

**West Manchester Township
Invitation to Bid
for the
Rainbow Circle Area Stormwater Repairs Project**

Proposals for construction services will be received by West Manchester Township (Township) for the open cut replacement of stormwater pipes in the area of Rainbow Cir until 11:00 AM prevailing time on October 20, 2023. Existing conditions drawing and inspection reports related to the pipes in question are available to be picked up at the Township Office at 380 East Berlin Road York, PA 17408 or through the Township website.

The existing conditions drawing depicts the area in which the work will be conducted. The work of the Rainbow Circle project is considered stormwater repair work and no plans depicting the scope will be provided. About ~~748-502~~ linear feet (LF) of pipe and ~~four (4) three (3)~~ inlet catch basins will be replaced as part of the work. The selected bidder will also install an end wall and be responsible for all erosion and sediment control.

The work will include replacing the existing pipes with approximately 102 LF of 18-inch smooth lined plastic pipe (SLCPP) between inlets I-1 to I-2, 216 LF of 24-inch SLCPP between inlets I-4 to I-5 and between I-5 to I-6, and 184 LF of 30-inch SLCPP between inlets I-6 to I-7 and I-7 to I-8, ~~246 LF of 36-inch SLCPP between inlet I-10 to I-11 and I-11 to an outfall~~. All pipe replacements will be completed by open cut replacement.

A new inlet I-5 shall have pipe inverts at an elevation of 443.8 feet above sea level (FASL). As shown on the existing conditions drawing, the current I-5 pipe inverts are at 443.9 and 444.36 FASL. The lowest pipe inverts at inlet I-6 shall be set at 438.4 FASL. The main inverts in I-6 are currently set at 439.86 FASL. The replacement inlet I-7 shall have pipe inverts set at 437.3 FASL. That inlet currently has an invert entering at 437.44 and exiting at 437.64 FASL. ~~Inlet I-11 shall be replaced with a catch basin having pipe inverts at 433.25 FASL entering and 433.2 FASL exiting. The existing inlet I-11 pipe inverts are at 432.62 and 432.48 FASL. With the exception of I-7, t~~The top of all inlets shall be set at the elevation and location of the existing inlet and the immediate area shall be graded toward the inlet. I-7 will be placed approximately 3 feet northeast of the existing inlet with the top set at 441.63 FASL.

~~An endwall, EW 1, shall be added at the end of the last pipe. The endwall shall be installed with the pipe invert at 431.3 FASL. The current discharge is at 431.26 FASL, though the bottom of the pipe is eroded. The endwall shall be placed approximately 5 feet back from the end of the existing pipe and the area between the endwall and existing discharge shall be lined with R-5 rip rap.~~

Any sidewalks, grass, plantings, surfaces, fences, structures, etc. damaged or removed during the work shall be restored by the contractor. Demolition, removal, and disposal of the existing pipe, existing inlets, and items in need of restoration shall be the responsibility of the contractor. ~~As can be seen from the existing conditions plans, inlets I-10 and I-11, the pipe between them, and some of the pipe between I-11 and the discharge are located in Derry Road. Traffic~~ Any traffic control and pavement replacement will be the responsibility of the contractor. Pipes, catch basins and grates will be provided by the Township. All other materials shall be provided by the contractor.

Pavement shall conform to PennDOT Publication 408 Specifications. At a minimum, pavement repairs shall be a 6" PennDOT 2A Modified base, 5" Superpave base course asphalt (PG 64s-22, 3.0-10.0 million ESALs, 25.0 mm mix), 2.5" Superpave binder course asphalt (PG 64s-22, 3.0-10.0 million ESALs, 19.0 mm mix), and 1.5" Superpave wear course asphalt (PG 64s-22, 3.0-10.0 million ESALs, 9.5 mm mix, SRL:

G). If the existing pavement is determined to conform to a less stringent standard, as determined by the Township, the contractor may restore to match the existing pavement. When the pavement is restored, contractors shall sawcut for the full depth of pavement 8” beyond any visible cracks, remove the cut pavement, cut and remove the wear course an additional 8” beyond that, and place asphalt sealant at all joints including the overlapping wear course when restoring pavement.

There is a CCTV inspection report attached with descriptions for bidders’ reference. Bidders are encouraged to visit the site and can do so by appointment. Direct any such requests or questions about the project to Richard Shaw, Public Works Director, at 717.792.3505, or Alex Issis at alex.issis@dawood.net. Bidders should contact the same to indicate they are considering submitting a proposal to complete the work so the Township or their engineer can maintain a list of prospective bidders and provide any updates to all interested parties.

Bidders should provide in their proposal a description of their availability and indication whether they could complete the work and invoice the Township before the end of the year. Bidders should include their standard terms and conditions with their proposal as well as a non-collusion affidavit and insurance certificate. The Township reserves the right to request additional clarification after receipt of bids. No bids will be accepted after the date and time stipulated in the first paragraph of this notice. The lowest and most qualified bidder will be awarded the project. The Township reserves the right to waive any irregularities in the bids.

Bidders must comply with all State anti-bid rigging regulations pertaining to work associated with this project. Notice is hereby given to Contractors that Public Works Projects, including construction, reconstruction, demolition, alteration and/or repair work, other than maintenance work, paid for in whole or in part out of the funds of the Public body, where the estimated cost of the total project is in excess of Twenty-Five Thousand Dollars (\$25,000.00), not including work performed under a rehabilitation or manpower training program, shall be subject to the Pennsylvania Prevailing Wage Act. The estimated cost of this project is more than Twenty-Five Thousand Dollars (\$25,000.00) and therefore, the Pennsylvania Prevailing Wage Act is anticipated to be applicable.

This project falls under The Commonwealth of Pennsylvania enacted Act 127 of 2012, known as the Public Works Employment Verification Act (the Act) which requires all public work contractors and subcontractors to utilize the Federal Government's E-Verify system to ensure that all employees performing work on public work projects are authorized to work in the United States. All bidders are required to submit a Public Works Employment Verification Form as a precondition for award of the work.

West Manchester Township, in accordance with Title VI of the U.S. Civil Rights Act of 1964 and Parts 21 and 23 of 49 C.F.R., notifies all respondents that it will affirmatively ensure that MBE/WBE will be afforded full opportunity to submit proposals in response to this invitation and that no person will be discriminated against on the grounds of race, color, sex, or national origin in consideration for an award. Similarly, the successful bidder shall in no manner discriminate against or intimidate any employee involved in the manufacture of supplies, the performance of work, or any other activity required under the contract on account of gender, race, creed or color. Work must be performed to ensure that non-discrimination/sexual harassment provision of the CFA are met.

NON-COLLUSION AFFIDAVIT

Commonwealth/State of: _____

County of: _____

PROJECT: West Manchester Township – Rainbow Circle Area Stormwater Repairs Project

The undersigned, being duly sworn on oath says that he is the contracting party or that he is the representative, agent, member, or officer of the contracting party, that he has not, nor has any other member, employee, representative, agent or office of the firm, company, corporation or partnership represented by him, directly or indirectly, entered into or offered to enter into any combination, collusion or agreement to receive or pay, and that he has not received or paid, any sum of money or other consideration for the execution of the agreement/contract other than that which appears upon the face of the agreement/contract.

Signature **Date** **Company**

Printed Name **Title**

Commonwealth/State of: _____

County of: _____

Subscribed and sworn before me this _____ day of _____, 20_____.

Notary Public

My Commission Expires

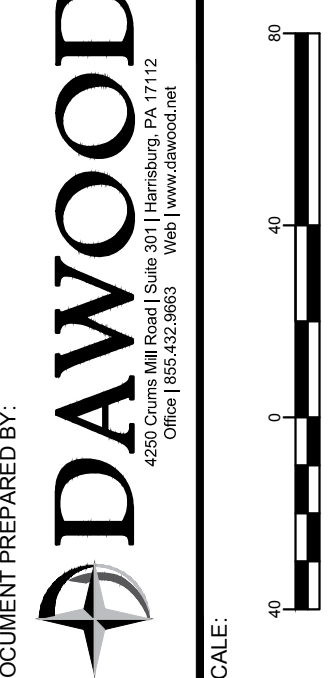
GENERAL SITE CONSTRUCTION NOTES

1. TOPOGRAPHIC & BOUNDARY INFORMATION IS BASED ON FIELD SURVEYS PERFORMED BY DAWOOD ENGINEERING, INC. IN NOVEMBER AND DECEMBER 2022.
2. VERTICAL DATUM IS BASED ON NAVD 88 GEOID 18.
3. PLAN BEARING BASE IS REFERENCED TO SOUTH ZONE NAD 83, CONUS.
4. DAWOOD ENGINEERING, INC. DOES NOT WARRANT THE EXISTENCE OR NONEXISTENCE OF SUBSURFACE SINKHOLES, SPRINGS, TRASH, ROCK, NOR THE PRESENCE OF ACTIVE OR ABANDONED FOUNDATIONS, CESSPOOLS, WELLS, CISTERNS, BURIED TANKS, BURIED UTILITIES, ETC. THAT MAY ENCUMBER CONSTRUCTION OR OTHER USE OF THIS SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL SUBSURFACE CONDITIONS AS PART OF THE WORK.
5. IN COMPLIANCE WITH ACT 287 OF 1974 AS AMENDED BY ACT 199 OF 2004, ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE A COMPILATION OF ACTUAL FIELD LOCATIONS AND DATA FURNISHED FROM INFORMATION SUPPLIED BY OTHERS. THE TOWNSHIP SUPERVISOR AND ENGINEER ASSUME NO RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND UTILITIES AS DEPICTED ON THIS DRAWING. ANY REQUEST FOR ADDITIONAL UNDERGROUND UTILITY INFORMATION SHOULD BE DIRECTED TO THAT RESPECTED UTILITY COMPANY. SEE ONE CALL TABLE FOR SERIAL NUMBERS. THE CONTRACTOR SHALL CONTACT PA ONE-CALL (1-800-242-1776) AT LEAST THREE (3) DAYS PRIOR TO BEGINNING WORK.
6. THE PROJECT DRAWINGS ARE GENERALLY DIAGRAMMATIC IN INDICATING THE PRESENCE OF EXISTING UNDERGROUND UTILITIES. INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL RECORD MAPS AND FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES, INCLUDING SERVICES. WHEN THE UTILITIES ARE TO BE LEFT IN PLACE, THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING THE EXCAVATION AND BACKFILLING OPERATIONS.
7. AT ANY CROSSING OF EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE UNDERGROUND UTILITIES WITH SOFT DIG TECHNIQUES.
8. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE TOWNSHIP IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH THE WORK IN THIS AREA.
9. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER, TOWNSHIP AND APPLICABLE UTILITY COMPANY. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
10. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE TOWNSHIP IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE SCOPE OF WORK AND/OR FIELD CONDITIONS.
11. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL CONSTRUCTION METHODS AND PROCEDURES MEET ALL REGULATORY REQUIREMENTS.
12. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL PROPOSED WORK WITH THE APPROPRIATE UTILITY COMPANY PRIOR TO START OF CONSTRUCTION.
13. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENTATION POLLUTION CONTROL MEASURES IN ACCORDANCE WITH PA STATE CODE CHAPTER 102 REQUIREMENTS.
14. ALL STORM SEWER CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST STANDARDS OF THE WEST MANCHESTER TOWNSHIP SEWER AUTHORITY, AND SHALL BE SUBJECT TO APPROVAL BY THE AUTHORITY'S ENGINEER.
15. ALL KNOWN EXISTING EASEMENTS AND RIGHT-OF-WAYS AND PROPOSED EASEMENTS AND RIGHT-OF-WAYS HAVE BEEN SHOWN ON THE PLAN.
16. THE CONTRACTOR AND ANY SUBCONTRACTORS SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1 SEQ., AND 287.1 SEQ. THE CONTRACTOR SHALL NOT BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THE SITE.
17. WHERE PROPOSED PAVEMENT MEETS EXISTING PAVEMENT, MEET LINE AND GRADE OF EXISTING PAVEMENT.
18. ANY TRAFFIC CONTROL SIGNS SHALL BE IN ACCORDANCE WITH PENNDOT AND/OR WEST MANCHESTER TOWNSHIP SPECIFICATIONS.

