

ASSUMED OUTFALL TO RIVER  
LOSTOCK (TO BE CONFIRMED  
AS PART OF SURVEY).

ASSUMED OUTFALL TO RIVER  
LOSTOCK (TO BE CONFIRMED  
AS PART OF SURVEY).

ASSUMED OUTFALL TO RIVER  
LOSTOCK (TO BE CONFIRMED  
AS PART OF SURVEY).

ASSUMED OUTFALL TO RIVER  
LOSTOCK (TO BE CONFIRMED  
AS PART OF SURVEY).

SEE INSET A

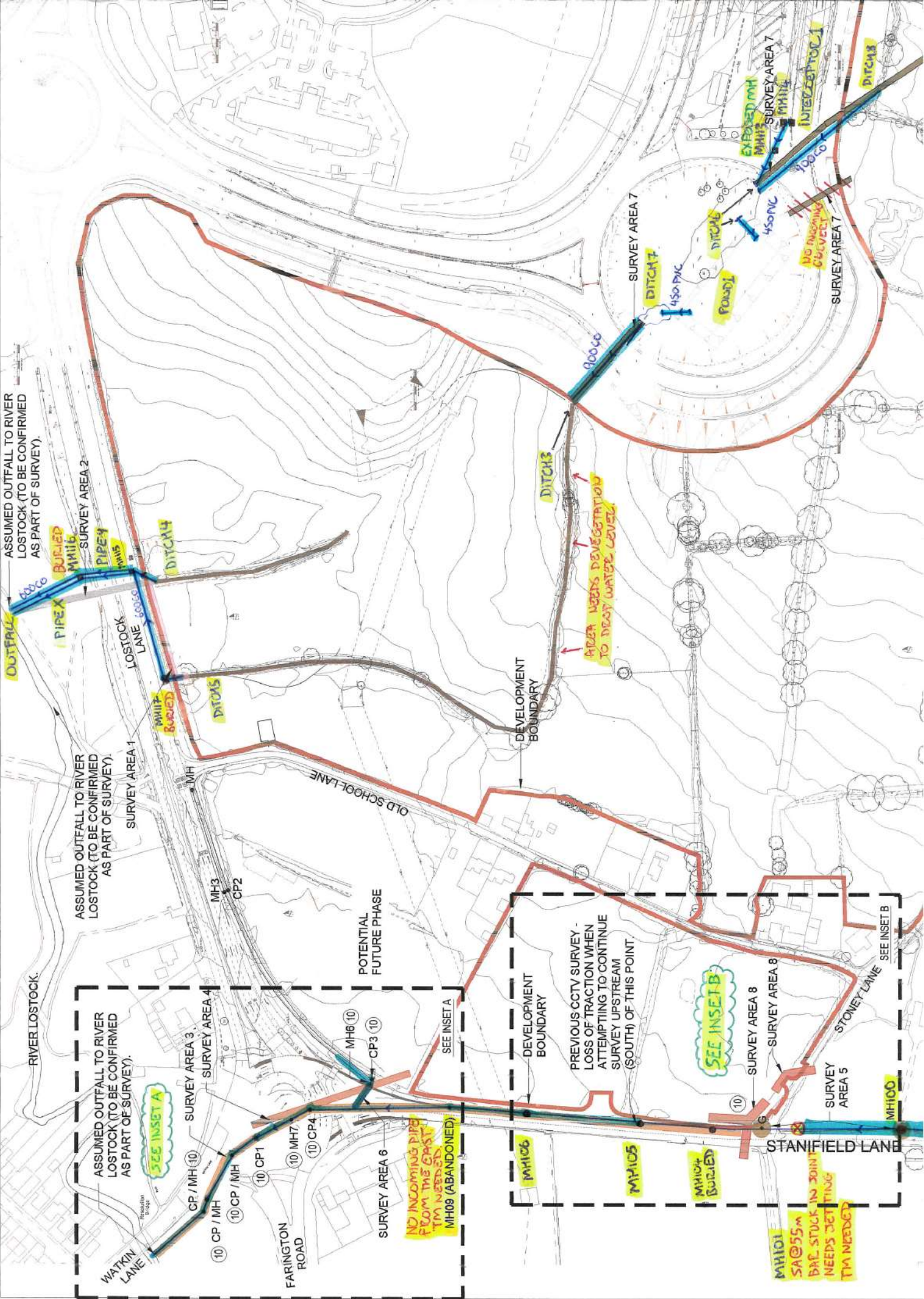
SEE INSET B

NO INCOMING PIPE  
FROM THE EAST  
TMA NEEDS  
MH08 (ABANDONED)

