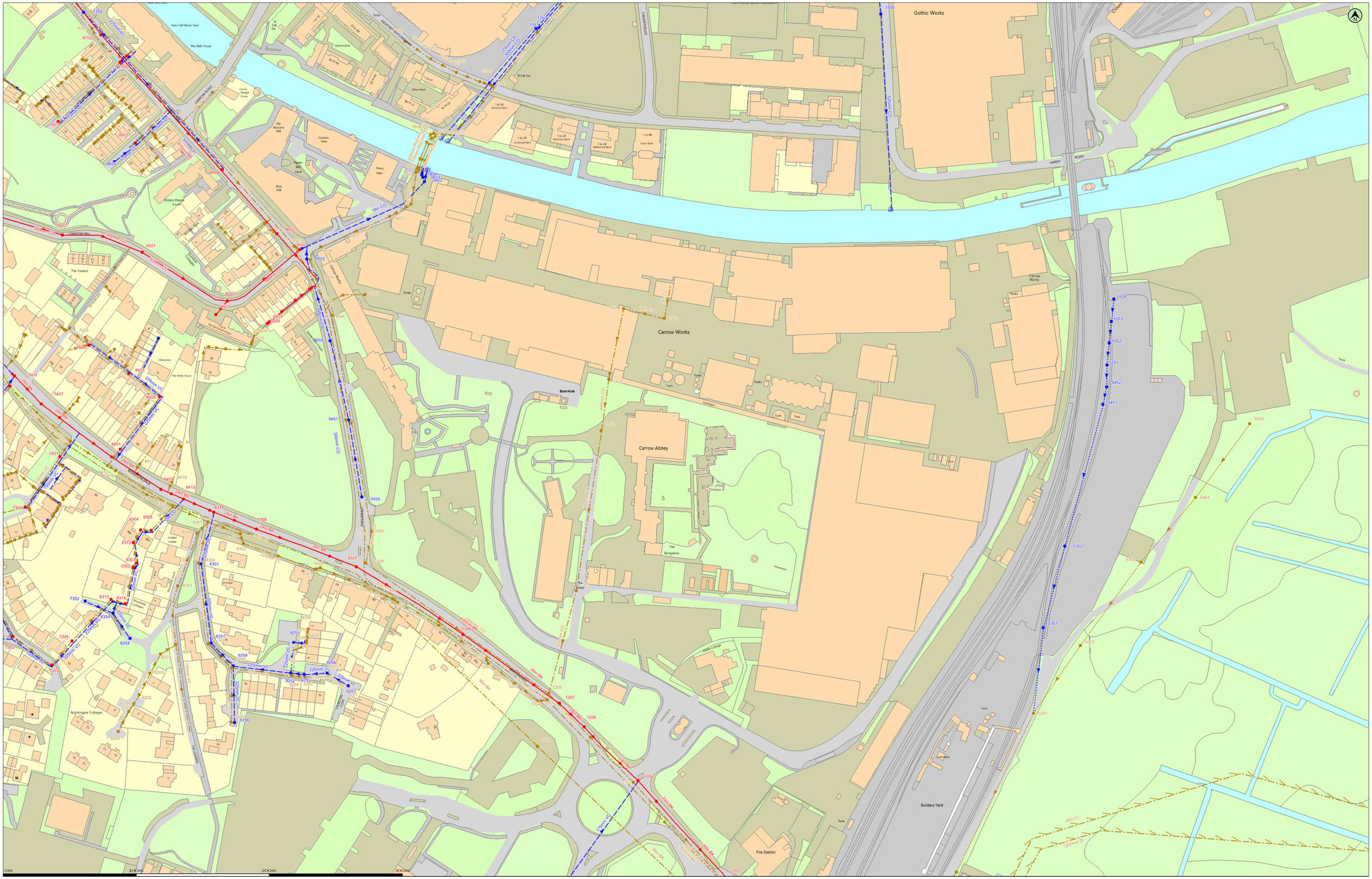
Appendix B – Anglian Water Asset Map



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This plan is provided by Anglian Water pursuant its obligations under the Water Industry Act 1991 sections 198 or 199. It must be used in conjunction with any search results attached. The information on this plan is based on data currently recorded but position must be regarded as approximate. Service pipes, private sewers and drains are generally not shown. Users of this map are strongly advised to commission their own survey of the area shown on the plan before carrying out any works. The actual position of all apparatus MUST be established by trial holes. No liability whatsoever, including liability for negligence, is accepted by Anglian Water for any error or inaccuracy or omission, including the failure to accurately record, or record at all, the location of any water main, discharge pipe, sewer or disposal main or any item of apparatus. This information is valid for the date printed. This plan is produced by Anglian Water Services Limited (c) Crown copyright and database rights 2022 Ordnance Survey 100022432.This map is to be used for the purposes of viewing the location of Anglian Water plant only. Any other uses of the map data or further copies is not permitted. This notice is not intended to exclude or restrict liability for death or personal injury resulting from negligence.

