Liz Chippendale
Kirklees Council
PO Box 1720,
Huddersfield,
HD1 9EL

Network Rail
Ground Floor
Square 1 Piccadilly
Manchester
M1 2NY

25 July 2025

Our ref: 151667-TSA-00-TRU-REP-W-EN-001895

By email: liz.chippendale@kirklees.gov.uk

Dear Liz,

Erection of temporary single storey office /induction building, the provision of parking for approximately 200 cars, EV charging stations and associated lighting and utilities – Planning Ref 2025/90618

On behalf of Network Rail please below the applicant's response to the objection raised by Yorkshire Water in respect of the aforementioned proposal (response ref A008017**,** dated 19 May 2025).

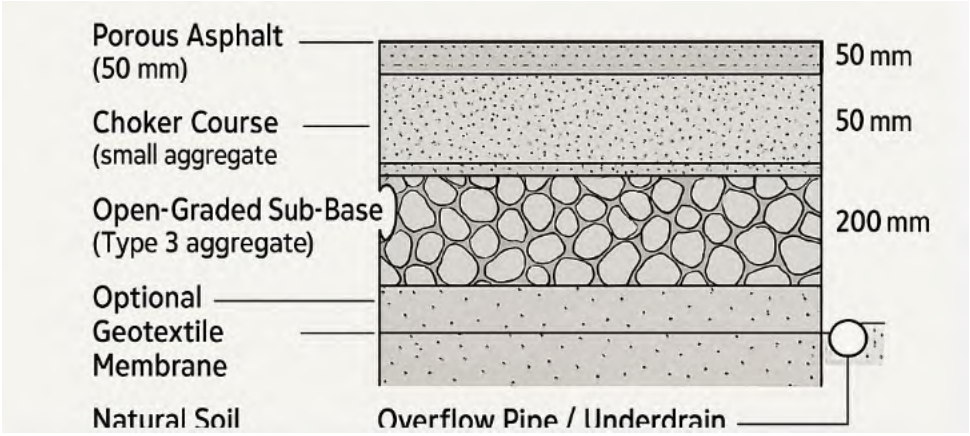
The following information has been discussed and issued to Yorkshire Water (11 July 2025) to address the concerns raised.

Sewer concern.
As you can see on the cad drawing the location of the temporary modular building will not be installed over any public or sewer drain.
The closest sewer drain to the modular building is 22.14 meters away.
We have carried out a detailed CCTV survey of the sewer system (see attached)
I feel this should be enough evidence to show we are not planning to construct a temporary building over a sewer.

Surface Water Management Proposed
About the temporary modular building.

- Single tier building, 33x24 meter, 2.5 meter in height
- Total area: 825 m²
- Estimated surface water runoff during a 1 in 1 year storm (30 minutes, 50 mm/hr)

The ground on which the building will be installed is a permeable material also porous asphalt will be laid around the building allows rainwater to drain through it. See below image for the ground build up.



This will help:

- Infiltrate water where feasible
- Attenuate runoff volume up to **18.56 m³**
- Limit discharge to the public sewer via existing connections

Regarding the remainder of the temporary accommodation area, such as the carpark, we do not intend to construct any buildings or undertake major construction works. Our only planned activity is to fill in existing potholes to ensure safe walking areas for all staff.

Attachments

- Flint Street Utilities Survey Deliverables
- Flint Street Car Park Model

We understand that YW are satisfied with the information provided but we have requested they formally respond to yourselves as part of the consultation process.

Please let me know if you need anything further.

