Profile/Pho	oto Observatior	Report				RedZone
Date:	04/17/2018	Weather:			Coding:	PACP 6.0
Pipe Length (ft)	: 208.7	Owner:	NA		Pre Clean:	Not Known
P.O.#:		Surveyor:	Justin Gonza	les	PSR:	P-504-101-072
Customer:		Clean Date:	01/01/1900		Shape:	с
Street:	ALLEY BETWEEN N	VIRGINIA ST & I	Flow Control:		Not Controlled	
City:	Hobart, IN		Year Renewed	l:		
Location:	Light Highway		Tape/Media #	:		
Purpose:	Not Known		Dia/Height:		10"	
Use:	Sanitary		Material:		СР	
Drain Area:	NA		Lining:			
Category:	NA					
Comment:						
Location Details	5:		Direction of S	urvey:	Downstream	
US MH:	M-504-072	DS MH:	M-504-101	Total	Length Surveyed (ft):	207.1
O&M Index:	2.11	O&M Quick:	4	12B	O&M Rating:	38.00
Structural Index:	3.09	Structural Qu	uick: 5	342	Structural Rating:	176.00
Overall Index:	2.85	Overall Quic	<: 5	343	Overall Rating:	214.00

	Position	Code	Observation	Video (sec)	Grade
M(504-	072				
\mathbf{i}	0.	SAP(S01)	Surface Aggregate Projecting	10	S 3
	.0	AMH	Manhole	21	NA
	0.	MWL	Water Level	32	NA
	15.9	MMC	Material Change	76	NA
	16.3	TF	Tap Factory	89	NA
	18.7	MMC	Material Change	105	NA
	24.4	IS	Infil Stain	128	NA
	27.6	IS	Infil Stain	146	NA
	48.3	MMC	Material Change	199	NA
5	49.0	TF	Tap Factory	213	NA
e di	// 51.6	TF	Tap Factory	230	NA
	// 54.4	MMC	Material Change	247	NA
Camera Direction	_// 63.2	IS	Infil Stain	277	NA
E Ca	-// 63.2	DAE	Deposits Attached Encrustation	288	M 2
		DAE	Deposits Attached Encrustation	305	M 2
	69.2	CS	Crack Spiral	323	S 2
	// 84.1	СМ	Crack Multiple	365	S 3
	_/ [99.4	IR	Infil Runner	408	M 4
	99.4	FS	Fracture Spiral	419	S 3

Thursday, November 16, 2023

99.4	В	Broken	430	S
99.4	TF	Tap Factory	441	N
99.6	IW	Infil Weeper	454	Μ
99.6	CM	Crack Multiple	465	SS
/101.8	FS	Fracture Spiral	481	S
/102.6	TFD	Tap Factory Defective	495	Μ
// 102.6	FL	Fracture Longitudinal	506	S
104.8	MMC	Material Change	522	N
113.3	СМ	Crack Multiple	551	S S
140.0	CC	Crack Circumferential	616	S :
142.3	IS	Infil Stain	632	N
144.8	MMC	Material Change	649	N
145.0	FM	Fracture Multiple	661	S 4
145.1	FM	Fracture Multiple	673	S 4
146.0	TF	Tap Factory	688	N
/146.0	CM	Crack Multiple	699	S
//148.8	TF	Tap Factory	717	N
/149.7	FS	Fracture Spiral	731	S
// 151.4	MMC	Material Change	746	N
153.8	IW	Infil Weeper	762	М
159.6	DAE(S03)	Deposits Attached Encrustation	785	М
177.6	MMC	Material Change	833	NA
178.3	DAGS	Deposits Attached Grease	846	М
178.3	TF	Tap Factory	857	N
// 180.8	MMC	Material Change	874	N
/197.1	MWL	Water Level	918	N
/ 205.2	HSV	Hole Soil Visible	946	S !
205.2	MMC	Material Change	958	N
205.3	HVV	Hole Void Visible	970	S
206.0	В	Broken	983	S
206.0	DSC	Deposits Settled Compacted	995	М
/207.1	SAP(F01)	Surface Aggregate Projecting	1008	S
/ 207.1	MSA	Abandoned Survey	1019	N
207.1	DAE(F03)	Deposits Attached Encrustation	1031	M



Code:SAPDescription:Surface Aggregate Projecting

Distance (ft):	.0
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S01
Within 8" of Joint:	YES
Remarks:	WANDER



Code: Description:	AMH Manhole
Distance (ft):	.0
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	M-504-072



