IWJS

INDUSTRIAL WATER JETTING SYSTEMS

CCTV SURVEY INSPECTION REPORT

Client:	JBA Consulting
Location:	Gibb Syke Culvert, Cowling
Date:	23rd January 2018

Industrial Water Jetting Systems Ltd

Dickens House, Old Stowmarket Road, Woolpit, Bury St. Edmunds IP22 9QS

Tel: 01359 242606 Fax: 01359 242 621

Web: www.iwjs.co.uk Email: surveys@iwjs.co.uk

IWJS Ltd
250, Old London Road
Colchester
Tel.: 01206 212 244
Fax:
Email: peter.maasz@iwjs.co.uk

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Project Name:	Project number:	Date:	Contact:	
2017s6518 Gibb Syke culver	2017s6518	16/11/2017	David Barton	

IWJS Ltd
250, Old London Road
Colchester
Tel.: 01206 212 244
Fax:
Email peter.maasz@iwjs.co.uk

Inspection Summary

Project Name:	Project number:	Contact:	Date:	
2017s6518 Gibb Syke culvert(JBA)	2017s6518	David Barton	16/11/2017	

Total Length of sewer network	**302.70 m**
Inspected Length of sewer network	**302.70 m**
Not inspected Length of sewer network	**0.00 m**
Total Length of sewer network (abandoned)	**155.00 m**
Inspected Length of Sewer network (abandoned)	**42.90 m**
Not inspected Length of sewer network (abandoned)	**112.10 m**
Total Length of house connections (satellite)	**0.00 m**
Inspected Length of house connections (satellite)	**0.00 m**
Not inspected Length of house connections (satellite)	**0.00 m**
Number of Sections	**6**
Number of sections (abandoned)	**3**
Number of house connections	**0**
Number of Photos	**7**

Inspection Summary

Project Name:	Project Number:	Contact:	Date:	
2017s6518 Gibb Syke culvert(JBA)	2017s6518	David Barton	16/11/2017	

Place:	Cowling	Section length:	50.90 m
Road:	Keighley Road	Pipe length:	
U/S MH:	MH2	Material:	Concrete
D/S MH:	MH3	Shape:	Circular

MH2	0.00	MH	Start node type, manhole, reference number : MH2	0
	0.00	WL	Water level, 10% of the vertical dimension	0
MH3	50.90	MHF	Finish node type, manhole reference number: MH3	0

Place:	Cowling	Section length:	39.30 m
Road:	Keighley Road	Pipe length:	
U/S MH:	MH3	Material:	Concrete
D/S MH:	MH4	Shape:	Circular

MH3	0.00	MH	Start node type, manhole, reference number : MH3	0
	0.00	WL	Water level, 10% of the vertical dimension	0
MH4	39.30	MHF	Finish node type, manhole reference number: MH4	0

Place:	Cowling	Section length:	80.40 m
Road:	Keighley Road	Pipe length:	
U/S MH:	MH4	Material:	Concrete
D/S MH:	MH5	Shape:	Circular

MH4	0.00	MH	Start node type, manhole, reference number : MH4	0
	0.00	WL	Water level, 10% of the vertical dimension	0
	79.20	IGJ	Infiltration, gushing at joint, from 7 to 10 o'clock	0
MH5	80.40	MHF	Finish node type, manhole reference number: MH5	0

Inspection Summary

Project Name:	Project Number:	Contact:	Date:	
2017s6518 Gibb Syke culvert(JBA)	2017s6518	David Barton	16/11/2017	

Place:	Cowling	Section length:	58.60 m
Road:	Keighley Road	Pipe length:	
U/S MH:	MH5	Material:	Concrete
D/S MH:	MH6	Shape:	Circular

MH5	0.00	MH	Start node type, manhole, reference number : MH5	0
	0.00	WL	Water level, 10% of the vertical dimension	0
MH6	58.60	MHF	Finish node type, manhole reference number: MH6	0

Place:	Cowling	Section length:	3.60 m
Road:	Keighley Road	Pipe length:	
U/S MH:	MH1A	Material:	Concrete
D/S MH:	MH1	Shape:	Circular

MH1A	0.00	MH	Start node type, manhole, reference number : MH1A	0
	0.00	WL	Water level, 10% of the vertical dimension	0
MH1	3.60	MHF	Finish node type, manhole reference number: MH1	0

Place:	Cowling	Section length:	69.90 m
Road:	Keighley Road	Pipe length:	
U/S MH:	MH1	Material:	Concrete
D/S MH:	MH1B	Shape:	Circular

MH1	0.00	MH	Start node type, manhole, reference number : MH1	0
	0.00	WL	Water level, 10% of the vertical dimension	0
MH1B	69.90	MHF	Finish node type, manhole reference number: MH1B	0

IWJS Ltd
250, Old London Road
Colchester
Tel: 01206 212 244
Fax:
Email: peter.maasz@iwjs.co.uk

Project-information

Project name :	Project Number :	Contact :	Date :
2017s6518 Gibb Syke culvert(JBA)	**2017s6518**	**David Barton**	**16/11/2017**

Client:	**JBA Consulting**
Contact Name:	**David Barton**
Department:	**Senior Engineer**
Road:	**Bank Quay House, Sankey Street**
Town:	**Warrington**
County:	**Cheshire, WA1 1NN**
Telephone:	**+441925570876**
Fax:	
Mobile:	**+441925570876**
E-mail:	**david.barton@jbaconsulting.com**

Site:	**Gibb Syke Culvert**
Contact Name:	**David Barton**
Department:	**Senior Engineer**
Road:	**Keighley Road**
Town:	**Keighley**
County:	**West Yorkshire**
Telephone:	**+441925570876**
Fax:	
Mobile:	**+441925570876**
E-mail:	**david.barton@jbaconsulting.com**

Contractor	**IWJS Ltd**
Contact Name:	**Peter Maasz**
Department:	**Business Development Director**
Road:	**250, Old London Road**
Town:	**Colchester**
County:	**Essex, CO6 1EN**
Telephone:	**01206 212 244**
Fax:	
Mobile:	**07985 953 670**
E-mail:	**peter.maasz@iwjs.co.uk**

