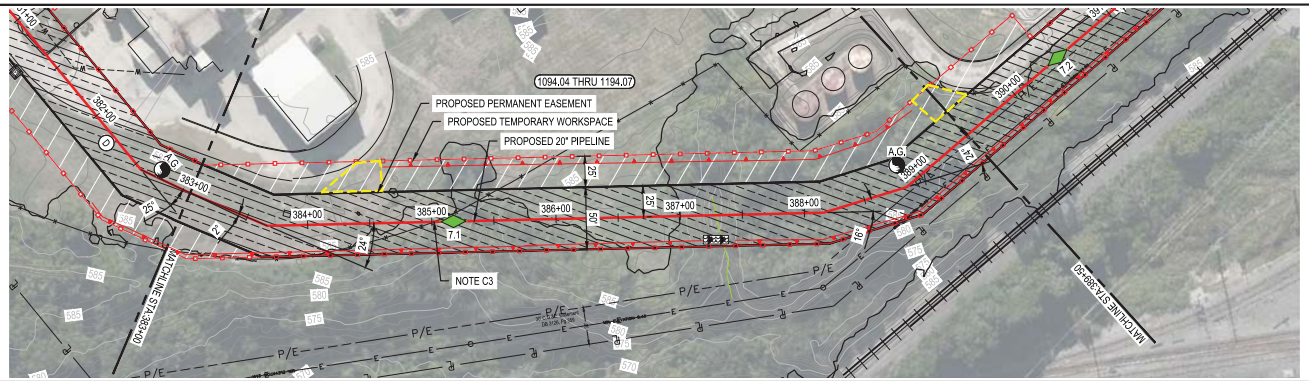
OWNERSHIP	1094.04 THRU 1194.07
JURISDICTION	EVENDALE
ACREAGE	2.7728 ACRES
EASEMENTS	VARIES
REF. DWG. NO.	PNG-C-350-0001312

STATIONING

STA. 383+68 24° BEND (H-LT)
STA. 385+41 1° SAG BEND (V)
STA. 386+66 14° OVERBEND (V)
STA. 387+06 13° SAG BEND (V)
STA. 387+47 7° SAG BEND (V)
STA. 388+16 BEND 16° (H-LT) 7° OVERBEND (V)
STA. 388+85 24° BEND (H-LT)

PLAN

HORIZONTAL SCALE: 1" = 50'



RESTORE

TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295
SURFACE TYPE:	FOR RESTORATION TYPE DETAIL
	SEED - ROUGH

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (DIA)	JOINT #	HEAT #

CONSTRUCTION NOTE:

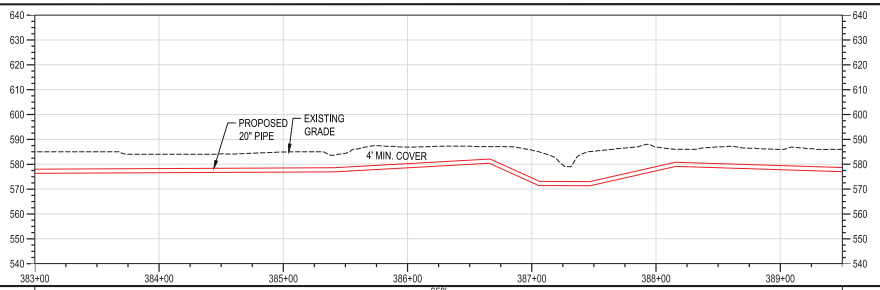
C1. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES, SEE DRAWING PNG-C-350-0001312.

C2. AC MITIGATION SITE, SEE DRAWING PNG-E-350-0001024.

C3. CONTRACTOR SHALL TEMPORARILY REMOVE FENCE DURING CONSTRUCTION AND REINSTALL AS DIRECTED BY COMPANY.

PROFILE

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 25'



MATERIAL	650' (1) OPEN TRENCH
CONST. METHOD	
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS
REGIONAL ENGINEER	-	-
MGR TECH REC & STD	-	-
PRINCIPAL ENGINEER	11/18/2020	AMP

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020
PROFESSIONAL ENG/ARCH STAMP

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S)	36 OF 64
DWG SCALE	AS NOTED
DWG DATE	01/13/2020
SUPERSEDED	—
DRAWING NUMBER	PNG -C-350-0001214
REVISION	0

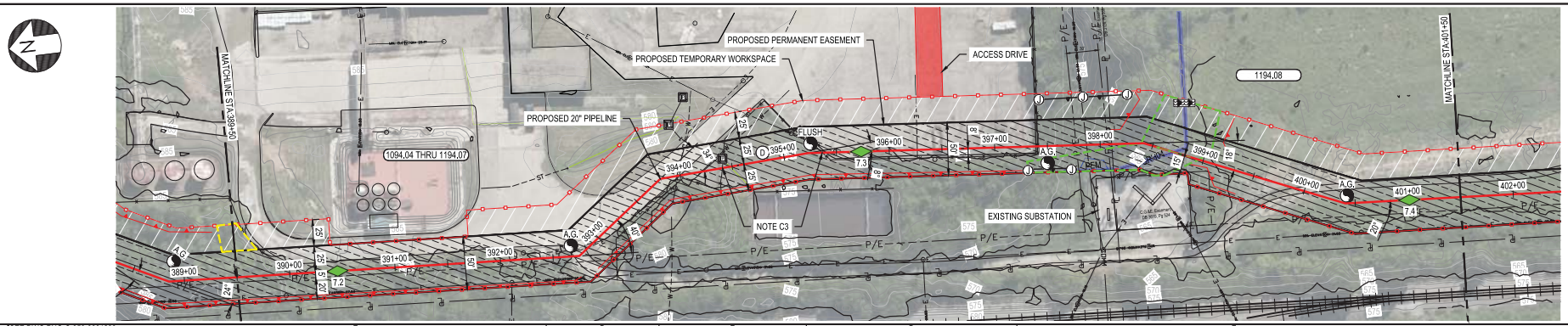
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY				
OWNERSHIP	1094.04 THRU 1194.07		CG&E	1194.08
JURISDICTION	EVENDALE			EVENDALE
ACREAGE	2.7728 ACRES		-	1.3367 ACRES
EASEMENTS	VARIES		30' EASEMENT	VARIES
REF. DWG. NO.	PNG-C-350-0001283	PNG-C-350-0001312		PNG-C-350-0001303

STATIONING

STA: 390+02.1° SAG BEND (V)
STA: 391+29.1° OVERBEND (V)
STA: 392+75.40° FTG (IH-LT)
STA: 393+61 FTG 34° (H-RT)/2° OVERBEND (V)
STA: 394+55.3° SAG BEND (V)
STA: 395+23 BEND 8° (H-RT)/1° OVERBEND (V)
STA: 397+22.9° OVERBEND (V)
STA: 397+73.5° SAG BEND (V)
STA: 398+41 BEND 18° (H-RT)/4° SAG BEND (V)
STA: 400+41 20° BEND (H-LT)

PLAN



RESTORE

TRENCH TYPE:	E	D	E	D	E
SURFACE TYPE:	SEED - ROUGH	1	SEED - ROUGH	1	SEED - ROUGH

SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (CM)	JOINT #	HEAT #

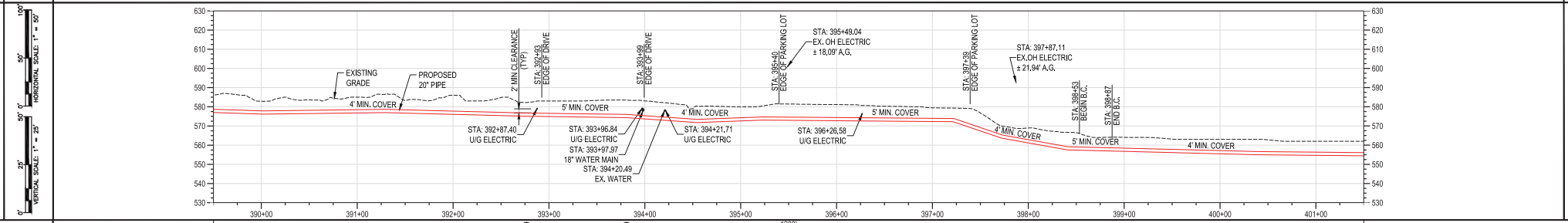
CONSTRUCTION NOTES:

C1. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES, SEE DRAWING PNG-C-350-0001312.

C2. AC MITIGATION SITE, SEE DRAWING PNG-E-350-0001024.

C3. CONTRACTOR SHALL TEMPORARILY REMOVE FENCE DURING CONSTRUCTION AND REINSTALL AS DIRECTED BY COMPANY.

PROFILE



MATERIAL	(11)	(11)	1200' (1)
CONST. METHOD			OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG		

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS
REGIONAL ENGINEER	-	-
MGR TECH REC & STD	-	-
PRINCIPAL ENGINEER	11/18/2020	AMP

STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020
PROFESSIONAL ENG/ARCH STAMP

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HAMILTON COUNTY, OH

SHEET(S)	37 OF 64	DWG SCALE	AS NOTED
DWG DATE	01/13/2020	SUPERSEDED	—
DRAWING NUMBER	PNG -C-350-0001215	REVISION	0

C/HAMILTON COUNTY/C350

RIGHT-OF-WAY				
OWNERSHIP	1194.08	1209.00	1210.00	
JURISDICTION	EVENDALE	EVENDALE	READING	
ACREAGE	1.3367 ACRES	1.0963 ACRES		
EASEMENTS	VARIES	50' EASEMENT		
REF. DWG. NO.	PNG-C-350-0001312	PNG-B-350-0001010	PNG-C-350-0001274	

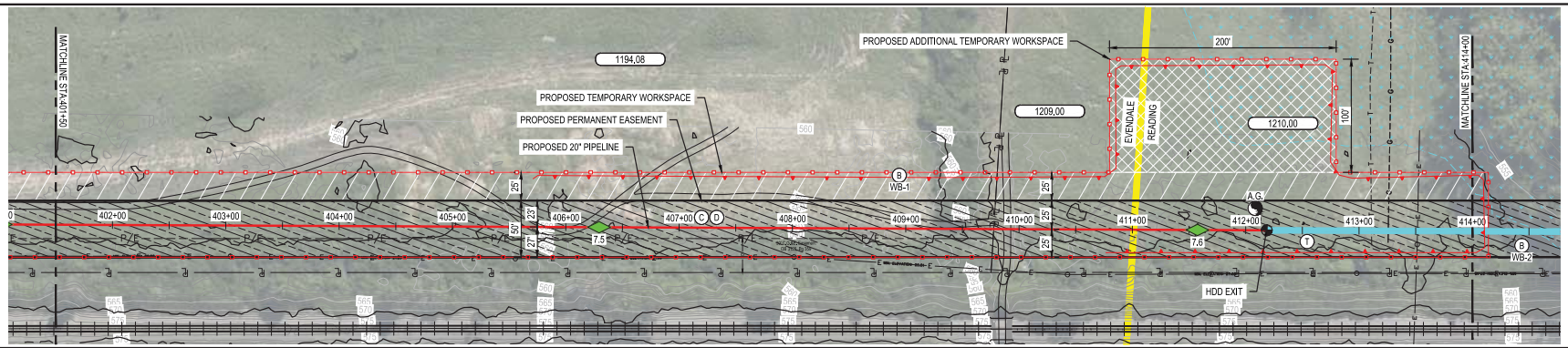
STATIONING

STA: 406+92 1° SAG BEND (V)

STA: 409+93 1° OVERBEND (V)

STA: 412+48 FTG 9° OVERBEND (V)

PLAN



RESTORE

TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295	E	N/A
SURFACE TYPE:	FOR RESTORATION TYPE DETAIL	SEED - ROUGH	N/A

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (CSA)	JOINT HEAT #	JOINT LENGTH (CSA)	WELD #	STA.

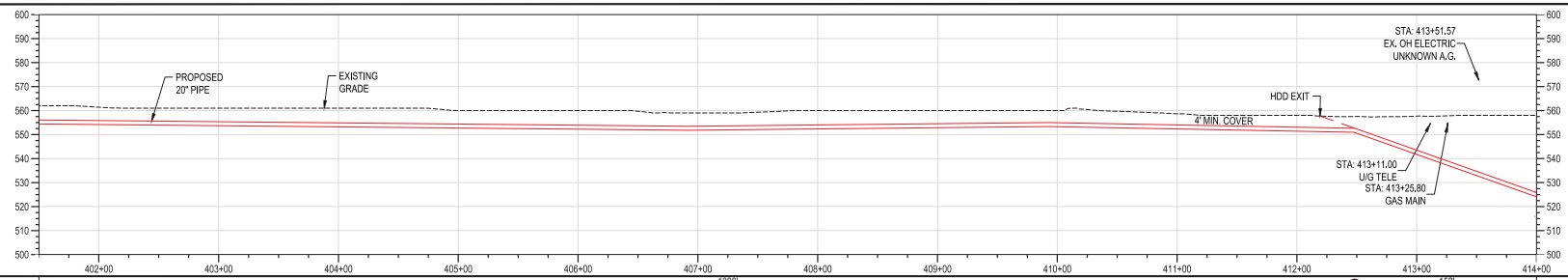
CONSTRUCTION NOTE:

C1. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES, SEE DRAWING PNG-C-350-0001312.

C2. AC MITIGATION SITE, SEE DRAWING PNG-E-350-0001024.

C3. CONTRACTOR SHALL HAND CLEAR MINIMUM 16' CENTERED OVER PIPELINE IN HDD, UNLESS INSTRUCTED OTHERWISE BY DUKE ENVIRONMENTAL INSPECTOR.

PROFILE



MATERIAL		
CONST. METHOD	1098' (1) OPEN TRENCH	152' (2) HDD
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG	

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS		
DATE -	INITIALS -	REGIONAL ENGINEER
DATE -	INITIALS -	MGR TECH REC & STD
DATE 11/18/2020	INITIALS AMP	PRINCIPAL ENGINEER

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

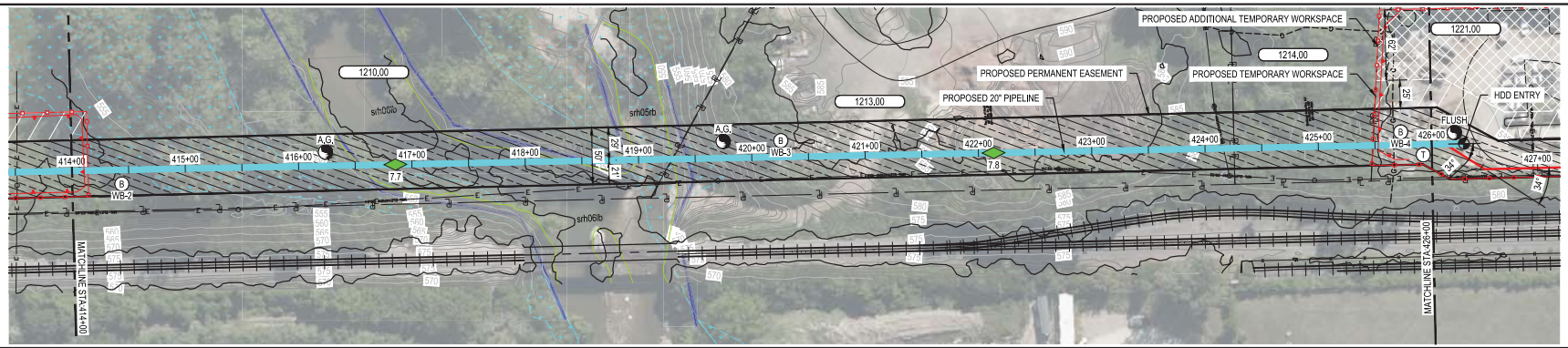
SHEET(S) 38 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001216	REVISION 0

C/HAMILTON COUNTY/C350

RIGHT-OF-WAY					
OWNERSHIP / JURISDICTION	1210.00 READING		1213.00 READING	1214.00 READING	1221.00 READING
ACREAGE	1.0963 ACRES		0.5708 ACRES	0.1362 ACRES	0.9506 ACRES
EASEMENTS	50' EASEMENT		50' EASEMENT	50' EASEMENT	VARIES
REF. DWG. NO.	PNG-B-350-0001011	PNG-C-350-0001274	PNG-B-350-0001010	PNG-C-350-0001312	PNG-B-350-0001012

STATIONING

PLAN



RESTORE

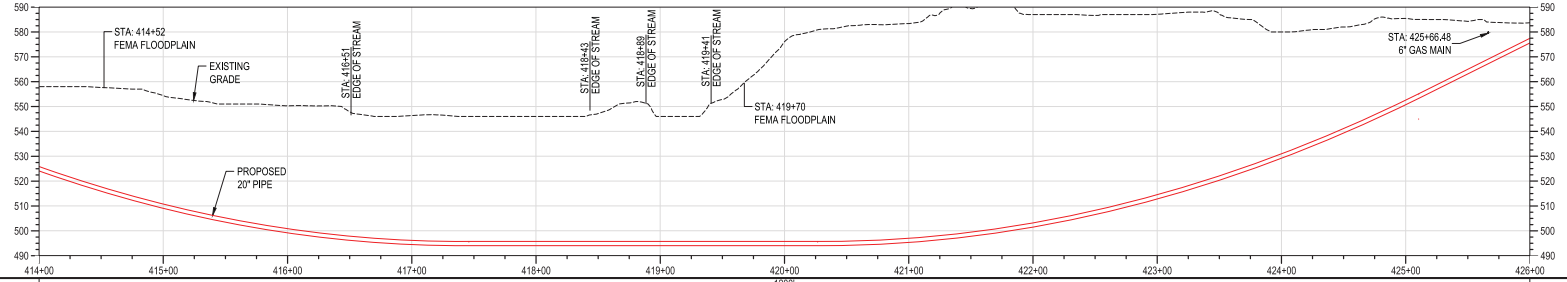
TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	N/A	D
SURFACE TYPE:		N/A	1

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (DIA)	JOINT LENGTH (DIA)	WELD #	STA.

CONSTRUCTION NOTE:
C1. CONTRACTOR SHALL HAND CLEAR MINIMUM 16' CENTERED OVER PIPELINE IN HDD, UNLESS INSTRUCTED OTHERWISE BY DUKE ENVIRONMENTAL INSPECTOR, CLEARING IS NOT REQUIRED WITHIN 50' OF STREAM EDGE.