MH101  
SAG @ 55m  
BAR STUCK IN JOINT  
NEEDS DETTING  
TMA NEEDS

PREVIOUS CCTV SURVEY -  
LOSS OF TRACTION WHEN  
ATTEMPTING TO CONTINUE  
SURVEY UPSTREAM  
(SOUTH) OF THIS POINT

RIVER NEEDS DEVEGETATION  
TO DEEP WATER LEVEL



SEE INSET A

SEE INSET B

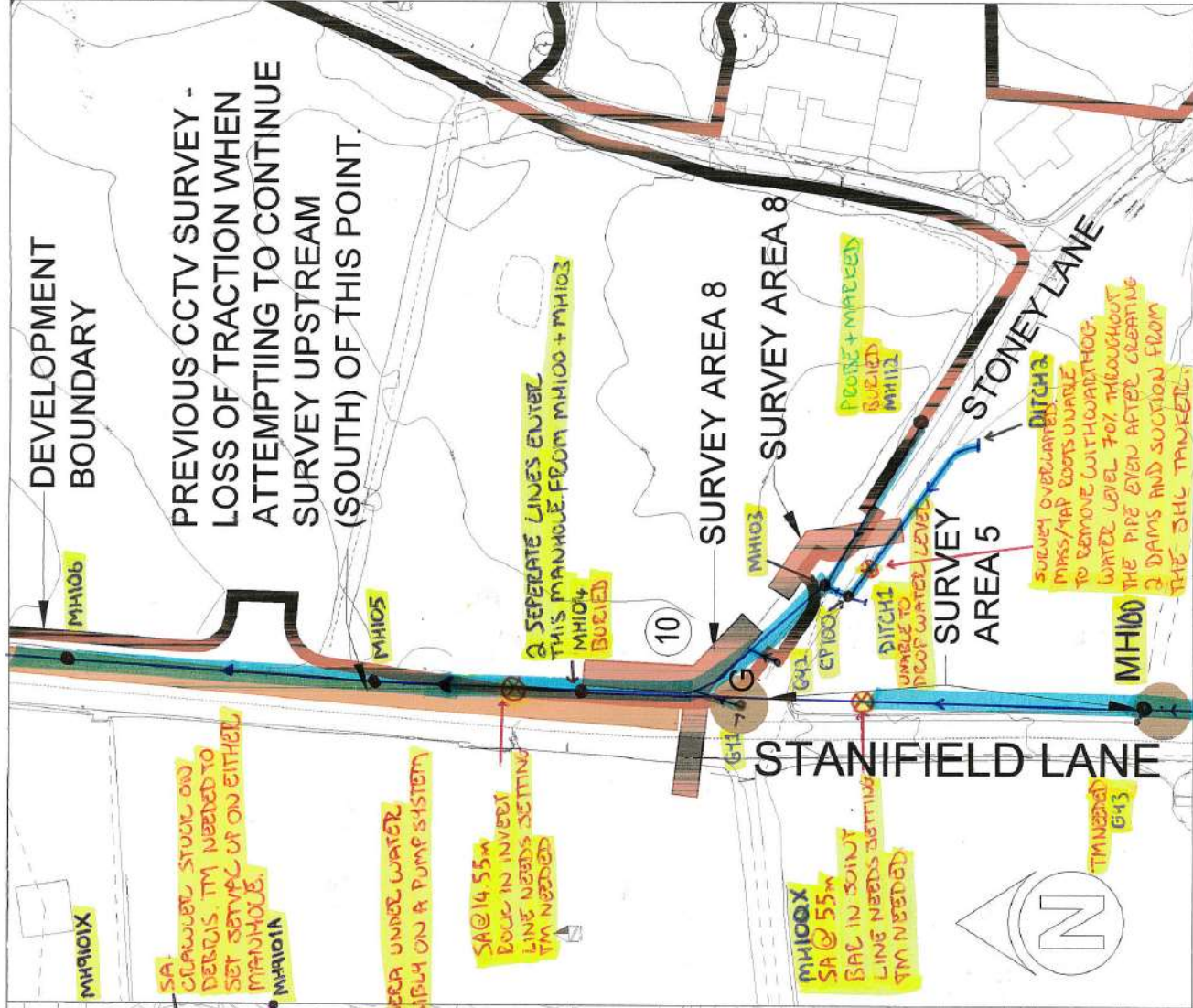
NO INCOMING PIPE  
FROM THE EAST  
TMA NEEDS  
MH08 (ABANDONED)

MH101  
SAG @ 55m  
BAR STUCK IN JOINT  
NEEDS DETTING  
TMA NEEDS

PREVIOUS CCTV SURVEY -  
LOSS OF TRACTION WHEN  
ATTEMPTING TO CONTINUE  
SURVEY UPSTREAM  
(SOUTH) OF THIS POINT

RIVER NEEDS DEVEGETATION  
TO DEEP WATER LEVEL

This drawing should not be scaled. Dimensions to be verified on site.  
 Any discrepancies should be referred to the Engineer prior to work being put in hand.  
 This drawing is the property of Waterman Infrastructure & Environment Limited, and the drawing is issued on the condition that it is not copied, reproduced, retained or disclosed to any unauthorised person, either wholly or in part, without the consent in writing of Waterman Infrastructure & Environment Limited.  
 Waterman Infrastructure & Environment Limited  
 Parkfields Wharf, Clint Street, London SE1 9DG | 020 7928 7888 | 020 7902 0992