NO.	DATE	DESCRIPTION

DOCUMENT PREPARED FOR:

DAWOOD
 4825 Cowardin Road, Suite 301 | Hummelstown, PA 17112
 Office: (717) 552-8663 | Web: www.dawood.net




SCALE: 1" = 40'

EXISTING CONDITIONS PLAN
 FOR
**RAINBOW CIRCLE
 STORMWATER**
 WEST MANCHESTER TOWNSHIP
 YORK COUNTY
 PENNSYLVANIA

DRAWING TITLE
**EXISTING CONDITIONS
 PLAN**

DATE	SEPTEMBER 27, 2023
JOB NO.	230038.01
FILE NAME	SV-EX-BM02
DRAWN BY	DPK
CHECKED BY	RAN
DRAWING NO.	C-101
SHEET NO.	1 OF 1

PA ONE-CALL



Before You Dig Anywhere
 In ... PENNSYLVANIA
 STOP! Call 1-800-242-1776
 PA Law requires 3 working days before you excavate.
 PA One Call System, Inc.
 One Call Serial #: 20223262570
 20223262582
 20223262586
 20223262662
 20223262716
 20223262721

PA ACT 287 OF 1974 AS AMENDED BY ACT 121 OF 2008, REQUIRES NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE COMMONWEALTH.



Pipe	Pipe Material	Pipe size (in)
I-1 to I-2	CPP	10"
I-2 to I-3	CMP	20" x 24"
I-3 to I-4	SLCPP	24"
I-4 to I-5	CMP	18" x 29"
I-5 to I-6	CMP	18" x 29"
I-6 to I-7	CMP	18" x 29"
I-7 to I-8	CMP	18" x 29"
I-8 to I-9	CMP	28" x 42"
I-9 to I-10	CMP	28" x 42"
I-10 to I-11	CMP	36" x 48"
I-11 to EW-1	CMP	36" x 48"

Inlet	Top of Grate (ft)	Invert Up (ft)	Invert up (ft)	Invert Down (ft)
I-1	453.28	450.9		
I-2	452.74	448.49		448.14
I-3	449.75	445.02		446.1
I-4	447.75	444.36		444.47
I-5	447.72	443.9		444.36
I-6	445.87	440.08 (N)	439.86 (SE)	439.86
I-7	440.78	437.44		437.64
I-8	439.64	436.69		435.92
I-9	439.56	435.67		435.6
I-10	438.97	434.14		433.95
I-11	437.28	432.62		432.48

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 Created: 9/27/2023 3:58 PM



Legend of Classification (Section)

Project Name
YORK PA STORM VPI

Project Date
9/23/2022

5: Immediate Attention

Defects require immediate attention- Pipe has failed or will likely fail within the next 5 years or sooner.

4: Poor Condition

Severe Defects that will become Grade 5 defects within the foerseeable future- Pipe will probably fail in 5-10 years

2: Good Condition

Defects that have not begun to deteriorate- Pipe unlikely to fail for at least 20 years.

1: Excellent Condition

Minor Defects- Failure unlikley in the foreseeable future

3: Fair Condition

Moderate defects that will continue to deteriorate- Pipe may fail in 10-20 years.



Inspection report

Date: 9/23/2022	Work Order:	Weather:	Surveyed By: Stew Eleftheriou	Certificate Number: U0318070300187	Pipe Segment Ref.: CB10-CB11
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Upstream	Pipe Joint Length:	Total Length: 122.2'	Length Surveyed: 122.2'

City: YORK, PA	Drainage Area:	Upstream MH: CB10
Street: DERRY RD	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: CB11
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Oval	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 36 x 48"	Sewer Category: SEC	Joints passed: 0
Pipe material: Corrugated Metal Pipe	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

1:923	Distance	Code	Observation	Counter	Photo	Grade		
			CB11					
	0.0	ACB	Catch Basin / CB11	00:00:09	1			
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:12	2			
	0.0	S02	DSGV Deposits Settled Gravel, 5% of cross sectional area at 6 o'clock, within 8 inch, Start	00:00:24	3			
	0.0	S01	DAE Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST	00:00:34	4, 5			
	10.5	F02	DSGV Deposits Settled Gravel, 5% of cross sectional area at 6 o'clock, within 8 inch, Finish	00:01:21	6	M2		
	16.8	S03	DSGV Deposits Settled Gravel, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start	00:02:00	7			
	62.1	F03	DSGV Deposits Settled Gravel, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish	00:03:37	8	M2		
	82.9	OBR	Obstruction Rocks, 5% of cross sectional area from 6 o'clock to 7 o'clock	00:04:22	9	M2		
	84.8	S04	DSGV Deposits Settled Gravel, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start	00:04:32	10			
	119.3	F04	DSGV Deposits Settled Gravel, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish	00:06:07	11	M2		
	122.2	F01	DAE Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST	00:06:26	12	M2		
	122.2	ACB	Catch Basin / CB10	00:06:34	13			
			CB10					
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	2G00	2G00	0.0	86.0	86.0	0.0	2.0	2.0

Section Pictures - 9/23/2022 - CB10-CB11

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	DERRY RD	9/23/2022	CB10-CB11	1



1, 00:00:09, 0.00ft
 Catch Basin / CB11



2, 00:00:12, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:24, 0.00ft
 Deposits Settled Gravel, 5% of cross sectional area at 6 o'clock, within 8 inch, Start



4, 00:00:34, 0.00ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST

Section Pictures - 9/23/2022 - CB10-CB11

City YORK, PA	Street DERRY RD	Date 9/23/2022	Pipe Segment Reference CB10-CB11	Section No. 1
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5, 00:00:34, 0.00ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST



6, 00:01:21, 10.51ft
 Deposits Settled Gravel, 5% of cross sectional area at 6 o'clock, within 8 inch, Finish



7, 00:02:00, 16.79ft
 Deposits Settled Gravel, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start



8, 00:03:37, 62.07ft
 Deposits Settled Gravel, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish

Section Pictures - 9/23/2022 - CB10-CB11

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	DERRY RD	9/23/2022	CB10-CB11	1



9, 00:04:22, 82.89ft
 Obstruction Rocks, 5% of cross sectional area from 6 o'clock to 7 o'clock



10, 00:04:32, 84.76ft
 Deposits Settled Gravel, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start



11, 00:06:07, 119.27ft
 Deposits Settled Gravel, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish



12, 00:06:26, 122.21ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST



Section Pictures - 9/23/2022 - CB10-CB11

City YORK, PA	Street DERRY RD	Date 9/23/2022	Pipe Segment Reference CB10-CB11	Section No. 1
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13, 00:06:34, 122.21ft
Catch Basin / CB10



Inspection report

Date: 9/23/2022	Work Order:	Weather:	Surveyed By: Stew Eleftheriou	Certificate Number: U0318070300187	Pipe Segment Ref.: CB11-EW1
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 117.2'	Length Surveyed: 117.2'

City: YORK, PA	Drainage Area:	Upstream MH: CB11
Street: DERRY RD	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: EW1
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Oval	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 36 x 48"	Sewer Category: SEC	Joints passed: 0
Pipe material: Corrugated Metal Pipe	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

1:885	Distance	Code	Observation	Counter	Photo	Grade
CB11						
	0.0	ACB	Catch Basin / CB11	00:00:10	1	
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:15	2	
	0.0	S01	DSC Deposits Settled Compacted, 5% of cross sectional area from 6 o'clock to 7 o'clock, within 8 inch, Start	00:00:24	3	
	10.3	F01	DSC Deposits Settled Compacted, 5% of cross sectional area from 6 o'clock to 7 o'clock, within 8 inch, Finish	00:00:42	4	M2
	10.3	S02	DAE Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST	00:00:44	5	
	14.1	S03	DSC Deposits Settled Compacted, 5% of cross sectional area at 6 o'clock, within 8 inch, Start	00:00:59	6	
	23.9	F03	DSC Deposits Settled Compacted, 5% of cross sectional area at 6 o'clock, within 8 inch, Finish	00:01:22	7	M2
	91.4	MGO	Miscellaneous General Observation / BITUMINOUS COATING ON THIS LENGTH OF THE PIPE	00:03:14	8, 9	
	108.1	S04	SMW Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE STARTING TO RUST AWAY, SMALL HOLES FORMING	00:05:42	10, 11	
	114.5	MGP	Miscellaneous General Photograph from 5 o'clock to 7 o'clock / BOTTOM OF PIPE RUSTING AWAY	00:06:50	12, 13	
	117.2	MGP	Miscellaneous General Photograph from 5 o'clock to 7 o'clock / BOTTOM OF PIPE COMPLETELY MISSING AT END OF PIPE	00:07:26	14, 15	
	117.2	F02	DAE Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST	00:07:47	16	M2
	117.2	F04	SMW Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Finish / BOTTOM OF PIPE STARTING TO RUST AWAY, SMALL HOLES FORMING	00:07:50	17	S5
	117.2	ADP	Discharge Point / EW1 - END WALL	00:07:53	18	
EW1						
QSR	QMR	QOR	SPR	MPR	OPR	SPRI
5200	2D00	522D	10.0	50.0	60.0	5.0
						MPRI
						OPRI
						2.2