PROFILE



MATERIAL	
CONST. METHOD	1200' (2) HDD
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS
REGIONAL ENGINEER	-	-
MGR TECH REC & STD	-	-
PRINCIPAL ENGINEER	11/18/2020	AMP

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020
PROFESSIONAL ENG/ARCH STAMP

DUKE ENERGY. | Piedmont Natural Gas

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S)	39 OF 64
DWG SCALE	AS NOTED
DWG DATE	01/13/2020
SUPERSEDED	—
DRAWING NUMBER	PNG -C-350-0001217
REVISION	0

C/HAMILTON COUNTY/C350

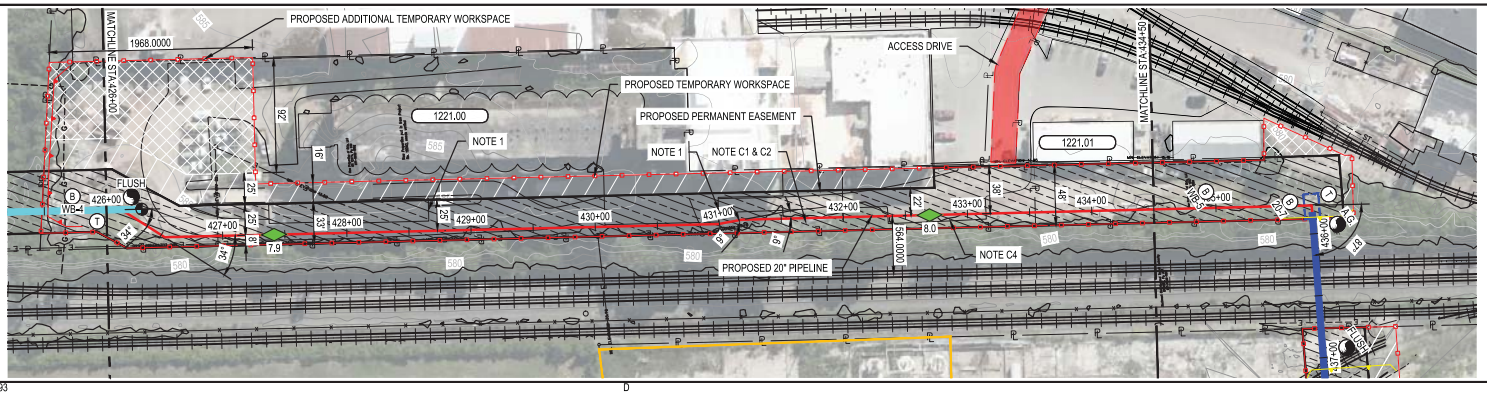
RIGHT-OF-WAY

OWNERSHIP	
JURISDICTION	1221.00 READING / 1221.01 READING
ACREAGE	0.9506 ACRES
EASEMENTS	VARIES
REF. DWG. NO.	

STATIONING

STA: 426+12 FTG 34° (H-RT) 16° OVERBEND (V)
STA: 426+53 34° FTG (H-LT)
STA: 427+00 2° SAG BEND (V)
STA: 430+99 9° BEND (H-LT)
STA: 431+16 FTG 9° BEND (H-RT)

PLAN



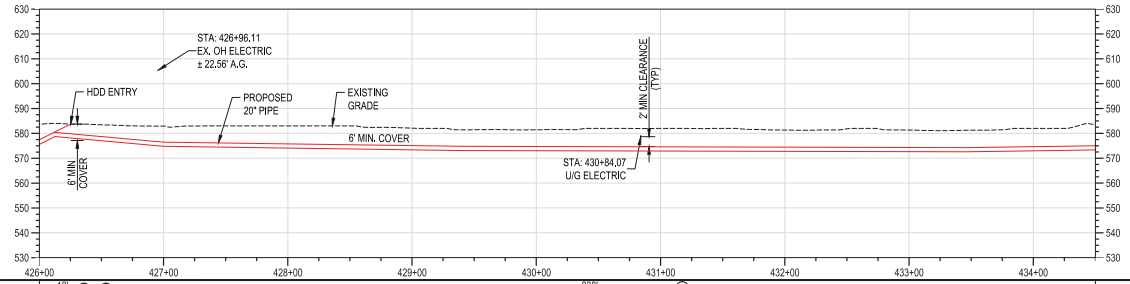
RESTORE

TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295
SURFACE TYPE:	FOR RESTORATION TYPE DETAIL

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH	WELD #	STA.
	HEAT #	(CSA)	(CSA)	

PROFILE



NOTES:
1. AWNING TO BE REMOVED PRIOR TO CONSTRUCTION.

CONSTRUCTION NOTES:
C1. PIPELINE SHALL MAINTAIN A MINIMUM 25-FOOT CLEARANCE FROM CENTER OF RAILROAD TRACKS PER AREMA GUIDELINES, PIPELINE COVER SHALL BE 6-FEET WHEN LOCATED WITHIN 50-FEET OF RAILROAD CENTERLINE.

C2. PIPELINE SHALL BE INSTALLED AT LEAST 15-FEET FROM BUILDINGS, UNLESS APPROVED BY DUKE ENERGY.

C3. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES, SEE DRAWING PNG-C-350-0001312.

C4. PIPELINE MAY BE LOCATED FURTHER EAST IN CENTER OF ACCESS DRIVE PER LANDOWNER REQUEST, FINAL LOCATION SHALL BE AS SHOWN IN DRAWINGS OR AS OTHERWISE DIRECTED BY DUKE ENERGY IN WRITING.

MATERIAL	12" (2) (11) (11) HDD — 838' (1) (11) OPEN TRENCH
CONST. METHOD	
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS
REGIONAL ENGINEER	-	-
MGR TECH REC & STD	-	-
PRINCIPAL ENGINEER	11/18/2020	AMP

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ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S)	40 OF 64
DWG SCALE	AS NOTED
DWG DATE	01/13/2020
SUPERSEDED	—
DRAWING NUMBER	PNG -C-350-0001218
REVISION	0

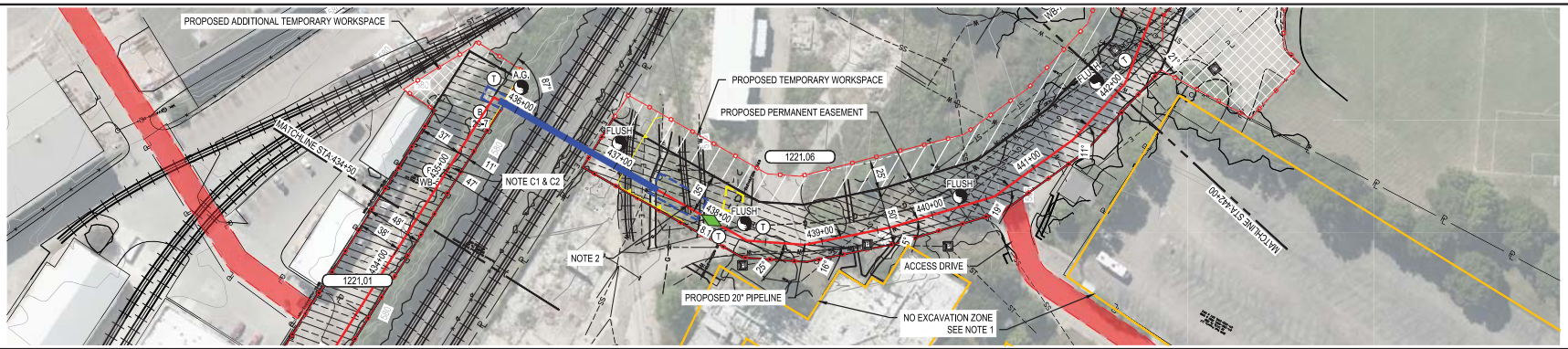
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY				
OWNERSHIP	1221.01	S.O.R.T.A. ROW	1221.06	
JURISDICTION	READING	READING	READING	
ACREAGE	0.9506 ACRES		1.2918 ACRES	
EASEMENTS	VARIES		VARIES	
REF. DWG. NO.	PNG-B-350-0001012 PNG-B-350-0001010	PNG-C-350-0001259	PNG-C-350-0001169	

STATIONING

STA. 435+09 9° OVERBEND (V)
STA. 435+77 FTG. 8° (H-L1) 9° SAG BEND (V)
STA. 437+73 4° SAG BEND (V)
STA. 438+34 FTG. 25° (H-L1) 16° OVERBEND (V)
STA. 438+65 BEND 16° (H-L1) 2° OVERBEND (V)
STA. 439+62 5° BEND (H-L1)
STA. 440+16 5° SAG BEND (V)
STA. 440+57 BEND 19° (H-L1) 9° SAG BEND (V)
STA. 440+88 10° OVERBEND (V)
STA. 441+43 11° BEND (H-L1)

PLAN



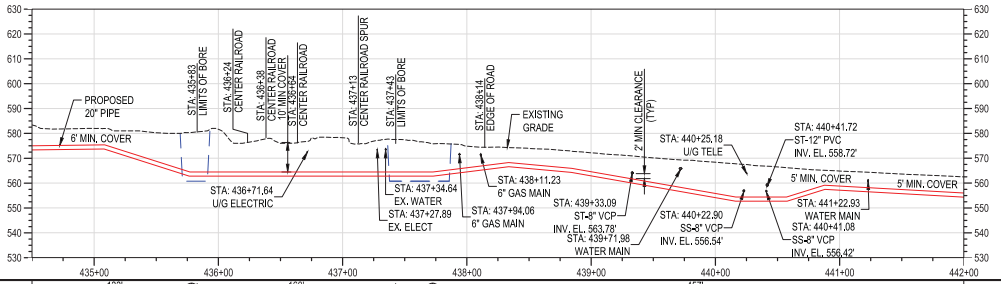
RESTORE

TRENCH TYPE:	SEE DWG PNG-C-350-0001293	D	N/A	D
SURFACE TYPE:	THROUGH PNG-C-350-0001295	1	N/A	1
	FOR RESTORATION TYPE DETAIL			

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (DIA)	JOINT #	HEAT #

PROFILE



NOTES:
1. EXCAVATION PROHIBITED WITHIN AREAS INDICATED, AREA LOCATIONS APPROXIMATE. SEE INSTITUTIONAL CONTROLS-FORMER ROHM AND HAAS CHEMICALS LLC SITE READING, OHIO 00,421,13,84,
2. RAIL SPURS SHALL BE REMOVED WITHIN WORKSPACE AS INDICATED ON PLAN.

CONSTRUCTION NOTES:
C1. PIPELINE SHALL MAINTAIN A MINIMUM 25-FOOT CLEARANCE FROM CENTER OF RAILROAD TRACKS PER AREMA GUIDELINES. PIPELINE COVER SHALL BE 6-FEET WHEN LOCATED WITHIN 50-FEET OF RAILROAD CENTERLINE.
C2. PIPELINE SHALL BE INSTALLED AT LEAST 15-FEET FROM BUILDINGS, UNLESS APPROVED BY DUKE ENERGY.
C3. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES, SEE DRAWING PNG-C-350-0001312.

MATERIAL	133'	160'	457'	
CONST. METHOD	(1) OPEN TRENCH	(10) (2) BORE	(11) (1) OPEN TRENCH	
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG			

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS	
	-	-	REGIONAL ENGINEER
	-	-	MGR TECH REC & STD
	11/18/2020	AMP	PRINCIPAL ENGINEER

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020
PROFESSIONAL ENG/ARCH STAMP

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S)	41 OF 64
DWG SCALE	AS NOTED
DWG DATE	01/13/2020
SUPERSEDED	—
DRAWING NUMBER	PNG -C-350-0001219
REVISION	0

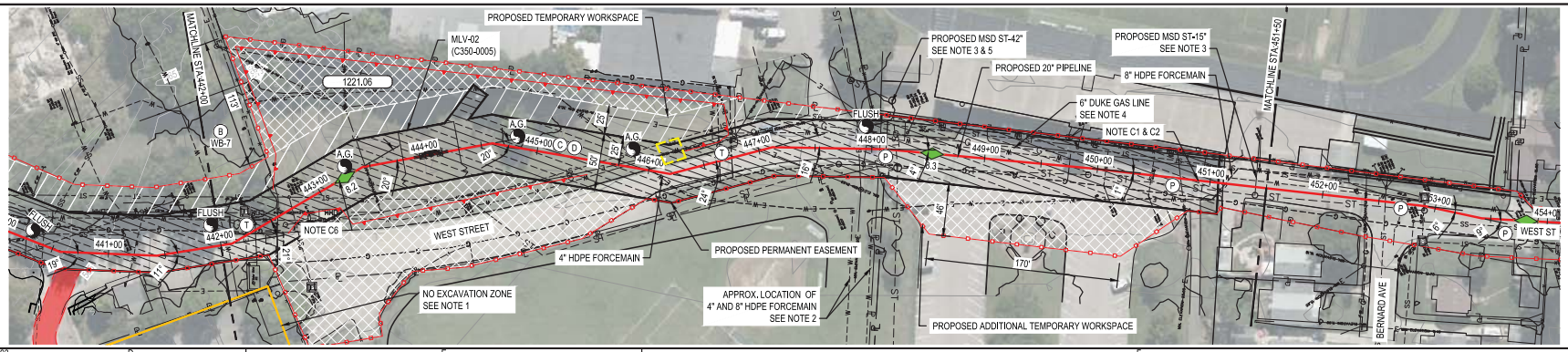
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY				
OWNERSHIP		1221.06	1228.03	ROW
JURISDICTION		READING	READING	READING
ACREAGE		1.2918 ACRES	0.3694 ACRES	
EASEMENTS		50' EASEMENT	VARIES	
REF. DWG. NO.	PNG-C-350-0001169 PNG-B-350-0001012 PNG-C-350-0001340 PNG-D-350-0001002 PNG-M-350-0001010 PNG-C-350-0001312		PNG-C-350-0001293	

STATIONING

STA. 442+10 BEND 21° (H-LT) 1° SAG BEND (V)
STA. 443+02 6° SAG BEND (V)
STA. 443+43 BEND 20° (H-RT) 5° OVERBEND (V)
STA. 444+60 BEND 20° (H-RT) 3° OVERBEND (V)
STA. 445+49 4° SAG BEND (V)
STA. 446+19 24° BEND (H-LT)
STA. 447+12 BEND 10° (H-RT) 1° OVERBEND (V)
STA. 448+12 4° BEND (H-RT)
STA. 449+92 BEND 1° (H-RT) 3° OVERBEND (V)
STA. 451+06 3° SAG BEND (V)

PLAN



RESTORE

TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295	D	E	F
SURFACE TYPE:	FOR RESTORATION TYPE DETAIL	1	SEED - FINE	C

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (CSA)	HEAT #	JOINT LENGTH (CSA)	WELD #	STA.

CONSTRUCTION NOTES:

C1. SEWER LATERALS NOT SHOWN ON PLANS. PIPELINE ELEVATIONS MAY NEED TO BE ADJUSTED TO MAINTAIN A MINIMUM 1-FOOT (2-FOOT PREFERRED) CLEARANCE.

C2. PIPELINE SHALL BE INSTALLED AT LEAST 15-FEET FROM BUILDINGS, UNLESS APPROVED BY DUKE ENERGY.

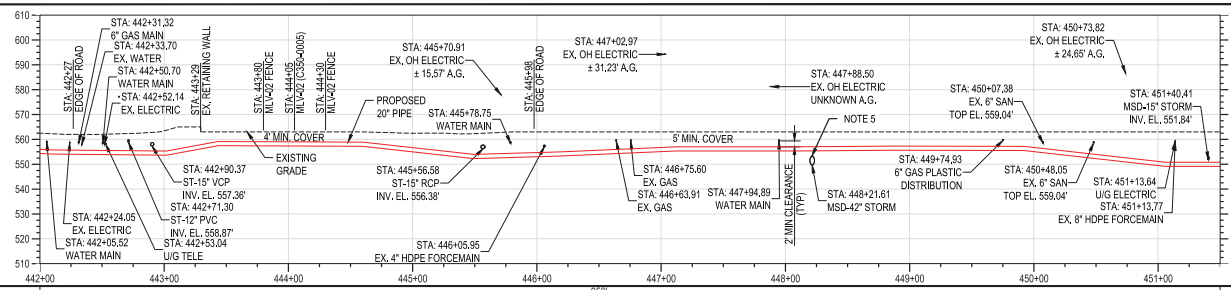
C3. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES. SEE DRAWING PNG-C-350-0001312.

C4. AC MITIGATION SITE, SEE DRAWING PNG-E-350-0001024.

C5. MLV IS PREFABRICATED FROM VENDOR, FOR DETAILS SEE DRAWING PNG-D-350-0001002 & PNG-M-350-0001010.

C6. CONTRACTOR SHALL REPAIR RETAINING WALL TO INITIAL CONDITIONS OR BETTER.

PROFILE



NOTES:

1. EXCAVATION PROHIBITED WITHIN AREAS INDICATED, AREA LOCATIONS APPROXIMATE. SEE INSTITUTIONAL CONTROLS-FORMER ROHM AND HAAS CHEMICALS LLC SITE READING, OHIO 00,421,13,84.
2. PRISTINE PIPING IS APPROXIMATE BASED ON FIGURE 5.1 OFF-SITE FORCEMAIN AND EXTRACTION WELL LOCATION DOCUMENT.
3. PROPOSED MSD STORM LOCATION IS APPROXIMATE BASED ON PLAN SET TITLED "PROPOSED PROJECT NO. 10142200 C50 513 PARTIAL SEWER SEPARATION" 90% DESIGN SUBMITTAL DATED MARCH 5, 2019.
4. PROPOSED DUKE ENERGY 6" PLASTIC DISTRIBUTION LOCATION APPROXIMATE BASED ON PLAN DOCUMENT "1700 WEST ST STREET IMPROVEMENT, DOC NO. 036151554", DRAWING DATED 4/15/2020.
5. USE FLOWABLE FILL AROUND PIPE ABOVE PROPOSED MSD-42" STORM, SEE BACKFILL DETAIL F ON DWG PNG-C-350-0001293.

MATERIAL	
CONST. METHOD	950' OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

BURNS & MCDONNELL

STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020

PROFESSIONAL ENG/ARCH STAMP

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS	
	-	-	REGIONAL ENGINEER
	-	-	MGR TECH REC & STD
	11/18/2020	AMP	PRINCIPAL ENGINEER

DUKE ENERGY. Piedmont Natural Gas

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S) 42 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER	REVISION
PNG -C-350-0001220	0

C/HAMILTON COUNTY/C350

RIGHT-OF-WAY

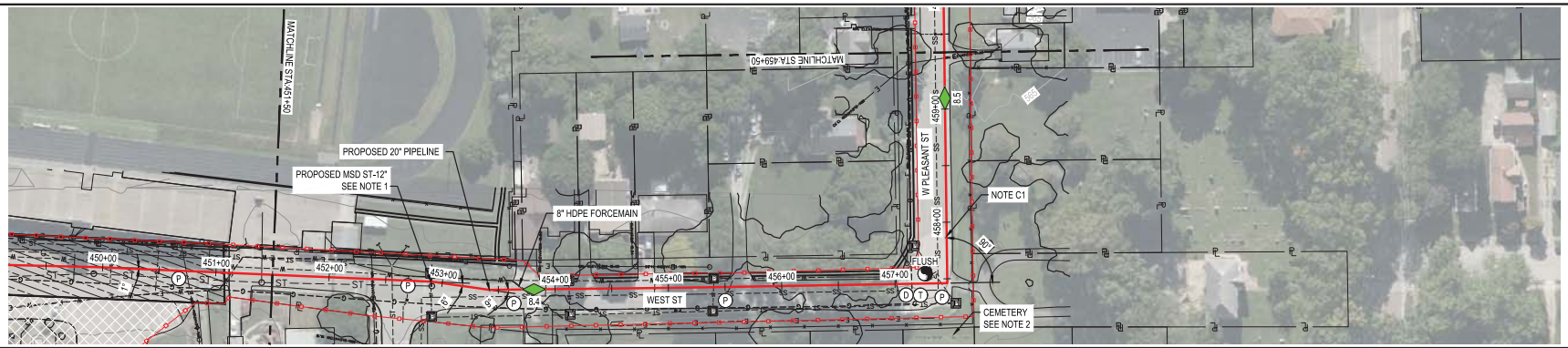
OWNERSHIP	
JURISDICTION	
ACREAGE	
EASEMENTS	
REF. DWG. NO.	PNG-C-350-0001312 / PNG-C-350-0001287

ROW READING

STATIONING

STA: 452+91.6° BEND (H-RT)
STA: 453+42.9° BEND (H-LT)
STA: 455+85.5° SAG BEND (V)
STA: 456+72.5° OVERBEND (V)
STA: 457+46.90° FTG (H-LT)

PLAN



RESTORE

TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295
SURFACE TYPE:	FOR RESTORATION TYPE DETAIL

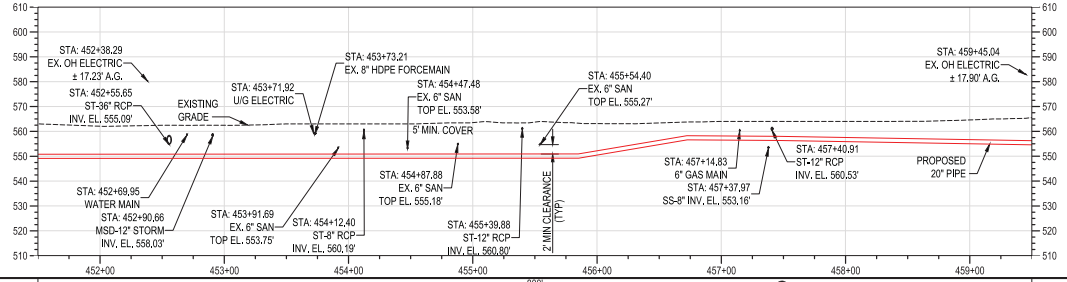
F C C

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (DIA)	JOINT #	HEAT #

NOTES:
1. PROPOSED MSD STORM LOCATION IS APPROXIMATE BASED ON PLAN SET TITLED "PROPOSED PROJECT NO. 10142200 C50 513 PARTIAL SEWER SEPARATION" 90% DESIGN SUBMITTAL DATED MARCH 5, 2019.
2. FOR CEMETERY MONITORING REQUIREMENTS, SEE DWG PNG-350-C-0001287.