Survey Required  
 INSET B SCALE 1:1000@A1

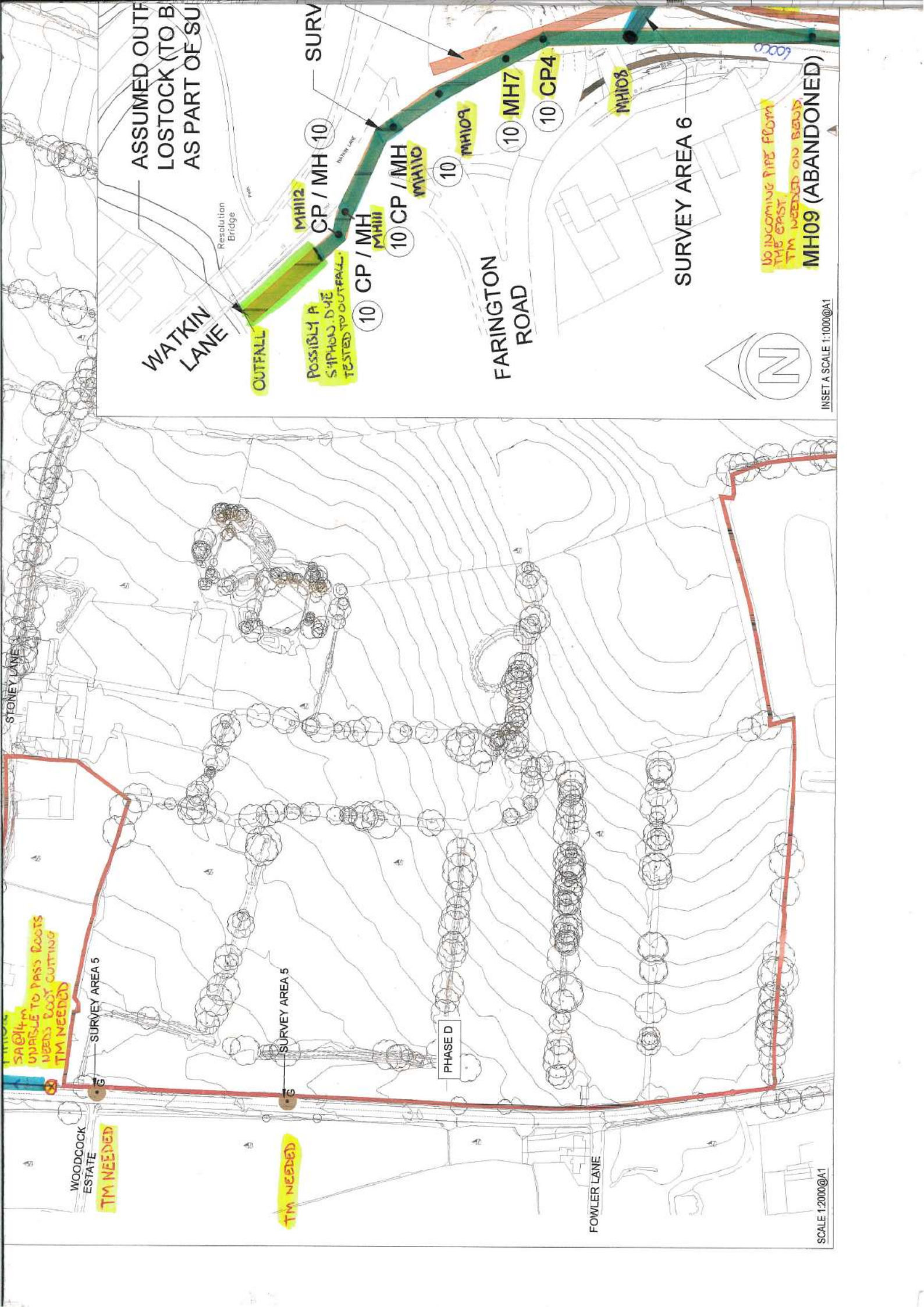
CCTV of culvert at northern boundary of development site. Confirmation culvert discharges to another culvert located to the east (see Survey Area 2).  
 CCTV of 300mm culvert at northern boundary of

Additional Information

Survey Area Reference  
 1

SURVEY OF BOTH CULVERTS COMPLETE.

SURVEY COMPLETE. DISCHARGES INTO MH115.



ASSUMED OUTF  
 LOSTOCK (TO B  
 AS PART OF SU

WATKIN  
 LANE

Resolution  
 Bridge

SURV

MH112

CP / MH 10

OUTFALL

POSSIBLY A  
 SYPHON DUE  
 TO OUT-FALL

10 CP / MH  
 MH111

10 CP / MH  
 MH110

10

MH109

10 MH7

10 CP4

MH108

FARINGTON  
 ROAD

SURVEY AREA 6

NO INCOMING PIPE FLOW  
 THIS EAST  
 TM NEEDED ON BEHVS  
 MH09 (ABANDONED)



INSET A SCALE 1:1000@A1

STONE LANE

SA @ 14m  
 UNABLE TO PASS ROOTS  
 NEEDS ROOT CUTTING  
 TM NEEDED

SURVEY AREA 5

SURVEY AREA 5

PHASE D

WOODCOCK  
 ESTATE

TM NEEDED

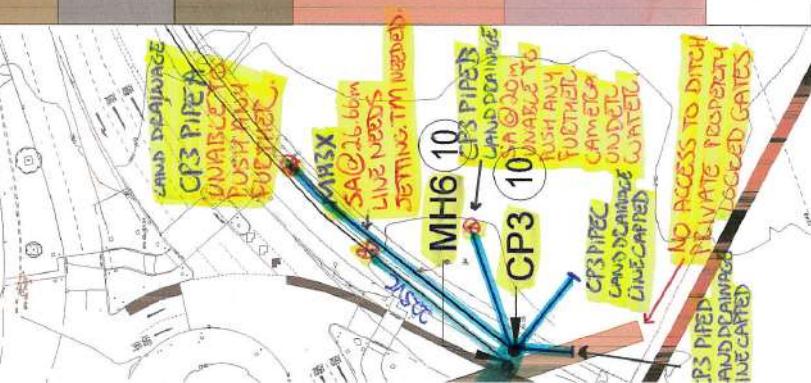
TM NEEDED

FOWLER LANE

SCALE 1:2000@A1

ALL TO RIVER  
CONFIRMED  
(SURVEY).

KEY AREA 3  
SURVEY AREA 4



- 2 the River Lostock, located approximately 77m north of the onsite headwall. Verify if culvert is a twin pipe culvert and if verified, survey both culverts.
- 3 CCTV of 600mm pipe flowing in northerly direction along Stanifield Lane, under the Stanifield Lane / Watkin Lane / Lostock Lane roundabout and presumably outfall to the River Lostock. Confirmation pipe discharges to the River Lostock, located approximately 80m northwest of the roundabout. Verify extents of pipe upstream of the roundabout - what is the upstream start point of this pipe run.
- 4 CCTV of 525mm pipe flowing from field to the southwest of the roundabout to the north edge of the roundabout. Is there connectivity of the field to the southwest of the roundabout (identified as FUTURE PHASE). Verify route of pipe downstream of roundabout - does it discharge to the River Lostock?
- 5 CCTV of highway gullies on Stanifield Lane - where do these gullies drain to? CCTV of manhole in footway on east side of Stanifield Lane to confirm upstream and downstream connections, verifying where the manhole ultimately discharges to.
- 6 CCTV survey of Manhole Ref MH6 (located in footpath adjacent Stanifield Lane / Watkin Lane / Lostock Lane roundabout) confirm upstream and downstream connectivity.
- 7 CCTV survey of culverts upstream and downstream of M65 Roundabout that links M65 to Lostock Lane. Confirmation of number of culvert inlets onsite, and corresponding outlets.
- 8 Existing ditch on south side of Stoney Lane is culverted under Stoney Lane. CCTV survey required upstream and downstream of culvert. Confirm downstream route of culvert / ditch beyond Stoney Lane.
- 9 CCTV all incoming and outgoing connections to United Utilities public foul sewer located in splitter island on Craven Drive / Lostock Lane Junction. Public sewer records indicate one incoming pipe from the south and one outgoing pipe heading in a northerly direction up Craven Drive.
- 10 Geo positioning of chamber / headwall required to confirm cover level, invert level and exact position of incoming and outgoing drainage lines.