Foul Sewer	Outfall*	Sewage Treatment Works	
Surface Sewer			
Combined Sewer	Inlet*	Public Pumping Station	
Final Effluent			
Rising Main*	Manhole*	Decommissioned Pumping Station	
Private Sewer*			
Decommissioned Sewer*			

*(Colour denotes effluent type)

mike.smith9293@gmail.com

Carrow Works

love every drop anglianwater

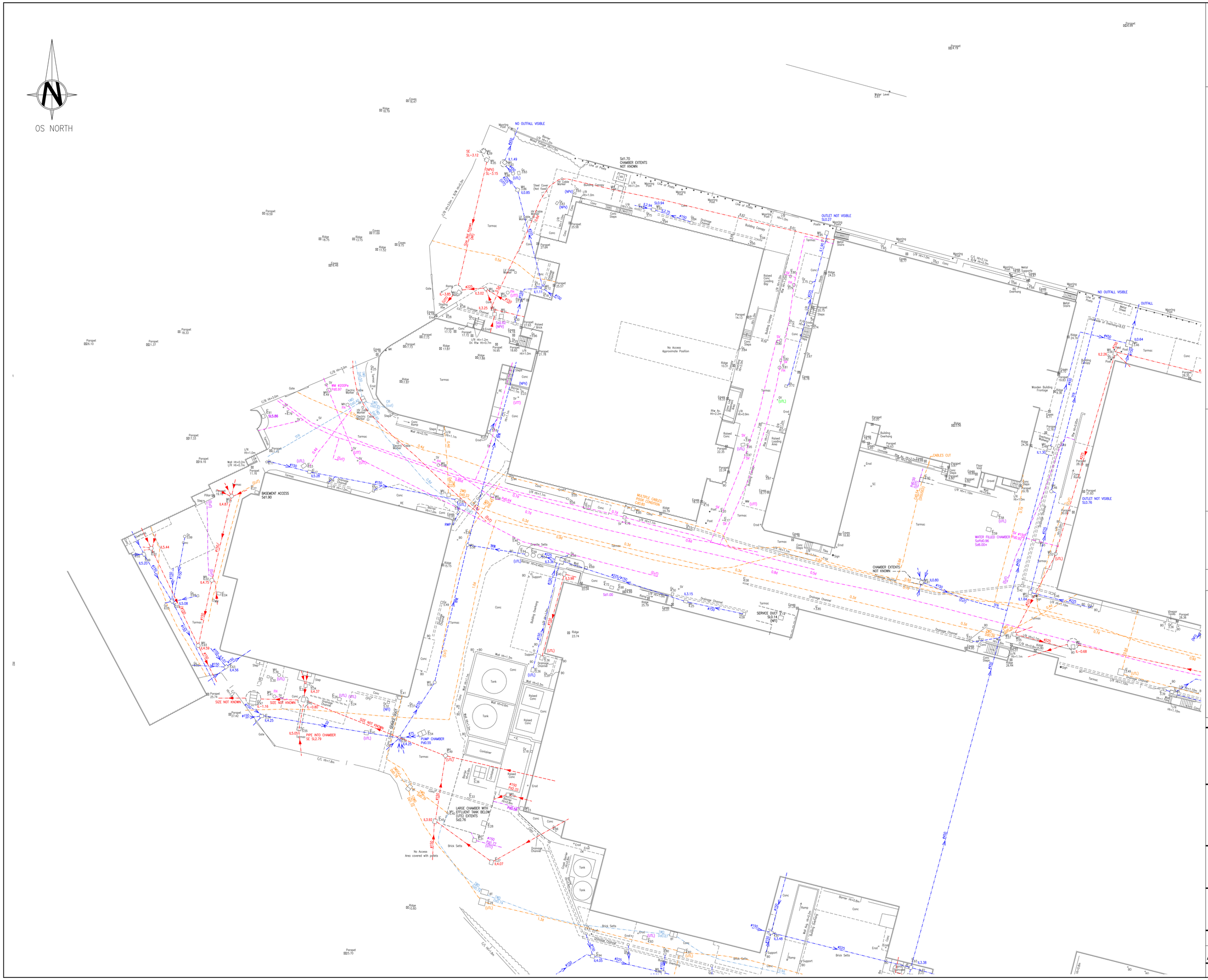
Manhole Reference	Easting	Northing	Liquid Type	Cover Level	Invert Level	Depth to Invert
0306	624079	307301	C	16.871	13.946	2.925
1206	624170	307232	C	12.06	9.06	3
1207	624151	307249	C	-	-	2.845
2105	624211	307191	C	9.99	6.84	3.15
7202	623741	307299	C	36.245	34.205	2.04
7203	623770	307278	C	-	-	2.25
7204	623785	307296	C	-	-	2.03
7301	623750	307397	C	-	-	2.04
7401	623776	307434	C	-	-	1.83
7407	623762	307474	C	-	-	3.33
7408	623739	307487	C	-	-	4.825
7411	623742	307495	C	-	-	-
7504	623798	307518	C	-	-	2.59
7602	623778	307601	C	31.61	30.125	1.485
7603	623775	307686	C	9.822	8.007	1.815
8302	623831	307351	C	29.44	27.68	1.76
8303	623834	307355	C	29.43	27.64	1.79
8304	623837	307379	C	28.69	27	1.69
8305	623845	307379	C	28.39	-	1.55
8311	623892	307393	C	25.45	22.49	2.96
8312	623831	307370	C	28.79	27.2	1.59
8313	623814	307327	C	-	-	0.9
8314	623825	307324	C	-	-	1.2
8401	623821	307440	C	-	-	1.22
8405	623851	307480	C	32.54	30.71	1.83
8407	623852	307410	C	-	-	3.355
8413	623869	307403	C	-	-	-
8415	623828	307497	C	31.271	29.556	1.715
8501	623838	307588	C	26.005	24.69	1.315
8502	623902	307551	C	-	-	1.45
8503	623893	307541	C	-	-	-
8603	623833	307670	C	8.259	6.589	1.67
8604	623898	307650	C	9.281	6.906	2.375
8702	623807	307751	C	5.38	-4.56	9.94
8709	623821	307731	C	6.184	4.539	1.645
9305	623924	307380	C	23.46	20.61	2.85
9307	623999	307352	C	21.13	17.53	3.6
9502	623956	307590	C	11.333	9.318	2.015
9507	623934	307536	C	-	-	-
9508	623932	307534	C	-	-	-
9602	623939	307602	C	10.862	-4.788	15.65
0201	624098	307279	F	15.489	13.599	1.89