Yours sincerely

Pam Butler

Technical Director
AtkinsRéalis

On behalf of Network Rail
pam.butler@atkinsrealis.com

SURVEY LEGEND TABLE

AC	AXLE COUNTER	FP	FOOT PATH	RBB	RED BOND BOX
ADJ	ADJUSTMENT SWITCH	FW	FLASHBUTT WELD	RCK	CHECK RAIL
AWS	AWS MAGNET	FW	UTILITIES FOUL WATER	RE	DRAIN
AXB	AXLE COUNTER BOX	GAR	GATHER RAIL	RIB	TRAFFIC SIDE RIB LINE
BAR	LEVEL CROSSING BARRIER	GB	GANTRY BASE	ROD	POINTS RODDING
BB	BOTTOM OF EMBANKMENT	GPOT	GREASE POT	RT	RAIL TOE
BCH	BENCH			SB	STEEL BASE REC
BH	BORE HOLE	GSIG	GROUND SIGNAL	SD	DRAIN
BIN	BIN ROUND	GUL	GULLY	SD	SURFACE DRAIN
BL	BUILDING LINE OUTLINE	GUR	GUARD RAIL	SIG	SIGNAL POST
BLT	BUILDING LINE OUTLINE TOP	GV	GAS VALVE	SM	POINTS MOTOR
BM	OS BENCH MARK	HB	HOLLOW SLEEPER	SMA	SERVICE MARKER
BOC	BACK OF COPING STONE	HDB	HOLDING DOWN BOLT	SO	SOFFIT
BOD	BOTTOM OF DITCH	IBL	ILLUMINATED BOLLARD	SPLAY	CON RAIL SPLIT POINT
BOL	BOLLARD	IC	INSPECTION COVER	SPT	LINESIDE TELEPHONE
BOR	PLATFORM BOTTOM RAMP	INV	INVERT LEVEL	SRP	SLEEPER RESTRAINT PLATE
BOX	STORAGE	JB	JUNCTION BOX	ST	TRIAL HOLE
BSB	BALLAST SHOULDER BOTTOM	JI4	IBJ 4 HOLE	STAY	STAY
BST	BALLAST SHOULDER TOP	JI6	IBJ 6 HOLE	STEPS	STEP OR STAIRCASE
BT	BT COVER	JO2	FISHPLATE 2 HOLE	STRB	ADJUSTMENT SWITCH STRECHER BAR
BT CAB	BT TELECOM BOX	JO4	FISHPLATE 4 HOLE	STUMP	TREE STUMP
BUFF	BUFFER STOP	JO6	FISHPLATE 6 HOLE	SUMP	SUMP LEVEL
C	CABLE ROUTE	KB	KERB BOTTOM		SURVEY STATION
CATV	CABLE TV	KO	KERB OUTLET	TAC	BACK OF TACTILE
CB	CONCRETE BASE	KT	KERB TOP	TB	TOP OF BANK
CCTV	CCTV	LAD	LADDER	TD	TOP OF DITCH
	CHAINAGE STRING	LOC	LOCATION BOX	TH	TRIAL HOLE
CN	POINT CROSSING NOSE	LP	LAMP POST	TIE	TIE BAR
COL	COLUMN SQUARE	LT	LONG TIMBER	TL	TRAFFIC LIGHT
COM	UTILITIES COMBINED SEWER	LT	S&C LONG TIMBER	TM	TICKET MACHINE
CON RAIL	THIRD RAIL	LX	LEVEL CROSSING	TOR	PLATFORM TOP RAMP
CP	CATCHPIT	MH	MH CIRC	TP	TELEGRAPH POLE
CR	CROWN LEVEL	MOR	PLATFORM MID RAMP	TPWS	TPW MAGNET
CLI	LEVEL CROSSING LIGHT	MP	MILEPOST	TR	TREADLE
C/L	ROAD CROWN LEVEL	OB	OVER BRIDGE	TRAN	TRANSOM
CS	CHANGE OF SURFACE	OH PIPE	OVERHEAD PIPE	TRB	TRACK RETURN BOND
CT	TROUGHING ROUTE	OHCA	OVERHEAD CABLE	TU	TUNNEL
CUL	UTILITIES CULVERT	OHLE	OHLE CABLE	TW	THERMIT WELD
DP	DOWN PIPE	OPX	ORANGE PAPE	TWI	TWIST POINT
DPL	DATUM PLATE	PB	PHONE BOX	UB	UNDER BRIDGE
DROP	DROP KERB	PE	PLATFORM EDGE	UTX	UTX
EIC	ELECTRIC COVER	PH	POINTS HEATER	VEG	VEGETATION
EJB	ELECTRICITY JUNCTION BOX	PIPE	PIPE DUCT ROUTE	WB	BASE OF WALL
ER	EARTH ROD	PKN	KNUCKLE	WL	WATER LEVEL
F	FENCE	PM	PARK METER	WR	WING RAIL
FB	FIXED BLOCK	PO	POST	WST	STOP VALVE/TAP
FH	FIRE HYDRANT	PYLON	ELECTRICITY PYLON	WT	WALL TOP
FL	GREASE GUN	R	RAIL	WV	WATERS VALVE
		RB	RED BOND		

UTILITIES

	GPR POINT	CATV	TV CABLE	OIL	OIL PIPELINE
REF	MANHOLE REFERENCE	EC	ELETRIC CABLE	UNIP	UNIDENTIFIELD PIPE
T	TELECOM CABLE	FOC	FIBRE OPTIC CABLES	SCAR	REINSTATEMENT SCAR
UCAB	UNIDENTIFIELD CABLE	FW	FOUL WATER SEWER	USW	STORM WATER SEWER
UCD	CABLE DUCTING	GAS	GAS PIPELINE	UTS	TRAFFIC SIGNAL CABLES
CSW	COMBINED SEWER	UNID	UNIDENTIFIELD TRACE	UWA	WATER

Notes:
- North Arrow is approximate and to Grid North
- Survey Grid is a Pseudo OS (OSTN15) SF1
- Survey Datum is Ordnance Datum Newlyn

The data presented in this drawing have been collected using a combination of the following: consultation of utility asset information, visual survey & inspection of manholes and inspection chambers; electromagnetic location techniques; ground penetrating radar, and, where applicable, trial hole excavations. These techniques have been deployed in accordance with the BSI PAS128 Specification for Underground Utility Detection, Verification and Location using the search methodologies indicated below and described in the accompanying report. This drawing should be used in conjunction with the accompanying report which details the limitations of these techniques and any hindering factors encountered during this survey.

Unless otherwise stated, all utilities shown on this plan have been surveyed using approved detectors and the connections between inspection chambers, if unable to be detected, are generally assumed to be direct unless there are indications to the contrary. The detection confidence for each utility segment is depicted in line with the PAS128 scheme outlined below. Information depicted as QL-C or QL-D cannot be guaranteed as it is based on historic utility records which can be inaccurate and incomplete.

The utility routes depicted may reflect the routes of multiple cables or pipes. It is not always possible to differentiate between buried construction features, utilities and other subsurface linear features therefore it is possible that some features shown are not utility related, and due to the limitations of electromagnetic techniques all utility identifications should be treated with caution and verified prior to use during design/building works.

If the location or depth of utilities and features is of particular importance to a project then it is recommended that discussions are held with Inorail member company regarding any possible limitations or anomalies.

Please note that not all buried pipes, cables and ducts can be detected and mapped in consideration of their depth, location, material type, geology and proximity to other utilities. Even an appropriate and professionally executed survey may not be able to achieve a 100% detection rate. Where an area of utilities is likely to affect client project requirements, it is strongly recommended that a PAS128 Quality Level A verification survey is carried out

No utility mapping survey can be considered a 100% accurate depiction of the sub-surface environment, and the use of these drawings does not remove the requirement for the use of safe digging techniques at all times, in line with the requirements of HSG47 and current CDM regulations.