Place :

IWJS Ltd
250, Old London Road
Colchester
Tel: 01206 212 244
Fax:
peter.maasz@iwjs.co.uk

Defect Grade Description

Project Name :	Project number :	Contact :	Date :
2017s6518 Gibb Syke culvert(JBA)	**2017s6518**	**David Barton**	**16/11/2017**

1:

Brick: No Structural Defects
Pipe: No Structural Defects

Acceptable Structural Condition

2:

Brick: Minor cracking, Surface mortar loss, Spalling slight, wear slight
Pipe: Circumfrential crack, Moderate joint defects, Spalling slight, Wear slight

Minor collapse risk in short term but potential for further deterioration

3:

Brick: Total mortorloss without other defects, single brick displaced, Deformation up to 5%, Spalling medium, Wear medium
Pipe: Fractures with deformation up tp 5%, Longitudinal cracking or mulitlpe cracking, Minor loss of level, More severe joint

! Collapse unlikely in near future but future deterioration likely !

4:

Brick: Total mortorloss with deformation greater than 10%, Deformation up to 10% and fractured, Displaced/hanging brickwork, Small number of missing bricks
Pipe: Broken, Deformation up to 10% and broken,, Fractured with deformation 5 - 10%, Multipl

!! Collapse likely in foreseeable future !!

5:

Brick: Already Collapsed, Missing invert, Deformation over 10% and fractured, Displaced/hanging brickwork and deformation over 10%, Extensive missing bricks
Pipe: Already collapsed, Deformation over 10% and broken, Extensive areas of fabric missin

!!! Collapsed or collapse imminent !!!

IWJS Ltd
250, Old London Road
Street : Colchester
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Fax:
Email: peter.maasz@iwjs.co.uk

Inspection report

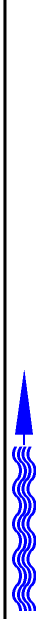
Date :	Job number :	Section Type :	Operator :	Section number :	PLR SUFFIX:
16/11/2017			**MS**	**1**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Type of Drain :
rain	**CE62UYP**	**Pan & Tilt**		**no**	**Gravity drain/sewer**

Place :	**Cowling**	Location details:		U/S MH :	**MH1B**
Road :	**Keighley Road**	Catchment:		U/S Depth :	**2.3**
Location	**Fields**	Pipe Shape :	**Circular**	D/S MH :	**MH2**
Inspection	**MH2 (U/S) MH1B**	Pipe Length	2.50 m	D/S Depth :	**1.8**

Use:	**Culverted watercourse**	Pipe Width :	
Year laid :	**Z**	Pipe Diameter :	**900 mm**
Purpose :	**Sample survey to determine asset condition**	Pipe material :	**Concrete**
Total length :	**70.00 m**	Lining :	

Comment : **Wrong u/s mh on m-peg**

1:165 **Depth: 1.8**



Position		Code	Observation	Photo	Grade
MH2					
0.00		MH	Start node type, manhole, reference number : MH2		0
0.00		WL	Water level, 20% of the vertical dimension		0
2.20		CXI	Connection intruding, at 10 o'clock, diameter 300mm, intrusion 20%		3
2.90		DER	Settled deposits, coarse, 30% cross-sectional area loss	1_1_5_A.JPG	4
4.30		OBB	Other obstacles, brick or masonry in invert, from 5 to 8 o'clock, 30% cross-sectional area loss	1_1_6_A.JPG	5
7.20	**S01**	DER	Settled deposits, coarse, 30% cross-sectional area loss, Start	1_1_7_A.JPG	4
7.20		WL	Water level, 30% of the vertical dimension		0
13.50	**F01**	DER	Settled deposits, coarse, 30% cross-sectional area loss, End		4
13.50	**S02**	DER	Settled deposits, coarse, 40% cross-sectional area loss, Start	1_1_10_A.JPG	4
19.20	**F02**	DER	Settled deposits, coarse, 40% cross-sectional area loss, End		4
19.20	**S03**	DER	Settled deposits, coarse, 50% cross-sectional area loss, Start	1_1_12_A.JPG	4
19.30	**F03**	DER	Settled deposits, coarse, 50% cross-sectional area loss, End		4
19.30		SA	Survey abandoned Remarks: Due to amount of debris	1_1_14_A.JPG	0

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	**0**	**0**	**0**	**1**	**6**	**20.8**	**4.03**	**77.8**	**5**

IWJS Ltd
250, Old London Road
Colchester
Tel: 01206 212 244
Fax:
Email: peter.maasz@iwjs.co.uk

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
Cowling	**Keighley Road**	**16/11/2017**	**1**	**X**

Photo: 1_1_5_A.JPG
2.9m, Settled deposits, coarse, 30% cross-sectional area loss

Photo: 1_1_6_A.JPG
4.3m, Other obstacles, brick or masonry in invert, from 5 to 8 o'clock, 30% cross-sectional area loss

IWJS Ltd
250, Old London Road
Colchester
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Fax:
Email: peter.maasz@iwjs.co.uk

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
Cowling	**Keighley Road**	**16/11/2017**	**1**	**X**

Photo: 1_1_7_A.JPG
7.2m, Settled deposits, coarse, 30% cross-sectional area loss, Start

Photo: 1_1_10_A.JPG
13.5m, Settled deposits, coarse, 40% cross-sectional area loss, Start

IWJS Ltd
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Colchester
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Fax:
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Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
Cowling	**Keighley Road**	**16/11/2017**	**1**	**X**

Photo: 1_1_12_A.JPG
19.2m, Settled deposits, coarse, 50% cross-sectional area loss, Start

Photo: 1_1_14_A.JPG
19.3m, Survey abandoned

IWJS Ltd
250, Old London Road
Street : Colchester
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Fax:
Email: peter.maasz@iwjs.co.uk

Inspection report

Date :	Job number :	Section Type :	Operator :	Section number :	PLR SUFFIX:
16/11/2017			**MS**	**2**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Type of Drain :
rain	**CE62UYP**	**Pan & Tilt**		**no**	**Gravity drain/sewer**