0202	624096	307283	F	15.579	13.844	1.735
0301	624061	307308	F	17.89	15.19	2.7
0304	624030	307325	F	19.855	17.725	2.13
0305	624026	307328	F	19.958	17.698	2.26
0308	624006	307354	F	20.622	0.962	19.66
0309	624010	307378	F	-	-	17.83
0310	624005	307378	F	-	-	24.5
0311	624018	307331	F	20.561	18.256	2.305
0501	624005	307556	F	-	-	-
0602	624057	307677	F	1.45	-3.6	5.05
0603	624024	307615	F	5.84	-4.1	9.94
0604	624085	307690	F	2.44	-2.65	5.09
0605	624040	307624	F	4.55	-4.15	8.7
0607	624044	307648	F	4.07	-4.09	8.16
0608	624056	307674	F	-	-	-
0609	624045	307651	F	-	-	-
0610	624069	307677	F	-	-	-
0700	624100	307713	F	-	-	-
0701	624092	307716	F	-	-	-
0702	624074	307723	F	-	-	-
0703	624055	307733	F	-	-	-
0704	624035	307746	F	-	-	-
1201	624142	307252	F	13.2	-	-
1203	624118	307264	F	-	-	4.01
1204	624135	307251	F	-	-	3.68
1208	624143	307257	F	-	-	13.715
1209	624135	307217	F	13.29	-5.71	19
1301	624164	307334	F	13.8	0.85	12.95
1401	624188	307493	F	4.62	-	2.95
1402	624183	307454	F	12.5	1.33	11.17
1501	624200	307546	F	-	-	-
1701	624135	307753	F	1.61	-2.2	3.81
2102	624207	307190	F	-	-	10.67
2501	624230	307538	F	-	-	-
4101	624450	307123	F	-	-	7.85
5201	624508	307242	F	-	-	-
5203	624543	307293	F	-	-	-
5302	624588	307355	F	-	-	-
6401	624630	307404	F	-	-	-
6402	624670	307459	F	-	-	-
7402	623784	307446	F	-	-	3.645
7403	623759	307468	F	-	-	4.42
7503	623795	307524	F	-	-	-
7705	623787	307724	F	-	-	-
7706	623790	307726	F	-	-	-
7707	623786	307725	F	-	-	-
8202	623836	307256	F	-	-	1.19
8203	623844	307272	F	-	-	0.89
8204	623863	307294	F	-	-	1.42
8205	623820	307228	F	-	-	1.29
8206	623888	307294	F	29.33	23.94	5.39
8207	623852	307286	F	-	-	3.015
8208	623828	307243	F	-	-	1.37
8301	623865	307338	F	-	-	1.445
8306	623880	307355	F	26.15	23.57	2.58
8307	623887	307386	F	-	-	2.765
8309	623879	307377	F	25.75	24.65	1.1
8315	623861	307397	F	-	-	-
8410	623818	307424	F	-	-	3.34
8412	623812	307428	F	-	-	-
8414	623842	307406	F	28.98	-	-