Historical evidence suggests the culvert is a twin pipe culvert, however only one culvert inlet was observed during site visit in October 2021.  
 TWIN PIPE CULVERT

Route of survey is shown based on previous surveys and as built drawing CLM02-H201-500-001 Stanifield Lane Junction Improvements, Drainage. Drawing produced by Lancashire County Council. CCTV survey required upstream of Manhole Ref MH09 - this manhole is identified as being abandoned. CCTV survey up and downstream of this manhole to confirm if there are any upstream flows entering the manhole, and confirmation as to if there are any connections to this manhole from the east. SURVEY COMPLETE.

Historic survey data shows a headwall and heavily silted ditch located in the FUTURE PHASE field. Access to this field will not be possible. Historic data states that a survey of this pipe downstream of the roundabout was not possible due to a concrete flag blocking the end of the pipe from a ditch. NO ACCESS TO DITCH. NO 525mm PIPE ON ROUNDABOUT.

DYE TESTED THE FULL ROUTE TO THE OUTFALL INTO THE RIVER LOSTOCK. SUEVEYED DOWNSTREAM AS MUCH AS POSSIBLE WITHOUT TM FOR THE SETVAC.

SURVEY COMPLETE (SEE INSERT A) OUTFALLS INTO MH108.

SURVEYED ALL CULVERTS ON THE ROUNDABOUT.

There is historic evidence of flooding to the west of Stoney Lane and appears to be a result of a lack of maintenance on this ditch. Therefore desilting, trimming of tree branches and removed of debris in ditch may be required and should be anticipated to gain access to culvert inlets and outlets. It will only be possible to carry out this work on the north side of Stoney Lane, within the development boundary. SURVEY COMPLETE.

SURVEYED AS FAR AS POSSIBLE DOWNSTREAM. DEBRIS IN GUE WHICH WILL NEED SETTING BUT NO ACCESS TO MH WITHOUT TM.

Rev	Date	Description	By
01	12/11/21	Rev. P. in accordance with	PH
02	12/11/21	Final Issue for approval	TB

Amendments

Project  
**LANCASHIRE CENTRAL, PRESTON**

Title  
**DRAINAGE SURVEY REQUIREMENTS**

Client  
**MAPLE GROVE DEVELOPMENTS**

2nd Floor, South Central, 11 Peter Street, Manchester, M2 5QR  
 T: 0161 839 6392 F: 0161 833 44 501  
 email@watermangrp.com www.watermangrp.com

Drawing Status  
**DRAFT**

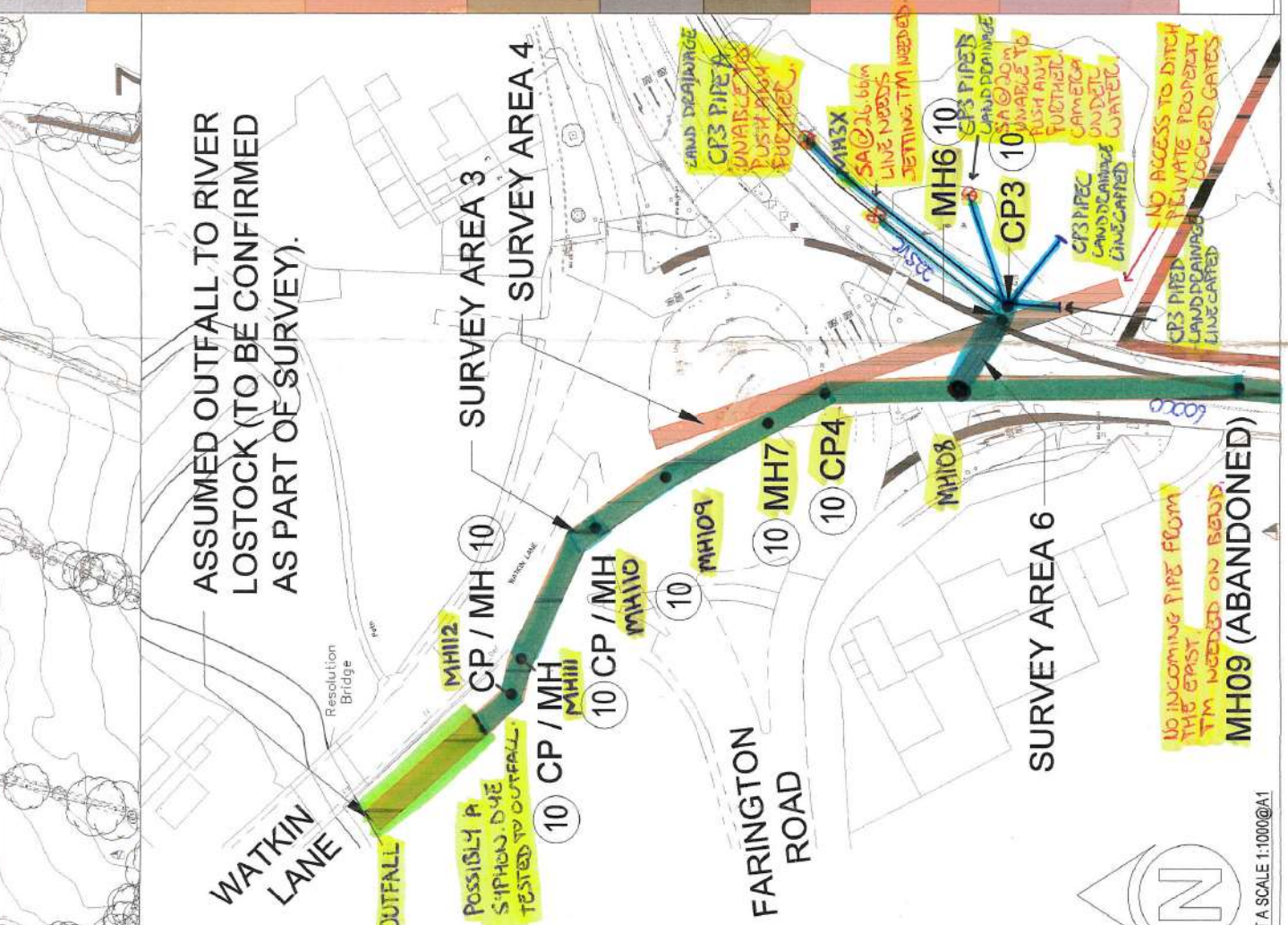
Designed by	PB	Checked by	PB	Project No.	11556
Drawn by	PB	Date	29 OCT 21	Computer File No.	WE11556