PROFILE



CONSTRUCTION NOTES:
- C1. PIPELINE SHALL BE INSTALLED AT LEAST 15-FEET FROM BUILDINGS, UNLESS APPROVED BY DUKE ENERGY.
- C2. AC MITIGATION SITE, SEE DRAWING PNG-E-350-0001024.
- C3. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES, SEE DRAWING PNG-C-350-0001312.
- C4. TRENCH BACKFILL TYPE F SHALL BE USED WHEN ALIGNMENT PASSES OVERTOP SANITARY SEWER LATERALS.

MATERIAL	
CONST. METHOD	800' (1) (10) OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

PROFESSIONAL ENG/ARCH STAMP

STATE OF OHIO — AMANDA PALM — E-84075 — REGISTERED PROFESSIONAL ENGINEER — 11/18/2020

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS
REGIONAL ENGINEER	-	-
MGR TECH REC & STD	-	-
PRINCIPAL ENGINEER	11/18/2020	AMP

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REF. DWG(S) SEE REFERENCE BAND

C350 PIPELINE ALIGNMENT PLAN & PROFILE HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S)	43 OF 64
DWG SCALE	AS NOTED
DWG DATE	01/13/2020
SUPERSEDED	—
DRAWING NUMBER	PNG -C-350-0001221
REVISION	0

C/HAMILTON COUNTY/C350

RIGHT-OF-WAY

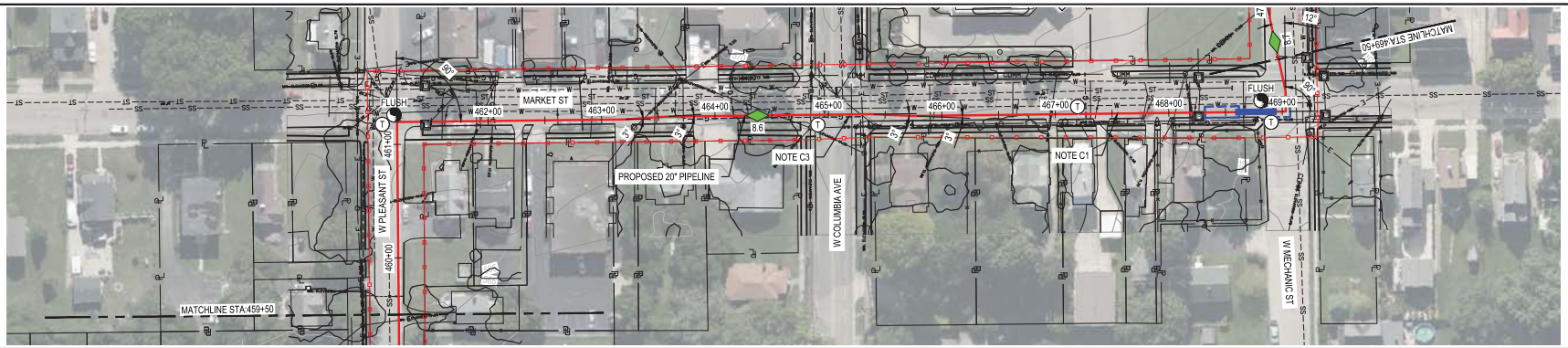
OWNERSHIP	
JURISDICTION	
ACREAGE	
EASEMENTS	
REF. DWG. NO.	PNG-C-350-0001312 / PNG-C-350-0001260

ROW READING

STATIONING

STA. 461+20 90° FTG (H-RT)
STA. 463+18 3° BEND (H-LT)
STA. 463+56 BEND 3° (H-RT) 6° SAG BEND (V)
STA. 464+02 7° OVERBEND (V)
STA. 465+37 3° BEND (H-RT)
STA. 465+75 3° BEND (H-LT)
STA. 468+29 1° SAG BEND (V)
STA. 469+03 90° FTG (H-LT)
STA. 469+21 FTG 12" (H-LT) 6° SAG BEND (V)

PLAN



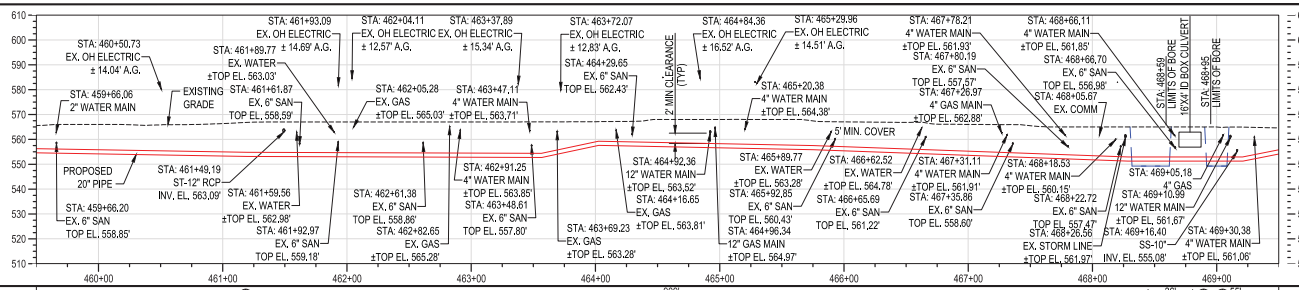
RESTORE

TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295	C	N/A / C
SURFACE TYPE:	FOR RESTORATION TYPE DETAIL	C	N/A / C

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (CON)	HEAT #	STA.	WELD #	JOINT LENGTH (CON)	HEAT #
460+00				461+00			
462+00				463+00			
464+00				465+00			
466+00				467+00			
468+00				469+00			

PROFILE



CONSTRUCTION NOTES:

C1. PIPELINE SHALL BE INSTALLED AT LEAST 15-FEET FROM BUILDINGS, UNLESS APPROVED BY DUKE ENERGY.

C2. TRENCH BACKFILL TYPE F SHALL BE USED WHEN ALIGNMENT PASSES OVERTOP SANITARY SEWER LATERALS.

C3. GAS DISTRIBUTION LINE RELOCATED PRIOR TO CONSTRUCTION BY OTHERS.

MATERIAL	⑩							
CONST. METHOD	① OPEN TRENCH	909'						
	② BORE	36'						
	⑩ ⑪ ① OPEN TRENCH	55'						
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG							

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION		APPROVALS		
AREA CODE	-	DATE -	INITIALS -	REGIONAL ENGINEER
ACCOUNT NUMBER	Q3680			
PROJECT NUMBER	1880115			MGR TECH REC & STD
DRAWING BY	AKT	DATE -	INITIALS -	
STATION ID	C350			
CHECKER INITIALS	CNS	DATE 11/18/2020	INITIALS AMP	PRINCIPAL ENGINEER

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020
PROFESSIONAL ENG/ARCH STAMP

DUKE ENERGY. Piedmont Natural Gas

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C350 PIPELINE ALIGNMENT PLAN & PROFILE HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S)	44 OF 64
DWG SCALE	AS NOTED
DWG DATE	01/13/2020
SUPERSEDED	—
DRAWING NUMBER	PNG -C-350-0001222
REVISION	0

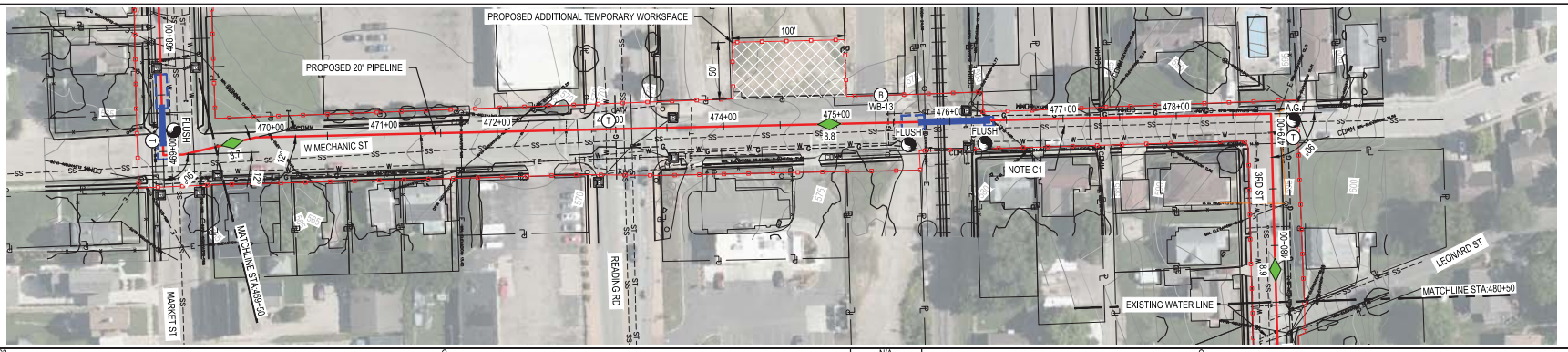
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY		
OWNERSHIP	ROW	
JURISDICTION	READING	
ACREAGE		
EASEMENTS		
REF. DWG. NO.	PNG-C-350-0001312	PNG-B-350-0001014 PNG-C-350-0001261

STATIONING

STA. 469+67 BEND 12" (HART) 6° OVERBEND (V)
STA. 471+16.1° OVERBEND (V)
STA. 473+24.12° SAG BEND (V)
STA. 473+59.9° OVERBEND (V)
STA. 475+11.6° OVERBEND (V)
STA. 475+51.3° SAG BEND (V)
STA. 476+56.9° SAG BEND (V)
STA. 476+99.5° OVERBEND (V)
STA. 478+38.4° OVERBEND (V)
STA. 478+84.90° FTG (HART)

PLAN

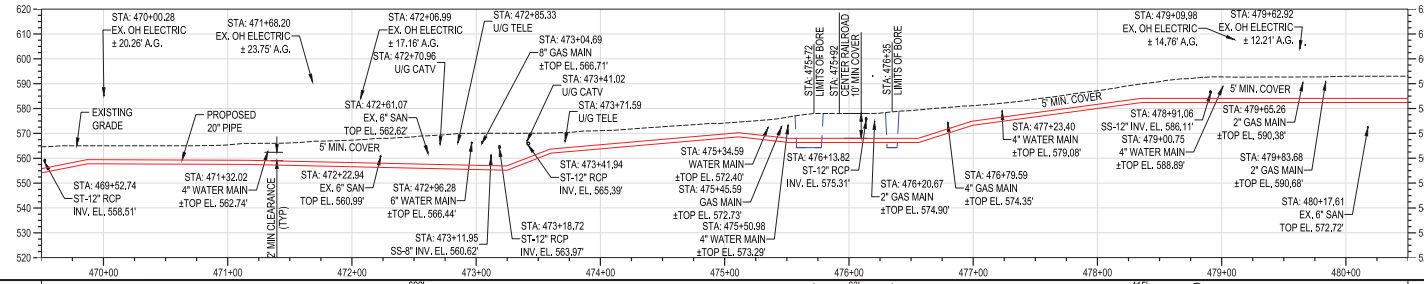


RESTORE					
TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	C	N/A	C	
SURFACE TYPE:		C	N/A	C	

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (CM)	HEAT #	JOINT LENGTH (CM)	WELD #	STA.

PROFILE



CONSTRUCTION NOTES:

C1. PIPELINE SHALL BE INSTALLED AT LEAST 15-FEET FROM BUILDINGS, UNLESS APPROVED BY DUKE ENERGY.

C2. TRENCH BACKFILL TYPE F SHALL BE USED WHEN ALIGNMENT PASSES OVERTOP SANITARY SEWER LATERALS.

MATERIAL			
CONST. METHOD	622' (1) OPEN TRENCH	63' (2) BORE	415' (1) (10) OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG		

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION		APPROVALS		
AREA CODE	-	DATE -	INITIALS -	REGIONAL ENGINEER
ACCOUNT NUMBER	Q3680			
PROJECT NUMBER	1880115			
DRAWING BY	AKT	DATE -	INITIALS -	MGR TECH REC & STD
STATION ID	C350			
CHECKER INITIALS	CNS	DATE 11/18/2020	INITIALS AMP	PRINCIPAL ENGINEER

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020
PROFESSIONAL ENGINEER STAMP

DUKE ENERGY. Piedmont Natural Gas

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C350 PIPELINE ALIGNMENT PLAN & PROFILE HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S) 45 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001223	REVISION 0

C/HAMILTON COUNTY/C350

RIGHT-OF-WAY

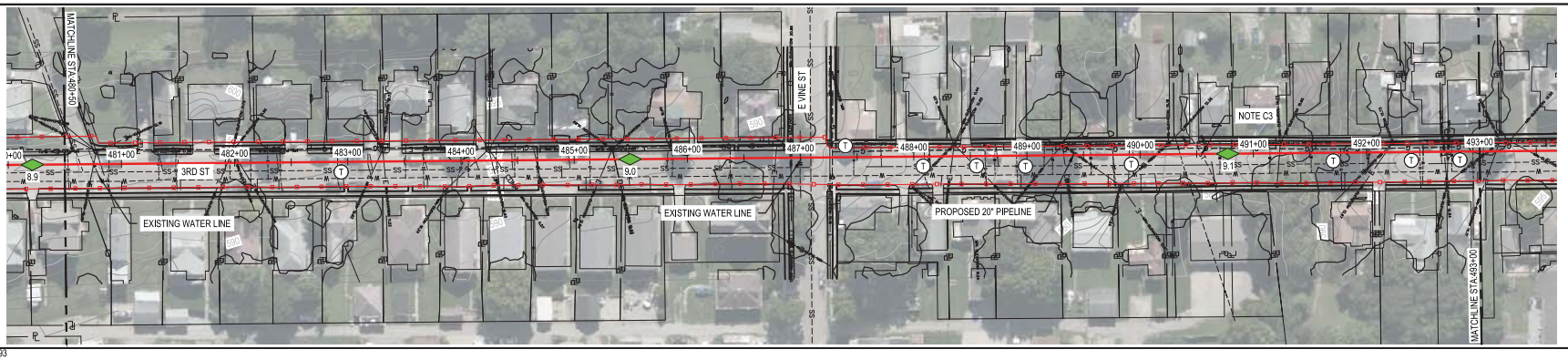
OWNERSHIP	
JURISDICTION	
ACREAGE	
EASEMENTS	
REF. DWG. NO.	PNG-C-350-0001312 / PNG-C-350-0001293

ROW READING

STATIONING

STA. 480+70.3' OVERBEND (V) | STA. 482+07.3' SAG BEND (V) | STA. 482+82.1' SAG BEND (V) | STA. 484+31.2' OVERBEND (V) | STA. 487+16.2' OVERBEND (V) | STA. 490+19.2' SAG BEND (V) | STA. 490+66.8' SAG BEND (V) | STA. 492+35.11' OVERBEND (V)

PLAN



HORIZONTAL SCALE: 1" = 50'

RESTORE

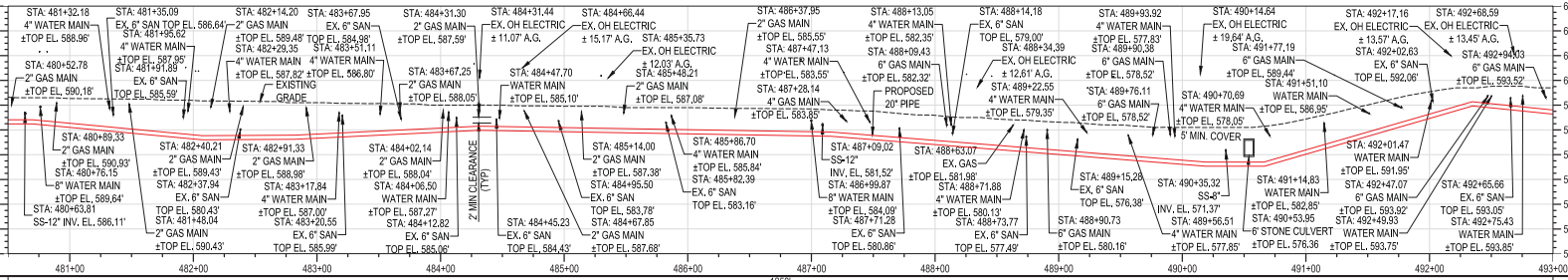
TRENCH TYPE: SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295
SURFACE TYPE: FOR RESTORATION TYPE DETAIL

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (CSA)	HEAT #	JOINT LENGTH (CSA)	WELD #	STA.

NOTES:
1. OVERHEAD ELECTRIC LABELS NOT SHOWN FOR CLARITY.

PROFILE



CONSTRUCTION NOTES:
C1. PIPELINE SHALL BE INSTALLED AT LEAST 15-FEET FROM BUILDINGS. UNLESS APPROVED BY DUKE ENERGY.
C2. TRENCH BACKFILL TYPE F SHALL BE USED WHEN ALIGNMENT PASSES OVERTOP SANITARY SEWER LATERALS AND UNDER STONE CULVERT.
C3. 6" STONE CULVERT. LOCATION AND SIZE APPROXIMATED BY UTILITY RLA CAMERA.

