. NORTHINGS AND EASTINGS ARE IN U.S. SURVEY FEET REFERENCED TO OHIO STATE PLANE COORDINATES, SOUTH ZONE, NAD 83.
3. ELEVATIONS ARE IN FEET REFERENCED TO NAVD 88.

DRILLED PATH NOTES

1. DRILLED PATH STATIONING IS IN FEET BY HORIZONTAL MEASUREMENT AND IS REFERENCED TO CONTROL ESTABLISHED FOR THE DRILLED SEGMENT.
2. DRILLED PATH COORDINATES REFER TO CENTERLINE OF PILOT HOLE AS OPPOSED TO TOP OF INSTALLED PIPE.

PILOT HOLE TOLERANCES

THE PILOT HOLE SHALL BE DRILLED TO THE TOLERANCES LISTED BELOW. HOWEVER, IN ALL CASES, RIGHT-OF-WAY RESTRICTIONS AND CONCERN FOR ADJACENT FACILITIES SHALL TAKE PRECEDENCE OVER THESE TOLERANCES.

1. ENTRY POINT: AT THE STAKED LOCATION
2. ENTRY ANGLE: INCREASE ANGLE UP TO 1-DEGREE (STEEPER), BUT NO DECREASE IN ANGLE ALLOWED
3. EXIT POINT: UP TO 5 FEET SHORT OR 10 FEET LONG RELATIVE TO THE DESIGNED EXIT POINT, UP TO 3 FEET RIGHT OR LEFT OF THE DESIGNED ALIGNMENT
4. EXIT ANGLE: NO INCREASE IN EXIT ANGLE. DECREASE UP TO 2-DEGREES (FLATTER)
5. ELEVATION: UP TO 2 FEET ABOVE AND 10 FEET BELOW THE DESIGNED PROFILE
6. ALIGNMENT: UP TO 5 FEET RIGHT OR LEFT OF THE DESIGNED ALIGNMENT
7. CURVE RADIUS: NO LESS THAN 1,200 FEET BASED ON A 3-JOINT AVERAGE

PROTECTION OF EXISTING FACILITIES

CONTRACTOR SHALL UNDERTAKE THE FOLLOWING STEPS PRIOR TO COMMENCING DRILLING OPERATIONS:

1. CONTACT THE UTILITY LOCATION/NOTIFICATION SERVICE FOR THE CONSTRUCTION AREA.
2. POSITIVELY LOCATE AND STAKE ALL EXISTING UNDERGROUND FACILITIES. ANY FACILITIES LOCATED WITHIN 10 FEET OF THE DESIGNED DRILLED PATH SHALL BE EXPOSED.
3. MODIFY DRILLING PRACTICES AND DOWNHOLE ASSEMBLIES AS NECESSARY TO PREVENT DAMAGE TO EXISTING FACILITIES.