Place :	**Cowling**	Location details:		U/S MH :	**MH2**
Road :	**Keighley Road**	Catchment:		U/S Depth :	**1.8**
Location	**Fields**	Pipe Shape :	**Circular**	D/S MH :	**MH3**
Inspection	**MH2 (D/S) MH3**	Pipe Length	2.50 m	D/S Depth :	**3.5**

Use:	**Culverted watercourse**	Pipe Width :	
Year laid :	**Z**	Pipe Diameter :	**900 mm**
Purpose :	**Sample survey to determine asset condition**	Pipe material :	**Concrete**
Total length :	**50.90 m**	Lining :	

Comment :

1:405 Position	Code	Observation	Photo	Grade
Depth: 1.8				
MH2				
0.00	MH	Start node type, manhole, reference number : MH2		0
0.00	WL	Water level, 10% of the vertical dimension		0
50.90	MHF	Finish node type, manhole reference number: MH3		0
MH3				
Depth: 3.5				

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**1**

IWJS Ltd
250, Old London Road
Street : Colchester
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Fax:
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Inspection report

Date :	Job number :	Section Type :	Operator :	Section number :	PLR SUFFIX:
16/11/2017			**MS**	**3**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Type of Drain :
rain	**CE62UYP**	**Pan & Tilt**		**no**	**Gravity drain/sewer**

Place :	**Cowling**	Location details:		U/S MH :	**MH3**
Road :	**Keighley Road**	Catchment:		U/S Depth :	**3.5**
Location	**Fields**	Pipe Shape :	**Circular**	D/S MH :	**MH4**
Inspection	**MH3 (D/S) MH4**	Pipe Length	2.50 m	D/S Depth :	**4.23**

Use:	**Culverted watercourse**	Pipe Width :	
Year laid :	**Z**	Pipe Diameter :	**900 mm**
Purpose :	**Sample survey to determine asset condition**	Pipe material :	**Concrete**
Total length :	**39.30 m**	Lining :	

Comment :

1:315 Position	Code	Observation	Photo	Grade
Depth: 3.5				
MH3				
0.00	MH	Start node type, manhole, reference number : MH3		0
0.00	WL	Water level, 10% of the vertical dimension		0
39.30	MHF	Finish node type, manhole reference number: MH4		0
MH4				
Depth: 4.23				

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**1**

IWJS Ltd
250, Old London Road
Street : Colchester
Tel: 01206 212 244
Fax:
Email: peter.maasz@iwjs.co.uk

Inspection report

Date :	Job number :	Section Type :	Operator :	Section number :	PLR SUFFIX:
16/11/2017			**MS**	**4**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Type of Drain :
rain	**CE62UYP**	**Pan & Tilt**		**no**	**Gravity drain/sewer**

Place :	**Cowling**	Location details:		U/S MH :	**MH4**
Road :	**Keighley Road**	Catchment:		U/S Depth :	**4.23**
Location	**Fields**	Pipe Shape :	**Circular**	D/S MH :	**MH5**
Inspection	**MH4 (D/S) MH5**	Pipe Length	2.50 m	D/S Depth :	**4.53**

Use:	**Culverted watercourse**	Pipe Width :	
Year laid :	**Z**	Pipe Diameter :	**900 mm**
Purpose :	**Sample survey to determine asset condition**	Pipe material :	**Concrete**
Total length :	**80.40 m**	Lining :	

Comment :

1:645 Position	Code	Observation	Photo	Grade
Depth: 4.23				
MH4				
0.00	MH	Start node type, manhole, reference number : MH4		0
0.00	WL	Water level, 10% of the vertical dimension		0
79.20	IGJ	Infiltration, gushing at joint, from 7 to 10 o'clock	5_5_24_A.JPG	0
80.40	MHF	Finish node type, manhole reference number: MH5		0
MH5				
Depth: 4.53				

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**1**

IWJS Ltd
250, Old London Road
Colchester
Tel: 01206 212 244
Fax:
Email: peter.maasz@iwjs.co.uk

Inspection pictures

Place :	Road :	Date :	Section number :	PLR Suffix :
Cowling	**Keighley Road**	**16/11/2017**	**4**	**X**

Photo: 5_5_24_A.JPG
79.2m, Infiltration, gushing at joint, from 7 to 10 o'clock

IWJS Ltd
250, Old London Road
Street : Colchester
Tel: 01206 212 244
Fax:
Email: peter.maasz@iwjs.co.uk

Inspection report

Date :	Job number :	Section Type :	Operator :	Section number :	PLR SUFFIX:
16/11/2017			**MS**	**5**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Type of Drain :
rain	**CE62UYP**	**Pan & Tilt**		**no**	**Gravity drain/sewer**

Place :	**Cowling**	Location details:		U/S MH :	**MH5**
Road :	**Keighley Road**	Catchment:		U/S Depth :	**4.53**
Location	**Fields**	Pipe Shape :	**Circular**	D/S MH :	**MH6**
Inspection	**MH5 (D/S) MH6**	Pipe Length	2.50 m	D/S Depth :	**1**

Use:	**Culverted watercourse**	Pipe Width :	
Year laid :	**Z**	Pipe Diameter :	**900 mm**
Purpose :	**Sample survey to determine asset condition**	Pipe material :	**Concrete**
Total length :	**58.60 m**	Lining :	

Comment :

1:465 Position	Code	Observation	Photo	Grade
Depth: 4.53				
MH5				
0.00	MH	Start node type, manhole, reference number : MH5		0
0.00	WL	Water level, 10% of the vertical dimension		0
58.60	MHF	Finish node type, manhole reference number: MH6		0
MH6				
Depth: 1				

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**1**

IWJS Ltd
250, Old London Road
Street : Colchester
Tel: 01206 212 244
Fax:
Email: peter.maasz@iwjs.co.uk

Inspection report

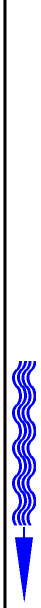
Date :	Job number :	Section Type :	Operator :	Section number :	PLR SUFFIX:
08/01/2018			**MS**	**6**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Type of Drain :
no rain or snow	**CE62UYP**	**Pan & Tilt**		**no**	**Gravity drain/sewer**