Manhole Reference	Easting	Northing	Liquid Type	Cover Level	Invert Level	Depth to Invert
8416	623836	307467	F	-	-	-
8417	623836	307429	F	-	-	-
8418	623867	307442	F	-	-	-
8419	623860	307416	F	-	-	-
8605	623817	307698	F	-	-	-
8701	623846	307709	F	7.017	5.397	1.62
8704	623820	307741	F	5.8	-0.19	5.99
8706	623814	307738	F	5.852	3.452	2.4
8708	623800	307756	F	5.24	2.94	2.3
8710	623891	307708	F	-	-	-
9201	623993	307260	F	-	-	0.7
9202	623978	307270	F	-	-	1.2
9203	623960	307269	F	27.37	24.97	2.4
9204	623951	307270	F	-	-	2.4
9205	623953	307290	F	27.08	25.12	1.96
9206	623905	307276	F	29.7	24.29	5.41
9207	623905	307235	F	30.85	28.93	1.92
9208	623961	307292	F	-	-	-
9209	623961	307296	F	-	-	-
9210	623961	307299	F	-	-	-
9301	623994	307342	F	-	-	2.58
9302	623914	307369	F	-	-	2.39
9303	623968	307350	F	-	-	2.44
9304	623972	307351	F	-	-	2.29
9309	623912	307376	F	23.95	21.87	2.08
9310	623963	307305	F	-	-	-
9503	623952	307593	F	11.187	-0.483	11.67
9504	623972	307592	F	10.092	-4.558	14.65
9505	623969	307568	F	-	-	-
9506	623980	307541	F	-	-	-
9509	623922	307525	F	-	-	-
9510	623920	307519	F	-	-	-
9601	623935	307604	F	10.943	7.878	3.065
0450	624003	307404	S	-	-	-
0652	624050	307641	S	3.87	0.83	3.04
0653	624048	307646	S	3.95	1.5	2.45
0654	624049	307644	S	3.87	1.65	2.22
1750	624136	307757	S	1.49	-	-
1751	624134	307756	S	1.49	0.03	1.46
3750	624393	307767	S	2	0.22	1.78
5351	624515	307306	S	-	-	-
5352	624531	307367	S	-	-	-
5451	624560	307474	S	-	-	-
5452	624563	307487	S	-	-	-
5551	624563	307503	S	-	-	-
5552	624565	307520	S	-	-	-
5553	624566	307536	S	-	-	-
5554	624568	307553	S	-	-	-
7352	623795	307326	S	-	-	1.15
7755	623794	307768	S	4.881	3.201	1.68
8251	623890	307295	S	29.39	24.23	5.16
8254	623829	307298	S	-	-	1.1
8351	623882	307354	S	-	-	2.31
8354	623816	307317	S	-	-	1.05
8655	623817	307656	S	8.732	8.73	0.002
9251	623952	307295	S	26.99	25.56	1.43
9252	623950	307272	S	-	-	2.1
9253	623993	307262	S	26.29	25.59	0.7
9254	623977	307272	S	-	-	0.89
9255	623960	307271	S	27.38	25.22	2.16
9256	623907	307235	S	30.84	29.12	1.72
9259	623906	307277	S	29.67	24.6	5.07
9451	623993	307462	S	16.1	14.68	1.42
9552	623962	307583	S	-	-	-
9555	623979	307522	S	13.92	12.48	1.44

Manhole Reference	Easting	Northing	Liquid Type	Cover Level	Invert Level	Depth to Invert

Manhole Reference	Easting	Northing	Liquid Type	Cover Level	Invert Level	Depth to Invert

Appendix C – Utilities Survey



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NOTES

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2. TOPOGRAPHICAL SURVEY DATA IS BY CD SURVEYS LTD AND HAS BEEN USED FOR INFORMATION ONLY.
3. REFER TO REPORT NO. A108750-1 UTILITIES SURVEY REPORT