Section Pictures - 9/23/2022 - CB11-EW1

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	DERRY RD	9/23/2022	CB11-EW1	2



1, 00:00:10, 0.00ft
 Catch Basin / CB11



2, 00:00:15, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:24, 0.00ft
 Deposits Settled Compacted, 5% of cross sectional area from 6 o'clock to 7 o'clock, within 8 inch, Start



4, 00:00:42, 10.25ft
 Deposits Settled Compacted, 5% of cross sectional area from 6 o'clock to 7 o'clock, within 8 inch, Finish

Section Pictures - 9/23/2022 - CB11-EW1

City YORK, PA	Street DERRY RD	Date 9/23/2022	Pipe Segment Reference CB11-EW1	Section No. 2
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5, 00:00:44, 10.25ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST



6, 00:00:59, 14.08ft
 Deposits Settled Compacted, 5% of cross sectional area at 6 o'clock, within 8 inch, Start



7, 00:01:22, 23.91ft
 Deposits Settled Compacted, 5% of cross sectional area at 6 o'clock, within 8 inch, Finish



8, 00:03:14, 91.43ft
 Miscellaneous General Observation / BITUMINOUS COATING ON THIS LENGTH OF THE PIPE

Section Pictures - 9/23/2022 - CB11-EW1

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	DERRY RD	9/23/2022	CB11-EW1	2



9, 00:03:14, 91.43ft
 Miscellaneous General Observation / BITUMINOUS COATING ON THIS LENGTH OF THE PIPE



10, 00:05:42, 108.12ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE STARTING TO RUST AWAY, SMALL HOLES FORMING



11, 00:05:42, 108.12ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE STARTING TO RUST AWAY, SMALL HOLES FORMING



12, 00:06:50, 114.54ft
 Miscellaneous General Photograph from 5 o'clock to 7 o'clock / BOTTOM OF PIPE RUSTING AWAY

Section Pictures - 9/23/2022 - CB11-EW1

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	DERRY RD	9/23/2022	CB11-EW1	2



13, 00:06:50, 114.54ft
 Miscellaneous General Photograph from 5 o'clock to 7 o'clock /
 BOTTOM OF PIPE RUSTING AWAY



14, 00:07:26, 117.17ft
 Miscellaneous General Photograph from 5 o'clock to 7 o'clock /
 BOTTOM OF PIPE COMPLETELY MISSING AT END OF
 PIPE



15, 00:07:26, 117.17ft
 Miscellaneous General Photograph from 5 o'clock to 7 o'clock /
 BOTTOM OF PIPE COMPLETELY MISSING AT END OF
 PIPE



16, 00:07:47, 117.19ft
 Deposits Attached Encrustation, 5% of cross sectional area
 from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST



Section Pictures - 9/23/2022 - CB11-EW1

City YORK, PA	Street DERRY RD	Date 9/23/2022	Pipe Segment Reference CB11-EW1	Section No. 2
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17, 00:07:50, 117.20ft
Surface Damage Missing Wall from 5 o'clock to 7 o'clock,
within 8 inch, Finish / BOTTOM OF PIPE STARTING TO RUST
AWAY, SMALL HOLES FORMING



18, 00:07:53, 117.20ft
Discharge Point / EW1 - END WALL



Inspection report

Date: 9/23/2022	Work Order:	Weather:	Surveyed By: Stew Eleftheriou	Certificate Number: U0318070300187	Pipe Segment Ref.: CB9-CB10
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 170.2'	Length Surveyed: 170.2'

City: YORK, PA	Drainage Area:	Upstream MH: CB9
Street: MISTY DR	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: CB10
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Oval	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 28 x 42"	Sewer Category: SEC	Joints passed: 0
Pipe material: Corrugated Metal Pipe	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

1:1285	Distance	Code	Observation	Counter	Photo	Grade
CB9						
	0.0	ACB	Catch Basin / CB9	00:00:11	1	
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:14	2	
	0.0	S01	DAE Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST	00:00:18	3	
	14.7	S02	DSGV Deposits Settled Gravel, 5% of cross sectional area from 6 o'clock to 7 o'clock, within 8 inch, Start	00:01:24	4	
	33.2	F02	DSGV Deposits Settled Gravel, 5% of cross sectional area from 6 o'clock to 7 o'clock, within 8 inch, Finish	00:02:12	5	M2
	33.2	MWL	Water Level, 10% of the vertical dimension	00:02:14	6	
	36.8	S03	DSC Deposits Settled Compacted, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start	00:02:37	7	
	49.8	F03	DSC Deposits Settled Compacted, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish	00:03:22	8	M2
	49.8	S04	DSC Deposits Settled Compacted, 10% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start	00:03:24	9	
	73.6	F04	DSC Deposits Settled Compacted, 10% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish	00:04:25	10	M2
	131.7	S05	DSC Deposits Settled Compacted, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start	00:06:09	11	
	141.6	OBR	Obstruction Rocks, 5% of cross sectional area at 7 o'clock	00:06:37	12	M2
	147.4	F05	DSC Deposits Settled Compacted, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish	00:07:00	13	M2
	169.7	F01	DAE Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST	00:07:41	14	M2
	170.2	ACB	Catch Basin / CB10	00:08:02	15	
CB10						
QSR	QMR	QOR	SPR	MPR	OPR	SPRI
0000	2100	2100	0.0	100.0	100.0	0.0
						MPRI
						OPRI
						2.0
						2.0

Section Pictures - 9/23/2022 - CB9-CB10

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	MISTY DR	9/23/2022	CB9-CB10	3



1, 00:00:11, 0.00ft
 Catch Basin / CB9



2, 00:00:14, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:18, 0.00ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST



4, 00:01:24, 14.69ft
 Deposits Settled Gravel, 5% of cross sectional area from 6 o'clock to 7 o'clock, within 8 inch, Start

Section Pictures - 9/23/2022 - CB9-CB10

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	MISTY DR	9/23/2022	CB9-CB10	3



5, 00:02:12, 33.20ft
 Deposits Settled Gravel, 5% of cross sectional area from 6 o'clock to 7 o'clock, within 8 inch, Finish



6, 00:02:14, 33.20ft
 Water Level, 10% of the vertical dimension



7, 00:02:37, 36.84ft
 Deposits Settled Compacted, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start



8, 00:03:22, 49.84ft
 Deposits Settled Compacted, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish

Section Pictures - 9/23/2022 - CB9-CB10

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	MISTY DR	9/23/2022	CB9-CB10	3



9, 00:03:24, 49.84ft
 Deposits Settled Compacted, 10% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start



10, 00:04:25, 73.57ft
 Deposits Settled Compacted, 10% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish



11, 00:06:09, 131.71ft
 Deposits Settled Compacted, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start



12, 00:06:37, 141.57ft
 Obstruction Rocks, 5% of cross sectional area at 7 o'clock

Section Pictures - 9/23/2022 - CB9-CB10

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	MISTY DR	9/23/2022	CB9-CB10	3



13, 00:07:00, 147.36ft
 Deposits Settled Compacted, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish



14, 00:07:41, 169.71ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST



15, 00:08:02, 170.17ft
 Catch Basin / CB10



Inspection report

Date: 9/23/2022	Work Order:	Weather:	Surveyed By: Stew Eleftheriou	Certificate Number: U0318070300187	Pipe Segment Ref.: CB8-CB9
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Upstream	Pipe Joint Length:	Total Length: 20.2'	Length Surveyed: 20.2'

City: YORK, PA	Drainage Area:	Upstream MH: CB8
Street: MISTY DR	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: CB9
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Oval	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 28 x 42 "	Sewer Category: SEC	Joints passed: 0
Pipe material: Corrugated Metal Pipe	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

1:153	Distance	Code	Observation	Counter	Photo	Grade		
CB9								
	0.0	ACB	Catch Basin / CB9	00:00:10	1			
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:12	2			
	0.0	S01 DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start	00:00:16	3			
	7.8	SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock / BOTTOM OF PIPE STARTING TO RUST AWAY	00:01:06	4, 5	S5		
	16.2	SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock / BOTTOM OF PIPE RUSTING AWAY	00:01:53	6, 7	S5		
	20.2	F01 DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish	00:02:30	8	M2		
	20.2	ACB	Catch Basin / CB8	00:02:33	9			
CB8								
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5200	2400	5224	10.0	8.0	18.0	5.0	2.0	3.0

Section Pictures - 9/23/2022 - CB8-CB9

City YORK, PA	Street MISTY DR	Date 9/23/2022	Pipe Segment Reference CB8-CB9	Section No. 4
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1, 00:00:10, 0.00ft
 Catch Basin / CB9



2, 00:00:12, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:16, 0.00ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start



4, 00:01:06, 7.82ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock / BOTTOM OF PIPE STARTING TO RUST AWAY

Section Pictures - 9/23/2022 - CB8-CB9

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	MISTY DR	9/23/2022	CB8-CB9	4



5, 00:01:06, 7.82ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock /
 BOTTOM OF PIPE STARTING TO RUST AWAY



6, 00:01:53, 16.23ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock /
 BOTTOM OF PIPE RUSTING AWAY



7, 00:01:53, 16.23ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock /
 BOTTOM OF PIPE RUSTING AWAY



8, 00:02:30, 20.17ft
 Deposits Attached Encrustation, 5% of cross sectional area
 from 5 o'clock to 7 o'clock, within 8 inch, Finish



Section Pictures - 9/23/2022 - CB8-CB9

City YORK, PA	Street MISTY DR	Date 9/23/2022	Pipe Segment Reference CB8-CB9	Section No. 4
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9, 00:02:33, 20.17ft
Catch Basin / CB8



Inspection report

Date: 9/23/2022	Work Order:	Weather:	Surveyed By: Stew Eleftheriou	Certificate Number: U0318070300187	Pipe Segment Ref.: CB7-CB8
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 54.6'	Length Surveyed: 0.0'

City: YORK, PA	Drainage Area:	Upstream MH: CB7
Street: MISTY DR	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: CB8
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 24"	Sewer Category: SEC	Joints passed: 0
Pipe material: Corrugated Metal Pipe	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

1:413	Distance	Code	Observation	Counter	Photo	Grade
			CB7			
	0.0	ACB	Catch Basin / CB7	00:00:11	1	
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:14	2	
	0.0	SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock / BOTTOM OF PIPE HAS RUSTED AWAY	00:00:29	3, 4	S5
	0.0	MGP	Miscellaneous General Photograph from 5 o'clock to 7 o'clock / BOTTOM OF PIPE MISSING	00:01:14	5, 6	
	0.0	MGP	Miscellaneous General Photograph from 12 o'clock to 12 o'clock / ZOOMING CAMERA DOWNPIPE, CB8 VISIBLE	00:01:43	7, 8	
	0.0	MSA	Miscellaneous Survey Abandoned / BOTTOM OF PIPE MISSING, CRAWLER CANNOT ENTER LINE	00:02:30	9	
	54.6		End of pipe			
			CB8			