Place :	**Cowling**	Location details:		U/S MH :	**MH6**
Road :	**Keighley Road**	Catchment:		U/S Depth :	**1**
Location	**Fields**	Pipe Shape :	**Circular**	D/S MH :	**BRANCH**
Inspection	**MH6 (D/S) BRANCH**	Pipe Length	2.50 m	D/S Depth :	

Use:	**Culverted watercourse**	Pipe Width :	
Year laid :	**Z**	Pipe Diameter :	**900 mm**
Purpose :	**Sample survey to determine asset condition**	Pipe material :	**Concrete**
Total length :	**15.00 m**	Lining :	

Comment :

1:105 **Depth: 1**



Position	Code	Observation	Photo	Grade
MH6				
0.00	MH	Start node type, manhole, reference number : MH6		0
0.00	WL	Water level, 10% of the vertical dimension		0
12.10	LD	Line deviates down		0
12.10	REM	General remark Remarks: Possible cascade into branch of old culvert		0
12.10	SA	Survey abandoned Remarks: Due to cascade		0

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**1**

IWJS Ltd
250, Old London Road
Street : Colchester
Tel: 01206 212 244
Fax:
Email: peter.maasz@iwjs.co.uk

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Date :	Job number :	Section Type :	Operator :	Section number :	PLR SUFFIX:
08/01/2018			**MS**	**7**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Type of Drain :
no rain or snow	**CE62UYP**	**Pan & Tilt**		**no**	**Gravity drain/sewer**

Place :	**Cowling**	Location details:		U/S MH :	**MH1A**
Road :	**Keighley Road**	Catchment:		U/S Depth :	**2.33**
Location	**Gardens**	Pipe Shape :	**Circular**	D/S MH :	**MH1**
Inspection	**MH1A (D/S) MH1**	Pipe Length	2.50 m	D/S Depth :	**2.3**

Use:	**Culverted watercourse**	Pipe Width :	
Year laid :	**Z**	Pipe Diameter :	**900 mm**
Purpose :	**Sample survey to determine asset condition**	Pipe material :	**Concrete**
Total length :	**3.60 m**	Lining :	

Comment :

1:50	Position	Code	Observation	Photo	Grade
Depth: 2.33					
MH1A					
	0.00	MH	Start node type, manhole, reference number : MH1A		0
	0.00	WL	Water level, 10% of the vertical dimension		0
	3.60	MHF	Finish node type, manhole reference number: MH1		0
MH1					
Depth: 2.3					

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**1**

IWJS Ltd
250, Old London Road
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08/01/2018			**MS**	**8**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Type of Drain :
no rain or snow	**CE62UYP**	**Pan & Tilt**		**no**	**Gravity drain/sewer**

Place :	**Cowling**	Location details:		U/S MH :	**MH1**
Road :	**Keighley Road**	Catchment:		U/S Depth :	**2.3**
Location	**Gardens**	Pipe Shape :	**Circular**	D/S MH :	**MH1B**
Inspection	**MH1 (D/S) MH1B**	Pipe Length	2.50 m	D/S Depth :	**2.6**

Use:	**Culverted watercourse**	Pipe Width :	
Year laid :	**Z**	Pipe Diameter :	**900 mm**
Purpose :	**Sample survey to determine asset condition**	Pipe material :	**Concrete**
Total length :	**69.90 m**	Lining :	

Comment : **Wrong d/s mh on m-peg**

1:555 Position	Code	Observation	Photo	Grade
Depth: 2.3				
MH1				
0.00	MH	Start node type, manhole, reference number : MH1		0
0.00	WL	Water level, 10% of the vertical dimension		0
69.90	MHF	Finish node type, manhole reference number: MH1B		0
MH1B				
Depth: 2.6				

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**1**

IWJS Ltd
250, Old London Road
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Tel: 01206 212 244
Fax:
Email: peter.maasz@iwjs.co.uk

Inspection report

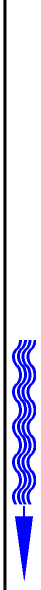
Date :	Job number :	Section Type :	Operator :	Section number :	PLR SUFFIX:
08/01/2018			**MS**	**9**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Type of Drain :
no rain or snow	**CE62UYP**	**Pan & Tilt**		**no**	**Gravity drain/sewer**

Place :	**Cowling**	Location details:		U/S MH :	**MH1B**
Road :	**Keighley Road**	Catchment:		U/S Depth :	**2.6**
Location	**Fields**	Pipe Shape :	**Circular**	D/S MH :	**MH2**
Inspection	**MH1B (D/S) MH2**	Pipe Length	2.50 m	D/S Depth :	**1.8**

Use:	**Culverted watercourse**	Pipe Width :	
Year laid :	**Z**	Pipe Diameter :	**900 mm**
Purpose :	**Sample survey to determine asset condition**	Pipe material :	**Concrete**
Total length :	**70.00 m**	Lining :	

Comment : **Attempted overlap**

1:105 **Depth: 2.6**



Position	Code	Observation	Photo	Grade
MH1B				
0.00	MH	Start node type, manhole, reference number : MH1B		0
0.00	WL	Water level, 10% of the vertical dimension		0
7.80	WL	Water level, 50% of the vertical dimension		0
11.10	CUW	Loss of vision, camera under water		0
11.20	REM	General remark Remarks: Possible debris under water		0
11.50	SA	Survey abandoned Remarks: Due to camera under water		0

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**1**

Place :

IWJS Ltd
250, Old London Road
Colchester
Tel: 01206 212 244
Fax:
Email: peter.maasz@iwjs.co.uk

/ Main sections

Project name :	Project number :	Contact :	Date :
2017s6518 Gibb Syke culvert(JBA)	**2017s6518**	**David Barton**	**16/11/2017**