Scales @ A1  
 work to figured dimensions only AS SHOWN

WIE DR 92 0503-01 P02

A1-WIE-S

**ASSUMED OUTFALL TO RIVER  
LOSTOCK (TO BE CONFIRMED  
AS PART OF SURVEY).**



NET A SCALE 1:1000@A1

- 2 the River Lostock, located approximately 77m north of the onsite headwall. Verify if culvert is a twin pipe culvert and if verified, survey both culverts. CCTV of 600mm pipe flowing in northerly direction along Stanfield Lane, under the Stanfield Lane / Watkin Lane / Lostock Lane roundabout and presumably outfall to the River Lostock. Confirmation pipe discharges to the River Lostock, located approximately 80m northwest of the roundabout. Verify extents of pipe upstream of the roundabout - what is the upstream start point of this pipe run. CCTV of 525mm pipe flowing from field to the southwest of the roundabout to the north edge of the roundabout. Is there connectivity of the field to the southwest of the roundabout (identified as FUTURE PHASE). Verify route of pipe downstream of roundabout - does it discharge to the River Lostock? CCTV of highway gullies on Stanfield Lane - where do these gullies drain to? CCTV of manhole in footway on east side of Stanfield Lane to confirm upstream and downstream connections, verifying where the manhole ultimately discharges to.
- 3 CCTV survey of Manhole Ref MH6 (located in footpath adjacent Stanfield Lane / Watkin Lane / Lostock Lane roundabout) confirm upstream and downstream connectivity.
- 4 CCTV survey of culverts upstream and downstream of M65 Roundabout that links M65 to Lostock Lane. Confirmation of number of culvert inlets onsite, and corresponding outlets.
- 5 Existing ditch on south side of Stoney Lane is culverted under Stoney Lane. CCTV survey required upstream and downstream of culvert. Confirm downstream route of culvert / ditch beyond Stoney Lane.
- 6 CCTV all incoming and outgoing connections to United Utilities public foul sewer located in splitter island on Craven Drive / Lostock Lane Junction. Public sewer records indicate one incoming pipe from the south and one outgoing pipe heading in a northerly direction up Craven Drive.
- 7 Geo positioning of chamber / headwall required to confirm cover level, invert level and exact position of incoming and outgoing drainage lines.

however only one culvert inlet was observed during site visit in October 2021.  
*TWIN PIPE CULVERT*  
Route of survey is shown based on previous surveys and as built drawing CLM02-H201-500-001 Stanfield Lane Junction Improvements, Drainage. Drawing produced by Lancashire County Council. CCTV survey required upstream of Manhole Ref MH09 - this manhole is identified as being abandoned. CCTV survey up a downstream of this manhole to confirm if there are any upstream flows entering the manhole, and confirmation as to if there are any connections to this manhole from the east. *SURVEY COMPLETE*  
Historic survey data shows a headwall and heavily silted ditch located in the FUTURE PHASE field. Access to this field will not be possible. Historic data states that a survey of this pipe downstream of the roundabout was not possible due to a concrete flag blocking the end of the pipe from a ditch. *NO ACCESS TO DITCH. NO 525mm PIPE ON BOUNDARY*  
*DYE TESTED THE FULL ROUTE TO THE OUTFALL INTO THE RIVER LOSTOCK. SURVEYED DOWNSTREAM AS MUCH AS POSSIBLE WITHOUT TM FOR THE SETBACK.*  
*SURVEY COMPLETE (SEE INSET A) OUTFALLS INTO MH10's.*  
*SURVEYED ALL CULVERTS ON THE BOUNDARY.*  
There is historic evidence of flooding to the west of Stoney Lane and appears to be a result of a lack of maintenance on this ditch. Therefore desilting, trimming of tree branches and removed of debris in ditch may be required and should be anticipated to gain access to culvert inlets and outlets. It will only be possible to carry out this work on the north side of Stoney Lane, within the development boundary. *SURVEY COMPLETE.*  
*SURVEYED AS FAR AS POSSIBLE DOWNSTREAM DEBRIS IN LINE WHICH WILL NEED SETTING BUT NO ACCESS TO MH WITHOUT TM.*

historical evidence suggests the culvert is a twin pipe culvert.