FOR PERMITTING  
PURPOSES ONLY

MATERIAL  
CLASS/MAOP

500 PSIG

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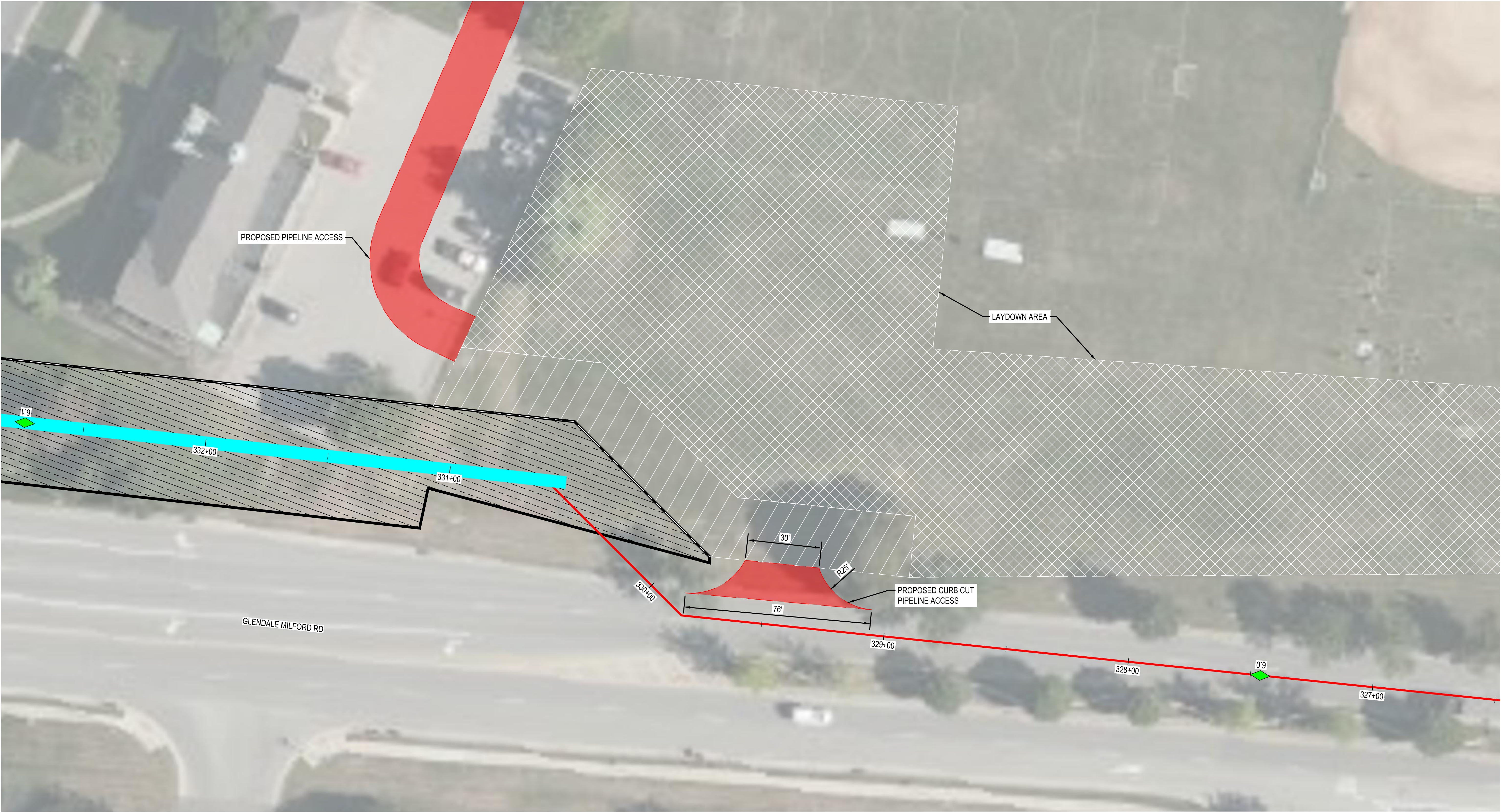
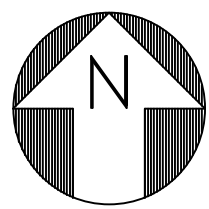
NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD	DESCRIPTION	APPROVALS
P1	02-17-2020	ISSUED FOR PERMIT	CDS	JMS	JMS	AREA CODE -	DATE XX/XX/20XX INITIALS XXX
						ACCOUNT NUMBER Q3680	DATE XX/XX/20XX INITIALS XXX
						PROJECT NUMBER 1880115	DATE XX/XX/20XX INITIALS XXX
						DRAWING BY DLB	DATE XX/XX/20XX INITIALS XXX
						STATION ID C350	DATE XX/XX/20XX INITIALS XXX
						CHECKER INITIALS AMP	DATE XX/XX/20XX INITIALS XXX



C350 PROJECT  
MILL CREEK 1 HDD ALIGNMENT SHEET  
HAMILTON COUNTY, OHIO  
HAMILTON COUNTY, OHIO

REF. DWG(S) C-350-0001041 B-350-0001002 C-350-0001042 B-350-0001003
SHEET(S) 99 OF X DWG SCALE AS NOTED
DWG DATE 09-05-2018 SUPERSEDED
DRAWING NUMBER PNG C-350-SK01099 REVISION P1
C/HAMILTON COUNTY/C350





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

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PROFESSIONAL ENG/ARCH STAMP	NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD	DESCRIPTION		APPROVALS		<div>DUKE ENERGY</div>
	P1	03/09/2020	ISSUED FOR PERMITTING	AKT	CNS	AMP	AREA CODE	-	DATE	INITIALS	
							ACCOUNT NUMBER	Q3680	DATE	INITIALS	
							PROJECT NUMBER	1880115	DATE	INITIALS	
							DRAWING BY	AKT	DATE	INITIALS	
							STATION ID	C350	DATE	INITIALS	REGIONAL ENGINEER
							CHECKER INITIALS	CNS	DATE	INITIALS	MGR TECH REC & STD
									DATE	INITIALS	PRINCIPAL ENGINEER
C350 PROJECT ACCESS ROUTE AND LAYDOWN PLAN - 01 HAMILTON COUNTY, OHIO HAMILTON COUNTY, OHIO										SHEET(S) 1 OF X	DWG SCALE 1"=20'
										DWG DATE 02/10/2020	SUPERSEDED
										DRAWING NUMBER	
										PNG -C-350-SK01001	
										REVISION	
										P1	
										C/HAMILTON COUNTY/C350	