Nr.	US MH	DS MH	Date	Road	Tape No.	Material	m	(m)
1	MH1B	MH2	16/11/2017	Keighley Road		Concrete	70.00	**19.30**
2	MH2	MH3	16/11/2017	Keighley Road		Concrete	50.90	50.90
3	MH3	MH4	16/11/2017	Keighley Road		Concrete	39.30	39.30
4	MH4	MH5	16/11/2017	Keighley Road		Concrete	80.40	80.40
5	MH5	MH6	16/11/2017	Keighley Road		Concrete	58.60	58.60
6	MH6	BRANCH	08/01/2018	Keighley Road		Concrete	15.00	**12.10**
7	MH1A	MH1	08/01/2018	Keighley Road		Concrete	3.60	3.60
8	MH1	MH1B	08/01/2018	Keighley Road		Concrete	69.90	69.90
9	MH1B	MH2	08/01/2018	Keighley Road		Concrete	70.00	**11.50**

Pipe size: CIRCULAR 900 = 457.7 m (345.6 m)

All sections = 457.7 m (345.6 m)

IWJS Ltd
250, Old London Road
Colchester
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Fax:
Email: peter.maasz@iwjs.co.uk

Service / Operational Defects (SRM 4)

Project name :	Project Number :	Contact :	Date :
2017s6518 Gibb Syke culvert(JBA)	**2017s6518**	**David Barton**	**16/11/2017**

No.	PLR	Dir.	Use	Shape / Size	Date	Mat.	Total Length	Insp. Length	Peak HWG	Peak Score	Grade	Mean Score	Total Score
1	MH1BX	U	W	C 900	16/11/2017	CO	70.00	19.30	3	20.8	5	4.03	77.8
2	MH2X	D	W	C 900	16/11/2017	CO	50.90	50.90	-	0	1	0	0
3	MH3X	D	W	C 900	16/11/2017	CO	39.30	39.30	-	0	1	0	0
4	MH4X	D	W	C 900	16/11/2017	CO	80.40	80.40	5	0	1	0	0
5	MH5X	D	W	C 900	16/11/2017	CO	58.60	58.60	-	0	1	0	0
6	MH6X	D	W	C 900	08/01/2018	CO	15.00	12.10	-	0	1	0	0
7	MH1AX	D	W	C 900	08/01/2018	CO	3.60	3.60	-	0	1	0	0
8	MH1X	D	W	C 900	08/01/2018	CO	69.90	69.90	-	0	1	0	0
9	MH1BX	D	W	C 900	08/01/2018	CO	70.00	11.50	-	0	1	0	0

IWJS Ltd
250, Old London Road
Colchester
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Structural Defects (SRM 4)

Project name :	Project Number :	Contact :	Date :
2017s6518 Gibb Syke culvert(JBA)	**2017s6518**	**David Barton**	**16/11/2017**

No.	PLR	Dir.	Use	Shape / Size	Date	Mat.	Total Length	Insp. Length	Peak HWG	Peak Score	Grade	Mean Score	Total Score
1	MH1BX	U	W	C 900	16/11/2017	CO	70.00	19.30	-	0	1	0	0
2	MH2X	D	W	C 900	16/11/2017	CO	50.90	50.90	-	0	1	0	0
3	MH3X	D	W	C 900	16/11/2017	CO	39.30	39.30	-	0	1	0	0
4	MH4X	D	W	C 900	16/11/2017	CO	80.40	80.40	-	0	1	0	0
5	MH5X	D	W	C 900	16/11/2017	CO	58.60	58.60	-	0	1	0	0
6	MH6X	D	W	C 900	08/01/2018	CO	15.00	12.10	-	0	1	0	0
7	MH1AX	D	W	C 900	08/01/2018	CO	3.60	3.60	-	0	1	0	0
8	MH1X	D	W	C 900	08/01/2018	CO	69.90	69.90	-	0	1	0	0
9	MH1BX	D	W	C 900	08/01/2018	CO	70.00	11.50	-	0	1	0	0