UTILITY CONFIDENCE LEVELS (Listed from High to Low)

(A)	HORIZONTAL AND VERTICAL POSITION VERIFIED VISUALLY (Accuracy: Horizontal (±25mm) Vertical(±50mm)
(B1P)	HORIZONTAL AND VERTICAL POSITION DETECTED BY MULTIPLE METHODS WITH POST PROCESSING OF GPR DATA (Estimated Accuracy: ±150mm OR ±15% of detected depth)
(B1)	HORIZONTAL AND VERTICAL POSITION DETECTED BY MULTIPLE METHODS (Estimated Accuracy: ±150mm OR ±15% of detected depth)
(B2P)	HORIZONTAL AND VERTICAL POSITION DETECTED VIA POST-PROCESSED GPR (Estimated Accuracy: ±250mm OR ±40% of detected depth)
(B2)	HORIZONTAL AND VERTICAL POSITION DETECTED BY A SINGLE METHOD (Estimated Accuracy: ±250mm OR ±40% of detected depth)
(B3P)	HORIZONTAL POSITION DETECTED VIA POST-PROCESSED GPR (Estimated Accuracy: ±500mm in the Horizontal - Depth is undefined)
(B3)	HORIZONTAL POSITION DETECTED BY A SINGLE METHOD (Estimated Accuracy: ±500mm in the Horizontal - Depth is undefined)
(C)	ROUTE TRANSCRIBED FROM UTILITY ASSET PLANS AND CORRELATED TO VISUAL INDICATORS AND SURFACE FEATURES (Accuracy Undefined)
(D)	ROUTE TRANSCRIBED FROM UTILITY ASSET PLANS (Accuracy Undefined)

GPR AREA ANOMALY	
GPR AREA ANOMALY - REBAR	
CHAMBER EXTENTS	
MEASURED DEPTH BGL TO PIPE/CABLE/DUCT	0.65d
INVERT LEVEL OF PIPE/DUCT/CABLE (TO OS DATUM)	IL 12.34
SOFFIT LEVEL OF PIPE/DUCT/CABLE (TO OS DATUM)	SL 45.67
COVER LEVEL OF INSPECTION CHAMBER (TO OS DATUM)	CL 78.90
SUMP LEVEL OF INSPECTION CHAMBER (TO OS DATUM)	SP 78.90
DIAMETER OF PIPE/DUCT IN MILLIMETERS	DIA 150MM
[BGL - BELOW GROUND LEVEL]	
AREA UNABLE TO BE SURVEYED DUE TO SURFACE OBSTRUCTIONS, VEGETATION OR LACK OF ACCESS	
TRENCH SCAR / SURFACE SCAR	
EXTENT OF SURVEY - BOUNDARY	

Sheet/View Layout

Sheet 1

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
A01	25/06/25	FIRST ISSUE	JB	PW	CR

Status: FOR APPROVAL — Suitability:

Client(s): AMEY

Contractor(s):

InoRail Ltd
14, The Parks
Newton le Willows
St Helens
WA12 0JQ
TEL: +44 (0) 333 200 0073
www.inorail.co.uk

Project: TRU Framework

Drawing Title: Drainage Survey

Designed	N/A	Signed	Date
Drawn	J Boardman	Signed	Date 25/06/25
Checked	P Wilde	Signed	Date 25/06/25
Approved	C Rogers	Signed	Date 25/06/25

Scale(s): 1:200 — Site: Flint Street Compound

Alternative Reference — Sheet: 1 of 1

Drawing Number: P-240207-109-SUR-DM3-0002 — Revision: A01

Sheet Size A1 594 x 841

SUB SURFACE KEY

Utilities Telecom cable	T (B1)	Utilities Electric cable	E (B1)	Utilities Surface Water	> SW (B1)
Utilities CATV cable	CATV (B1)	Utilities Foul Water	> FW (B1)	Utilities Foul Water	TS (B1)
Utilities Cable Duct	UCD (B1)	Utilities Gas	GAS (B1)	Utilities Main Water	W (B1)
Utilities Combined Sewer	> CSW (B1)	Unidentified GPR	GPR (B1)	Utilities Fibre Optic	FO (B1)
		Unidentified Utility	U (B1)	Utilities Oil Pipeline	O-(B1)
				Utilities Search Area	SEARCH AREA

DUCT FORMATION

1W	1 WAY SINGLE DUCT
2W	2 WAY FLAT
2W1/2	2 WAY: 1 WIDE, 2 DEEP
4W2/2	4 WAY: 2 WIDE, 2 DEEP
6W3/2	6 WAY: 3 WIDE, 2 DEEP
12W4/3	12 WAY: 4 WIDE, 3 DEEP

NB: TO BE ADAPTED TO FOR EACH CHAMBER

PAS128 SURVEY METHODOLOGY KEY

THIS SURVEY HAS BEEN CARRIED OUT IN ACCORDANCE WITH THE PAS128 SPECIFICATION FOR UNDERGROUND UTILITY DETECTION, VERIFICATION & LOCATION. THE SPECIFICATION ALLOWS FOR A RANGE OF TECHNIQUES AND METHODS OF VARYING INTENSITY TO BE DEPLOYED. THE COLOUR CODED SCHEME INDICATES WHERE DIFFERENT SURVEY METHODOLOGIES HAVE BEEN USED ON SITE, AND THE LIST BELOW IDENTIFIES EQUIPMENT USED TO OBTAIN THE SURVEY RESULTS.
NB: PLEASE SEE ACCOMPANYING REPORT FOR FULL DETAILS.