**TEAM  
DRAINAGE UK**

Paul Jones, CEng  
Paul Jones, CEng  
11 Broad Street  
Newbury  
Windsor, Berkshire  
SL4 1JF

Drainage Survey  
Date: 04/12/2022  
Scale: 1:200

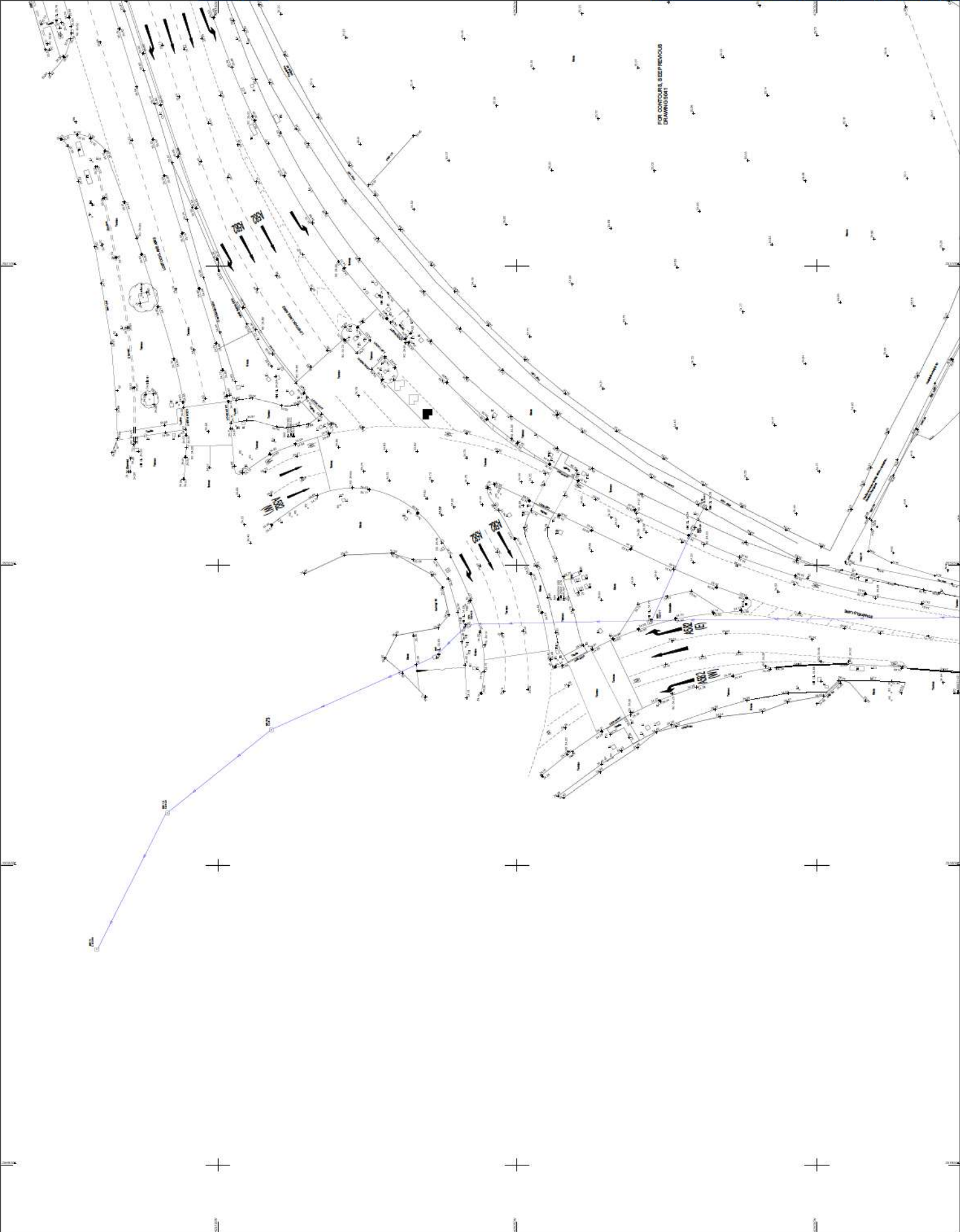


Client: Mr. Jones  
Address: 11 Broad Street  
Newbury  
Windsor, Berkshire  
SL4 1JF

Project: Drainage Survey  
Drawing No: TDUK040122  
Date: 04/12/2022  
Scale: 1:200

Drawn by: Paul Jones  
Checked by: Paul Jones  
Date: 04/12/2022

Drawing No	TDUK040122	Sheet No	03
Client	AA	Date	04/12/2022
Scale	SS	Scale	1:200





**TEAM  
DRAINAGE UK**

Paul Jones, 27 Park  
Road, Crampton,  
Walsby, Lincoln  
LN11 8QD  
01522 873333  
www.teamdrainage.co.uk