TOPO LEGEND

AM	AERIAL MAST	IC/WO	INSPECTION COVER WASH OUT
AC	AIR CONDITIONING UNIT	IL:	INVERT LEVEL
AV	AIR VALVE	TJ	TRACK JOINT
BB	BELISHA BEACON	KO	KERB OUTLET
BL:	BED LEVEL	LAD	LADDER
BM	BENCHMARK	LB	LITTER BIN
B	BOLLARD	LDA	LAY DOWN AREA
BH	BOREHOLE	LP	LAMP POST
BS	BUS STOP	mE	METRES EAST
CAB	CABINET	MH	MANHOLE
CAB/BT	CABINET BRITISH TELECOM.	MHW	MEAN HIGH WATER LEVEL
CAB/EL	CABINET ELECTRIC	MLW	MEAN LOW WATER LEVEL
CAM	CAMERA	mN	METRES NORTH
CAL:	CANOPY LEVEL	MP	MARKER POST
CB	CRASH BARRIER	MP/BT	MARKER POST BRITISH TELECOM.
CBL:	CABLE	MP/EL	MARKER POST ELECTRIC
CD	CHANNEL DRAIN	MP/GA	MARKER POST GAS
CDC	CONC. DUCT COVER	MP/WA	MARKER POST WATER
CHS	CHEMICAL OIL STORE	NB	NOTICE BOARD
CLM	COLUMN	NP	NAME PLATE
CNB	CONCRETE BASE	OH	OVERHEAD ITEMS
CNP	CONCRETE PLINTH	OHBT	OVERHEAD BRITISH TELECOM.
CONC.	CONCRETE	OHCBL	OVERHEAD CABLES
CP	CATCHPIT	OHPI	OVERHEAD PIPES
CPL:	CROWN PIPE LEVEL	OHPL	OVERHEAD POWER LINES
CPS	CONC. PIPE SUPPORT	OHPS	OVERHEAD PIPE SUPPORT
CT	CABLE TRAY	OHPB	OVERHEAD PIPEBRIDGE
DB	DROP BARRIER	OHPBS	OVERHEAD PIPEBRIDGE SUPPORT
DBB	DROP BARRIER BOX	P	POLE
DBP	DROP BARRIER POST	PB	POINTS BOX
DK	DROP KERB	PC	PEDESTRIAN CROSSING
DR	DERAILER	PCN	POINT CROSSING NOSE
EEB	EMERGENCY EQUIPMENT BOX	PD	POINTS DETECTOR
EMS	EMERGENCY SHOWER	PL	PEDESTRIAN LIGHTING BOLLARD
EL:	EAVES LEVEL	PLR	POINTS LEVER
EP	ELECTRIC POLE	PM	POINT MOTOR
ER	EARTH ROD	PBX	POST BOX
FBEDS	FLOWER BEDS	PO	POST
FE	FIRE EXTINGUISHER	PR	POINT RODS
FECL	CHAINLINK FENCE	PS	PIPE SUPPORT
FEHE	TEMP. HERAS FENCE	RE	RODDING EYE
FEPA	PANEL FENCE	RGS	PEDESTRIAN BARRIER
FEPL	PALISADE FENCE	RIL:	RIDGE LEVEL
FEPW	POST & WIRE FENCE	RL:	ROOF LEVEL
FEPR	POST & RAIL FENCE	RP	REFLECTOR POST
FEWM	WELDMESH FENCE	RS	ROAD SIGN
FH	FIRE HYDRANT	RSD	ROLLER SHUTTER DOOR
FL	FLOOD LIGHT	RTW	RETAINING WALL
FL:	FLOOR LEVEL	RWP	RAIN WATER PIPE
FP	FOOTPATH	S	SCAR LINES
FS	FLAG STAFF	SD	SLIDING DOOR
G/S/H	TREE GIRTH SPREAD HEIGHT	SIG	RAIL SIGNAL
GAD	GATE DOUBLE	SL:	SOFFIT LEVEL
GAS	GATE SINGLE	SN	GENERAL SIGN
GATS	GATE TURNSTILE	SR	SPEED RESTRICTOR
GB	GRIT BIN	SRK	SPILL RESPONSE KIT
GBS	GAS BOTTLE STORE	STI	STILE
GDC	GRATED DUCT COVER	ST	STOP TAP
GP	GRADIENT POST	STHDR	STEPS WITH HANDRAIL
GRP	GREASE POINT	SV	STOP VALVE
GV	GAS VALVE	SVP	SOIL VENT PIPE
GY	GULLY	SW	STAY WIRE
HDR	HANDRAIL	TEL	TELEPHONE
HR	HEIGHT RESTRICTOR	TFL	TRAFFIC LIGHT
HL	HEIGHT	TL:	THRESHOLD LEVEL
IB	INSPECTION BOX (NOT BURIED)	TP	TELEGRAPH POLE
IC	INSPECTION COVER UNKNOWN	TS	TREADLE SWITCH
IC/BH	INSPECTION COVER BOREHOLE	US:	UNDERSIDE LEVEL
IC/BT	INSPECTION COVER BRITISH TELECOM.	UP	DIRECTION OF INCLINE
IC/FH	INSPECTION COVER FIRE HYDRANT	VP	VENT PIPE
IC/EL	INSPECTION COVER ELECTRIC	WJ	WELD JOINT
IC/GA	INSPECTION COVER GAS	WL:	WATER LEVEL
IC/SL	INSPECTION COVER STREET LIGHT	WP	WASTE PIPE
IC/WA	INSPECTION COVER WATER	WYGXXX	SURVEY STATION