ELECTROMAGNETIC DETECTION	GROUND PENETRATING RADAR	TOTAL STATION	GPS/GNSS
Equipment name	Equipment name	Equipment name	Equipment name
Equipment name	Equipment name	Equipment name	Equipment name
Equipment name	Equipment name	Equipment name	Equipment name

M4P - EML SEARCH TRANSECT AT 2m INTERVALS - TRACED AT 0.5m INTERVALS. GPR SURVEY GRID AT 0.5m INTERVALS OR HIGH DENSITY ARRAY. POST PROCESSING OF GPR DATA.

M3P - EML SEARCH TRANSECT AT 2m INTERVALS - TRACED AT 1m INTERVALS. GPR SURVEY GRID AT 1m INTERVALS OR HIGH DENSITY ARRAY. POST PROCESSING OF GPR DATA.

M2P - EML SEARCH TRANSECT AT 5m INTERVALS - TRACED AT 2m INTERVALS. GPR SURVEY GRID AT 2m INTERVALS OR HIGH DENSITY ARRAY. POST PROCESSING OF GPR DATA.

M1P - EML SEARCH TRANSECT AT 10m INTERVALS - TRACED AT 5m INTERVALS. GPR SURVEY AS APPROPRIATE. POST PROCESSING OF GPR DATA.

M4 - EML SEARCH TRANSECT AT 2m INTERVALS - TRACED AT 0.5m INTERVALS. GPR SURVEY GRID AT 0.5m INTERVALS. GPR MARK-UP ON SITE

M3 - EML SEARCH TRANSECT AT 5m INTERVALS - TRACED AT 1m INTERVALS. GPR SURVEY GRID AT 1m INTERVALS. GPR MARK-UP ON SITE.

M2 - EML SEARCH TRANSECT AT 5m INTERVALS - TRACED AT 2m INTERVALS. GPR SURVEY GRID AT 2m INTERVALS. GPR MARK-UP ON SITE.

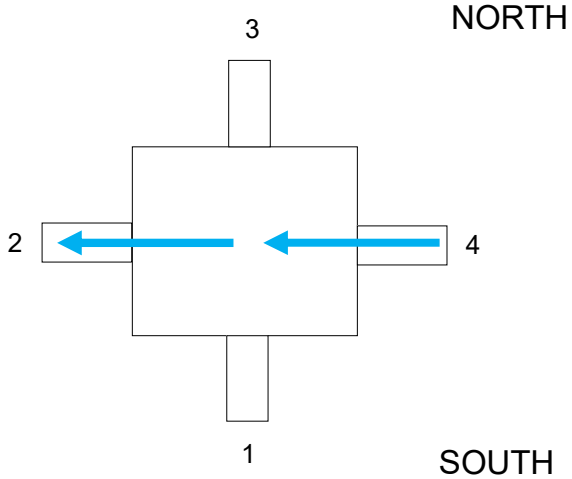
M1 - EML SEARCH TRANSECT AT 10m INTERVALS - TRACED AT 5m INTERVALS. GPR SURVEY AS APPROPRIATE. GPR MARK-UP ON SITE

Catchpit Sheet

Catchpit / MH Number:	1		
Project:	TRU Framework	Date:	19/06/25
Site Name:	Flint Street Compound	Site Chainage:	
Catchpit Location:	Flint Street Compound	Mileage:	
Catchpit Easting (Topo):	414614.975	Catchpit Lid Construction:	Cast Iron
Catchpit Northing (Topo):	418216.561		
Cover Elevation:	78.206	Catchpit Shape:	Square
Sump Depth (m):	1.020		
Sump Elevation (m):	77.186	Catchpit Construction:	Brick
Nearest Rail Level (m):		Internal Dimensions (m):	

Catchpit Condition	Length:	Width:
(SW) Disused	0.650	0.650

PIPE	Pipe Dia (m)	Crown (m)	Invert (m)	Invert Elevation (m)	Pipe Construction
1					
2	0.100	0.920	1.020	77.186	Clay
3					
4	0.100	0.900	1.000	77.206	Plastic
A1					
A2					