MATERIAL	
CONST. METHOD	1250' (1) OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020
PROFESSIONAL ENG/ARCH STAMP

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS
REGIONAL ENGINEER	-	-
MGR TECH REC & STD	-	-
PRINCIPAL ENGINEER	11/18/2020	AMP

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ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S)	46 OF 64
DWG SCALE	AS NOTED
DWG DATE	01/13/2020
SUPERSEDED	—
DRAWING NUMBER	PNG -C-350-0001224
REVISION	0

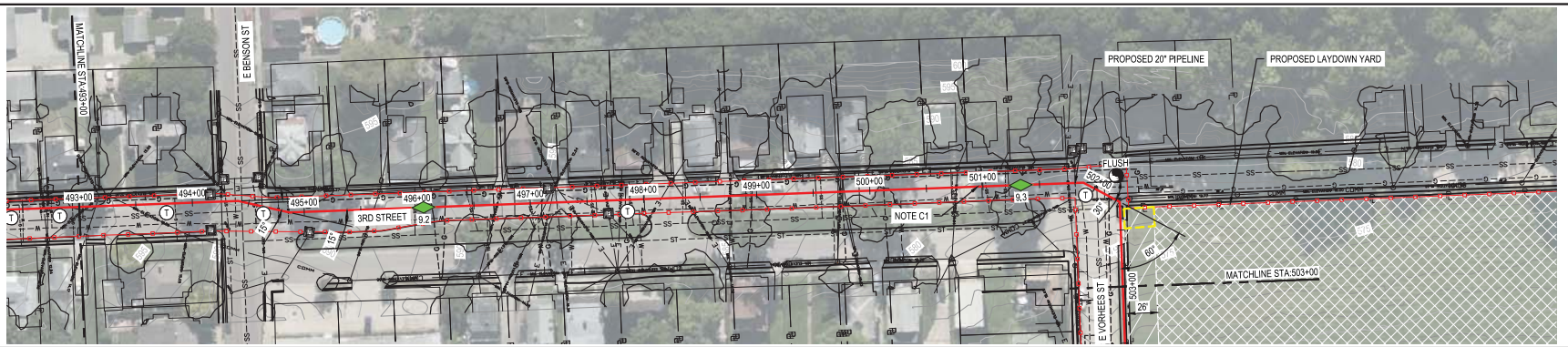
C/HAMILTON COUNTY/C350

OWNERSHIP	ROW
JURISDICTION	READING
ACREAGE	
EASEMENTS	
REF. DWG. NO.	PNG-C-350-0001312 / PNG-C-350-0001293

STATIONING

STA. 494+41 BEND 15° (H-R-T) 3° SAG BEND (V)
STA. 494+67 BEND 15° (H-L-T) 3° SAG BEND (V)
STA. 495+49 4° OVERBEND (V)
STA. 496+75 1° SAG BEND (V)
STA. 501+59 7° OVERBEND (V)
STA. 501+69 FTG 30° (H-R-T) 8° SAG BEND (V)
STA. 502+25 FTG 60° (H-R-T) 3° OVERBEND (V)

PLAN



HORIZONTAL SCALE: 1" = 50'

RESTORE

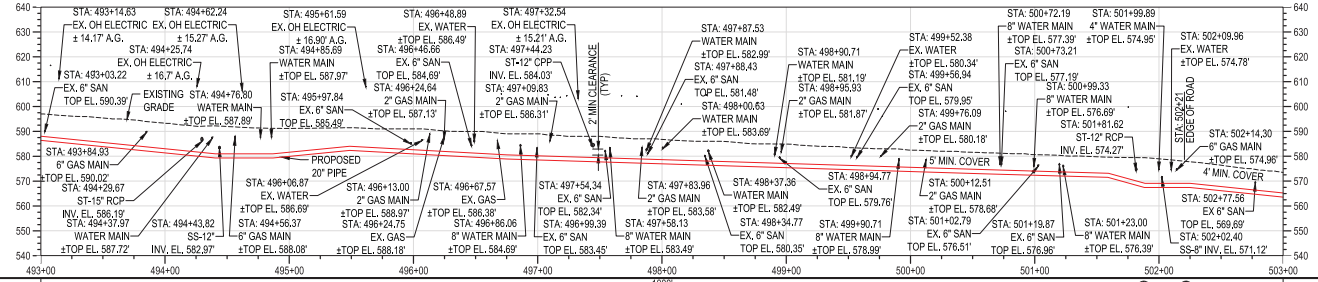
TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295	
SURFACE TYPE:	FOR RESTORATION TYPE DETAIL	SEED - ROUGH, SIDEWALK TO MATCH EXISTING

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (CSA)	JOINT #	WELD #	STA.

NOTES:
1. OVERHEAD ELECTRIC LABELS NOT SHOWN FOR CLARITY.

PROFILE



HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 25'

CONSTRUCTION NOTES:
C1. PIPELINE SHALL BE INSTALLED AT LEAST 15-FEET FROM BUILDINGS, UNLESS APPROVED BY DUKE ENERGY.

C2. TRENCH BACKFILL TYPE F SHALL BE USED WHEN ALIGNMENT PASSES OVERTOP SANITARY SEWER LATERALS.

MATERIAL	1000' (1) (11) (10)
CONST. METHOD	OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION		APPROVALS		
AREA CODE	-	DATE -	INITIALS -	REGIONAL ENGINEER
ACCOUNT NUMBER	Q3680			
PROJECT NUMBER	1880115	DATE -	INITIALS -	MGR TECH REC & STD
DRAWING BY	AKT			
STATION ID	C350	DATE 11/18/2020	INITIALS AMP	PRINCIPAL ENGINEER
CHECKER INITIALS	CNS			

STATE OF OHIO
AMANDA PALM
E-84075
REGISTERED PROFESSIONAL ENGINEER
11/18/2020
PROFESSIONAL ENGINEER STAMP

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ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S)	47 OF 64
DWG SCALE	AS NOTED
DWG DATE	01/13/2020
SUPERSEDED	—
DRAWING NUMBER	PNG -C-350-0001225
REVISION	0

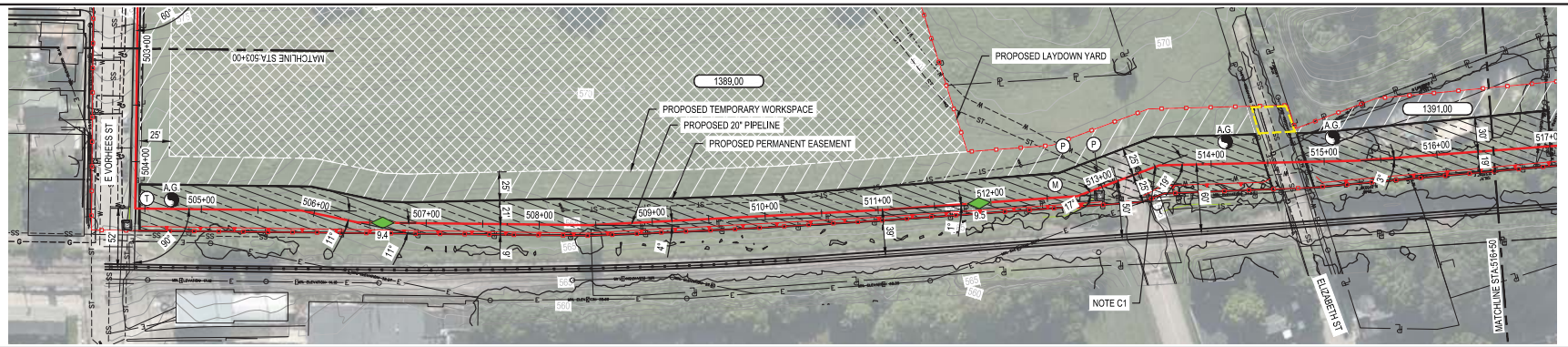
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY						
OWNERSHIP	ROW	1389.00		ROW	1391.00	
JURISDICTION	READING	READING		READING	READING	
ACREAGE		0.7998 ACRES			3.0466 ACRES	
EASEMENTS		VARIES			VARIES	
REF. DWG. NO.		PNG-C-350-0001171	PNG-C-350-0001312			

STATIONING

STA: 504+41 FTG 90° (H-LT) 3° SAG BEND (V) | STA: 505+88 11° BEND (H-RT) | STA: 506+40 11° BEND (H-LT) | STA: 508+46 4° BEND (H-LT) | STA: 511+07 1° BEND (H-LT) | STA: 512+27 5° OVERBEND (V) | STA: 512+77 BEND 17° (H-LT) 4° SAG BEND (V) | STA: 513+54 19° BEND (H-RT) | STA: 514+79 9° SAG BEND (V) | STA: 515+30 BEND 3° (H-LT) 9° OVERBEND (V)

PLAN



RESTORE

TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	E	D	E	C	E
SURFACE TYPE:		SEED - ROUGH	1	SEED - ROUGH	C	SEED - ROUGH

PIPE DATA (SLOPE STATIONING)

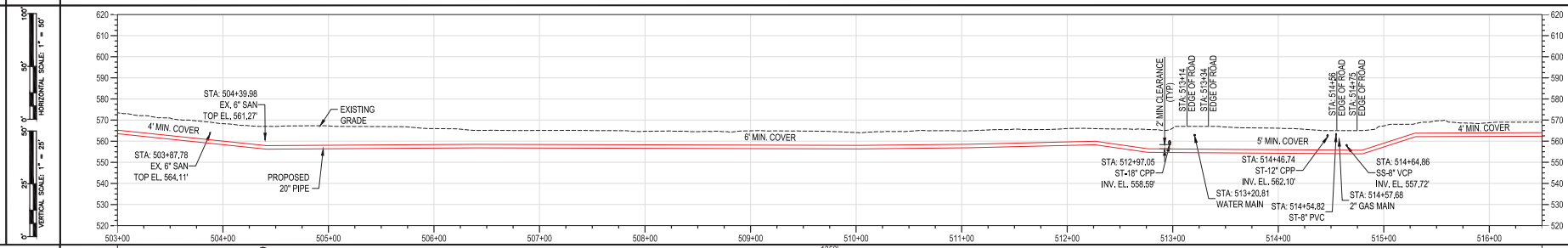
STA.	WELD #	(CON.)	JOINT LENGTH	(CON.)	WELD #	STA.

CONSTRUCTION NOTES:

C1. PIPELINE SHALL MAINTAIN 25-FOOT CLEARANCE FROM HIGH VOLTAGE OVERHEAD ELECTRIC WHERE POSSIBLE.

C2. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES, SEE DRAWING PNG-350-0001312.

PROFILE



MATERIAL	(10)	1350' (1)	
CONST. METHOD		OPEN TRENCH	
CLASS / MAOP		CLASS 4 / MAOP 500 PSIG	

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS	
	-	-	REGIONAL ENGINEER
	-	-	MGR TECH REC & STD
	11/18/2020	AMP	PRINCIPAL ENGINEER

STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020
PROFESSIONAL ENG/ARCH STAMP

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HAMILTON COUNTY, OH

SHEET(S)	48 OF 64	DWG SCALE	AS NOTED
DWG DATE	01/13/2020	SUPERSEDED	—
DRAWING NUMBER	PNG -C-350-0001226	REVISION	0

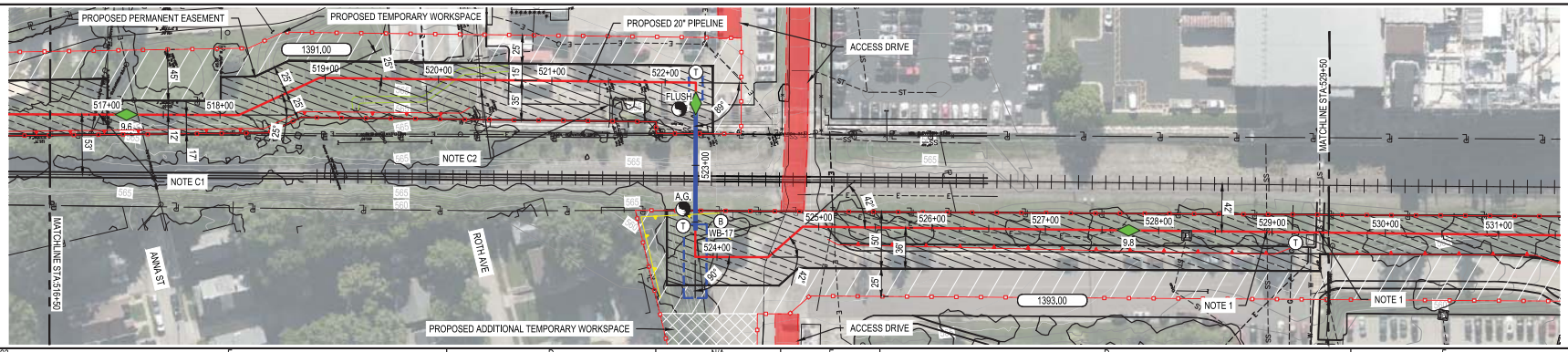
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY				
OWNERSHIP	1391.00 READING	S.O.R.T.A. ROW READING	1393.00 READING	
JURISDICTION				
ACREAGE	3.0466 ACRES		3.0466 ACRES	
EASEMENTS	50' EASEMENT		50' EASEMENT	
REF. DWG. NO.	PNG-C-350-0001312	PNG-C-350-0001262	PNG-B-350-0001015 PNG-C-350-0001171	PNG-C-350-0001293

STATIONING

STA. 516+69 3° OVERBEND (V) | STA. 517+22 3° SAG BEND (V) | STA. 518+17 FTG 25° (H-LT) 4° OVERBEND (V) | STA. 518+55 4° SAG BEND (V) | STA. 518+96 FTG 25° (H-RT) 1° SAG BEND (V) | STA. 520+11 3° SAG BEND (V) | STA. 520+76 3° OVERBEND (V) | STA. 521+91 9° OVERBEND (V) | STA. 522+27 FTG 89° (H-RT) 8° SAG BEND (V) | STA. 523+80 FTG 90° (H-LT) 2° SAG BEND (V) | STA. 524+45 42° FTG (H-LT) | STA. 524+86 FTG 42° (H-RT) 3° OVERBEND (V) | STA. 528+09 3° OVERBEND (V) | STA. 528+75 3° SAG BEND (V) | STA. 529+16 7° SAG BEND (V)

PLAN



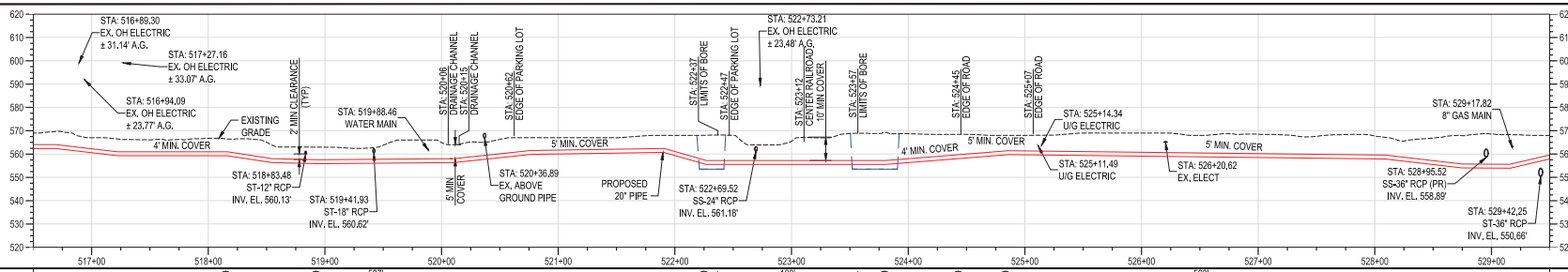
RESTORE

TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	E	D	N/A	E	D	F
SURFACE TYPE:		SEED - ROUGH	1	N/A	SEED - ROUGH	1	1

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH	WELD #	STA.
		(CSA)		

PROFILE



NOTE:
1. USE FLOWABLE FILL AROUND PIPE BENEATH 36" PIPE TO PREVENT FLOW OF WATER ALONG PIPELINE, SEE BACKFILL DETAIL ON DWG PNG-C-350-0001293.

CONSTRUCTION NOTES:
C1. PIPELINE SHALL MAINTAIN 25-FOOT CLEARANCE FROM HIGH VOLTAGE OVERHEAD ELECTRIC WHERE POSSIBLE.
C2. ABOVE GROUND PIPING TO BE AVOIDED AND ACCESS TO THE PIPING SHALL BE MAINTAINED.
C3. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES, SEE DRAWING PNG-C-350-0001312.

MATERIAL	(11)	(11)	(10)	(10)	(11)	(11)	
CONST. METHOD	587' (1) OPEN TRENCH		120' (2) BORE			583' (1) OPEN TRENCH	
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG						

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS	
	-	-	REGIONAL ENGINEER
	-	-	MGR TECH REC & STD
	11/18/2020	AMP	PRINCIPAL ENGINEER

STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020
PROFESSIONAL ENG/ARCH STAMP

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S)	49 OF 64
DWG SCALE	AS NOTED
DWG DATE	01/13/2020
SUPERSEDED	—
DRAWING NUMBER	PNG -C-350-0001227
REVISION	0

C/HAMILTON COUNTY/C350

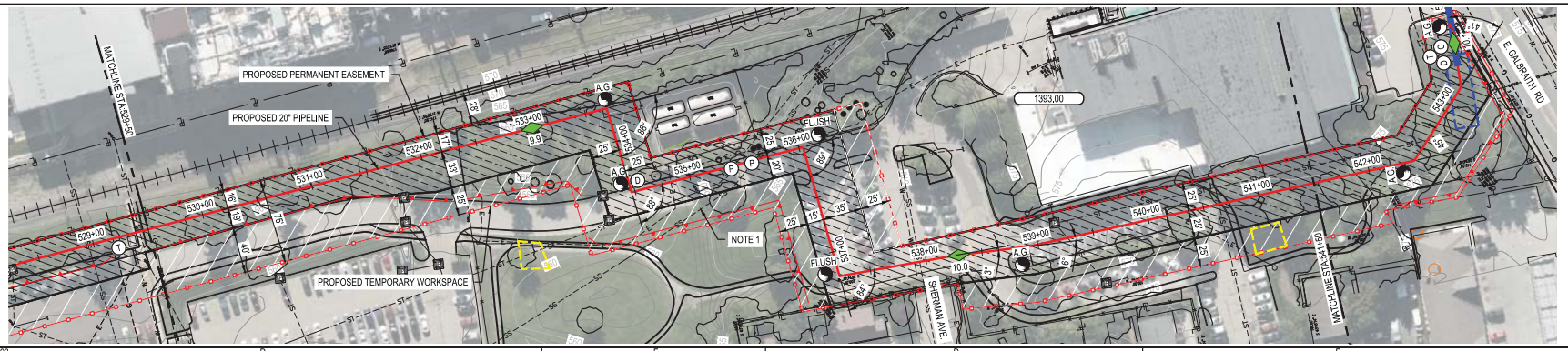
RIGHT-OF-WAY

OWNERSHIP	1393.00
JURISDICTION	READING
ACREAGE	3.0466 ACRES
EASEMENTS	50' EASEMENT
REF. DWG. NO.	PNG-C-350-0001293 PNG-C-350-0001312

STATIONING

STA: 529+57.7° OVERBEND (V)
STA: 531+98.1° SAG BEND (V)
STA: 532+84.7° OVERBEND (V)
STA: 533+69 FTG 88° (H-RT) 5° SAG BEND (V)
STA: 534+47 FTG 88° (H-LT) 6° OVERBEND (V)
STA: 535+12.7° SAG BEND (V)
STA: 535+52.16° SAG BEND (V)
STA: 536+04 FTG 89° (H-RT) 14° OVERBEND (V)
STA: 537+22.5 FTG 84° (H-LT) 5° OVERBEND (V)
STA: 537+78.3° SAG BEND (V)
STA: 538+24 BEND 3° (H-RT) 2° SAG BEND (V)
STA: 538+92 BEND 6° (H-LT) 1° OVERBEND (V)
STA: 540+74.2° SAG BEND (V)

PLAN



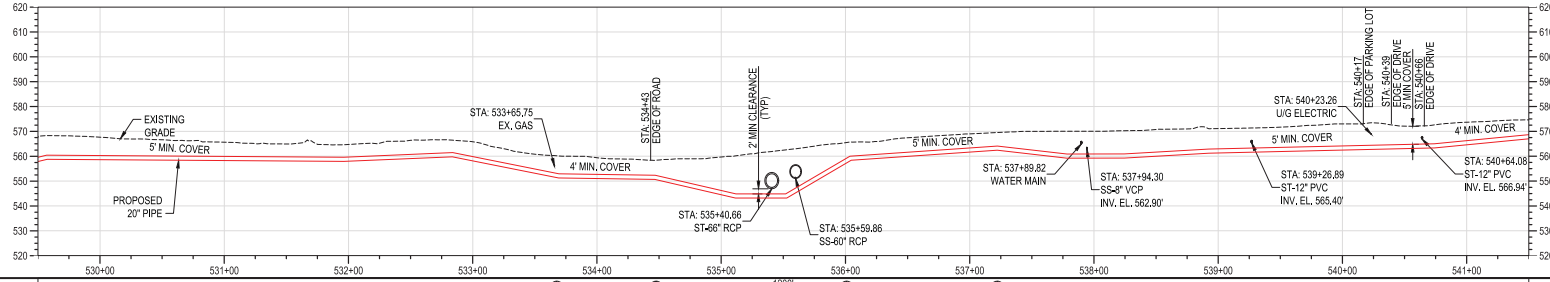
RESTORE

	D	F	D	E
TRENCH TYPE: SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295				
SURFACE TYPE: FOR RESTORATION TYPE DETAIL	1	SEED - FINE	1	SEED - FINE

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (CSA)	HEAT #	JOINT LENGTH (CSA)	WELD #	STA.