Drawn By: DJ  
Date: 04/12/22  
Scale: 1:200



Client: -  
Project: -  
Drawn By: DJ  
Date: 04/12/22  
Scale: 1:200

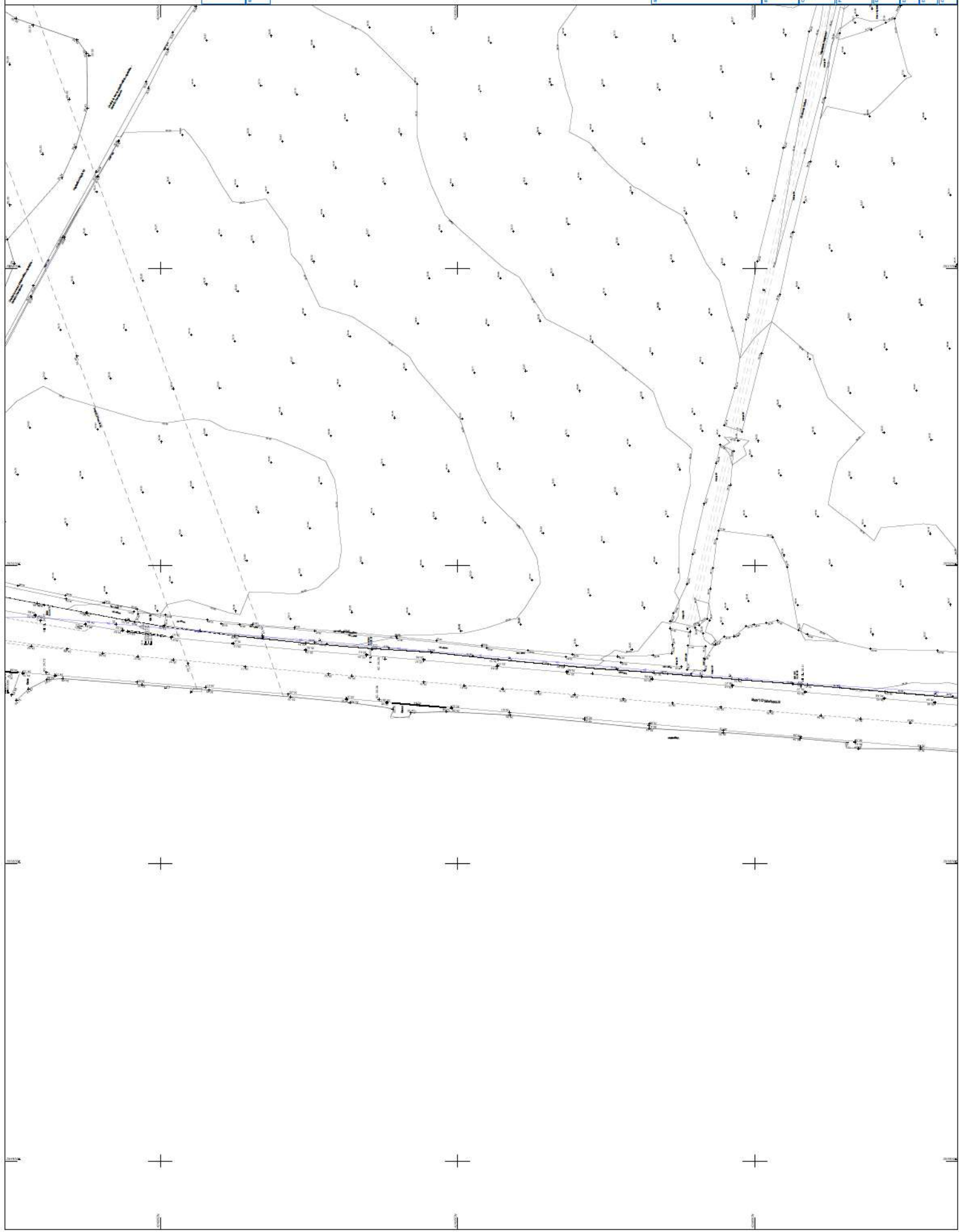
Drawn By: DJ  
Date: 04/12/22  
Scale: 1:200

Drawn By: DJ  
Date: 04/12/22  
Scale: 1:200

Drawn By: DJ  
Date: 04/12/22  
Scale: 1:200

Drawn By: DJ  
Date: 04/12/22  
Scale: 1:200

Drawn By: DJ  
Date: 04/12/22  
Scale: 1:200





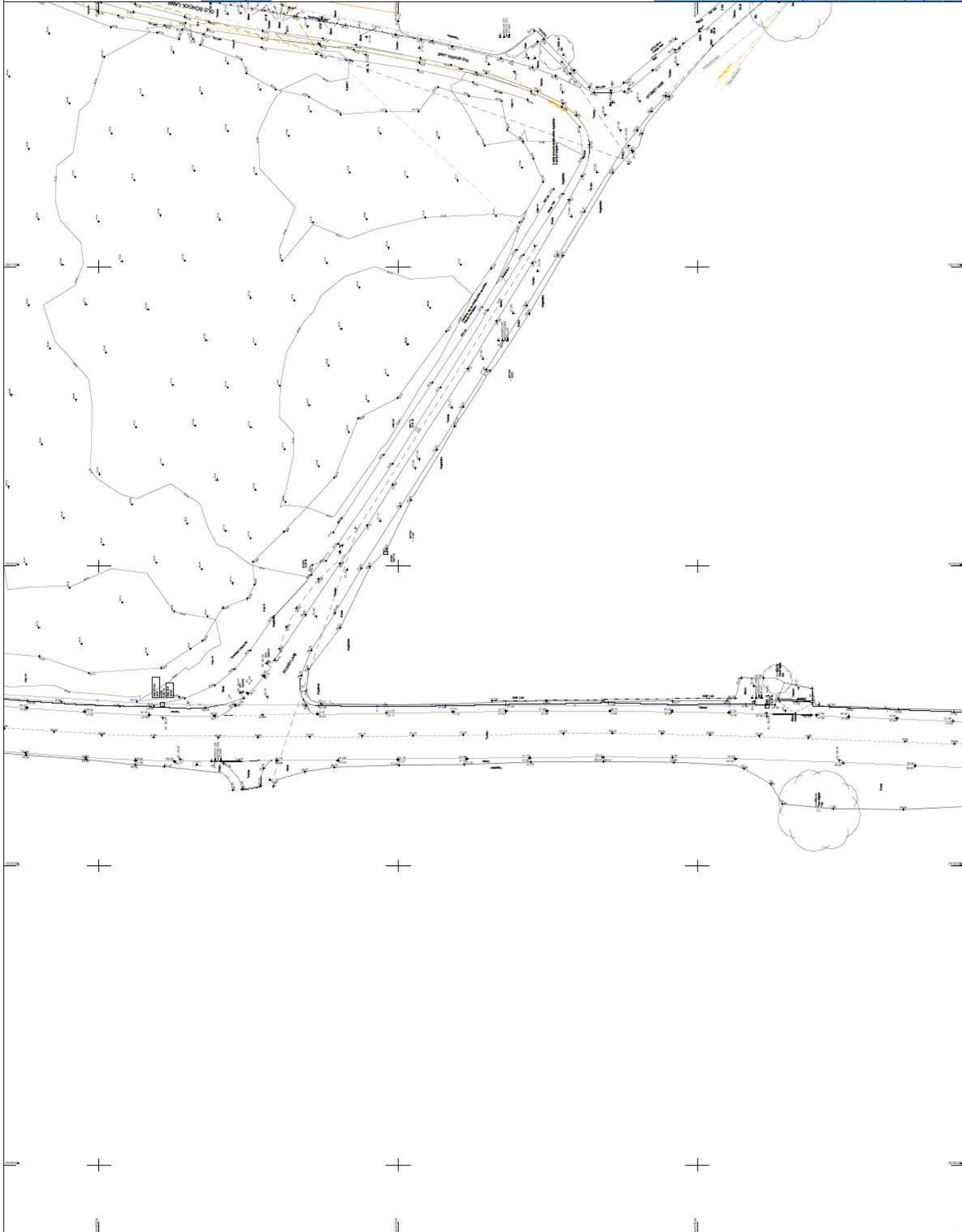
**TEAM  
DRAINAGE UK**

Paul Jones, 27 Park  
Road, South Wood,  
Widley, Essex,  
SS16 5LW  
www.teamdrainageuk.com