Section Pictures - 9/23/2022 - CB7-CB8

City YORK, PA	Street MISTY DR	Date 9/23/2022	Pipe Segment Reference CB7-CB8	Section No. 5
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1, 00:00:11, 0.00ft
 Catch Basin / CB7



2, 00:00:14, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:29, 0.00ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock /
 BOTTOM OF PIPE HAS RUSTED AWAY



4, 00:00:29, 0.00ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock /
 BOTTOM OF PIPE HAS RUSTED AWAY

Section Pictures - 9/23/2022 - CB7-CB8

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	MISTY DR	9/23/2022	CB7-CB8	5



5, 00:01:14, 0.00ft
 Miscellaneous General Photograph from 5 o'clock to 7 o'clock /
 BOTTOM OF PIPE MISSING



6, 00:01:14, 0.00ft
 Miscellaneous General Photograph from 5 o'clock to 7 o'clock /
 BOTTOM OF PIPE MISSING



7, 00:01:43, 0.00ft
 Miscellaneous General Photograph from 12 o'clock to 12
 o'clock / ZOOMING CAMERA DOWNPIPE, CB8 VISIBLE



8, 00:01:43, 0.00ft
 Miscellaneous General Photograph from 12 o'clock to 12
 o'clock / ZOOMING CAMERA DOWNPIPE, CB8 VISIBLE



Section Pictures - 9/23/2022 - CB7-CB8

City YORK, PA	Street MISTY DR	Date 9/23/2022	Pipe Segment Reference CB7-CB8	Section No. 5
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9, 00:02:30, 0.00ft
Miscellaneous Survey Abandoned / BOTTOM OF PIPE
MISSING, CRAWLER CANNOT ENTER LINE



Inspection report

Date: 9/23/2022	Work Order:	Weather:	Surveyed By: Stew Eleftheriou	Certificate Number: U0318070300187	Pipe Segment Ref.: CB7-CB8
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Upstream	Pipe Joint Length:	Total Length: 54.6'	Length Surveyed: 54.6'

City: YORK, PA	Drainage Area:	Upstream MH: CB7
Street: MISTY DR	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: CB8
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 24"	Sewer Category: SEC	Joints passed: 0
Pipe material: Corrugated Metal Pipe	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

1:413	Distance	Code	Observation	Counter	Photo	Grade		
CB8								
	0.0	ACB	Catch Basin / CB8	00:00:10	1			
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:13	2			
	0.0 S01	DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST	00:00:17	3			
	0.0	SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock / BOTTOM OF PIPE HAS RUSTED AWAY AT START OF LINE	00:00:31	4, 5	S5		
	5.7	SMW	Surface Damage Missing Wall from 1 o'clock to 2 o'clock / SMALL HOLES	00:01:29	6, 7	S5		
	5.7	IS	Infiltration Stain from 1 o'clock to 3 o'clock	00:01:52	8	M1		
	33.4	HSV	Hole Soil Visible from 2 o'clock to 3 o'clock	00:03:28	9, 10	S5		
	35.3	HSV	Hole Soil Visible from 2 o'clock to 3 o'clock	00:04:04	11, 12	S5		
	37.9 S02	SMW	Surface Damage Missing Wall from 4 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE HAS BEGUN RUSTING AWAY	00:05:20	13, 14			
	42.0 F02	SMW	Surface Damage Missing Wall from 4 o'clock to 7 o'clock, within 8 inch, Finish / BOTTOM OF PIPE HAS BEGUN RUSTING AWAY	00:06:26	15	S5		
	54.6	SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock / BOTTOM OF PIPE MISSING JUST BEFORE CB7	00:07:23	16, 17	S5		
	54.6 F01	DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST	00:07:49	18	M2		
	54.6	MSA	Miscellaneous Survey Abandoned / BOTTOM OF PIPE MISSING, CRSAWLER CANNOT PROCEED	00:07:52	19, 20			
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5600	2A11	562A	30.0	23.0	53.0	5.0	1.9	2.9

Section Pictures - 9/23/2022 - CB7-CB8

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	MISTY DR	9/23/2022	CB7-CB8	5



1, 00:00:10, 0.00ft
 Catch Basin / CB8



2, 00:00:13, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:17, 0.00ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST



4, 00:00:31, 0.00ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock / BOTTOM OF PIPE HAS RUSTED AWAY AT START OF LINE

Section Pictures - 9/23/2022 - CB7-CB8

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	MISTY DR	9/23/2022	CB7-CB8	5



5, 00:00:31, 0.00ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock /
 BOTTOM OF PIPE HAS RUSTED AWAY AT START OF LINE



6, 00:01:29, 5.70ft
 Surface Damage Missing Wall from 1 o'clock to 2 o'clock /
 SMALL HOLES



7, 00:01:29, 5.70ft
 Surface Damage Missing Wall from 1 o'clock to 2 o'clock /
 SMALL HOLES



8, 00:01:52, 5.70ft
 Infiltration Stain from 1 o'clock to 3 o'clock

Section Pictures - 9/23/2022 - CB7-CB8

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	MISTY DR	9/23/2022	CB7-CB8	5



9, 00:03:28, 33.37ft
 Hole Soil Visible from 2 o'clock to 3 o'clock



10, 00:03:28, 33.37ft
 Hole Soil Visible from 2 o'clock to 3 o'clock



11, 00:04:04, 35.31ft
 Hole Soil Visible from 2 o'clock to 3 o'clock



12, 00:04:04, 35.31ft
 Hole Soil Visible from 2 o'clock to 3 o'clock

Section Pictures - 9/23/2022 - CB7-CB8

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	MISTY DR	9/23/2022	CB7-CB8	5



13, 00:05:20, 37.88ft
 Surface Damage Missing Wall from 4 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE HAS BEGUN RUSTING AWAY



14, 00:05:20, 37.88ft
 Surface Damage Missing Wall from 4 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE HAS BEGUN RUSTING AWAY



15, 00:06:26, 41.95ft
 Surface Damage Missing Wall from 4 o'clock to 7 o'clock, within 8 inch, Finish / BOTTOM OF PIPE HAS BEGUN RUSTING AWAY



16, 00:07:23, 54.60ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock / BOTTOM OF PIPE MISSING JUST BEFORE CB7

Section Pictures - 9/23/2022 - CB7-CB8

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	MISTY DR	9/23/2022	CB7-CB8	5



17, 00:07:23, 54.60ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock /
 BOTTOM OF PIPE MISSING JUST BEFORE CB7



18, 00:07:49, 54.60ft
 Deposits Attached Encrustation, 5% of cross sectional area
 from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST



19, 00:07:52, 54.60ft
 Miscellaneous Survey Abandoned / BOTTOM OF PIPE
 MISSING, CRSAWLER CANNOT PROCEED



20, 00:07:52, 54.60ft
 Miscellaneous Survey Abandoned / BOTTOM OF PIPE
 MISSING, CRSAWLER CANNOT PROCEED



Inspection report

Date: 9/23/2022	Work Order:	Weather:	Surveyed By: Stew Eleftheriou	Certificate Number: U0318070300187	Pipe Segment Ref.: CB6-CB7
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Upstream	Pipe Joint Length:	Total Length: 81.4'	Length Surveyed: 11.8'

City: YORK, PA	Drainage Area:	Upstream MH: CB6
Street: MISTY DR	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: CB7
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 24"	Sewer Category: SEC	Joints passed: 0
Pipe material: Corrugated Metal Pipe	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

1:615	Distance	Code	Observation	Counter	Photo	Grade
	0.0	ACB	Catch Basin / CB7	00:00:11	1	
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:13	2	
	0.0	S01 DAE	Deposits Attached Encrustation, 5% of cross sectional area from 4 o'clock to 8 o'clock, within 8 inch, Start / RUST	00:00:24	3	
	0.6	DFBR	Deformed Flexible Bulging Round, change to: 5% from 7 o'clock to 9 o'clock	00:00:42	4	S3
	10.3	SMW	Surface Damage Missing Wall from 7 o'clock to 8 o'clock / SMALL HOLES FORMING	00:01:59	5, 6	S5
	11.8	SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock / BOTTOM OF PIPE HAS RUSTED AWAY	00:02:29	7, 8	S5
	11.8	MGP	Miscellaneous General Photograph from 12 o'clock to 12 o'clock / ZOOMING CAMERA DOWNPIPE, CB6 VISIBLE	00:02:57	9, 10	
	11.8	F01 DAE	Deposits Attached Encrustation, 5% of cross sectional area from 4 o'clock to 8 o'clock, within 8 inch, Finish / RUST	00:03:20	11	M2
	11.8	MSA	Miscellaneous Survey Abandoned / BOTTOM OF PIPE MISSING, CRAWLER CANNOT PROCEED	00:03:23	12, 13	
	81.4		End of pipe			

QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5231	2200	5231	13.0	4.0	17.0	4.3	2.0	3.4

Section Pictures - 9/23/2022 - CB6-CB7

City YORK, PA	Street MISTY DR	Date 9/23/2022	Pipe Segment Reference CB6-CB7	Section No. 6
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1, 00:00:11, 0.00ft
 Catch Basin / CB7



2, 00:00:13, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:24, 0.00ft
 Deposits Attached Encrustation, 5% of cross sectional area from 4 o'clock to 8 o'clock, within 8 inch, Start / RUST



4, 00:00:42, 0.62ft
 Deformed Flexible Bulging Round, change to: 5% from 7 o'clock to 9 o'clock

Section Pictures - 9/23/2022 - CB6-CB7

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	MISTY DR	9/23/2022	CB6-CB7	6



5, 00:01:59, 10.28ft
 Surface Damage Missing Wall from 7 o'clock to 8 o'clock /
 SMALL HOLES FORMING



6, 00:01:59, 10.28ft
 Surface Damage Missing Wall from 7 o'clock to 8 o'clock /
 SMALL HOLES FORMING



7, 00:02:29, 11.79ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock /
 BOTTOM OF PIPE HAS RUSTED AWAY



8, 00:02:29, 11.79ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock /
 BOTTOM OF PIPE HAS RUSTED AWAY

Section Pictures - 9/23/2022 - CB6-CB7

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	MISTY DR	9/23/2022	CB6-CB7	6



9, 00:02:57, 11.79ft
 Miscellaneous General Photograph from 12 o'clock to 12 o'clock / ZOOMING CAMERA DOWNPIPE, CB6 VISIBLE