PROFILE



NOTE:
1. USE FLOWABLE FILL AROUND PIPE BENEATH 48" AND 60" PIPE TO PREVENT FLOW OF WATER ALONG PIPELINE, SEE BACKFILL DETAIL ON DWG PNG-C-350-0001293.

CONSTRUCTION NOTES:
C1. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES, SEE DRAWING PNG-C-350-0001312.

C2. AC MITIGATION SITE, SEE DRAWING PNG-E-350-0001024.

MATERIAL	1200'
CONST. METHOD	OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS	
	-	-	REGIONAL ENGINEER
	-	-	MGR TECH REC & STD
	11/18/2020	AMP	PRINCIPAL ENGINEER

STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020
PROFESSIONAL ENG/ARCH STAMP

DUKE ENERGY. Piedmont Natural Gas

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C350 PIPELINE ALIGNMENT PLAN & PROFILE HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S)	50 OF 64
DWG SCALE	AS NOTED
DWG DATE	01/13/2020
SUPERSEDED	—
DRAWING NUMBER	PNG -C-350-0001228
REVISION	0

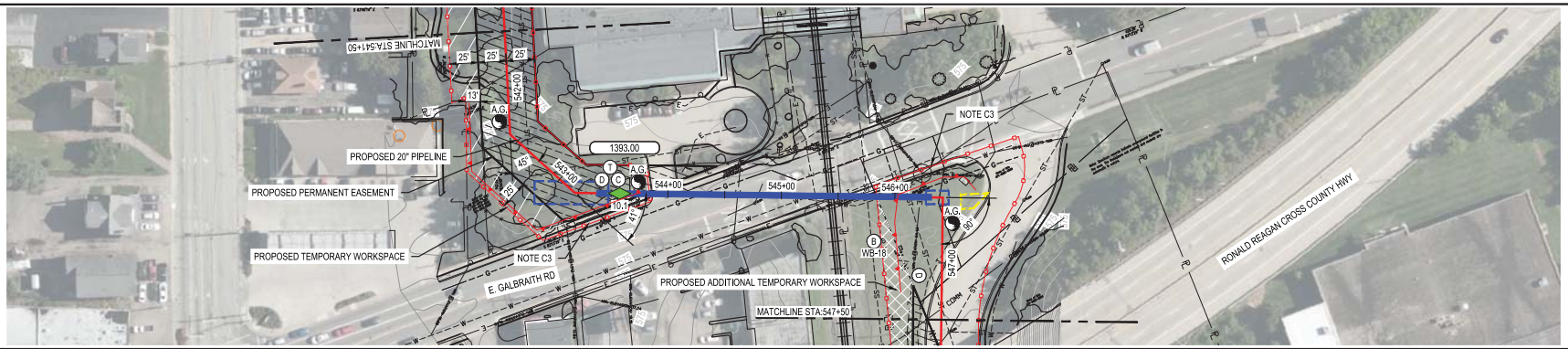
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY			
OWNERSHIP		1393.00 READING	ROW READING
JURISDICTION			
ACREAGE		3.0466 ACRES	
EASEMENTS		50' EASEMENT	
REF. DWG. NO.		PNG-B-350-0001014	PNG-C-350-0001263 PNG-C-350-0001312

STATIONING

STA. 541+67.4° OVERBEND (V)
STA. 542+41.45° FTG (H-LT)
STA. 543+18 FTG 41° (H-LT) 2° SAG BEND (V)
STA. 546+42.90° FTG (H-RT)
STA. 547+21.7° OVERBEND (V)

PLAN

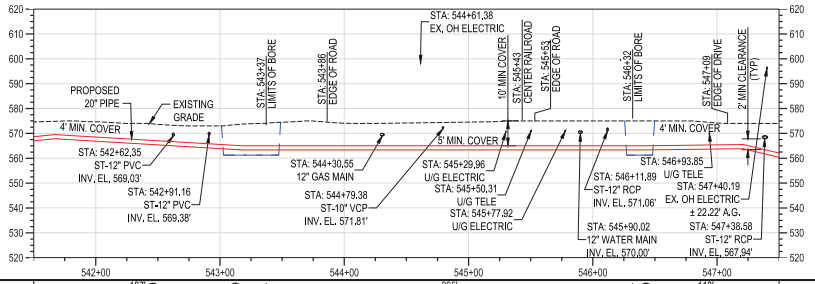


RESTORE				
TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	E	N/A	E
SURFACE TYPE:		SEED - FINE	N/A	SEED - ROUGH

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (CM)	JOINT #	WELD #	STA.

PROFILE



CONSTRUCTION NOTES:

C1. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES. SEE DRAWING PNG-C-350-0001312.

C2. AC MITIGATION SITE, SEE DRAWING PNG-E-350-0001024.

C3. WATER FILLED BARRIERS SHALL BE PLACED OUTSIDE BORE PITS FOR TRAFFIC PROTECTION.

MATERIAL			
CONST. METHOD	187' (1) (11) OPEN TRENCH	(11)	295' (2) BORE (10)	118' (1) OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG			

PROFESSIONAL ENG/ARCH STAMP

STATE OF OHIO
AMANDA PALM
E-84075
REGISTERED PROFESSIONAL ENGINEER
11/18/2020

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION		APPROVALS		
AREA CODE	-	DATE -	INITIALS -	REGIONAL ENGINEER
ACCOUNT NUMBER	Q3680			
PROJECT NUMBER	1880115			MGR TECH REC & STD
DRAWING BY	AKT	DATE -	INITIALS -	
STATION ID	C350			
CHECKER INITIALS	CNS	DATE 11/18/2020	INITIALS AMP	PRINCIPAL ENGINEER

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REF. DWG(S) SEE REFERENCE BAND

C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S) 51 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001229	REVISION 0

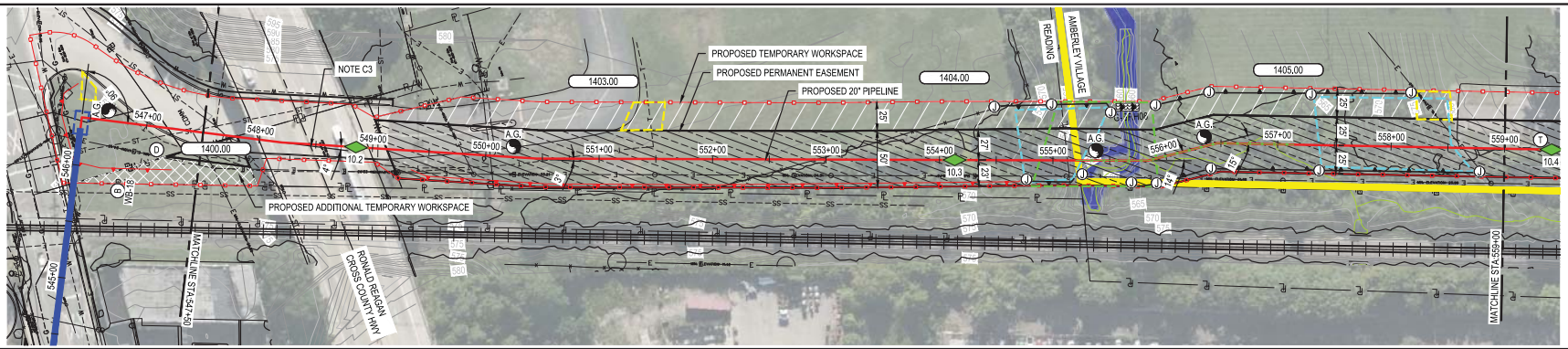
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY							
OWNERSHIP	ROW	1400.00	ROW	1403.00	1404.00	1405.00	
JURISDICTION	READING	READING	READING	READING	READING	AMBERLEY VILLIAGE	
ACREAGE		0.7132 ACRES		0.7132 ACRES		1.4610 ACRES	
EASEMENTS		VARIES		50' EASEMENT		50' EASEMENT	
REF. DWG. NO.	PNG-C-350-0001312			PNG-C-350-0001303			

STATIONING

STA: 547+78.17° SAG BEND (V)
STA: 548+20 BEND 4° (H-LT) 10° OVERBEND (V)
STA: 550+45.3° BEND (H-LT)
STA: 550+85.1° SAG BEND (V)
STA: 551+48.1° OVERBEND (V)
STA: 553+59.1° OVERBEND (V)
STA: 554+73.9° OVERBEND (V)
STA: 555+38.12° SAG BEND (V)
STA: 555+83.14° BEND (H-LT)
STA: 556+47.15° BEND (H-RT)
STA: 557+46.5° SAG BEND (V)

PLAN



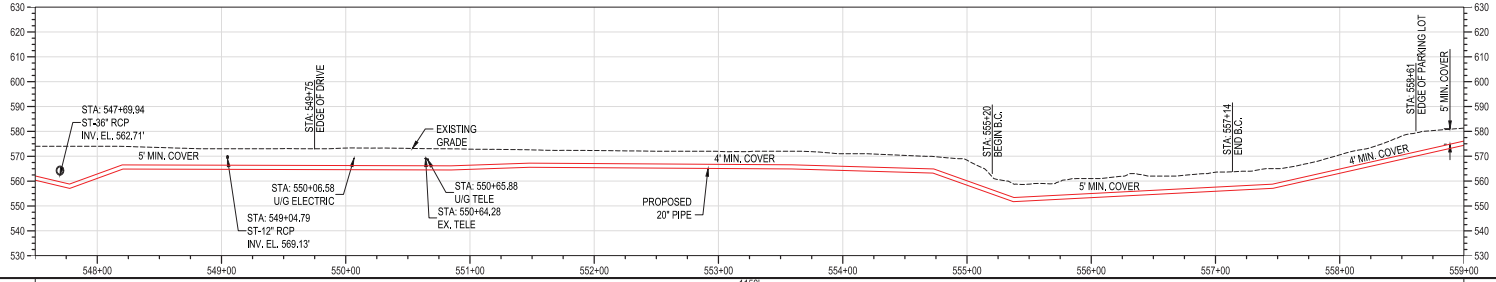
RESTORE

TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295	D	E
SURFACE TYPE:	FOR RESTORATION TYPE DETAIL	1	SEED - ROUGH

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH	WELD #	STA.
	(CON)	HEAT #	(CON)	

PROFILE



CONSTRUCTION NOTES:

C1. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES. SEE DRAWING PNG-C-350-0001312.

C2. AC MITIGATION SITE, SEE DRAWING PNG-E-350-0001024.

C3. CONTRACTOR SHALL NOT DISTURB OVERHEAD BRIDGE DECK OR APPURTENANCES.

MATERIAL	1150' (1) OPEN TRENCH
CONST. METHOD	
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS	
	-	-	REGIONAL ENGINEER
	-	-	MGR TECH REC & STD
	11/18/2020	AMP	PRINCIPAL ENGINEER

STATE OF OHIO
AMANDA PALM
E-84075
REGISTERED PROFESSIONAL ENGINEER
11/18/2020
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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S)	52 OF 64
DWG SCALE	AS NOTED
DWG DATE	01/13/2020
SUPERSEDED	—
DRAWING NUMBER	PNG -C-350-0001230
REVISION	0

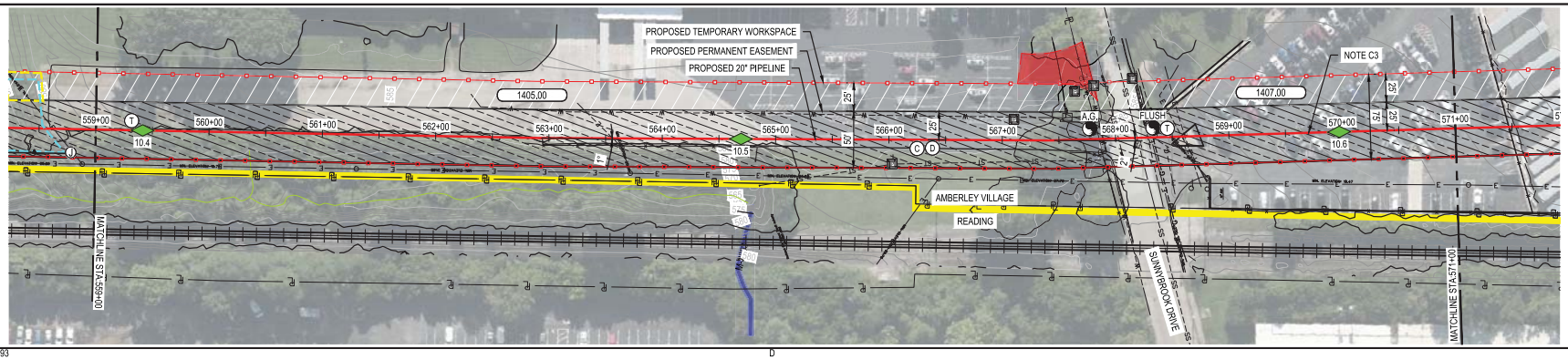
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY			
	OWNERSHIP		
	JURISDICTION	1405.00 AMBERLEY VILLAGE	1407.00 AMBERLEY VILLAGE
	ACREAGE	1.4610 ACRES	0.6564 ACRES
	EASEMENTS	50' EASEMENT	50' EASEMENT
	REF. DWG. NO.	PNG-C-350-0001312	PNG-C-350-0001293

STATIONING

STA: 559+01.6' OVERBEND (V)
STA: 562+90 BEND 1° (H-LT) 1° OVERBEND (V)
STA: 563+67.3° OVERBEND (V)
STA: 564+35.3° SAG BEND (V)
STA: 565+20.3° SAG BEND (V)
STA: 565+91.3° OVERBEND (V)
STA: 567+43.2° BEND (H-LT)
STA: 568+24.3° SAG BEND (V)
STA: 569+16.2° OVERBEND (V)

PLAN



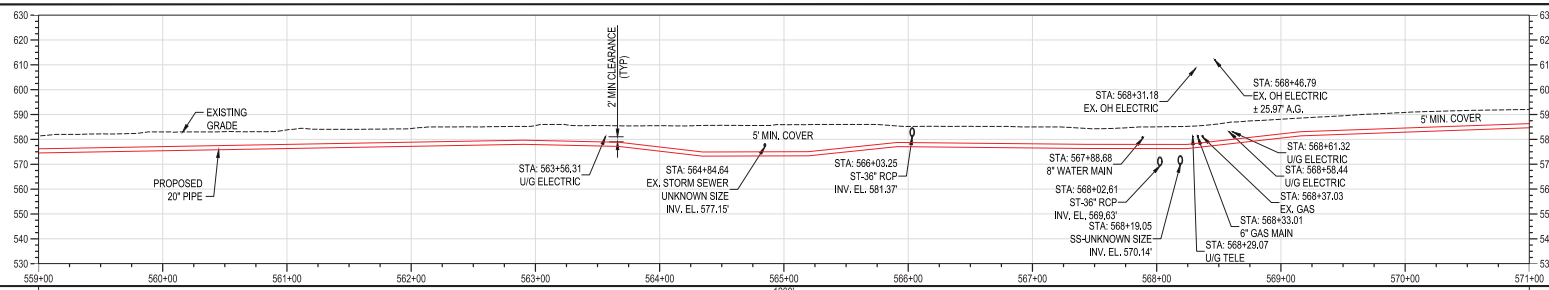
RESTORE

TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295
SURFACE TYPE:	FOR RESTORATION TYPE DETAIL

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (CSA)	HEAT # (CSA)

PROFILE



CONSTRUCTION NOTES:

C1. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES, SEE DRAWING PNG-C-350-0001312.

C2. AC MITIGATION SITE, SEE DRAWING PNG-E-350-0001024.

C3. EMPLOYEE PARKING LOT SHALL BE COMPLETELY RESTORED BEFORE ANY EXCAVATION ACTIVITIES BEGIN IN THE TRACTOR TRAILER PARKING LOT.

C4. TRENCH BACKFILL TYPE F SHALL BE USED WHEN ALIGNMENT PASSES OVERTOP SANITARY SEWER LATERALS.