Code: MWL Description: Water Level

Distance (ft):	.0
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



Code:	MMC
Description:	Material Change
Distance (ft)	15.9

Distance (ft):	15.9
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	CP TP VCP



Code:	TF
Description:	Tap Factory

Distance (ft):	16.3
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	11
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	



Code:	MMC
Description:	Material Change
Distance (ft):	18.7
Structural Grade:	0
OR M. Cuardas	•

Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	VCP TO CP



Code:	IS
Description:	Infil Stain

24.4
0
0
4
5
YES



Code: Description:	IS Infil Stain
Distance (ft):	27.6
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	4
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: MMC Description: Material Change

Distance (ft):	48.3
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	CP TO VCP

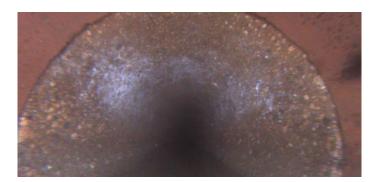


Code:	TF
Description:	Tap Factory
Distance (ft):	49.0
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	1
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	



Code:	TF
Description:	Tap Factory

Distance (ft):	51.6
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	11
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	



Code:	ММС
Description:	Material Change

Distance (ft):	54.4
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	CP TO VCP

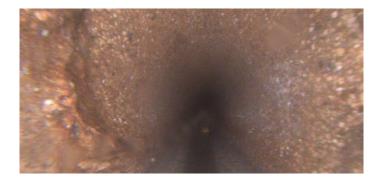


Code: Description:	IS Infil Stain
Distance (ft):	63.2
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	8
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



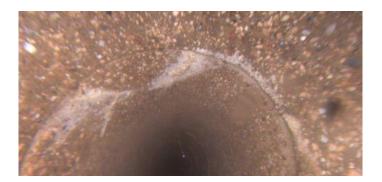
Code:	DAE
Description:	Deposits Attached Encrustation

Distance (ft):	63.2
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	3
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code:DAEDescription:Deposits Attached Encrustation

Distance (ft):	66.2
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	7
Clock To:	9
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	CS Crack Spiral
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index:	69.2 2 0 10 12
Within 8" of Joint: Remarks:	YES



Code:	СМ
Description:	Crack Multiple

Distance (ft):	84.1
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	9
Clock To:	2
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	IR Infil Runner
Distance (ft):	99.4
Structural Grade:	0
O&M Grade:	4
Clock Start/From:	11
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	



Code:FSDescription:Fracture Spiral

Distance (ft):	99.4
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	10
Clock To:	12
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	B Broken
Distance (ft):	99.4
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	10
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	



Code:	TF
Description:	Tap Factory

Distance (ft):	99.4
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	11
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	



Code: Description:	IW Infil Weeper
Distance (ft):	99.6
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	8
Clock To:	12
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	



Code:CMDescription:Crack Multiple

Distance (ft):	99.6
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	9
Clock To:	12
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	



Code:	FS
Description:	Fracture Spiral
	101.0
Distance (ft):	101.8
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	12
Clock To:	2
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



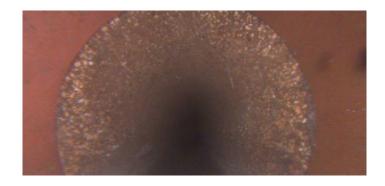
Code:TFDDescription:Tap Factory Defective

Distance (ft):	102.6
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	1
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	fractured



Code:	FL
Description:	Fracture Longitudinal
D (1)	
Distance (ft):	102.6
Structural Grade:	3
O&M Grade:	0

O&M Grade:	0	
Clock Start/From:	12	
Clock To:		
1st Value:		
2nd Value:		
Value Percent:		
Continuous Index:		
Within 8" of Joint:		
Remarks:		

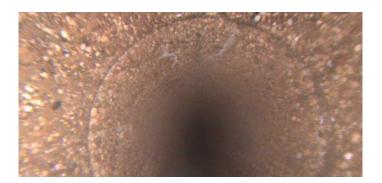


Code:MMCDescription:Material Change

Distance (ft):	104.8
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	VCP

Code:

Description:



Distance (ft):	113.3
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	11
Clock To:	12
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	

СМ

Crack Multiple



Code:CCDescription:Crack Circumferential

Distance (ft):	140.0
Structural Grade:	1
O&M Grade:	0
Clock Start/From:	3
Clock To:	9
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	



Code:	IS
Description:	Infil Stain
Distance (ft):	142.3
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	4
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code:MMCDescription:Material Change

Distance (ft):	144.8
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	CP TO VCP

Code:

Remarks:



Description:	Fracture Multiple
Distance (ft):	145.0
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	10
Clock To:	2
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES

FM



Code:FMDescription:Fracture Multiple

Distance (ft):	145.1
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	11
Clock To:	1
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	TF Tap Factory
Distance (ft):	146.0
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	10
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	

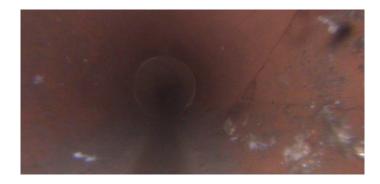


Code:CMDescription:Crack Multiple

Distance (ft):	146.0
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	12
Clock To:	2
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	



Code: Description:	TF Tap Factory
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:	148.8 0 0 1 4.000
Remarks:	



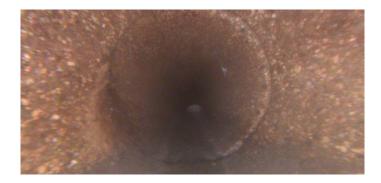
Code:FSDescription:Fracture Spiral

Distance (ft):	149.7
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	1
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



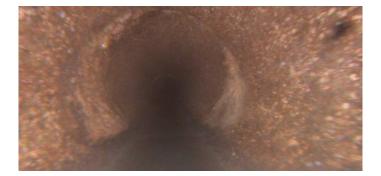
Code:	ММС
Description:	Material Change

Distance (ft):	151.4
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	VCP TO CP



Code:	IW
Description:	Infil Weeper

Distance (ft):	153.8
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	7
Clock To:	9
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code:	DAE
Description:	Deposits

Deposits Attached Encrustation

Distance (ft):	159.6
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	S03
Within 8" of Joint:	YES
Remarks:	WANDER



Code: MMC Description: Material Change

1/7.0
0
0
NO
VCP TO CP



Description:	Deposits Attached Grease
Distance (ft):	178.3
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	7
Clock To:	11
1st Value:	
2nd Value:	
Value Percent:	5.000

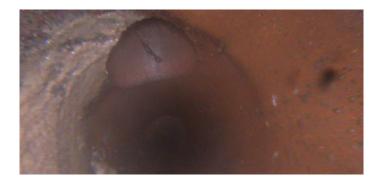
Continuous Index: Within 8" of Joint:

Remarks:

Code:

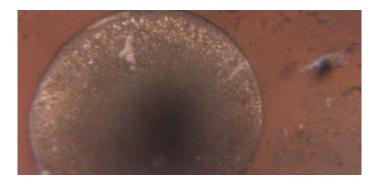
DAGS

NO



Code:	TF
Description:	Tap Factory

Distance (ft):	178.3
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	11
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	



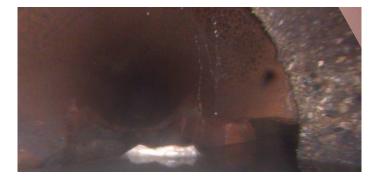
Code:	ММС
Description:	Material Change

Distance (ft):	180.8
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	VCP TO CP



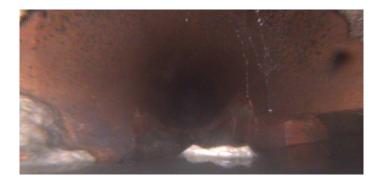
Code: MWL Description: Water Level Distance (ft): 197.1

0
0
10.000
NO



Code:	HSV
Description:	Hole Soil Visible

Distance (ft):	205.2
Structural Grade:	5
O&M Grade:	0
Clock Start/From:	5
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code:MMCDescription:Material Change

Distance (ft):	205.2
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	CP TO VCP

Code:

Description:



Distance (ft):	205.3
Structural Grade:	5
O&M Grade:	0
Clock Start/From:	3
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	

HVV

Hole Void Visible



Code:	В
Description:	Broken

Distance (ft):	206.0
Structural Grade:	5
O&M Grade:	0
Clock Start/From:	3
Clock To:	7
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	



Code:	DSC
Description:	Deposi

Deposits Settled Compacted

Distance (ft):	206.0
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	6
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



Code:SAPDescription:Surface Aggregate Projecting

Distance (ft):	207.1
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	F01
Within 8" of Joint:	YES
Remarks:	WANDER

Code:

Description:



Distance (ft):	207.1
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	Robot stopped at external drop connection

MSA

Abandoned Survey

Code: Description: DAE Deposits Attached Encrustation



Distance (ft):	207.1
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	F03
Within 8" of Joint:	YES
Remarks:	WANDER