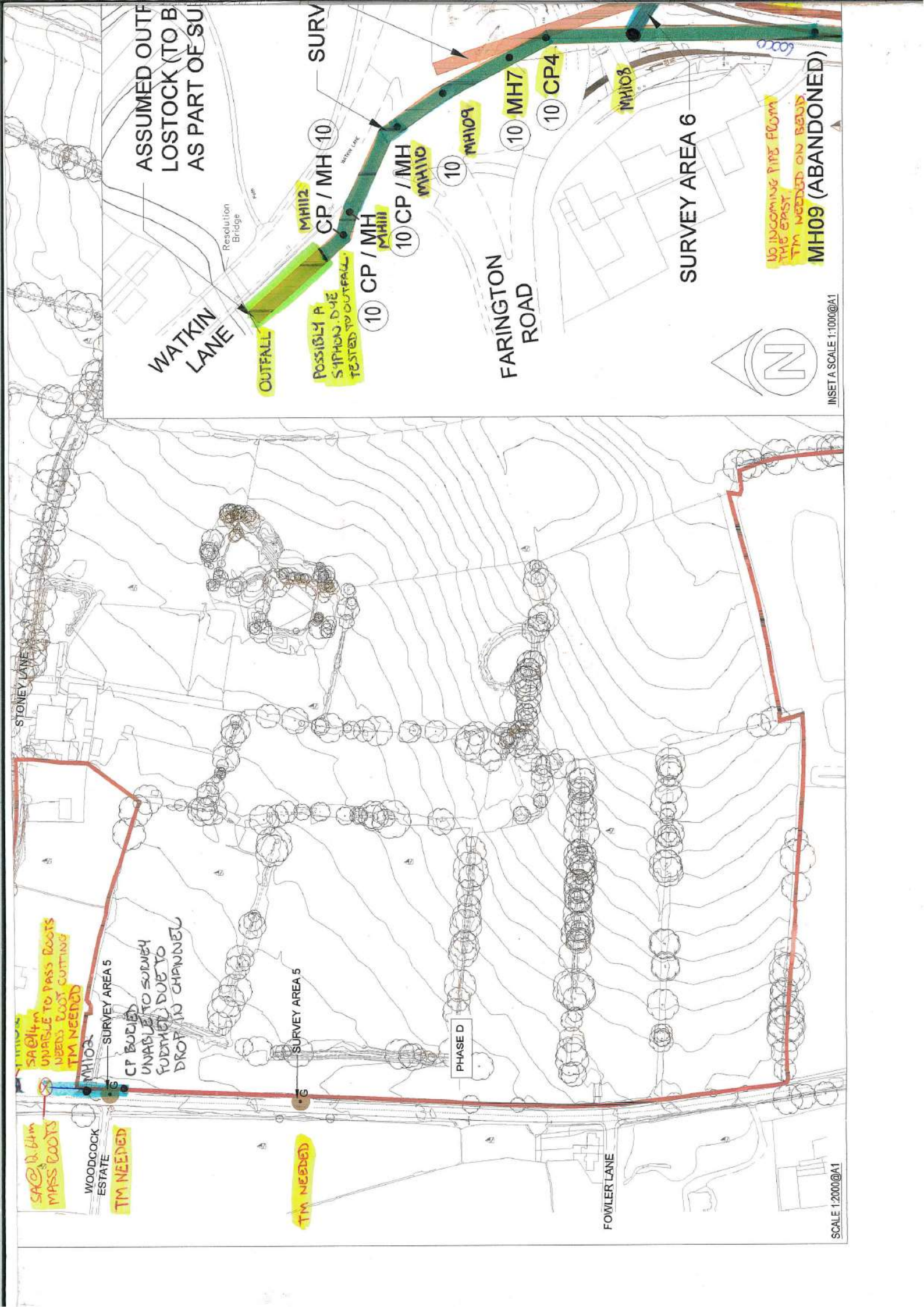
01473 704100  
01473 704101



Client	SS
Contract	SS
Drawn	AA
Check	04/01/2022
Scale	1:200
Project No	TDUK040122
Sheet No	05
Sheet Count	-
Client Name	William Matthews 11 Brook Street M20 2DF
Client Address	Loveland Court Faversham
Client Tel	
Client Email	
Contract Name	







ASSUMED OUTF  
 LOSTOCK (TO B  
 AS PART OF SU

WATKIN LANE

OUTFALL

POSSIBLY A  
 SIPHON. DUE  
 TESTED TO OUTFALL

MH112  
 CP / MH 10

10 CP / MH  
 MH111

10 CP / MH  
 MH110

10

MH109

10 MH7

10 CP4

MH108

FARINGTON ROAD

SURVEY AREA 6



NO INCOMING PIPE FROM  
 THE EAST.  
 TM NEEDED ON BEH  
 MH09 (ABANDONED)

INSET A SCALE 1:1000@A1

STONEY LANE

SURVEY AREA 5

CP BODIES  
 UNABLE TO SURVEY  
 FURTHER DUE TO  
 DROP IN CHANNEL

SURVEY AREA 5

PHASE D

SAC 12.4m  
 UNABLE TO PASS ROOTS  
 NEEDS ROOT CUTTING  
 TM NEEDED

MH102

WOODCOCK  
 ESTATE  
 TM NEEDED

TM NEEDED

FOWLER LANE

SCALE 1:2000@A1