10, 00:02:57, 11.79ft
 Miscellaneous General Photograph from 12 o'clock to 12 o'clock / ZOOMING CAMERA DOWNPIPE, CB6 VISIBLE



11, 00:03:20, 11.79ft
 Deposits Attached Encrustation, 5% of cross sectional area from 4 o'clock to 8 o'clock, within 8 inch, Finish / RUST



12, 00:03:23, 11.79ft
 Miscellaneous Survey Abandoned / BOTTOM OF PIPE MISSING, CRAWLER CANNOT PROCEED



Section Pictures - 9/23/2022 - CB6-CB7

City YORK, PA	Street MISTY DR	Date 9/23/2022	Pipe Segment Reference CB6-CB7	Section No. 6
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13, 00:03:23, 11.79ft
Miscellaneous Survey Abandoned / BOTTOM OF PIPE
MISSING, CRAWLER CANNOT PROCEED



Inspection report

Date: 9/23/2022	Work Order:	Weather:	Surveyed By: Stew Eleftheriou	Certificate Number: U0318070300187	Pipe Segment Ref.: CB6-CB7
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 81.4'	Length Surveyed: 81.4'

City: YORK, PA	Drainage Area:	Upstream MH: CB6
Street: MISTY DR	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: CB7
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 24"	Sewer Category: SEC	Joints passed: 0
Pipe material: Corrugated Metal Pipe	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

1:615	Distance	Code	Observation	Counter	Photo	Grade		
CB6								
	0.0	ACB	Catch Basin / CB6	00:00:11	1			
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:14	2			
	0.0 S01	DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST	00:00:23	3			
	0.0 S02	SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE HAS BEGUN TO RUST AWAY	00:00:29	4, 5			
	80.5	MGP	Miscellaneous General Photograph from 5 o'clock to 7 o'clock / BOTTOM OF PIPE COMPLETELY MISSING	00:04:39	6, 7			
	80.5 F01	DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST	00:05:08	8	M2		
	80.5 F02	SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Finish / BOTTOM OF PIPE HAS BEGUN TO RUST AWAY	00:05:10	9	S5		
	81.4	MSA	Miscellaneous Survey Abandoned / BOTTOM OF PIPE MISSING, OVERLAPPED WITH RUN FROM OPPOSITE DIRECTION	00:05:13	10, 11			
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5B00	2B00	5B2B	80.0	32.0	112.0	5.0	2.0	3.5

Section Pictures - 9/23/2022 - CB6-CB7

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	MISTY DR	9/23/2022	CB6-CB7	6



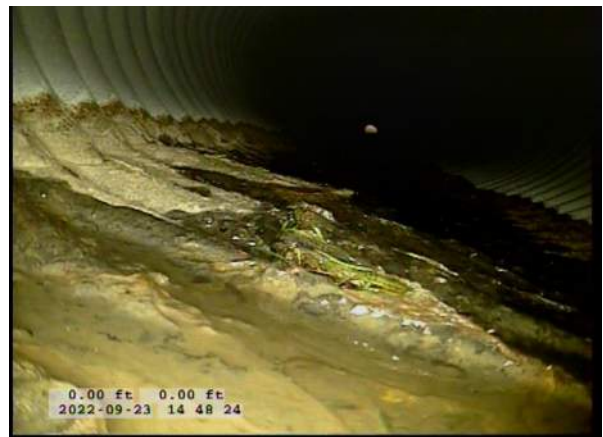
1, 00:00:11, 0.00ft
 Catch Basin / CB6



2, 00:00:14, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:23, 0.00ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST



4, 00:00:29, 0.00ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE HAS BEGUN TO RUST AWAY

Section Pictures - 9/23/2022 - CB6-CB7

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	MISTY DR	9/23/2022	CB6-CB7	6



5, 00:00:29, 0.00ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE HAS BEGUN TO RUST AWAY



6, 00:04:39, 80.50ft
 Miscellaneous General Photograph from 5 o'clock to 7 o'clock / BOTTOM OF PIPE COMPLETELY MISSING



7, 00:04:39, 80.50ft
 Miscellaneous General Photograph from 5 o'clock to 7 o'clock / BOTTOM OF PIPE COMPLETELY MISSING



8, 00:05:08, 80.50ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST

Section Pictures - 9/23/2022 - CB6-CB7

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	MISTY DR	9/23/2022	CB6-CB7	6



9, 00:05:10, 80.50ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Finish / BOTTOM OF PIPE HAS BEGUN TO RUST AWAY



10, 00:05:13, 81.39ft
 Miscellaneous Survey Abandoned / BOTTOM OF PIPE MISSING, OVERLAPPED WITH RUN FROM OPPOSITE DIRECTION



11, 00:05:13, 81.39ft
 Miscellaneous Survey Abandoned / BOTTOM OF PIPE MISSING, OVERLAPPED WITH RUN FROM OPPOSITE DIRECTION



Inspection report

Date: 9/23/2022	Work Order:	Weather:	Surveyed By: Stew Eleftheriou	Certificate Number: U0318070300187	Pipe Segment Ref.: CB5-CB6
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 167.6'	Length Surveyed: 167.6'

City: YORK, PA	Drainage Area:	Upstream MH: CB5
Street: RAINBOW CIR	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: CB6
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 24"	Sewer Category: SEC	Joints passed: 0
Pipe material: Corrugated Metal Pipe	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

1:1263	Distance	Code	Observation	Counter	Photo	Grade
CB5						
	0.0	ACB	Catch Basin / CB5	00:00:11	1	
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:13	2	
	0.0	S01 DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST	00:00:16	3	
	0.0	MGO	Miscellaneous General Observation / STARTED RUN A COUPLE FEET INTO THE LINE DUE TO BOTTOM OF PIPE MISSING	00:00:25	4	
	0.0	SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock / CAMERA LOOKING BACKWARDS, BOTTOM OF PIPE MISSING AT START OF LINE	00:00:28	5	S5
	1.6	DSC	Deposits Settled Compacted, 5% of cross sectional area at 6 o'clock	00:00:55	6	M2
	5.3	SMW	Surface Damage Missing Wall from 5 o'clock to 8 o'clock / PIPE HAS STARTED TO RUST AWAY	00:02:12	7, 8	S5
	10.6	S02 SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE HAS STARTED TO RUST AWAY	00:02:44	9, 10	
	17.4	DSF	Deposits Settled Fine, 5% of cross sectional area from 6 o'clock to 7 o'clock	00:03:18	11	M2
	115.4	MWL	Water Level, 5% of the vertical dimension	00:09:54	12	
	152.4	F01 DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST	00:12:38	13	M2
	152.4	S03 DAE	Deposits Attached Encrustation, 5% of cross sectional area from 3 o'clock to 9 o'clock, within 8 inch, Start / RUST	00:12:41	14	
	154.4	S04 DSF	Deposits Settled Fine, 5% of cross sectional area from 6 o'clock to 7 o'clock, within 8 inch, Start	00:12:53	15	
	165.1	RMJ	Roots Medium Joint from 4 o'clock to 8 o'clock, 15% of cross sectional area, within 8 inch	00:13:57	16, 17	M3
	167.0	F04 DSF	Deposits Settled Fine, 5% of cross sectional area from 6 o'clock to 7 o'clock, within 8 inch, Finish	00:14:36	18	M2



Inspection report

Date: 9/23/2022	Work Order:	Weather:	Surveyed By: Stew Eleftheriou	Certificate Number: U0318070300187	Pipe Segment Ref.: CB5-CB6
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 167.6 '	Length Surveyed: 167.6 '

	1:1263	Distance	Code	Observation	Counter	Photo	Grade	
		167.6	F03 DAE	Deposits Attached Encrustation, 5% of cross sectional area from 3 o'clock to 9 o'clock, within 8 inch, Finish / RUST	00:15:41	19	M2	
		167.6	F02 SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Finish / BOTTOM OF PIPE HAS STARTED TO RUST AWAY	00:15:45	20	S5	
		167.6	MSA	Miscellaneous Survey Abandoned / BOTTOM OF PIPE MISSING, CRAWLER CANNOT PROCEED	00:15:49	21, 22		
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5E00	312F	5E31	165.0	79.0	244.0	5.0	2.0	3.4

Section Pictures - 9/23/2022 - CB5-CB6

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB5-CB6	7



1, 00:00:11, 0.00ft
 Catch Basin / CB5



2, 00:00:13, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:16, 0.00ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST



4, 00:00:25, 0.00ft
 Miscellaneous General Observation / STARTED RUN A COUPLE FEET INTO THE LINE DUE TO BOTTOM OF PIPE MISSING

Section Pictures - 9/23/2022 - CB5-CB6

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB5-CB6	7



5, 00:00:28, 0.00ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock /
 CAMERA LOOKING BACKWARDS, BOTTOM OF PIPE
 MISSING AT START OF LINE



6, 00:00:55, 1.55ft
 Deposits Settled Compacted, 5% of cross sectional area at 6
 o'clock



7, 00:02:12, 5.30ft
 Surface Damage Missing Wall from 5 o'clock to 8 o'clock /
 PIPE HAS STARTED TO RUST AWAY



8, 00:02:12, 5.30ft
 Surface Damage Missing Wall from 5 o'clock to 8 o'clock /
 PIPE HAS STARTED TO RUST AWAY

Section Pictures - 9/23/2022 - CB5-CB6

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB5-CB6	7



9, 00:02:44, 10.64ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock,
 within 8 inch, Start / BOTTOM OF PIPE HAS STARTED TO
 RUST AWAY



10, 00:02:44, 10.64ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock,
 within 8 inch, Start / BOTTOM OF PIPE HAS STARTED TO
 RUST AWAY



11, 00:03:18, 17.44ft
 Deposits Settled Fine, 5% of cross sectional area from 6
 o'clock to 7 o'clock



12, 00:09:54, 115.42ft
 Water Level, 5% of the vertical dimension

Section Pictures - 9/23/2022 - CB5-CB6

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB5-CB6	7



13, 00:12:38, 152.41ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST



14, 00:12:41, 152.41ft
 Deposits Attached Encrustation, 5% of cross sectional area from 3 o'clock to 9 o'clock, within 8 inch, Start / RUST



15, 00:12:53, 154.35ft
 Deposits Settled Fine, 5% of cross sectional area from 6 o'clock to 7 o'clock, within 8 inch, Start



16, 00:13:57, 165.09ft
 Roots Medium Joint from 4 o'clock to 8 o'clock, 15% of cross sectional area, within 8 inch

Section Pictures - 9/23/2022 - CB5-CB6

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB5-CB6	7



17, 00:13:57, 165.09ft
 Roots Medium Joint from 4 o'clock to 8 o'clock, 15% of cross sectional area, within 8 inch



18, 00:14:36, 167.04ft
 Deposits Settled Fine, 5% of cross sectional area from 6 o'clock to 7 o'clock, within 8 inch, Finish