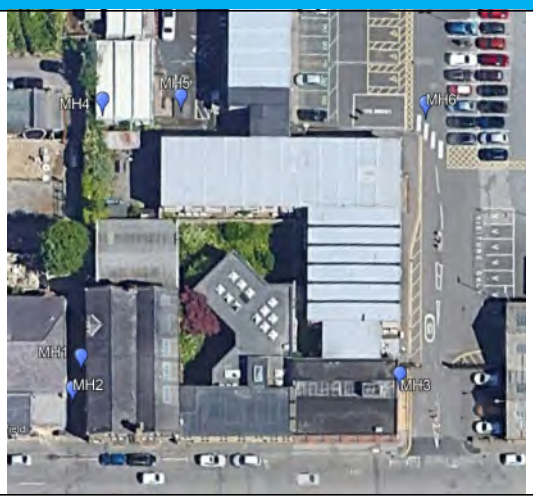
Catchpit Photo

Catchpit Lid Photo

Catchpit Chart

No Graph Available

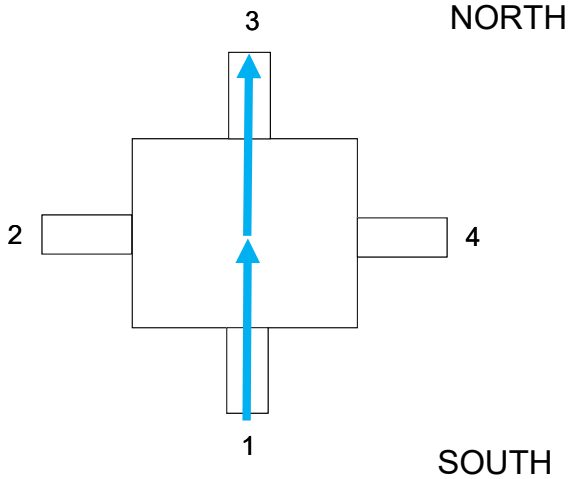
Catchpit Network Sketch



Catchpit Sheet

Catchpit / MH Number:	2		
Project:	TRU Framework	Date:	19/06/25
Site Name:	Flint Street Compound	Site Chainage:	
Catchpit Location:	Flint Street Compound	Mileage:	
Catchpit Easting (Topo):	414613.995	Catchpit Lid Construction:	Cast Iron
Catchpit Northing (Topo):	418211.773		
Cover Elevation:	78.319	Catchpit Shape:	Circular
Sump Depth (m):	1.510		
Sump Elevation (m):	76.809	Catchpit Construction:	Concrete Rings
Nearest Rail Level (m):		Internal Dimensions (m):	
Catchpit Condition		Length:	Width:
(SW) No Flow		1.200	1.200

PIPE	Pipe Dia (m)	Crown (m)	Invert (m)	Invert Elevation (m)	Pipe Construction
1	0.300	1.190	1.490	76.829	Concrete
2					
3	0.300	1.210	1.510	76.809	Concrete
4					
A1					
A2					



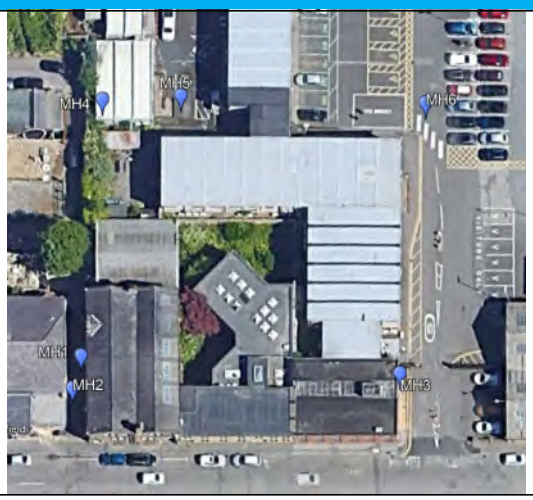
Catchpit Photo

Catchpit Lid Photo

Catchpit Chart

No Graph Available

Catchpit Network Sketch

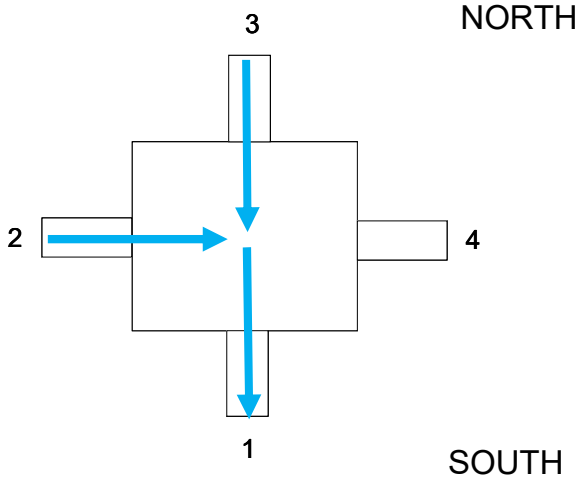


Catchpit Sheet

Catchpit / MH Number:	3		
Project:	TRU Framework	Date:	19/06/25
Site Name:	Flint Street Compound	Site Chainage:	
Catchpit Location:	Flint Street Compound	Mileage:	
Catchpit Easting (Topo):	414665.413	Catchpit Lid Construction:	Cast Iron
Catchpit Northing (Topo):	418207.754		
Cover Elevation:	77.988	Catchpit Shape:	Circular
Sump Depth (m):	3.040		
Sump Elevation (m):	74.948	Catchpit Construction:	Concrete Rings
Nearest Rail Level (m):		Internal Dimensions (m):	

Catchpit Condition	Length:	Width:
(SW) Dry/Silted/Blocked Outfall	1.200	1.200

PIPE	Pipe Dia (m)	Crown (m)	Invert (m)	Invert Elevation (m)	Pipe Construction
1	0.150	2.890	3.040	74.948	Clay
2	0.100	1.380	1.480	76.508	Clay
3	0.150	2.880	3.030	74.958	Clay
4					
A1					
A2					



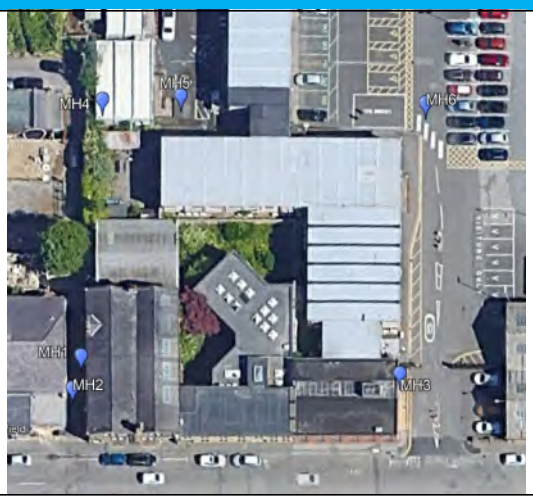
Catchpit Photo

Catchpit Lid Photo

Catchpit Chart

No Graph Available

Catchpit Network Sketch



Catchpit Sheet

Catchpit / MH Number:	4
Project:	TRU Framework
Site Name:	Flint Street Compound
Catchpit Location:	Flint Street Compound
Catchpit Easting (Topo):	414624.357
Catchpit Northing (Topo):	418256.533
Cover Elevation:	78.389
Sump Depth (m):	0.080
Sump Elevation (m):	78.309
Nearest Rail Level (m):	