MATERIAL	
CONST. METHOD	1200' (1) OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS
REGIONAL ENGINEER	-	-
MGR TECH REC & STD	-	-
PRINCIPAL ENGINEER	11/18/2020	AMP

STATE OF OHIO — AMANDA PALM — E-84075 — REGISTERED PROFESSIONAL ENGINEER — 11/18/2020
PROFESSIONAL ENG/ARCH STAMP

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ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S)	53 OF 64
DWG SCALE	AS NOTED
DWG DATE	01/13/2020
SUPERSEDED	—
DRAWING NUMBER	PNG -C-350-0001231
REVISION	0

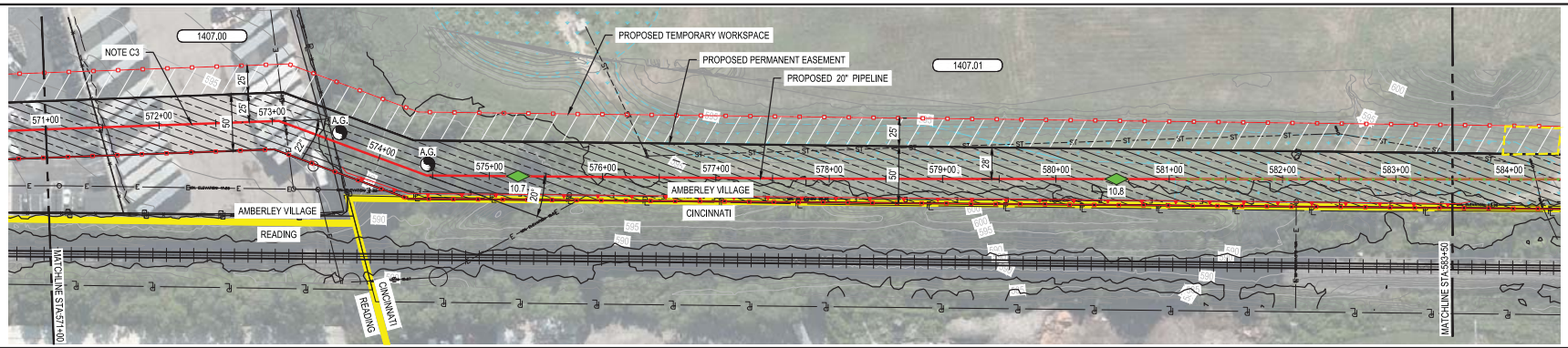
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY			
OWNERSHIP	1407.00	1407.01	
JURISDICTION	AMBERLEY VILLAGE	AMBERLEY VILLAGE	
ACREAGE	0.6564 ACRES	3.1226 ACRES	
EASEMENTS	50' EASEMENT	50' EASEMENT	
REF. DWG. NO.	PNG-C-350-0001312	PNG-C-350-0001303	

STATIONING

STA. 573+06 BEND 22° (+-4°) 1° SAG BEND (V)
STA. 573+65 10° OVERBEND (V)
STA. 574+05 7° SAG BEND (V)
STA. 574+45 BEND 20° (+-1°) 3° SAG BEND (V)
STA. 575+88 2° OVERBEND (V)
STA. 579+82 1° OVERBEND (V)
STA. 582+99 1° SAG BEND (V)

PLAN

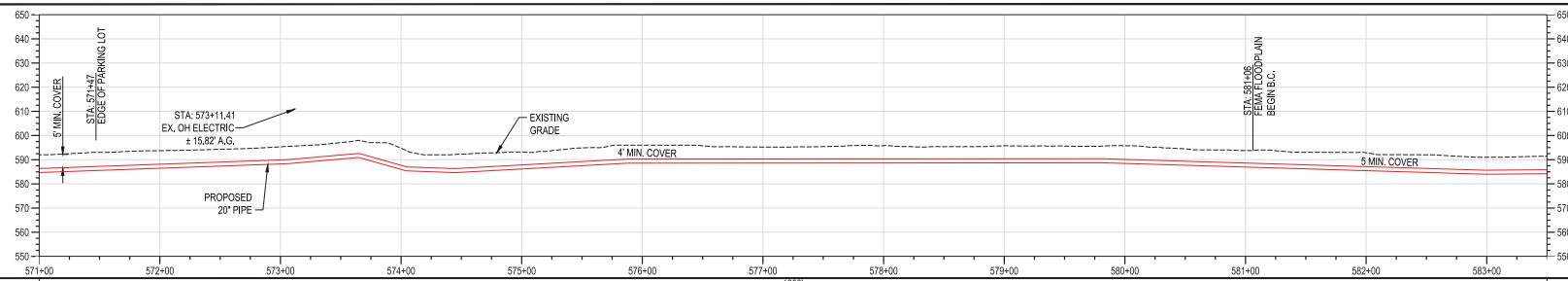


RESTORE				
TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295	D	E	
SURFACE TYPE:	FOR RESTORATION TYPE DETAIL	1	SEED - ROUGH	

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	(CON.)	JOINT LENGTH	(CON.)	JOINT #	HEAT #

PROFILE



CONSTRUCTION NOTES:

C1. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES. SEE DRAWING PNG-C-350-0001312.

C2. AC MITIGATION SITE, SEE DRAWING PNG-E-350-0001024.

C3. EMPLOYEE PARKING LOT SHALL BE COMPLETELY RESTORED BEFORE ANY EXCAVATION ACTIVITIES BEGIN IN THE TRACTOR TRAILER PARKING LOT.

MATERIAL	
CONST. METHOD	1250' (1) OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS
REGIONAL ENGINEER	-	-
MGR TECH REC & STD	-	-
PRINCIPAL ENGINEER	11/18/2020	AMP

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE CERTIFICATE OF AUTHORIZATION #

STATE OF OHIO
AMANDA PALM
E-84075
REGISTERED PROFESSIONAL ENGINEER
11/18/2020
PROFESSIONAL ENG/ARCH STAMP

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S)	54 OF 64
DWG SCALE	AS NOTED
DWG DATE	01/13/2020
SUPERSEDED	—
DRAWING NUMBER	PNG -C-350-0001232
REVISION	0

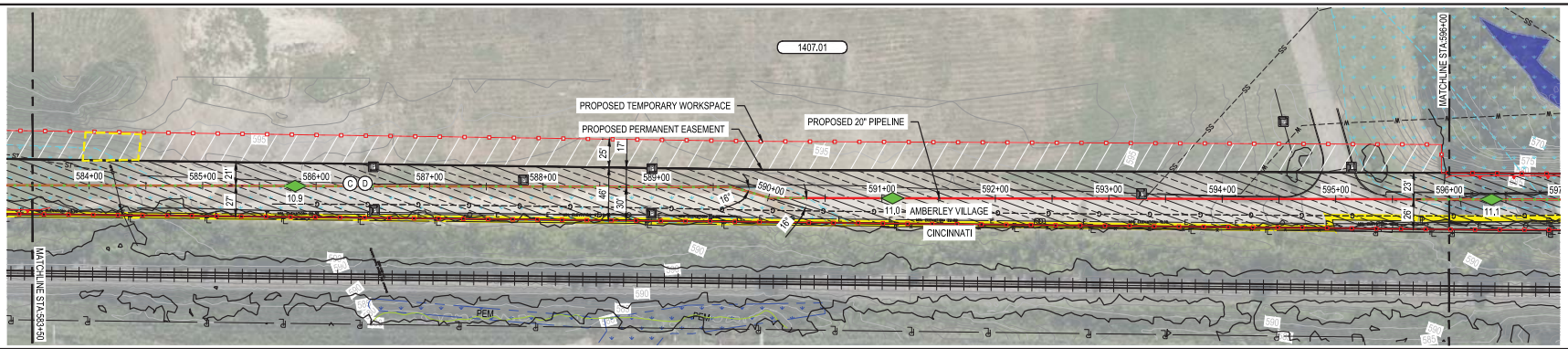
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY	
OWNERSHIP	1407.01
JURISDICTION	AMBERLEY VILLAGE
ACREAGE	3.1226 ACRES
EASEMENTS	VARIES
REF. DWG. NO.	PNG-C-350-0001303 / PNG-C-350-0001312 / PNG-C-350-0001303

STATIONING

STA: 584+34.1° SAG BEND (V)
STA: 585+00.1° OVERBEND (V)
STA: 589+67.16° BEND (H-RT)
STA: 590+01.16° BEND (H-LT)
STA: 593+10.1° OVERBEND (V)

PLAN



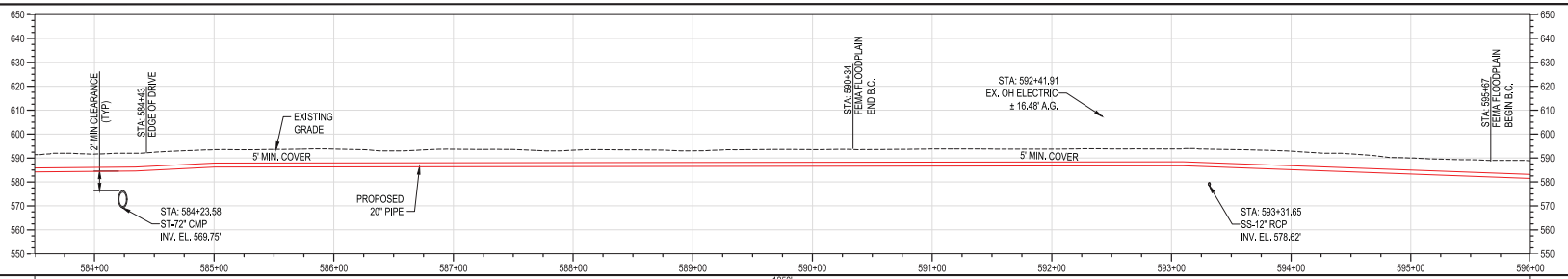
RESTORE

TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	E	D
SURFACE TYPE:	SEED - ROUGH		1

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	(CON.) LENGTH	JOINT	WELD #	STA.

PROFILE



CONSTRUCTION NOTES:

C1. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES. SEE DRAWING PNG-C-350-0001312.

C2. AC MITIGATION SITE. SEE DRAWING PNG-E-350-0001024.

MATERIAL	
CONST. METHOD	1250' (1) OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO CERTIFICATE OF AUTHORIZATION

STATE OF OHIO
AMANDA PALM
E-84075
REGISTERED PROFESSIONAL ENGINEER
11/18/2020
PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS	
	-	-	REGIONAL ENGINEER
	-	-	MGR TECH REC & STD
	11/18/2020	AMP	PRINCIPAL ENGINEER

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REF. DWG(S) SEE REFERENCE BAND

C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S) 55 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001233	REVISION 0

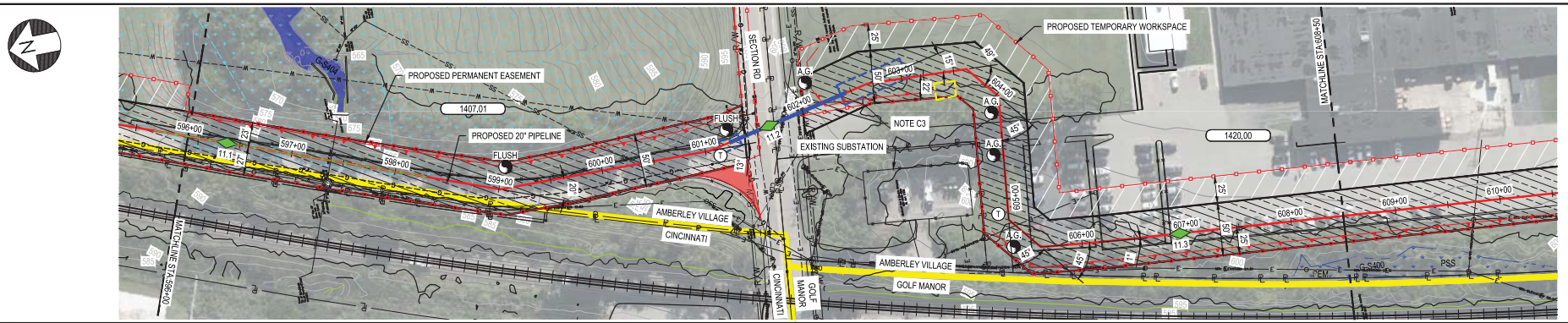
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY				
OWNERSHIP	1407.01	ROW	1420.00	
JURISDICTION	AMBERLEY VILLAGE	AMBERLEY VILLAGE	AMBERLEY VILLAGE	
ACREAGE	3.1226 ACRES		1.2432 ACRES	
EASEMENTS	50' EASEMENT		50' EASEMENT	
REF. DWG. NO.	PNG-C-004-0001303	PNG-C-350-0001312	PNG-C-004-0001264	

STATIONING

STA. 596+99 1° SAG BEND (V)
STA. 597+94 2° SAG BEND (V)
STA. 599+01 20° BEND (H-LT)
STA. 600+57 6° OVERBEND (V)
STA. 601+05 BEND 13° (H-LT) 14° SAG BEND (V)
STA. 602+67 BEND 15° (H-RT) 10° SAG BEND (V)
STA. 603+23 10° OVERBEND (V)
STA. 603+63 49° FTG (H-RT)
STA. 604+03 FTG 45° (H-RT) 1° OVERBEND (V)
STA. 605+21 FTG 45° (H-LT) 1° SAG BEND (V)
STA. 605+61 FTG 45° (H-LT) 1° SAG BEND (V)
STA. 606+13 1° BEND (H-LT)
STA. 607+15 1° OVERBEND (V)

PLAN



RESTORE

TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	D	N/A	E	D	E	D
SURFACE TYPE:		1	N/A	SEED - FINE	1	SEED - FINE	1

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	(CON.)	JOINT LENGTH	(CON.)	WELD #	STA.

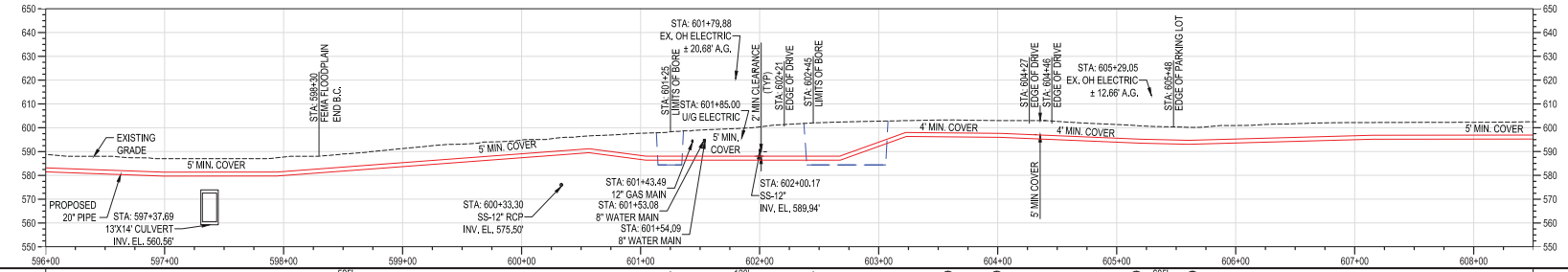
CONSTRUCTION NOTE:

C1. PIPELINE SHALL MAINTAIN 25-FOOT CLEARANCE FROM HIGH VOLTAGE OVERHEAD ELECTRIC WHERE POSSIBLE.

C2. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES, SEE DRAWING PNG-C-350-0001312.

C3. JERSEY BARRIER TO BE PLACED BETWEEN BORE PIT AND DRIVE AT LIMIT OF DISTURBANCE.

PROFILE



MATERIAL												
CONST. METHOD	525' (1) OPEN TRENCH				120' (2) BORE				605' (1) OPEN TRENCH			
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG											

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS	
	-	-	REGIONAL ENGINEER
	-	-	MGR TECH REC & STD
	11/18/2020	AMP	PRINCIPAL ENGINEER

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020
PROFESSIONAL ENG/ARCH STAMP

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S) 56 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001234	REVISION 0

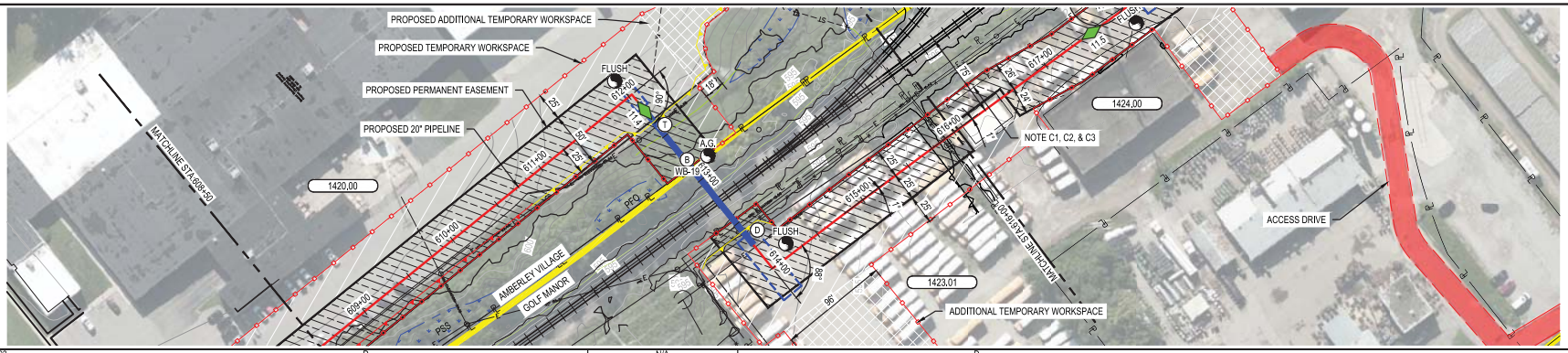
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY					
OWNERSHIP	1420.00	S.O.R.T.A. ROW	1423.01	1424.00	
JURISDICTION	AMBERLEY VILLAGE	GOLF MANOR	GOLF MANOR	GOLF MANOR	
ACREAGE	1.2432 ACRES		0.2795 ACRES	0.3642 ACRES	
EASEMENTS	50' EASEMENT		50' EASEMENT	VARIES	
REF. DWG. NO.	PNG-B-350-0001014	PNG-C-350-0001265	PNG-C-350-0001312	PNG-C-350-0001173	

STATIONING

STA: 610+41.1° OVERBEND (V)
STA: 611+27.6° OVERBEND (V)
STA: 612+03 FTG 90° (H-RT) 7° SAG BEND (V)
STA: 614+00 FTG 88° (H-LT) 4° SAG BEND (V)
STA: 614+77 BEND 1° (H-RT) 6° OVERBEND (V)
STA: 615+70 BEND 1° (H-RT) 2° SAG BEND (V)

PLAN



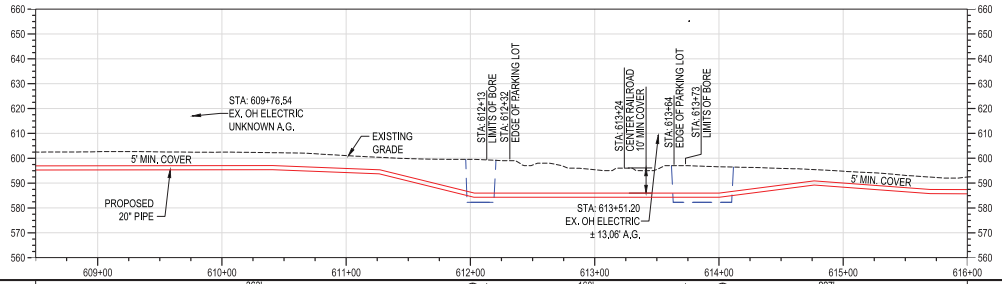
RESTORE

TRENCH TYPE:	SEE DWG PNG-C-350-0001293	D	N/A	D
SURFACE TYPE:	THROUGH PNG-C-350-0001295	1	N/A	1
	FOR RESTORATION TYPE DETAIL			

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (CSA)	JOINT #	HEAT #	JOINT LENGTH (CSA)	WELD #	STA.

PROFILE



MATERIAL				
CONST. METHOD	363' (1) OPEN TRENCH	(10)	160' (2) BORE	(10) 227' (1) OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG			

CONSTRUCTION NOTES:

C1. PIPELINE SHALL MAINTAIN 25-FOOT CLEARANCE FROM HIGH VOLTAGE OVERHEAD ELECTRIC WHERE POSSIBLE.