19, 00:15:41, 167.62ft
 Deposits Attached Encrustation, 5% of cross sectional area from 3 o'clock to 9 o'clock, within 8 inch, Finish / RUST



20, 00:15:45, 167.62ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Finish / BOTTOM OF PIPE HAS STARTED TO RUST AWAY



Section Pictures - 9/23/2022 - CB5-CB6

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB5-CB6	7



21, 00:15:49, 167.62ft
Miscellaneous Survey Abandoned / BOTTOM OF PIPE
MISSING, CRAWLER CANNOT PROCEED



22, 00:15:49, 167.62ft
Miscellaneous Survey Abandoned / BOTTOM OF PIPE
MISSING, CRAWLER CANNOT PROCEED



Inspection report

Date: 9/23/2022	Work Order:	Weather:	Surveyed By: Stew Eleftheriou	Certificate Number: U0318070300187	Pipe Segment Ref.: CB5-CB6
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Upstream	Pipe Joint Length:	Total Length: 167.6'	Length Surveyed: 12.8'

City: YORK, PA	Drainage Area:	Upstream MH: CB5
Street: RAINBOW CIR	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: CB6
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 24"	Sewer Category: SEC	Joints passed: 0
Pipe material: Corrugated Metal Pipe	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

1:1266	Distance	Code	Observation	Counter	Photo	Grade
	0.0	ACB	Catch Basin / CB6	00:00:10	1	
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:13	2	
	0.0	S01 DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST	00:00:16	3	
	0.0	S02 SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE HAS BEGUN TO RUST AWAY	00:00:26	4, 5	
	12.8	F01 DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST	00:01:43	6	M2
	12.8	F02 SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Finish / BOTTOM OF PIPE HAS BEGUN TO RUST AWAY	00:01:47	7	S5
	12.8	MGO	Miscellaneous General Observation / BITTOM OF PIPE COMPLETELY MISSING	00:01:51	8, 9	
	12.8	MSA	Miscellaneous Survey Abandoned / BOTTOM OF PIPE MISSING, OVERLAPPED WITH RUN FROM OPPOSITE DIRECTION	00:02:05	10, 11	
	167.6		End of pipe			

QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5300	2300	5323	15.0	6.0	21.0	5.0	2.0	3.5

Section Pictures - 9/23/2022 - CB5-CB6

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB5-CB6	7



1, 00:00:10, 0.00ft
 Catch Basin / CB6



2, 00:00:13, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:16, 0.00ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST



4, 00:00:26, 0.00ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE HAS BEGUN TO RUST AWAY

Section Pictures - 9/23/2022 - CB5-CB6

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB5-CB6	7



5, 00:00:26, 0.00ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock,
 within 8 inch, Start / BOTTOM OF PIPE HAS BEGUN TO
 RUST AWAY



6, 00:01:43, 12.82ft
 Deposits Attached Encrustation, 5% of cross sectional area
 from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST



7, 00:01:47, 12.82ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock,
 within 8 inch, Finish / BOTTOM OF PIPE HAS BEGUN TO
 RUST AWAY



8, 00:01:51, 12.82ft
 Miscellaneous General Observation / BITTOM OF PIPE
 COMPLETELY MISSING

Section Pictures - 9/23/2022 - CB5-CB6

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB5-CB6	7



9, 00:01:51, 12.82ft
 Miscellaneous General Observation / BITTOM OF PIPE COMPLETELY MISSING



10, 00:02:05, 12.82ft
 Miscellaneous Survey Abandoned / BOTTOM OF PIPE MISSING, OVERLAPPED WITH RUN FROM OPPOSITE DIRECTION



11, 00:02:05, 12.82ft
 Miscellaneous Survey Abandoned / BOTTOM OF PIPE MISSING, OVERLAPPED WITH RUN FROM OPPOSITE DIRECTION



Inspection report

Date: 9/23/2022	Work Order:	Weather:	Surveyed By: Stew Eleftheriou	Certificate Number: U0318070300187	Pipe Segment Ref.: CB4-CB5
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Upstream	Pipe Joint Length:	Total Length: 15.2'	Length Surveyed: 15.2'

City: YORK, PA	Drainage Area:	Upstream MH: CB4
Street: RAINBOW CIR	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: CB5
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 24"	Sewer Category: SEC	Joints passed: 0
Pipe material: Corrugated Metal Pipe	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

1:115	Distance	Code	Observation	Counter	Photo	Grade		
CB5								
	0.0	ACB	Catch Basin / CB5	00:00:10	1			
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:13	2			
	0.0 S01	DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST	00:00:21	3			
	0.0 S02	SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE HAS BEGUN RUSTING AWAY	00:00:31	4, 5			
	15.2	MGP	Miscellaneous General Photograph from 5 o'clock to 7 o'clock / BOIOM OF PIPE COMPLETELY MISSING JUST BEFORE CB4	00:01:56	6, 7			
	15.2	MGO	Miscellaneous General Observation / REMAINDER OF LINE AND CB4 VISIBLE	00:02:19	8, 9			
	15.2 F02	SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Finish / BOTTOM OF PIPE HAS BEGUN RUSTING AWAY	00:02:27	10	S5		
	15.2 F01	DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST	00:02:30	11	M2		
	15.2	MSA	Miscellaneous Survey Abandoned / BOTTOM OF PIPE MISSING, CRAWLER CANNOT PROCEED	00:02:36	12			
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5300	2300	5323	15.0	6.0	21.0	5.0	2.0	3.5

Section Pictures - 9/23/2022 - CB4-CB5

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB4-CB5	8



1, 00:00:10, 0.00ft
 Catch Basin / CB5



2, 00:00:13, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:21, 0.00ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST



4, 00:00:31, 0.00ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE HAS BEGUN RUSTING AWAY

Section Pictures - 9/23/2022 - CB4-CB5

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB4-CB5	8



5, 00:00:31, 0.00ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock,
 within 8 inch, Start / BOTTOM OF PIPE HAS BEGUN
 RUSTING AWAY



6, 00:01:56, 15.20ft
 Miscellaneous General Photograph from 5 o'clock to 7 o'clock /
 BOIIOM OF PIPE COMPLETELY MISSING JUST BEFORE
 CB4



7, 00:01:56, 15.20ft
 Miscellaneous General Photograph from 5 o'clock to 7 o'clock /
 BOIIOM OF PIPE COMPLETELY MISSING JUST BEFORE
 CB4



8, 00:02:19, 15.20ft
 Miscellaneous General Observation / REMAINDER OF LINE
 AND CB4 VISIBLE

Section Pictures - 9/23/2022 - CB4-CB5

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB4-CB5	8



9, 00:02:19, 15.20ft
 Miscellaneous General Observation / REMAINDER OF LINE AND CB4 VISIBLE



10, 00:02:27, 15.20ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Finish / BOTTOM OF PIPE HAS BEGUN RUSTING AWAY



11, 00:02:30, 15.20ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST



12, 00:02:36, 15.20ft
 Miscellaneous Survey Abandoned / BOTTOM OF PIPE MISSING, CRAWLER CANNOT PROCEED



Inspection report

Date: 9/23/2022	Work Order:	Weather:	Surveyed By: Stew Eleftheriou	Certificate Number: U0318070300187	Pipe Segment Ref.: CB3-CB4
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 23.6'	Length Surveyed: 14.2'

City: YORK, PA	Drainage Area:	Upstream MH: CB3
Street: RAINBOW CIR	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: CB4
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 24 "	Sewer Category: SEC	Joints passed: 0
Pipe material: Corrugated Metal Pipe	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

1:179	Distance	Code	Observation	Counter	Photo	Grade		
CB3								
	0.0	ACB	Catch Basin / CB3	00:00:10	1			
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:13	2			
	0.0 S01	DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST	00:00:22	3			
	0.0 S02	SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE HAS BEGUN RUSTING AWAY	00:00:37	4, 5			
	12.1	X	Collapse, 80% of cross sectional area	00:01:40	6, 7	S5		
	14.1 F02	SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Finish / BOTTOM OF PIPE HAS BEGUN RUSTING AWAY	00:03:05	8	S5		
	14.1 F01	DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST	00:03:08	9	M2		
	14.1	MGO	Miscellaneous General Observation / DAYLIGHT AT CB4 VISIBLE	00:02:29	10, 11			
	14.2	MSA	Miscellaneous Survey Abandoned / COLLAPSED PIPE	00:03:42	12			
	23.6		End of pipe					
CB4								
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5400	2300	5423	20.0	6.0	26.0	5.0	2.0	3.7

Section Pictures - 9/23/2022 - CB3-CB4

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB3-CB4	9



1, 00:00:10, 0.00ft
 Catch Basin / CB3



2, 00:00:13, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:22, 0.00ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST



4, 00:00:37, 0.00ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE HAS BEGUN RUSTING AWAY

Section Pictures - 9/23/2022 - CB3-CB4

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB3-CB4	9



5, 00:00:37, 0.00ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE HAS BEGUN RUSTING AWAY



6, 00:01:40, 12.05ft
 Collapse, 80% of cross sectional area



7, 00:01:40, 12.05ft
 Collapse, 80% of cross sectional area



8, 00:03:05, 14.09ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Finish / BOTTOM OF PIPE HAS BEGUN RUSTING AWAY

Section Pictures - 9/23/2022 - CB3-CB4

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB3-CB4	9



9, 00:03:08, 14.09ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST



10, 00:02:29, 14.15ft
 Miscellaneous General Observation / DAYLIGHT AT CB4 VISIBLE



11, 00:02:29, 14.15ft
 Miscellaneous General Observation / DAYLIGHT AT CB4 VISIBLE



12, 00:03:42, 14.23ft
 Miscellaneous Survey Abandoned / COLLAPSED PIPE



Inspection report

Date: 9/23/2022	Work Order:	Weather:	Surveyed By: Stew Eleftheriou	Certificate Number: U0318070300187	Pipe Segment Ref.: CB3-CB4
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Upstream	Pipe Joint Length:	Total Length: 23.6'	Length Surveyed: 23.6'

City: YORK, PA	Drainage Area:	Upstream MH: CB3
Street: RAINBOW CIR	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: CB4
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 24"	Sewer Category: SEC	Joints passed: 0
Pipe material: Corrugated Metal Pipe	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