Date:	19/06/25
Site Chainage:	
Mileage:	
Catchpit Lid Construction:	Cast Iron
Catchpit Shape:	Square
Catchpit Construction:	Brick

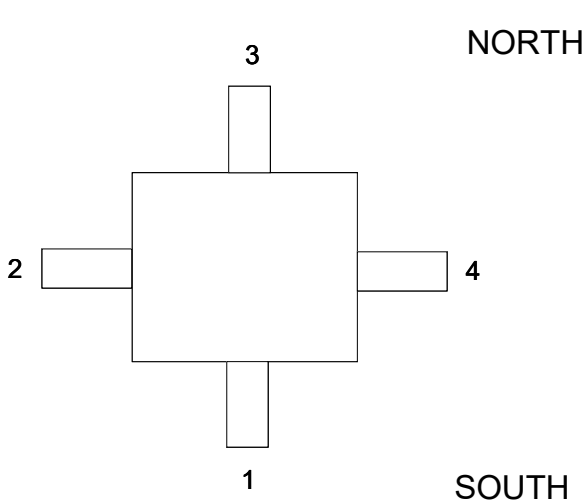
Catchpit Condition

(FW) Blocked/No Visible Pipes

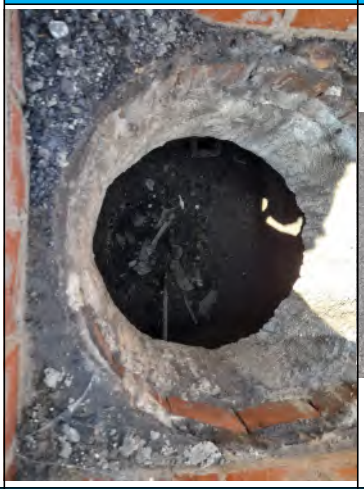
Internal Dimensions (m):

Length:	Width:
1.000	1.000

PIPE	Pipe Dia (m)	Crown (m)	Invert (m)	Invert Elevation (m)	Pipe Construction
1					
2					
3					
4					
A1					
A2					



Catchpit Photo

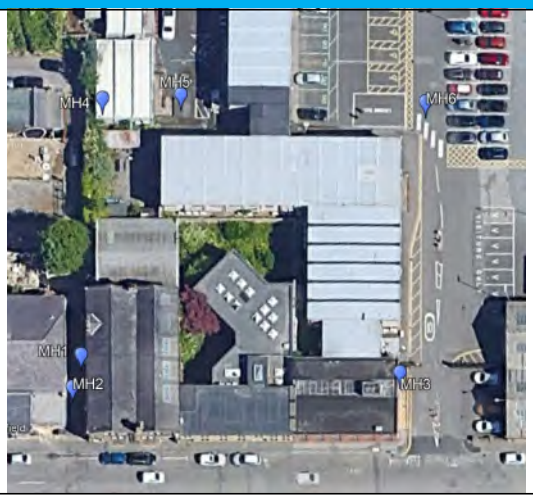


Catchpit Lid Photo

Catchpit Chart

No Graph Available

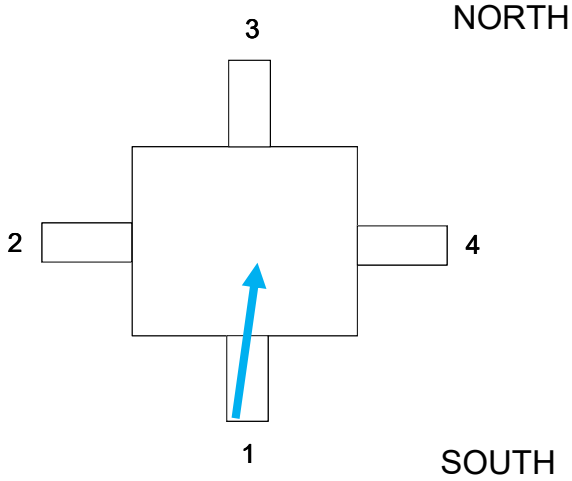
Catchpit Network Sketch



Catchpit Sheet

Catchpit / MH Number:	5		
Project:	TRU Framework	Date:	19/06/25
Site Name:	Flint Street Compound	Site Chainage:	
Catchpit Location:	Flint Street Compound	Mileage:	
Catchpit Easting (Topo):	414636.076	Catchpit Lid Construction:	Cast Iron
Catchpit Northing (Topo):	418255.414		
Cover Elevation:	78.383	Catchpit Shape:	Circular
Sump Depth (m):	2.170		
Sump Elevation (m):	76.213	Catchpit Construction:	Concrete Rings
Nearest Rail Level (m):		Internal Dimensions (m):	
Catchpit Condition		Length:	Width:
(FW) Dry/Silted		1.200	1.200

PIPE	Pipe Dia (m)	Crown (m)	Invert (m)	Invert Elevation (m)	Pipe Construction
1	0.100	1.910	2.010	76.373	Clay
2	0.150	2.010	2.160	76.223	Clay
3					
4	0.150	2.020	2.170	76.213	Clay
A1					
A2					