GPR/UTILITIES LEGEND

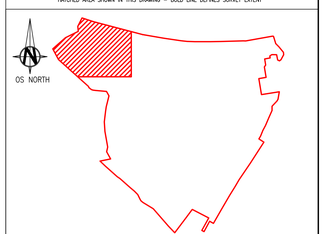
FOUL DRAINAGE	FW	(AC)	ASSUMED CONNECTION
SURFACE WATER DRAINAGE	SW	(BM)	BENCHMARK LEVEL
WATER	W	(BG)	BACK-GROUP LEVEL
GAS	GAS	(CD)	CABLE DEPTH
HV ELECTRICITY	HV	(CR)	CABLE RISER
LV ELECTRICITY	LV	(d)	DEPTH OF SERVICE (APPROX)
BT / OPENREACH	BT	(DC)	DISCONNECTED
UNKNOWN SERVICE	UK	(DT)	DISCONNECTING TRAP
UNDERGROUND CHAMBER		(ETT)	ELECTRONICALLY TRACED
		(EoT)	END OF TRACE
		(I)	INVERT DEPTH
		HV	HIGH VOLTAGE
		LD	LAND DRAIN
		LV	LOW VOLTAGE
		(NFI)	NO FURTHER INFORMATION
		(NPV)	NOT PRESENTLY VISIBLE
		PE	POLYETHYLENE
		PA	POLYAMIDE
		PR	PIPE RISER
		SU	SUMP DEPTH
		(U)	UNKNOWN
		(UTL)	UNABLE TO LIFT
		(UTS)	UNABLE TO SURVEY
		(UTT)	UNABLE TO TRACE
		WO	WAY-OUT

ASSOCIATED DRAWINGS

WYG001 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 1 OF 9 (THIS DRAWING)
WYG002 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 2 OF 9
WYG003 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 3 OF 9
WYG004 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 4 OF 9
WYG005 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 5 OF 9
WYG006 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 6 OF 9
WYG007 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 7 OF 9
WYG008 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 8 OF 9
WYG009 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 9 OF 9

LOCATION PLAN

HATCHED AREA SHOWN IN THIS DRAWING – BOLD LINE DEFINES SURVEY EXTENT



REV	DESCRIPTION	BY	CHK	APP	DATE

0 2 4 6 8 10 m
SCALE 1:200

LAKELAND BUSINESS PARK
LAMPLUGH ROAD
COCKERMOUTH
CA13 0QT

TEL: +44 (0)1900 898 600
FAX: +44 (0)1900 826 324
e-mail: cumbria@wyg.com

Project:
Carrow Works
Norwich
NR1 2DD

Drawing Title:
UTILITIES SURVEY
SHEET 1 OF 9

Scale @ A0	Drawn	Date	Checked	Date	Approved	Date
1 : 200	MD	22/11/18	DR	22/11/18	DR	22/11/18