1:179	Distance	Code	Observation	Counter	Photo	Grade		
CB4								
	0.0	ACB	Catch Basin / CB4	00:00:10	1			
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:12	2			
	0.0 S01	DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST	00:00:17	3			
	0.0 S02	SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE HAS BEGUN TO RUST AWAY	00:00:27	4, 5			
	23.6 F01	DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST	00:01:41	6	M2		
	23.6 F02	SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Finish / BOTTOM OF PIPE HAS BEGUN TO RUST AWAY	00:01:44	7	S5		
	23.6	X	Collapse, 80% of cross sectional area	00:01:47	8	S5		
	23.6	MSA	Miscellaneous Survey Abandoned / COLLAPSED PIPE, OVERLAPPED WITH RUN FROM OPPOSITE DIRECTION	00:01:57	9			
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5600	2500	5625	30.0	10.0	40.0	5.0	2.0	3.6

Section Pictures - 9/23/2022 - CB3-CB4

City YORK, PA	Street RAINBOW CIR	Date 9/23/2022	Pipe Segment Reference CB3-CB4	Section No. 9
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1, 00:00:10, 0.00ft
 Catch Basin / CB4



2, 00:00:12, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:17, 0.00ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST



4, 00:00:27, 0.00ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE HAS BEGUN TO RUST AWAY

Section Pictures - 9/23/2022 - CB3-CB4

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB3-CB4	9



5, 00:00:27, 0.00ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE HAS BEGUN TO RUST AWAY



6, 00:01:41, 23.62ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST



7, 00:01:44, 23.63ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Finish / BOTTOM OF PIPE HAS BEGUN TO RUST AWAY



8, 00:01:47, 23.63ft
 Collapse, 80% of cross sectional area



Section Pictures - 9/23/2022 - CB3-CB4

City YORK, PA	Street RAINBOW CIR	Date 9/23/2022	Pipe Segment Reference CB3-CB4	Section No. 9
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9, 00:01:57, 23.63ft
Miscellaneous Survey Abandoned / COLLAPSED PIPE,
OVERLAPPED WITH RUN FROM OPPOSITE DIRECTION



Inspection report

Date: 9/23/2022	Work Order:	Weather:	Surveyed By: Stew Eleftheriou	Certificate Number: U0318070300187	Pipe Segment Ref.: CB2-CB3
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Upstream	Pipe Joint Length:	Total Length: 94.8'	Length Surveyed: 94.8'

City: YORK, PA	Drainage Area:	Upstream MH: CB2
Street: RAINBOW CIR	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: CB3
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 24"	Sewer Category: SEC	Joints passed: 0
Pipe material: Corrugated Metal Pipe	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

1:716	Distance	Code	Observation	Counter	Photo	Grade		
CB3								
	0.0	ACB	Catch Basin / CB3	00:00:09	1			
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:12	2			
	0.0	S01 DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST	00:00:17	3			
	2.7	S02 SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE HAS BEGUN RUSTING AWAY	00:00:44	4, 5			
	22.2	MWL	Water Level, 5% of the vertical dimension	00:02:43	6			
CB2								
	94.8	F01 DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST	00:07:20	7	M2		
	94.8	F02 SMW	Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Finish / BOTTOM OF PIPE HAS BEGUN RUSTING AWAY	00:07:23	8	S5		
	94.8	ACB	Catch Basin / CB2	00:07:26	9			
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5B00	2B00	5B2B	90.0	38.0	128.0	5.0	2.0	3.5

Section Pictures - 9/23/2022 - CB2-CB3

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB2-CB3	10



1, 00:00:09, 0.00ft
 Catch Basin / CB3



2, 00:00:12, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:17, 0.00ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST



4, 00:00:44, 2.69ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE HAS BEGUN RUSTING AWAY

Section Pictures - 9/23/2022 - CB2-CB3

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB2-CB3	10



5, 00:00:44, 2.69ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Start / BOTTOM OF PIPE HAS BEGUN RUSTING AWAY



6, 00:02:43, 22.22ft
 Water Level, 5% of the vertical dimension



7, 00:07:20, 94.76ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST



8, 00:07:23, 94.76ft
 Surface Damage Missing Wall from 5 o'clock to 7 o'clock, within 8 inch, Finish / BOTTOM OF PIPE HAS BEGUN RUSTING AWAY



Section Pictures - 9/23/2022 - CB2-CB3

City YORK, PA	Street RAINBOW CIR	Date 9/23/2022	Pipe Segment Reference CB2-CB3	Section No. 10
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9, 00:07:26, 94.76ft
Catch Basin / CB2



Inspection report

Date: 9/23/2022	Work Order:	Weather:	Surveyed By: Stew Eleftheriou	Certificate Number: U0318070300187	Pipe Segment Ref.: CB1-CB2
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Upstream	Pipe Joint Length:	Total Length: 57.7'	Length Surveyed: 57.7'

City: YORK, PA	Drainage Area:	Upstream MH: CB1
Street: RAINBOW CIR	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: CB2
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 10 "	Sewer Category: SEC	Joints passed: 0
Pipe material: Polyethylene	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

1:436	Distance	Code	Observation	Counter	Photo	Grade		
CB2								
	0.0	ACB	Catch Basin / CB2	00:00:10	1			
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:13	2			
	0.5	TBD	Tap Break-In Defective at 1 o'clock, dia/height: 3inch / CRUSHED END OF PIPE ON LATERAL	00:05:26	3, 4	M3		
	0.6	MGO	Miscellaneous General Observation / PIPE IS PERFORATED	00:00:26	5, 6			
	0.6	MGO	Miscellaneous General Observation / LINE IS BENDING TO THE LEFT	00:00:48	7			
	6.3	RFJ	Roots Fine Joint at 6 o'clock, within 8 inch	00:01:29	8	M1		
	49.3	S01 RMB	Roots Medium Barrell from 5 o'clock to 7 o'clock, 10% of cross sectional area, Start	00:03:31	9, 10			
	54.8	F01 RMB	Roots Medium Barrell from 5 o'clock to 7 o'clock, 10% of cross sectional area, Finish	00:04:32	11	M4		
	57.2	RMB	Roots Medium Barrell from 3 o'clock to 9 o'clock, 45% of cross sectional area	00:04:59	12	M4		
	57.7	MSA	Miscellaneous Survey Abandoned / CANNOT PASS ROOTS	00:05:21	13			
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	4231	4231	0.0	12.0	12.0	0.0	3.0	3.0

Section Pictures - 9/23/2022 - CB1-CB2

City YORK, PA	Street RAINBOW CIR	Date 9/23/2022	Pipe Segment Reference CB1-CB2	Section No. 11
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1, 00:00:10, 0.00ft
 Catch Basin / CB2



2, 00:00:13, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:05:26, 0.53ft
 Tap Break-In Defective at 1 o'clock, dia/height: 3inch /
 CRUSHED END OF PIPE ON LATERAL



4, 00:05:26, 0.53ft
 Tap Break-In Defective at 1 o'clock, dia/height: 3inch /
 CRUSHED END OF PIPE ON LATERAL

Section Pictures - 9/23/2022 - CB1-CB2

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB1-CB2	11



5, 00:00:26, 0.64ft
 Miscellaneous General Observation / PIPE IS PERFORATED



6, 00:00:26, 0.64ft
 Miscellaneous General Observation / PIPE IS PERFORATED



7, 00:00:48, 0.64ft
 Miscellaneous General Observation / LINE IS BENDING TO THE LEFT



8, 00:01:29, 6.33ft
 Roots Fine Joint at 6 o'clock, within 8 inch

Section Pictures - 9/23/2022 - CB1-CB2

City YORK, PA	Street RAINBOW CIR	Date 9/23/2022	Pipe Segment Reference CB1-CB2	Section No. 11
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9, 00:03:31, 49.30ft
 Roots Medium Barrell from 5 o'clock to 7 o'clock, 10% of cross sectional area, Start



10, 00:03:31, 49.30ft
 Roots Medium Barrell from 5 o'clock to 7 o'clock, 10% of cross sectional area, Start



11, 00:04:32, 54.78ft
 Roots Medium Barrell from 5 o'clock to 7 o'clock, 10% of cross sectional area, Finish



12, 00:04:59, 57.16ft
 Roots Medium Barrell from 3 o'clock to 9 o'clock, 45% of cross sectional area



Section Pictures - 9/23/2022 - CB1-CB2

City YORK, PA	Street RAINBOW CIR	Date 9/23/2022	Pipe Segment Reference CB1-CB2	Section No. 11
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13, 00:05:21, 57.67ft
Miscellaneous Survey Abandoned / CANNOT PASS ROOTS



Inspection report

Date: 9/23/2022	Work Order:	Weather:	Surveyed By: Stew Eleftheriou	Certificate Number: U0318070300187	Pipe Segment Ref.: CB1-CB2
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 57.7'	Length Surveyed: 12.0'

City: YORK, PA	Drainage Area:	Upstream MH: CB1
Street: RAINBOW CIR	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: CB2
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 10"	Sewer Category: SEC	Joints passed: 0
Pipe material: Polyethylene	Purpose:	Joints failed: 0
Lining Method:	Owner:	

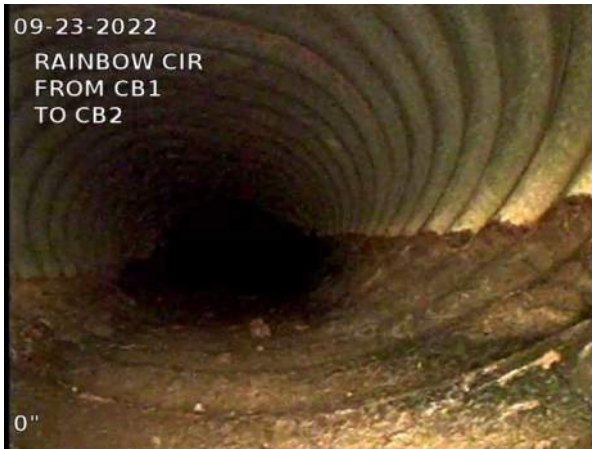
Additional Info:

1:436	Distance	Code	Observation	Counter	Photo	Grade
	0.0	ACB	Catch Basin / CB1	00:00:00	1	
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:00	2	
	0.0	MGO	Miscellaneous General Observation / LINE LEAVING CB1 IS 24 INCH CMP	00:00:00	3	
	0.0	S01 DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST	00:00:00	4	
	2.2	S02 DSGV	Deposits Settled Gravel, 10% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start	00:00:19	5, 6	
	11.3	MGO	Miscellaneous General Observation / 10 INCH CPP PIPE FROM CB2 VISIBLE	00:00:56	7	
	11.3	MGO	Miscellaneous General Observation / 24 INCH CMP BEING USED AS A CONDUIT FOR THE 10 INCH CPP FROM CB2	00:00:56	8, 9	
	12.0	OBP	Obstruction External Pipe or Cable, 40% of cross sectional area from 12 o'clock to 12 o'clock / 10 INCH CPP FROM CB2	00:01:24	10	M5
	12.0	OBI	Obstruction Intruding Through Wall, 40% of cross sectional area from 12 o'clock to 12 o'clock / 10 INCH CPP EXITING LINE THROUGH THE WALL OF THE 24 INCH CMP	00:01:24	11, 12	M5
	12.0	F02 DSGV	Deposits Settled Gravel, 10% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish	00:01:24	13	M2
	12.0	F01 DAE	Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST	00:01:24	14	M2
	12.0	MSA	Miscellaneous Survey Abandoned / COULD NOT PUSH CAMERA BEYOND POINT WHERE 10 INCH CPP IS IN THE LINE	00:01:24	15	
	57.7		End of pipe			