C2. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES, SEE DRAWING PNG-C-350-0001312.

C3. PIPELINE SHALL MAINTAIN A MINIMUM 25-FOOT CLEARANCE FROM CENTER OF RAILROAD TRACKS PER AREMA GUIDELINES. PIPELINE COVER SHALL BE 6-FEET WHEN LOCATED WITHIN 50-FEET OF RAILROAD CENTERLINE.

C4. AC MITIGATION SITE, SEE DRAWING PNG-E-350-0001024.

STATE OF OHIO
AMANDA PALM
E-84075
REGISTERED PROFESSIONAL ENGINEER
11/18/2020
PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS	
	-	-	REGIONAL ENGINEER
	-	-	MGR TECH REC & STD
	11/18/2020	AMP	PRINCIPAL ENGINEER

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REF. DWG(S) SEE REFERENCE BAND

C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S) 57 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER	REVISION
PNG -C-350-0001235	0

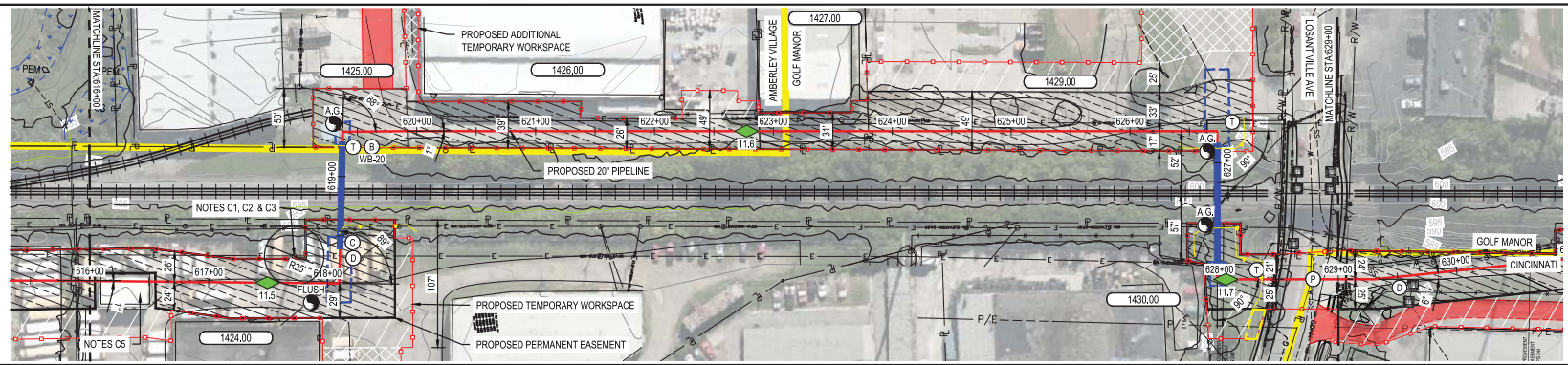
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY										
OWNERSHIP	1424.00	S.O.R.T.A. ROW	1425.00	1426.00	1427.00	1429.00	S.O.R.T.A. ROW	1430.00	ROW	
JURISDICTION	GOLF MANOR	GOLF MANOR	AMBERLEY VILLAGE	AMBERLEY VILLAGE	AMBERLEY VILLAGE	GOLF MANOR	GOLF MANOR	GOLF MANOR	GOLF MANOR / CINCINNATI	
ACREAGE	0.3642 ACRES		0.0906 ACRES	0.2881 ACRES		0.3553 ACRES		0.0889 ACRES		
EASEMENTS	VARIES		VARIES	VARIES		50' EASEMENT		VARIES		
REF. DWG. NO.	PNG-C-350-0001266			PNG-B-350-0001014		PNG-C-350-0001312		PNG-C-350-0001267	PNG-C-350-0001173	

STATIONING

STA: 618+10.89' FTG (H-LT)
STA: 619+38 FTG 89° (H-RT) (5' SAG BEND (V)
STA: 619+88 BEND 1° (H-RT) (5' OVERBEND (V)
STA: 625+43.5' OVERBEND (V)
STA: 626+43.5' SAG BEND (V)
STA: 626+73.90' FTG (H-RT)
STA: 627+98 FTG 90° (H-LT) (1.11' OVERBEND (V)
STA: 628+38.8' SAG BEND (V)

PLAN



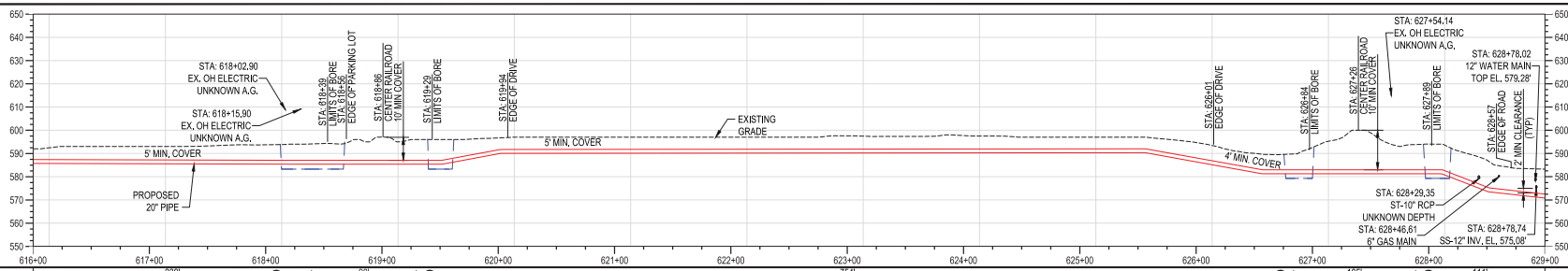
RESTORE

TRENCH TYPE: SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295	D	N/A	D	E	N/A	E	D
SURFACE TYPE: FOR RESTORATION TYPE DETAIL	1	N/A	1	SEED - ROUGH	N/A	SEED - ROUGH	4

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (CSA)	WELD #	STA.
618+10.89				
619+38				
619+88				
625+43.5				
626+43.5				
626+73.90				
627+98				
628+38.8				

PROFILE



MATERIAL	239'	90'	754'	105'	111'
CONST. METHOD	OPEN TRENCH	BORE	OPEN TRENCH	BORE	OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG				

CONSTRUCTION NOTES:

C1. PIPELINE SHALL MAINTAIN 25-FOOT CLEARANCE FROM HIGH VOLTAGE OVERHEAD ELECTRIC WHERE POSSIBLE.

C2. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES, SEE DRAWING PNG-C-350-0001312.

C3. PIPELINE SHALL MAINTAIN A MINIMUM 25-FOOT CLEARANCE FROM CENTER OF RAILROAD TRACKS PER AREMA GUIDELINES. PIPELINE COVER SHALL BE 6-FEET WHEN LOCATED WITHIN 50-FEET OF RAILROAD CENTERLINE.

C4. AC MITIGATION SITE. SEE DRAWING PNG-E-350-0001024.

C5. EXISTING BUILDING DEMOLITION UNDER NEGOTIATION. IF BUILDING STAYS, PIPELINE SHALL BE FIELD ADJUSTED TO THE EAST SIDE OF BUILDING.

PROFESSIONAL ENG/ARCH STAMP

STATE OF OHIO
AMANDA PALM
E-84075
REGISTERED PROFESSIONAL ENGINEER
11/18/2020

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS	
	-	-	REGIONAL ENGINEER
	-	-	MGR TECH REC & STD
	11/18/2020	AMP	PRINCIPAL ENGINEER

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

REF. DWG(S) SEE REFERENCE BAND

SHEET(S) 58 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER PNG -C-350-0001236	REVISION 0

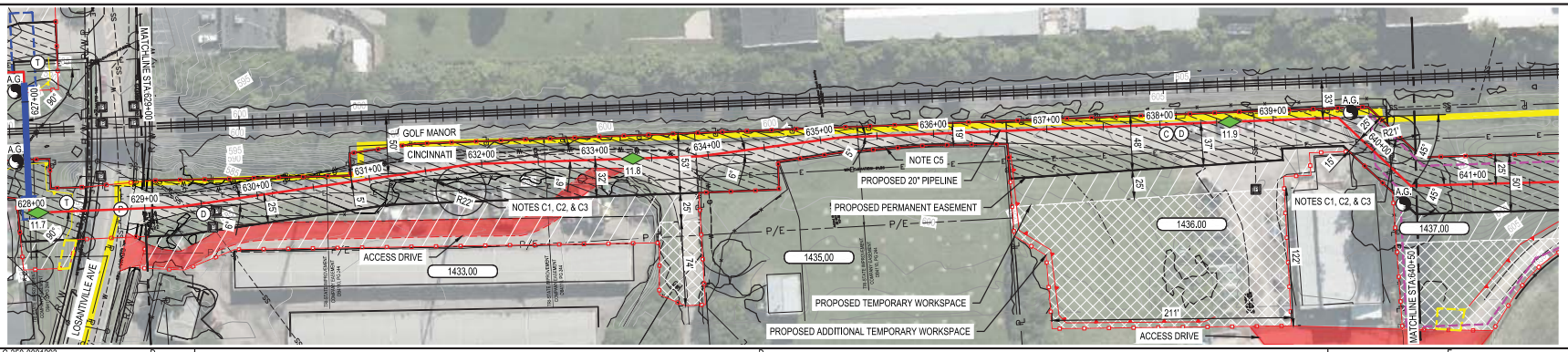
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY						
OWNERSHIP	ROW	1433.00	1435.00	1436.00	1437.00	
JURISDICTION	GOLF MANOR / CINCINNATI	CINCINNATI	CINCINNATI	CINCINNATI	CINCINNATI	
ACREAGE		0.5345 ACRES	0.1872 ACRES	1.8635 ACRES		
EASEMENTS		VARIES	VARIES	VARIES		
REF. DWG. NO.	PNG-C-350-0001312					

STATIONING

STA: 629+31 BEND 6° (H-LT) 8° SAG BEND (V)
STA: 630+99 3° OVERBEND (V)
STA: 631+91 BEND 6° (H-RT) 1° OVERBEND (V)
STA: 633+09 3° OVERBEND (V)
STA: 633+52 2° SAG BEND (V)
STA: 633+92 BEND 6° (H-LT) 5° SAG BEND (V)
STA: 634+38 3° OVERBEND (V)
STA: 635+18 BEND 5° (H-RT) 2° OVERBEND (V)
STA: 638+56 1° SAG BEND (V)
STA: 638+15.4° OVERBEND (V)
STA: 638+59 3° SAG BEND (V)
STA: 638+99 2° SAG BEND (V)
STA: 639+57 FTG 45° (H-RT) 2° OVERBEND (V)
STA: 640+45 45° FTG (H-LT)

PLAN



RESTORE

TRENCH TYPE:	D	D	E
SURFACE TYPE:	4	1	SEED - ROUGH

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (CON)	JOINT #	HEAT #
629+35.76	66	40'	1	1

CONSTRUCTION NOTES:

C1. PIPELINE SHALL MAINTAIN 25-FOOT CLEARANCE FROM HIGH VOLTAGE OVERHEAD ELECTRIC WHERE POSSIBLE. LOCATIONS WITH LESS CLEARANCE MUST BE APPROVED IN ADVANCE BY DUKE ELECTRIC ASSET PROTECTION.

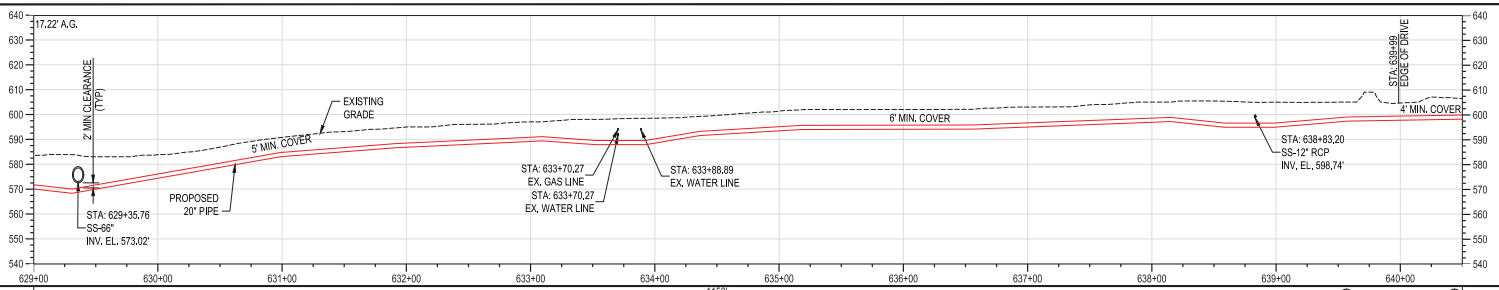
C2. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES, SEE DRAWING PNG-C-350-0001312.

C3. PIPELINE SHALL MAINTAIN A MINIMUM 25-FOOT CLEARANCE FROM CENTER OF RAILROAD TRACKS PER AREMA GUIDELINES. PIPELINE COVER SHALL BE 6-FEET WHEN LOCATED WITHIN 50-FEET OF RAILROAD CENTERLINE.

C4. AC MITIGATION SITE, SEE DRAWING PNG-E-350-0001024.

C5. CONTRACTOR SHALL NOT DISTURB EXISTING GROUNDWATER SEEPAGE WALL.

PROFILE



MATERIAL	1150' (1)	(11) (11)
CONST. METHOD	OPEN TRENCH	
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG	

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS	
	-	-	REGIONAL ENGINEER
	-	-	MGR TECH REC & STD
	11/18/2020	AMP	PRINCIPAL ENGINEER

STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020
PROFESSIONAL ENG/ARCH STAMP

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C350 PIPELINE ALIGNMENT PLAN & PROFILE HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S) 59 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER	REVISION
PNG -C-350-0001237	0

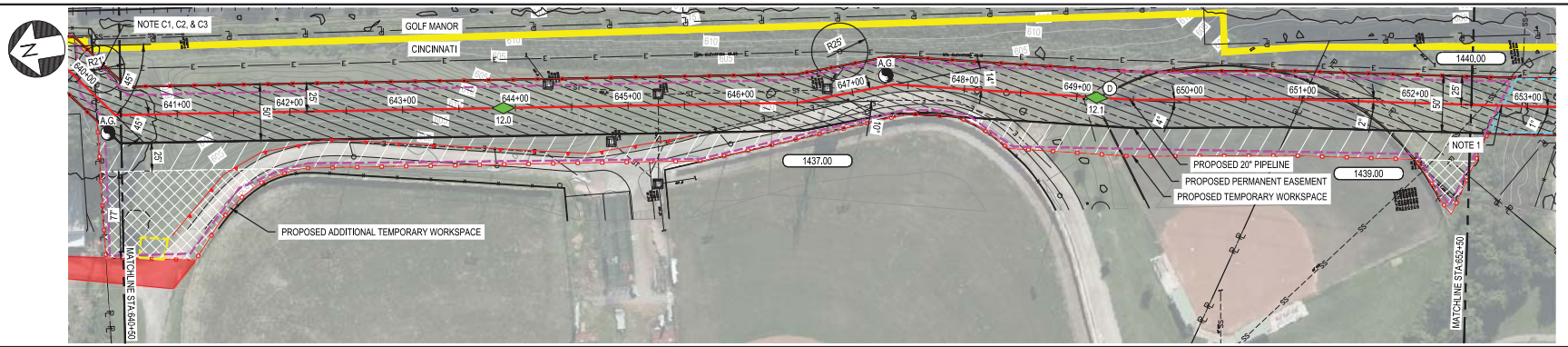
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY				
OWNERSHIP	1437.00		1439.00	1440.00
JURISDICTION	CINCINNATI		CINCINNATI	CINCINNATI
ACREAGE	1.8635 ACRES			
EASEMENTS	50' EASEMENT			
REF. DWG. NO.	PNG-C-350-0001312		PNG-C-350-0001305	

STATIONING

STA: 640+79.12° SAG BEND (V) | STA: 641+20.16° OVERBEND (V) | STA: 642+27.4° SAG BEND (V) | STA: 643+95.7° OVERBEND (V) | STA: 644+99.7° SAG BEND (V) | STA: 645+39.4° SAG BEND (V) | STA: 645+82.4° OVERBEND (V) | STA: 646+51.10° BEND (H-LT) | STA: 647+37.14° BEND (H-RT) | STA: 648+53.6° OVERBEND (V) | STA: 648+99.6° SAG BEND (V) | STA: 649+51.4° BEND (H-LT) | STA: 650+85.2° BEND (H-RT)

PLAN — HORIZONTAL SCALE: 1" = 50'



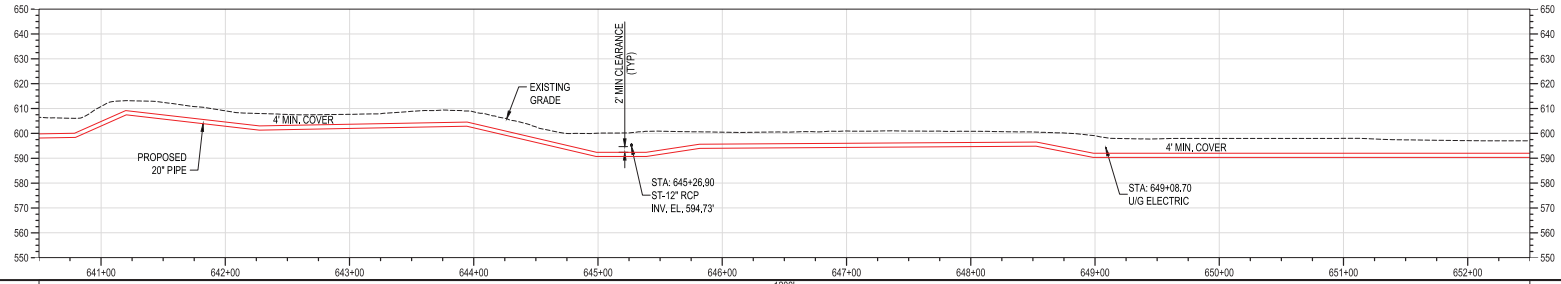
RESTORE				
TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	E	E	E
SURFACE TYPE:	SEED - ROUGH		SEED - FINE	SEED - ROUGH

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (CM)	JOINT #	STA.	WELD #	JOINT LENGTH (CM)	JOINT #

NOTES:
1. TRENCH PLUGS SHALL BE INSTALLED ON SLOPES AND TOE OF SLOPE TO MINIMIZE WATER SEEP ALONG PIPELINE FROM STA: 652+50 TO STA: 653+50.

PROFILE — HORIZONTAL SCALE: 1" = 50' / VERTICAL SCALE: 1" = 25'



CONSTRUCTION NOTES:
- C1. PIPELINE SHALL MAINTAIN 25-FOOT CLEARANCE FROM HIGH VOLTAGE OVERHEAD ELECTRIC WHERE POSSIBLE.
- C2. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES, SEE DRAWING PNG-C-350-0001312.
- C3. PIPELINE SHALL MAINTAIN A MINIMUM 25-FOOT CLEARANCE FROM CENTER OF RAILROAD TRACKS PER AREMA GUIDELINES. PIPELINE COVER SHALL BE 6-FEET WHEN LOCATED WITHIN 50-FEET OF RAILROAD CENTERLINE.
- C4. AC MITIGATION SITE, SEE DRAWING PNG-E-350-0001024.