Project No.	Office	Type	Drawing No.	Revision
A108750-1	22	01	WYG001	A

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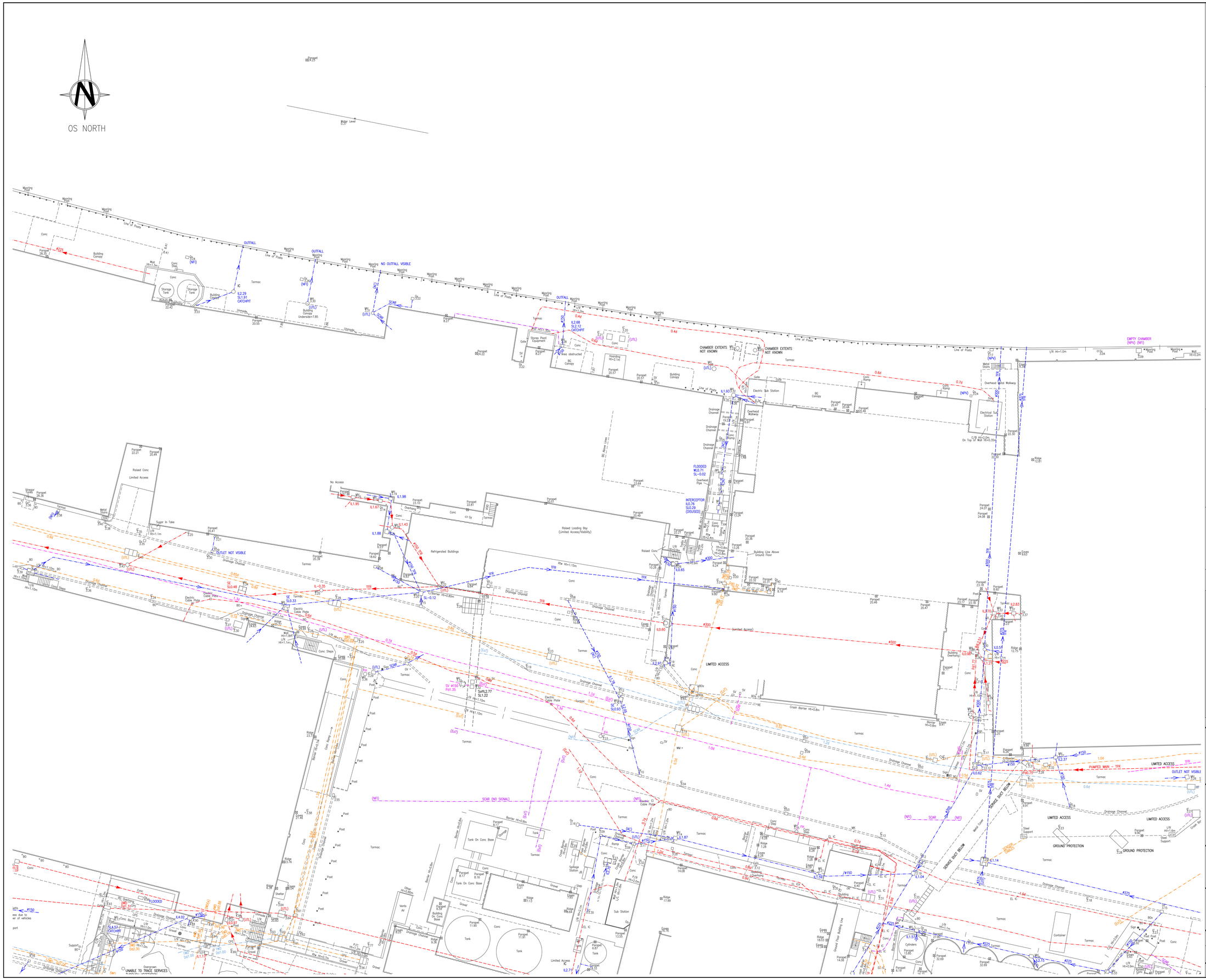

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3. REFER TO REPORT NO. A108750-1 UTILITIES SURVEY REPORT

TOPO LEGEND

AM	AERIAL MAST	IC/WO	INSPECTION COVER WASH OUT
AC	AIR CONDITIONING UNIT	IL:	INVERT LEVEL
AV	AIR VALVE	TJ	TRACK JOINT
BB	BELISHA BEACON	KO	KERB OUTLET
BL:	BED LEVEL	LAD	LADDER
BM	BENCHMARK	LB	LITTER BIN
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DBB	DROP BARRIER BOX	P	POLE
DBP	DROP BARRIER POST	PB	POINTS BOX
DK	DROP KERB	PC	PEDESTRIAN CROSSING
DR	DERAILER	PCN	POINT CROSSING NOSE
EEB	EMERGENCY EQUIPMENT BOX	PD	POINTS DETECTOR
EMS	EMERGENCY SHOWER	PL	PEDESTRIAN LIGHTING BOLLARD
EL:	EAVES LEVEL	PLR	POINTS LEVER
EP	ELECTRIC POLE	PM	POINT MOTOR
ER	EARTH ROD	PBX	POST BOX
FBEDS	FLOWER BEDS	PO	POST
FE	FIRE EXTINGUISHER	PR	POINT RODS
FECL	CHAINLINK FENCE	PS	PIPE SUPPORT
FEHE	TEMP. HERAS FENCE	RE	RODDING EYE
FEPA	PANEL FENCE	RGS	PEDESTRIAN BARRIER
FEPE	PALISADE FENCE	RIL:	RIDGE LEVEL
FEPW	POST & WIRE FENCE	RL:	ROOF LEVEL
FEPR	POST & RAIL FENCE	RP	REFLECTOR POST
FEWM	WELDMESH FENCE	RS	ROAD SIGN
FH	FIRE HYDRANT	RSD	ROLLER SHUTTER DOOR
FL	FLOOD LIGHT	RTW	RETAINING WALL
FL:	FLOOR LEVEL	RWP	RAIN WATER PIPE
FP	FOOTPATH	S	SCAR LINES
FS	FLAG STAFF	SD	SLIDING DOOR
G/S/H	TREE GIRTH SPREAD HEIGHT	SIG	RAIL SIGNAL
GAD	GATE DOUBLE	SL:	SOFFIT LEVEL
GAS	GATE SINGLE	SN	GENERAL SIGN
GATS	GATE TURNSTILE	SR	SPEED RESTRICTOR
GB	GRIT BIN	SRK	SPILL RESPONSE KIT
GBS	GAS BOTTLE STORE	STI	STILE
GDC	GRATED DUCT COVER	ST	STOP TAP
GP	GRADIENT POST	STHDR	STEPS WITH HANDRAIL
GRP	GREASE POINT	SV	STOP VALVE
GV	GAS VALVE	SVP	SOIL VENT PIPE
GY	GULLY	SW	STAY WIRE
HDR	HANDRAIL	TEL	TELEPHONE
HR	HEIGHT RESTRICTOR	TFL	TRAFFIC LIGHT
HTL	HEIGHT	TL:	THRESHOLD LEVEL
IB	INSPECTION BOX (NOT BURIED)	TP	TELEGRAPH POLE
IC	INSPECTION COVER UNKNOWN	TS	TREADLE SWITCH
IC/BH	INSPECTION COVER BOREHOLE	US:	UNDERSIDE LEVEL
IC/BT	INSPECTION COVER BRITISH TELECOM.	UP	DIRECTION OF INCLINE
IC/FH	INSPECTION COVER FIRE HYDRANT	VP	VENT PIPE
IC/EL	INSPECTION COVER ELECTRIC	WJ	WELD JOINT
IC/GA	INSPECTION COVER GAS	WL:	WATER LEVEL
IC/SL	INSPECTION COVER STREET LIGHT	WP	WASTE PIPE
IC/WA	INSPECTION COVER WATER	WYCXXX	SURVEY STATION