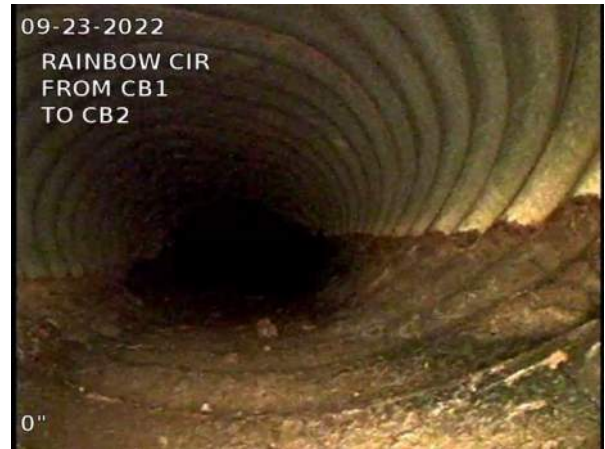
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	5224	5224	0.0	18.0	18.0	0.0	3.0	3.0

Section Pictures - 9/23/2022 - CB1-CB2

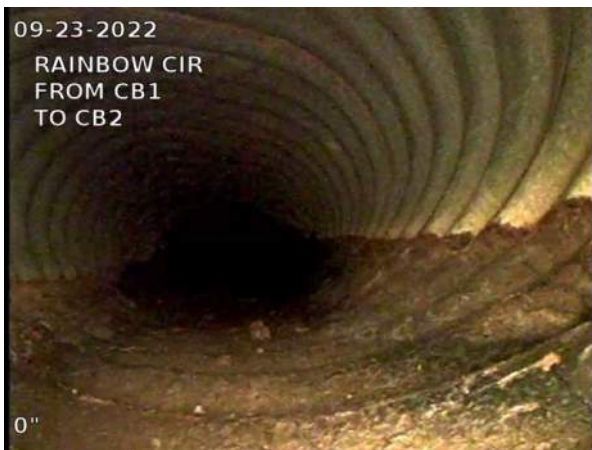
City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB1-CB2	11



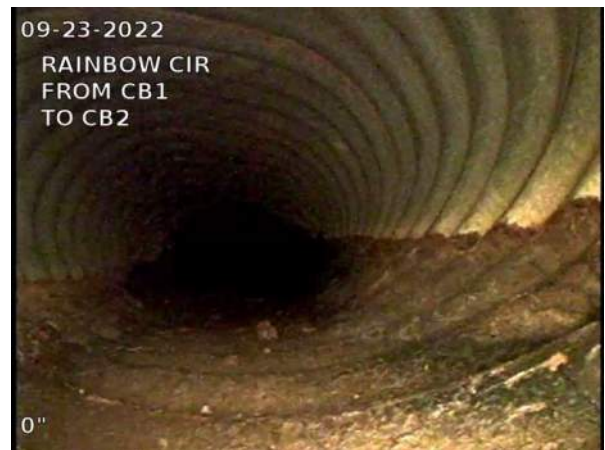
1, 00:00:00, 0.00ft
 Catch Basin / CB1



2, 00:00:00, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:00, 0.00ft
 Miscellaneous General Observation / LINE LEAVING CB1 IS
 24 INCH CMP



4, 00:00:00, 0.00ft
 Deposits Attached Encrustation, 5% of cross sectional area
 from 5 o'clock to 7 o'clock, within 8 inch, Start / RUST

Section Pictures - 9/23/2022 - CB1-CB2

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB1-CB2	11



5, 00:00:19, 2.16ft
 Deposits Settled Gravel, 10% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start



6, 00:00:19, 2.16ft
 Deposits Settled Gravel, 10% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start



7, 00:00:56, 11.25ft
 Miscellaneous General Observation / 10 INCH CPP PIPE FROM CB2 VISIBLE



8, 00:00:56, 11.25ft
 Miscellaneous General Observation / 24 INCH CMP BEING USED AS A CONDUIT FOR THE 10 INCH CPP FROM CB2

Section Pictures - 9/23/2022 - CB1-CB2

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB1-CB2	11



9, 00:00:56, 11.25ft
 Miscellaneous General Observation / 24 INCH CMP BEING USED AS A CONDUIT FOR THE 10 INCH CPP FROM CB2



10, 00:01:24, 12.00ft
 Obstruction External Pipe or Cable, 40% of cross sectional area from 12 o'clock to 12 o'clock / 10 INCH CPP FROM CB2



11, 00:01:24, 12.00ft
 Obstruction Intruding Through Wall, 40% of cross sectional area from 12 o'clock to 12 o'clock / 10 INCH CPP EXITING LINE THROUGH THE WALL OF THE 24 INCH CMP



12, 00:01:24, 12.00ft
 Obstruction Intruding Through Wall, 40% of cross sectional area from 12 o'clock to 12 o'clock / 10 INCH CPP EXITING LINE THROUGH THE WALL OF THE 24 INCH CMP

Section Pictures - 9/23/2022 - CB1-CB2

City	Street	Date	Pipe Segment Reference	Section No.
YORK, PA	RAINBOW CIR	9/23/2022	CB1-CB2	11



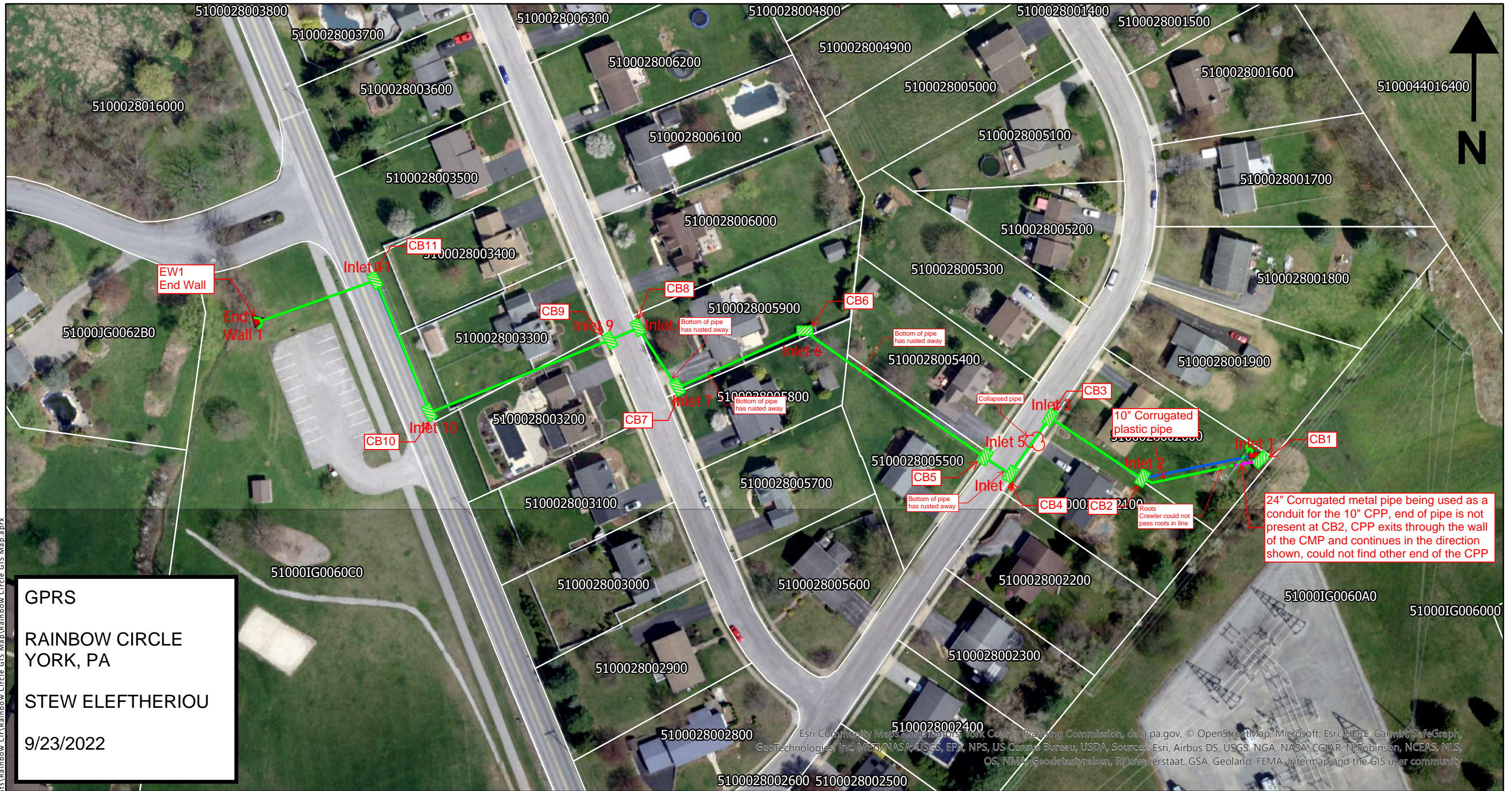
13, 00:01:24, 12.01ft
 Deposits Settled Gravel, 10% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish



14, 00:01:24, 12.01ft
 Deposits Attached Encrustation, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish / RUST



15, 00:01:24, 12.02ft
 Miscellaneous Survey Abandoned / COULD NOT PUSH CAMERA BEYOND POINT WHERE 10 INCH CPP IS IN THE LINE




GPRS
 RAINBOW CIRCLE
 YORK, PA
 STEW ELEFThERIOU
 9/23/2022

C:\Users\benjamin.clemmer\Documents\Rainbow Circle GIS Map\Rainbow Circle GIS Map.aprx


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DOCUMENT PREPARED FOR:



LEGEND:


- Conveyance Pipe
- Catch Basin
- ▶ Endwall

**RAINBOW CIRCLE
 CCTV INSPECTION**

**APPROXIMATE INLET AND
 PIPE LOCATION MAP**

YORK COUNTY, PENNSYLVANIA

SCALE: 1:1,000



N	
DATE:	06/29/2022
PROJECT NUMBER:	2200038.01
DRAWN BY:	BCC
REVIEWED BY:	RAN
APPROVED BY:	RAN
SHEET:	1 OF 1