MATERIAL	1200' (1)
CONST. METHOD	OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION		APPROVALS		
AREA CODE	-	DATE -	INITIALS -	REGIONAL ENGINEER
ACCOUNT NUMBER	Q3680			
PROJECT NUMBER	1880115			MGR TECH REC & STD
DRAWING BY	AKT	DATE -	INITIALS -	
STATION ID	C350			
CHECKER INITIALS	CNS	DATE 11/18/2020	INITIALS AMP	PRINCIPAL ENGINEER

STATE OF OHIO — AMANDA PALM — E-84075 — REGISTERED PROFESSIONAL ENGINEER — 11/18/2020
PROFESSIONAL ENG/ARCH STAMP

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S)	60 OF 64
DWG SCALE	AS NOTED
DWG DATE	01/13/2020
SUPERSEDED	—
DRAWING NUMBER	PNG -C-350-0001238
REVISION	0

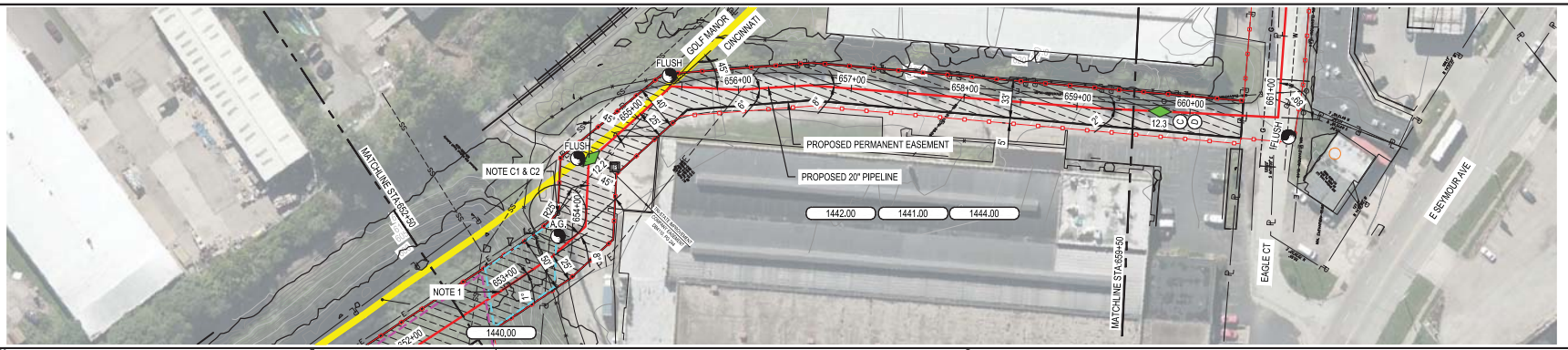
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY			
	OWNERSHIP	1440.00	1442.00 / 1441.00 / 1444.00
	JURISDICTION	CINCINNATI	CINCINNATI
	ACREAGE	1.8635 ACRES	0.5854 ACRES
	EASEMENTS	50' EASEMENT	VARIES
	REF. DWG. NO.	PNG-C-350-0001305	PNG-C-350-0001312

STATIONING

STA: 652+89 BEND 1° (H-LT) 20' SAG BEND (V)
STA: 653+44 BEND 8° (H-LT) 19' OVERBEND (V)
STA: 653+84 45° FTG (H-LT)
STA: 654+42 45° FTG (H-RT)
STA: 655+41 45° FTG (H-RT)
STA: 655+99 6° BEND (H-LT)
STA: 656+63 8° BEND (H-RT)
STA: 659+18.2° BEND (H-LT)

PLAN



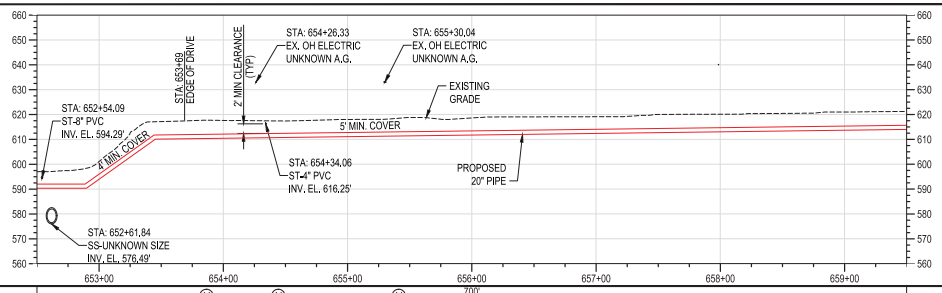
RESTORE

TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295 FOR RESTORATION TYPE DETAIL	E	D
SURFACE TYPE:		SEED - ROUGH	1

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (CSA)	JOINT LENGTH (CSA)	WELD #	STA.

PROFILE



NOTES:
1. TRENCH PLUGS SHALL BE INSTALLED ON SLOPES AND TOE OF SLOPE TO MINIMIZE WATER SEEP ALONG PIPELINE FROM STA: 652+50 TO STA: 653+50.

CONSTRUCTION NOTES:
C1. PIPELINE SHALL MAINTAIN 25-FOOT CLEARANCE FROM HIGH VOLTAGE OVERHEAD ELECTRIC WHERE POSSIBLE.

C2. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES. SEE DRAWING PNG-C-350-0001312.

C3. AC MITIGATION SITE, SEE DRAWING PNG-E-350-0001024.

MATERIAL	OPEN TRENCH
CONST. METHOD	
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION		APPROVALS		
AREA CODE	-	DATE -	INITIALS -	REGIONAL ENGINEER
ACCOUNT NUMBER	Q3680			
PROJECT NUMBER	1880115	DATE -	INITIALS -	MGR TECH REC & STD
DRAWING BY	AKT			
STATION ID	C350	DATE 11/18/2020	INITIALS AMP	PRINCIPAL ENGINEER
CHECKER INITIALS	CNS			

BURNS & MCDONNELL ENGINEERING COMPANY, INC. STATE OF OHIO CERTIFICATE OF AUTHORIZATION NO. 6

STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020

PROFESSIONAL ENG/ARCH STAMP

DUKE ENERGY. Piedmont Natural Gas

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S) 61 OF 64	DWG SCALE AS NOTED		
DWG DATE 01/13/2020	SUPERSEDED —		
DRAWING NUMBER PNG -C-350-0001239	REVISION 0		

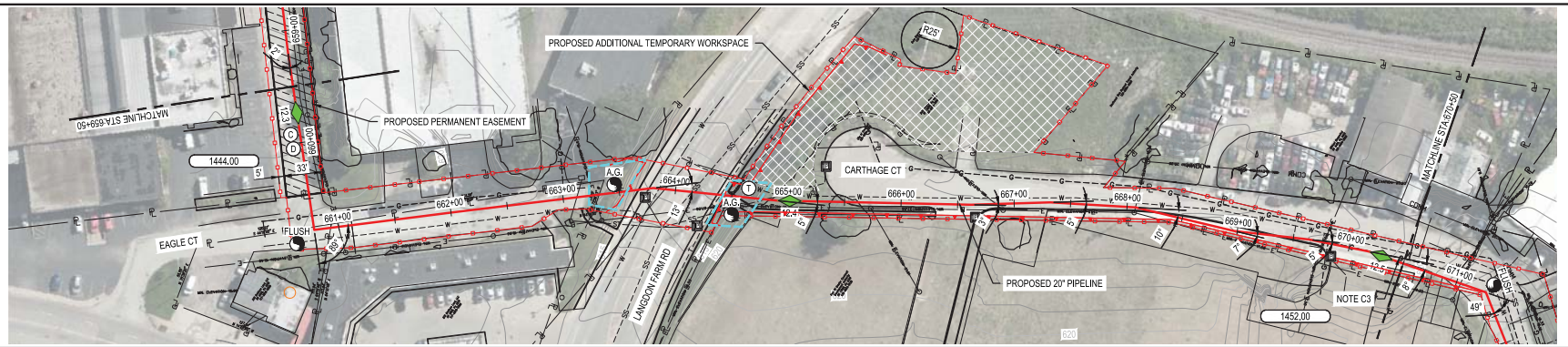
C/HAMILTON COUNTY/C350

RIGHT-OF-WAY				
OWNERSHIP	1444.00	ROW	ROW	
JURISDICTION	CINCINNATI	CINCINNATI	CINCINNATI	
ACREAGE	0.5854 ACRES			
EASEMENTS	VARIES			
REF. DWG. NO.				

STATIONING

STA: 659+99.5° OVERBEND (V)
STA: 660+47.5° SAG BEND (V)
STA: 660+78.89° FTG (H-LT)
STA: 663+39.9 OVERBEND (V)
STA: 663+90 BEND 13° (H-RT) 9° SAG BEND (V)
STA: 664+46.15° SAG BEND (V)
STA: 664+90 BEND 5° (H-LT) 15° OVERBEND (V)
STA: 666+62.3° BEND (H-LT)
STA: 667+22.5° BEND (H-RT)
STA: 668+07 BEND 10° (H-RT) 1° OVERBEND (V)
STA: 668+97.7° BEND (H-LT)
STA: 669+64.5° BEND (H-RT)
STA: 670+17 BEND 8° (H-RT) 3° OVERBEND (V)

PLAN



RESTORE									
TRENCH TYPE:	SEE DWG PNG-C-350-0001293	D	D	E	D	E	D		
SURFACE TYPE:	THROUGH PNG-C-350-0001295	1	4	SEED - ROUGH	4	SEED - ROUGH	4		
	FOR RESTORATION TYPE DETAIL								

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (DIA)	JOINT HEAT	STA.	WELD #	JOINT LENGTH (DIA)	JOINT HEAT
659+99.5	1	40		664+40.1	10	40	
660+47.5	2	40		664+79.67	11	40	
660+78.89	3	40		665+52	12	40	
663+39.9	4	40		666+83.80	13	40	
663+90	5	40		668+07.45	14	40	
664+46.15	6	40		669+64.5	15	40	
664+90	7	40		670+17	16	40	
664+08.10	8	40					
664+14.75	9	40					

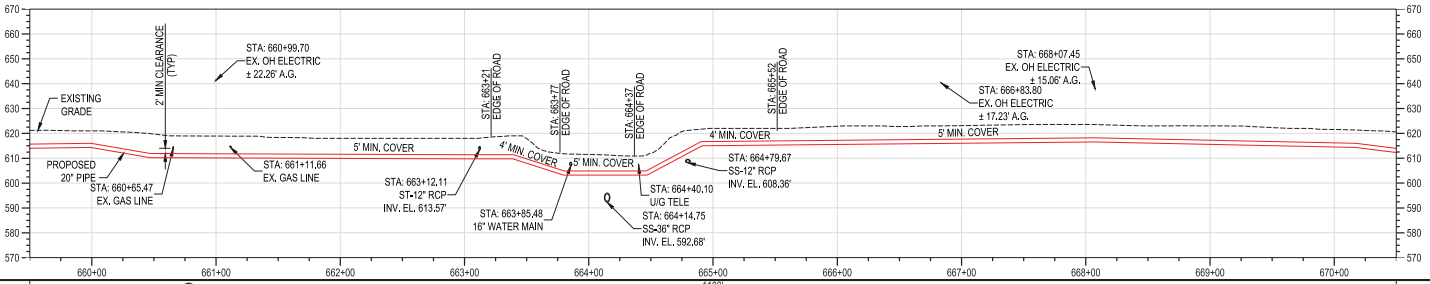
CONSTRUCTION NOTE:

C1. PIPELINE SHALL MAINTAIN 25-FOOT CLEARANCE FROM HIGH VOLTAGE OVERHEAD ELECTRIC WHERE POSSIBLE.

C2. CONTRACTOR SHALL GROUND PIPE PER DUKE STANDARDS IN PROXIMITY TO HIGH VOLTAGE OVERHEAD ELECTRIC LINES, SEE DRAWING PNG-C-350-0001312.

C3. CONTRACTOR SHALL REMOVE ABANDONED GAS MAIN BACK TO NEXT UPSTREAM SERVICE TAKEOFF TO ALLOW INSTALLATION OF C350 PIPELINE IN LOCATION PREVIOUSLY OCCUPIED BY GAS MAIN.

PROFILE



MATERIAL	10	1100' 1	
CONST. METHOD		OPEN TRENCH	
CLASS / MAOP		CLASS 4 / MAOP 500 PSIG	

REF. DWG(S) SEE REFERENCE BAND

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION		APPROVALS		
AREA CODE	-	DATE -	INITIALS -	REGIONAL ENGINEER
ACCOUNT NUMBER	Q3680			
PROJECT NUMBER	1880115	DATE -	INITIALS -	MGR TECH REC & STD
DRAWING BY	AKT			
STATION ID	C350	DATE 11/18/2020	INITIALS AMP	PRINCIPAL ENGINEER
CHECKER INITIALS	CNS			

STATE OF OHIO
AMANDA PALM
E-84075
REGISTERED PROFESSIONAL ENGINEER
11/18/2020
PROFESSIONAL ENG/ARCH STAMP

DUKE ENERGY. | Piedmont Natural Gas

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C350 PIPELINE
ALIGNMENT PLAN & PROFILE
HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S) 62 OF 64	DWG SCALE AS NOTED
DWG DATE 01/13/2020	SUPERSEDED —
DRAWING NUMBER	REVISION
PNG -C-350-0001240	0

C/HAMILTON COUNTY/C350

RIGHT-OF-WAY			
OWNERSHIP		ROW	1462.00
JURISDICTION		CINCINNATI	CINCINNATI
ACREAGE			0.1657 ACRES
EASEMENTS			VARIES
REF. DWG. NO.		PNG-C-350-0001312	

STATIONING

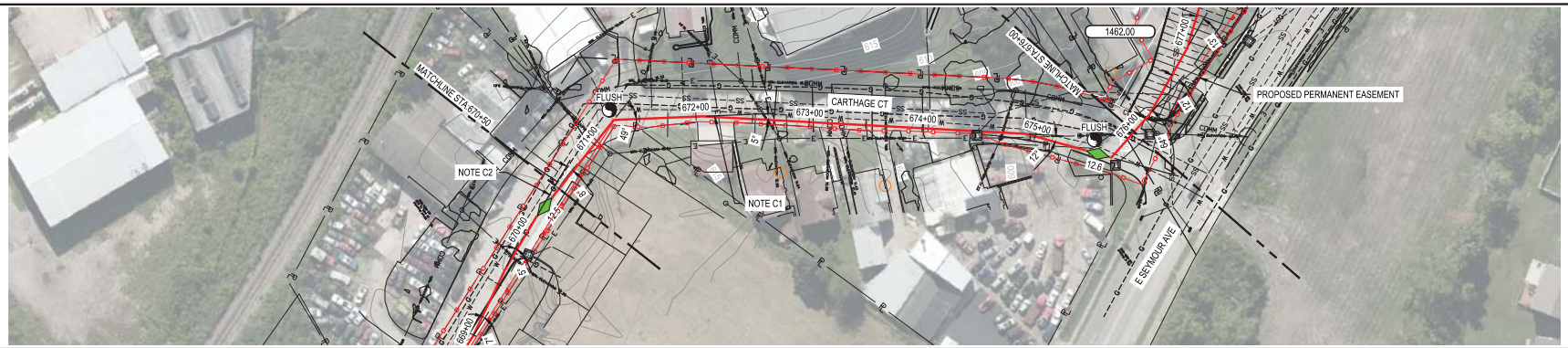
STA. 671+27.49° FTG (H-RT)

STA. 672+06 BEND 5° (H-RT) 1° SAG BEND (V)

STA. 674+91.12° BEND (H-RT)

STA. 675+70 FTG 64° (H-LT) 15° SAG BEND (V)

PLAN



HORIZONTAL SCALE: 1" = 50'

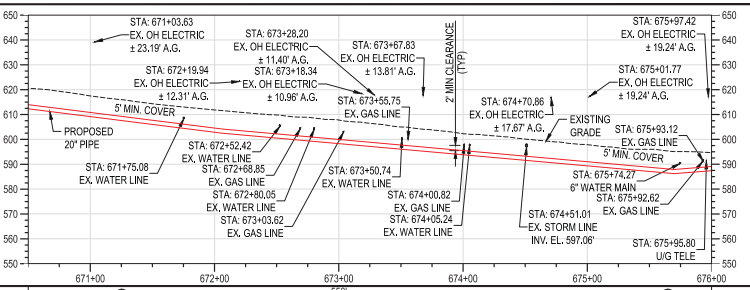
RESTORE

TRENCH TYPE:	SEE DWG PNG-C-350-0001293 THROUGH PNG-C-350-0001295
SURFACE TYPE:	FOR RESTORATION TYPE DETAIL

PIPE DATA (SLOPE STATIONING)

STA.	WELD #	JOINT LENGTH (CM)	JOINT WEIGHT (KG)

PROFILE



HORIZONTAL SCALE: 1" = 50'

VERTICAL SCALE: 1" = 25'

CONSTRUCTION NOTES:

C1. PIPELINE SHALL BE INSTALLED AT LEAST 15-FEET FROM BUILDINGS, UNLESS APPROVED BY DUKE ENERGY.

C2. CONTRACTOR SHALL REMOVE ABANDONED GAS MAIN BACK TO NEXT UPSTREAM SERVICE TAKEOFF TO ALLOW INSTALLATION OF C350 PIPELINE IN LOCATION PREVIOUSLY OCCUPIED BY GAS MAIN.

MATERIAL	550 (10) (1) (10)
CONST. METHOD	OPEN TRENCH
CLASS / MAOP	CLASS 4 / MAOP 500 PSIG

BURNS & MCDONNELL ENGINEERING COMPANY, INC. KANSAS CITY, MISSOURI

STATE OF OHIO AMANDA PALM E-84075 REGISTERED PROFESSIONAL ENGINEER 11/18/2020

PROFESSIONAL ENG/ARCH STAMP

NO.	DATE	REVISION(S) DESCRIPTION	BY	CHK	APPD
0	11/18/2020	ISSUED FOR CONSTRUCTION	AKT	CNS	AMP

DESCRIPTION	
AREA CODE	-
ACCOUNT NUMBER	Q3680
PROJECT NUMBER	1880115
DRAWING BY	AKT
STATION ID	C350
CHECKER INITIALS	CNS

APPROVALS	DATE	INITIALS	
	-	-	REGIONAL ENGINEER
	-	-	MGR TECH REC & STD
	11/18/2020	AMP	PRINCIPAL ENGINEER

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REF. DWG(S) SEE REFERENCE BAND

C350 PIPELINE ALIGNMENT PLAN & PROFILE HAMILTON COUNTY, OH

HAMILTON COUNTY, OH

SHEET(S)	63 OF 64
DWG SCALE	AS NOTED
DWG DATE	01/13/2020
SUPERSEDED	—
DRAWING NUMBER	PNG -C-350-0001241
REVISION	0

C/HAMILTON COUNTY/C350

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

12/4/2020 1:16:59 PM

in

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

Summary: Exhibit CCP Drawings for Preconstruction Conference Set 1 Part 3 electronically filed by Mrs. Debbie L Gates on behalf of Duke Energy Ohio Inc. and Kingery, Jeanne W and Vaysman, Larisa