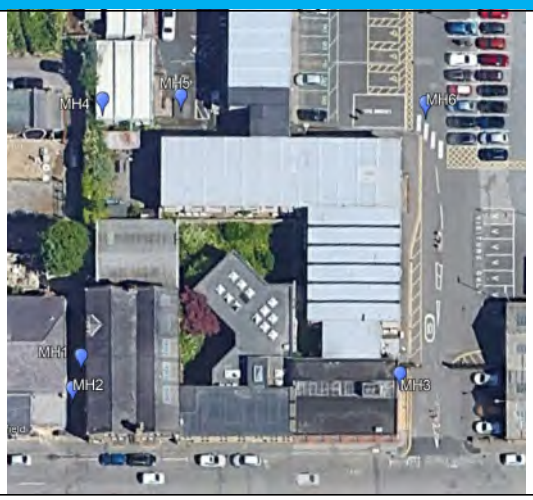
Catchpit Photo

Catchpit Lid Photo

Catchpit Chart

No Graph Available

Catchpit Network Sketch



Catchpit Sheet

Catchpit / MH Number:	6
Project:	TRU Framework
Site Name:	Flint Street Compound
Catchpit Location:	Flint Street Compound
Catchpit Easting (Topo):	414674.649
Catchpit Northing (Topo):	418250.440
Cover Elevation:	78.369
Sump Depth (m):	2.370
Sump Elevation (m):	75.999
Nearest Rail Level (m):	

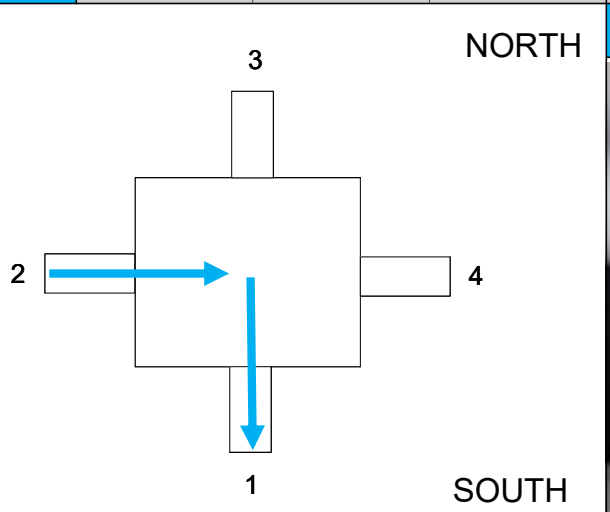
Date:	19/06/25
Site Chainage:	
Mileage:	
Catchpit Lid Construction:	Cast Iron
Catchpit Shape:	Circular
Catchpit Construction:	Concrete Rings

Catchpit Condition

Silted and Dry

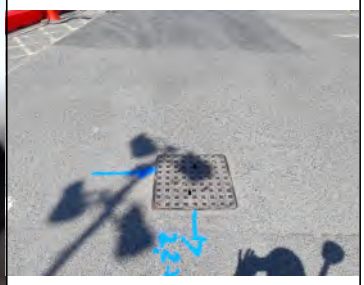
Internal Dimensions (m):	
Length:	Width:
1.200	1.200

PIPE	Pipe Dia (m)	Crown (m)	Invert (m)	Invert Elevation (m)	Pipe Construction
1	0.150	2.220	2.370	75.999	Clay
2	0.150	2.200	2.350	76.019	Clay
3					
4					
A1					
A2					