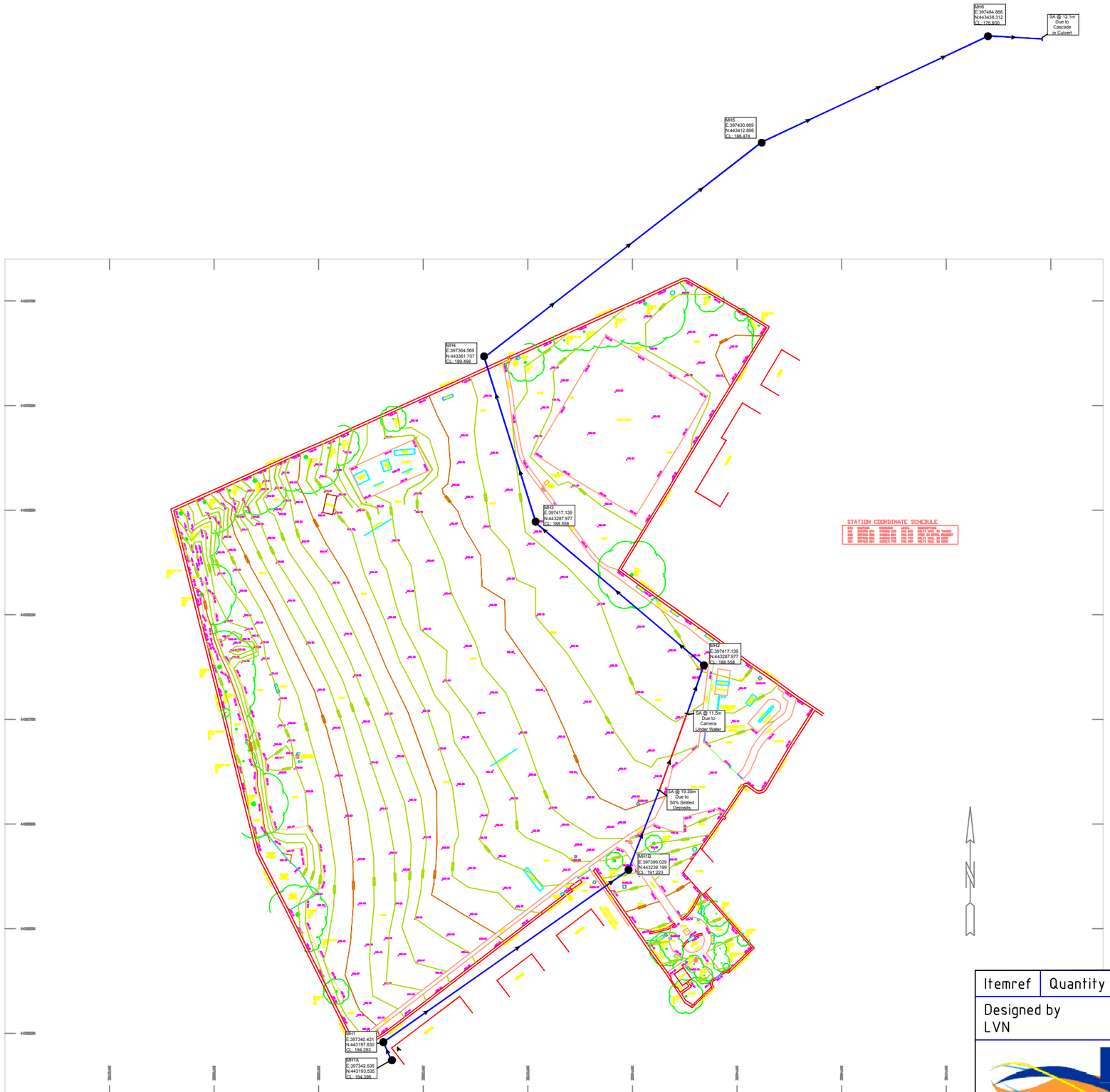
Grade Defect Report

	No.	Street	Town or Village	Upstream MH	Inspection dir.	Downstream MH	Observation	Grade
1	1	Keighley Road	Cowling	MH1B	MH2 (U/S) MH1B	MH2	Start node type, manhole,	0
2	1	Keighley Road	Cowling	MH1B	MH2 (U/S) MH1B	MH2	Water level, 20% of the ve	0
3	1	Keighley Road	Cowling	MH1B	MH2 (U/S) MH1B	MH2	Connection intruding, at 1	3
4	1	Keighley Road	Cowling	MH1B	MH2 (U/S) MH1B	MH2	Settled deposits, coarse, 3	4
5	1	Keighley Road	Cowling	MH1B	MH2 (U/S) MH1B	MH2	Other obstacles, brick or	5
6	1	Keighley Road	Cowling	MH1B	MH2 (U/S) MH1B	MH2	Settled deposits, coarse, 3	4
7	1	Keighley Road	Cowling	MH1B	MH2 (U/S) MH1B	MH2	Water level, 30% of the ve	0
8	1	Keighley Road	Cowling	MH1B	MH2 (U/S) MH1B	MH2	Settled deposits, coarse, 3	4
9	1	Keighley Road	Cowling	MH1B	MH2 (U/S) MH1B	MH2	Settled deposits, coarse, 4	4
10	1	Keighley Road	Cowling	MH1B	MH2 (U/S) MH1B	MH2	Settled deposits, coarse, 4	4
11	1	Keighley Road	Cowling	MH1B	MH2 (U/S) MH1B	MH2	Settled deposits, coarse, 5	4
12	1	Keighley Road	Cowling	MH1B	MH2 (U/S) MH1B	MH2	Settled deposits, coarse, 5	4
13	1	Keighley Road	Cowling	MH1B	MH2 (U/S) MH1B	MH2	Survey abandoned	0
14	2	Keighley Road	Cowling	MH2	MH2 (D/S) MH3	MH3	Start node type, manhole,	0
15	2	Keighley Road	Cowling	MH2	MH2 (D/S) MH3	MH3	Water level, 10% of the ve	0
16	2	Keighley Road	Cowling	MH2	MH2 (D/S) MH3	MH3	Finish node type, manhole	0
17	3	Keighley Road	Cowling	MH3	MH3 (D/S) MH4	MH4	Start node type, manhole,	0
18	3	Keighley Road	Cowling	MH3	MH3 (D/S) MH4	MH4	Water level, 10% of the ve	0
19	3	Keighley Road	Cowling	MH3	MH3 (D/S) MH4	MH4	Finish node type, manhole	0
20	4	Keighley Road	Cowling	MH4	MH4 (D/S) MH5	MH5	Start node type, manhole,	0
21	4	Keighley Road	Cowling	MH4	MH4 (D/S) MH5	MH5	Water level, 10% of the ve	0
22	4	Keighley Road	Cowling	MH4	MH4 (D/S) MH5	MH5	Infiltration, gushing at joint	0
23	4	Keighley Road	Cowling	MH4	MH4 (D/S) MH5	MH5	Finish node type, manhole	0
24	5	Keighley Road	Cowling	MH5	MH5 (D/S) MH6	MH6	Start node type, manhole,	0
25	5	Keighley Road	Cowling	MH5	MH5 (D/S) MH6	MH6	Water level, 10% of the ve	0
26	5	Keighley Road	Cowling	MH5	MH5 (D/S) MH6	MH6	Finish node type, manhole	0
27	6	Keighley Road	Cowling	MH6	MH6 (D/S) BRANCH	BRANCH	Start node type, manhole,	0
28	6	Keighley Road	Cowling	MH6	MH6 (D/S) BRANCH	BRANCH	Water level, 10% of the ve	0
29	6	Keighley Road	Cowling	MH6	MH6 (D/S) BRANCH	BRANCH	Line deviates down	0
30	6	Keighley Road	Cowling	MH6	MH6 (D/S) BRANCH	BRANCH	General remark	0
31	6	Keighley Road	Cowling	MH6	MH6 (D/S) BRANCH	BRANCH	Survey abandoned	0
32	7	Keighley Road	Cowling	MH1A	MH1A (D/S) MH1	MH1	Start node type, manhole,	0
33	7	Keighley Road	Cowling	MH1A	MH1A (D/S) MH1	MH1	Water level, 10% of the ve	0
34	7	Keighley Road	Cowling	MH1A	MH1A (D/S) MH1	MH1	Finish node type, manhole	0
35	8	Keighley Road	Cowling	MH1	MH1 (D/S) MH1B	MH1B	Start node type, manhole,	0
36	8	Keighley Road	Cowling	MH1	MH1 (D/S) MH1B	MH1B	Water level, 10% of the ve	0
37	8	Keighley Road	Cowling	MH1	MH1 (D/S) MH1B	MH1B	Finish node type, manhole	0
38	9	Keighley Road	Cowling	MH1B	MH1B (D/S) MH2	MH2	Start node type, manhole,	0
39	9	Keighley Road	Cowling	MH1B	MH1B (D/S) MH2	MH2	Water level, 10% of the ve	0