Catchpit Photo

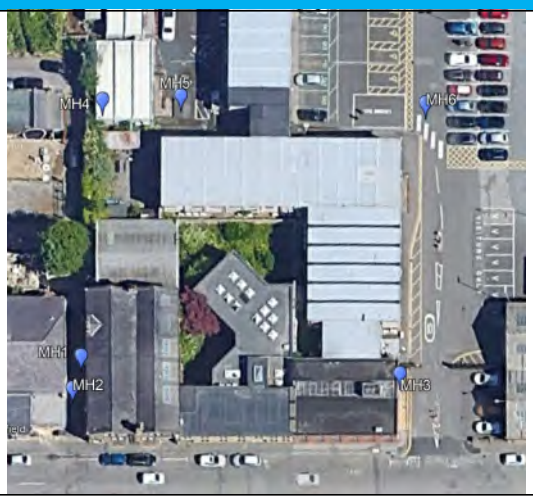
Catchpit Lid Photo



Catchpit Chart

No Graph Available

Catchpit Network Sketch



SURVEY LEGEND TABLE

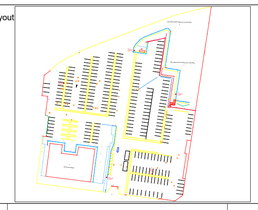
AC	AXLE COUNTER	FP	FOOT PATH	RBB	RED BOND BOX
ADJ	ADJUSTMENT SWITCH	FW	FLASHBUTT WELD	RCK	CHECK RAIL
AWS	AWS MAGNET	FW	UTILITIES FOUL WATER	RE	DRAIN
AXB	AXLE COUNTER BOX	GAR	GATHER RAIL	RIB	TRAFFIC SIDE RIB LINE
BAR	LEVEL CROSSING BARRIER	GB	GANTRY BASE	ROD	POINTS RODDING
BB	BOTTOM OF EMBANKMENT	GPOT	GREASE POT	RT	RAIL TOE
BCH	BENCH			SB	STEEL BASE REC
BH	BORE HOLE	GSIG	GROUND SIGNAL	SD	DRAIN
BIN	BIN ROUND	GUL	GULLY	SD	SURFACE DRAIN
BL	BUILDING LINE OUTLINE	GUR	GUARD RAIL	SIG	SIGNAL POST
BLT	BUILDING LINE OUTLINE TOP	GV	GAS VALVE	SM	POINTS MOTOR
BM	OS BENCH MARK	HB	HOLLOW SLEEPER	SMA	SERVICE MARKER
BOC	BACK OF COPING STONE	HDB	HOLDING DOWN BOLT	SO	SOFFIT
BOD	BOTTOM OF DITCH	IBL	ILLUMINATED BOLLARD	SPLAY	CON RAIL SPLIT POINT
BOL	BOLLARD	IC	INSPECTION COVER	SPT	LINESIDE TELEPHONE
BOR	PLATFORM BOTTOM RAMP	INV	INVERT LEVEL	SRP	SLEEPER RESTRAINT PLATE
BOX	STORAGE	JB	JUNCTION BOX	ST	TRIAL HOLE
BSB	BALLAST SHOULDER BOTTOM	JI4	IBJ 4 HOLE	STAY	STAY
BST	BALLAST SHOULDER TOP	JI6	IBJ 6 HOLE	STEPS	STEP OR STAIRCASE
BT	BT COVER	JO2	FISHPLATE 2 HOLE	STRB	ADJUSTMENT SWITCH STRECHER BAR
BT CAB	BT TELECOM BOX	JO4	FISHPLATE 4 HOLE	STUMP	TREE STUMP
BUFF	BUFFER STOP	JO6	FISHPLATE 6 HOLE	SUMP	SUMP LEVEL
C	CABLE ROUTE	KB	KERB BOTTOM	⚠	SURVEY STATION
CATV	CABLE TV	KO	KERB OUTLET	TAC	BACK OF TACTILE
CB	CONCRETE BASE	KT	KERB TOP	TB	TOP OF BANK
CCTV	CCTV	LAD	LADDER	TD	TOP OF DITCH
⟶	CHAINAGE STRING	LOC	LOCATION BOX	TH	TRIAL HOLE
CN	POINT CROSSING NOSE	LP	LAMP POST	TIE	TIE BAR
COL	COLUMN SQUARE	LT	LONG TIMBER	TL	TRAFFIC LIGHT
CON	UTILITIES COMBINED SEWER	LT	S&C LONG TIMBER	TM	TICKET MACHINE
CON RAIL	THIRD RAIL	LX	LEVEL CROSSING	TOR	PLATFORM TOP RAMP
CP	CATCHPIT	MH	MH CIRC	TP	TELEGRAPH POLE
CR	CROWN LEVEL	MOR	PLATFORM MID RAMP	TPWS	TPW MAGNET
CLI	LEVEL CROSSING LIGHT	MP	MILEPOST	TR	TREADLE
C/L	ROAD CROWN LEVEL	OB	OVER BRIDGE	TRAN	TRANSOM
CS	CHANGE OF SURFACE	OH PIPE	OVERHEAD PIPE	TRB	TRACK RETURN BOND
CT	TROUGHING ROUTE	OHCA	OVERHEAD CABLE	TU	TUNNEL
CUL	UTILITIES CULVERT	OHLE	OHLE CABLE	TW	THERMIT WELD
DP	DOWN PIPE	OPX	ORANGE PIPE	TWI	TWIST POINT
DPL	DATUM PLATE	PB	PHONE BOX	UB	UNDER BRIDGE
DROP	DROP KERB	PE	PLATFORM EDGE	UTX	UTX
EIC	ELECTRIC COVER	PH	POINTS HEATER	VEG	VEGETATION
EJB	ELECTRICITY JUNCTION BOX	PIPE	PIPE DUCT ROUTE	WB	BASE OF WALL
ER	EARTH ROD	PKN	KNUCKLE	WL	WATER LEVEL
F	FENCE	PM	PARK METER	WR	WING RAIL
FB	FIXED BLOCK	PO	POST	WST	STOP VALVE/TAP
FH	FIRE HYDRANT	PYLON	ELECTRICITY PYLON	WT	WALL TOP
FL	GREASE GUN	R	RAIL	WV	WATERS VALVE
		RB	RED BOND		
			UTILITIES		
⊞	GPR POINT	CATV	TV CABLE	OIL	OIL PIPELINE
REF	MANHOLE REFERENCE	EC	ELETRIC CABLE	UNIP	UNIDENTIFIED PIPE
T	TELECOM CABLE	FOC	FIBRE OPTIC CABLES	SCAR	REINSTATEMENT SCAR
UCAB	UNIDENTIFIED CABLE	FW	FOUL WATER SEWER	USW	STORM WATER SEWER
UCD	CABLE DUCTING	GAS	GAS PIPELINE	UTS	TRAFFIC SIGNAL CABLES
CSW	COMBINED SEWER	UNID	UNIDENTIFIED TRACE	UWA	WATER

Survey Stations:

SURVEY STATIONS			
Name	Easting	Northing	Height
FS01	414665.720	418209.805	77.745
FS02	414634.335	418278.683	78.553
FS03	414686.054	418302.661	79.671
FS04	414716.320	418270.661	83.226
FS05	414699.109	418212.422	78.079

Notes:
- North Arrow is approximate and to Grid North
- Survey Grid is a Pseudo OS (OSTN15) SF1
- Survey Datum is ODN (Ordnance Datum Newlyn)

Sheet/View Layout



Sheet 1

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
A01	09/07/25	FIRST ISSUE	MM	JB	CR

Status: FOR APPROVAL

Suitability:

Client(s): amey

Contractor(s): InoRail

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14, The Parks
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Project: TRU Framework Flint Street

Drawing Title: Topographical Survey

Surveyed	M Mcavoy	Signed	Date 09/07/25
Drawn	M Mcavoy	Signed	Date 09/07/25
Checked	J Boardman	Signed	Date 09/07/25
Approved	C Rogers	Signed	Date 09/07/25
Scale(s) 1:250		ELR & Mileage	
Alternative Reference		Sheet	1 of 1
Drawing Number P-240207-109-SUR-DM3-0003		Revision	A01

Sheet Size A1 594 x 841