Grade Defect Report

	No.	Street	Town or Village	Upstream MH	Inspection dir.	Downstream MH	Observation	Grade
40	9	Keighley Road	Cowling	MH1B	MH1B (D/S) MH2	MH2	Water level, 50% of the ve	0
41	9	Keighley Road	Cowling	MH1B	MH1B (D/S) MH2	MH2	Loss of vision, camera un	0
42	9	Keighley Road	Cowling	MH1B	MH1B (D/S) MH2	MH2	General remark	0
43	9	Keighley Road	Cowling	MH1B	MH1B (D/S) MH2	MH2	Survey abandoned	0

RevNo	Revision note	Date	Signature	Checked



Flow Direction

Surveyed Pipe Section

Abandoned Pipe Section

Manhole

Culvert Overview

Itemref	Quantity	Title/Name, designation, material, dimension etc		Article No./Reference	
Designed by LVN	Checked by LVN	Approved by – date 23/01/2018	File name Cowling Rec. Field	Date 21/01/2018	Scale NTS

IWJS

Gibb Syke Culvert

West Yorkshire

Edition	Sheet
0	1

RevNo	Revision note	Date	Signature	Checked

SA @ 11.5m Due to Camera Under Water

SA @ 19.30m Due to 50% Settled Deposits

MH1B
E:397399.029
N:443239.199
CL: 191.223

MH1
E:397340.431
N:443197.830
CL: 194.283

MH1A
E:397342.535
N:443193.535
CL: 194.396

397325E 397350E 397375E 397400E

JBA consulting

- Flow Direction
- Surveyed Pipe Section
- Abandoned Pipe Section
- Manhole

Plan 1 of 4

Itemref	Quantity	Title/Name, designation, material, dimension etc		Article No./Reference	
Designed by LVN	Checked by LVN	Approved by - date 23/01/2018	File name Cowling Rec. Field	Date 21/01/2018	Scale NTS

IWJS

Gibb Syke Culvert

West Yorkshire | Edition 0 | Sheet 2

RevNo	Revision note	Date	Signature	Checked

MH4
E:397364.569
N:443361.707
CL: 189.498

MH3
E:397417.139
N:443287.977
CL: 188.558

MH2
E:397417.139
N:443287.977
CL: 188.558

SA @ 11.5m
Due to
Camera
Under Water

JBA consulting

- Flow Direction
- Surveyed Pipe Section
- Abandoned Pipe Section
- Manhole

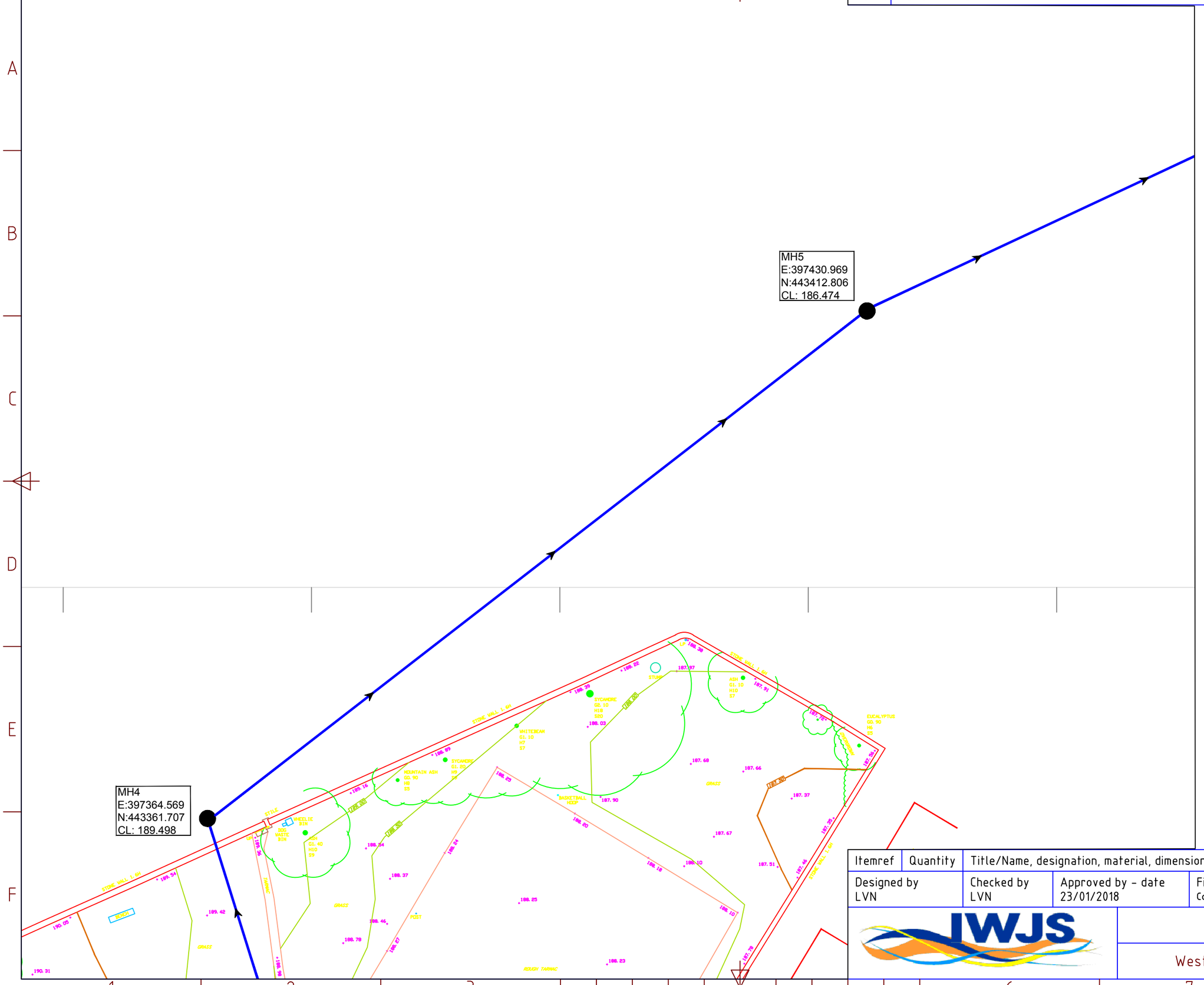
STATION COORDINATE

STN	EASTING	NORTHING	LEVEL
101	397378.694	443330.335	188.8
102	397319.908	443266.604	196.0
103	397399.556	443245.663	190.7
104	397415.204	443217.798	193.9

Plan 2 of 4

Itemref	Quantity	Title/Name, designation, material, dimension etc			Article No./Reference	
Designed by LVN		Checked by LVN	Approved by - date 23/01/2018	File name Cowling Rec. Field	Date 21/01/2018	Scale NTS
IWJS		Gibb Syke Culvert				
		West Yorkshire			Edition 0	Sheet 3

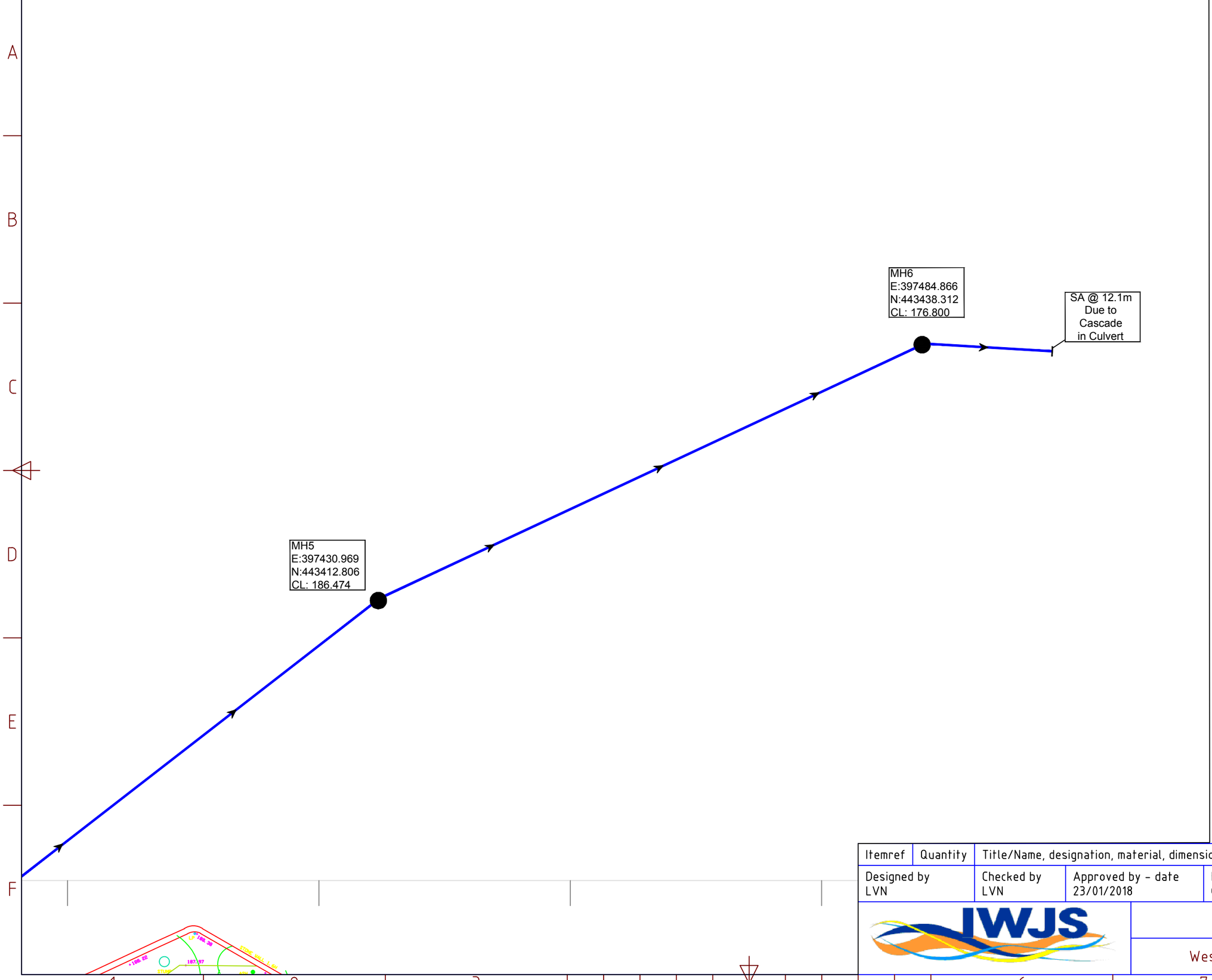
RevNo	Revision note	Date	Signature	Checked



Plan 3 of 4

Itemref	Quantity	Title/Name, designation, material, dimension etc			Article No./Reference	
Designed by LVN		Checked by LVN	Approved by - date 23/01/2018	File name Cowling Rec. Field	Date 21/01/2018	Scale NTS
IWJS		Gibb Syke Culvert				
		West Yorkshire			Edition 0	Sheet 4

RevNo	Revision note	Date	Signature	Checked



Flow Direction
Surveyed Pipe Section
Abandoned Pipe Section
Manhole

Plan 3 of 4

Itemref	Quantity	Title/Name, designation, material, dimension etc			Article No./Reference	
Designed by LVN		Checked by LVN	Approved by - date 23/01/2018	File name Cowling Rec. Field	Date 21/01/2018	Scale NTS
		Gibb Syke Culvert				
		West Yorkshire			Edition 0	Sheet 5