GPR/UTILITIES LEGEND

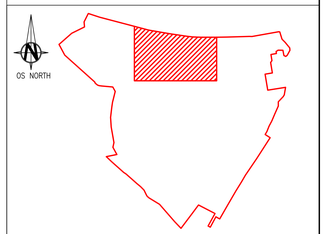
FOUL DRAINAGE	FW	(AC)	ASSUMED CONNECTION
SURFACE WATER DRAINAGE	SW	(AR)	ASSUMED ROUTE
WATER	W	CL	CABLE LEVEL
GAS	GAS	CD	CABLE DEPTH
HV ELECTRICITY	HV	CR	CABLE RISER
LV ELECTRICITY	LV	d	DEPTH OF SERVICE (APPROX)
BT / OPENREACH	BT	DD	DUCT DEPTH
UNKNOWN SERVICE	UK	DT	DISCONNECTING TRAP
UNDERGROUND CHAMBER		(ET)	ELECTRONICALLY TRACED
		(EoT)	END OF TRACE
		id	INVERT DEPTH
		IL	INVERT LEVEL
		(LD)	LAID DIRECT
		LD	LAND DRAIN
		LV	LOW VOLTAGE
		(NF)	NO FURTHER INFORMATION
		(NPV)	NO PIPES VISIBLE
		Pd	PIPE DEPTH
		Pe	POLYETHYLENE
		Sd	SOFFIT DEPTH
		Sd	SUMP DEPTH
		SL	SUMP LEVEL
		(UFL)	UNABLE TO LIFT
		(UTS)	UNABLE TO SURVEY
		(WP)	WRAPPED PIG-TAILED
		WD	WAY-DUCT

ASSOCIATED DRAWINGS

WYG001 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 1 OF 9
WYG002 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 2 OF 9 (THIS DRAWING)
WYG003 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 3 OF 9
WYG004 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 4 OF 9
WYG005 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 5 OF 9
WYG006 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 6 OF 9
WYG007 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 7 OF 9
WYG008 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 8 OF 9
WYG009 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 9 OF 9

LOCATION PLAN

HATCHED AREA SHOWN IN THIS DRAWING – BOLD LINE DEFINES SURVEY EXTENT



REV	DESCRIPTION	BY	CHK	APP	DATE

0 2 4 6 8 10 m
SCALE 1:200

LAKELAND BUSINESS PARK
LAMPLUGH ROAD
COCKERMOUTH
CA13 0QT

TEL: +44 (0)1900 898 600
FAX: +44 (0)1900 826 324
e-mail: cumbria@wyg.com

Project:
Carrow Works
Norwich
NR1 2DD

Drawing Title:
UTILITIES SURVEY
SHEET 2 OF 9

Scale @ A0	Drawn	Date	Checked	Date	Approved	Date
1 : 200	MD	22/11/18	DR	22/11/18	DR	22/11/18

Project No.	Office	Type	Drawing No.	Revision
A108750-1	22	01	WYG002	A

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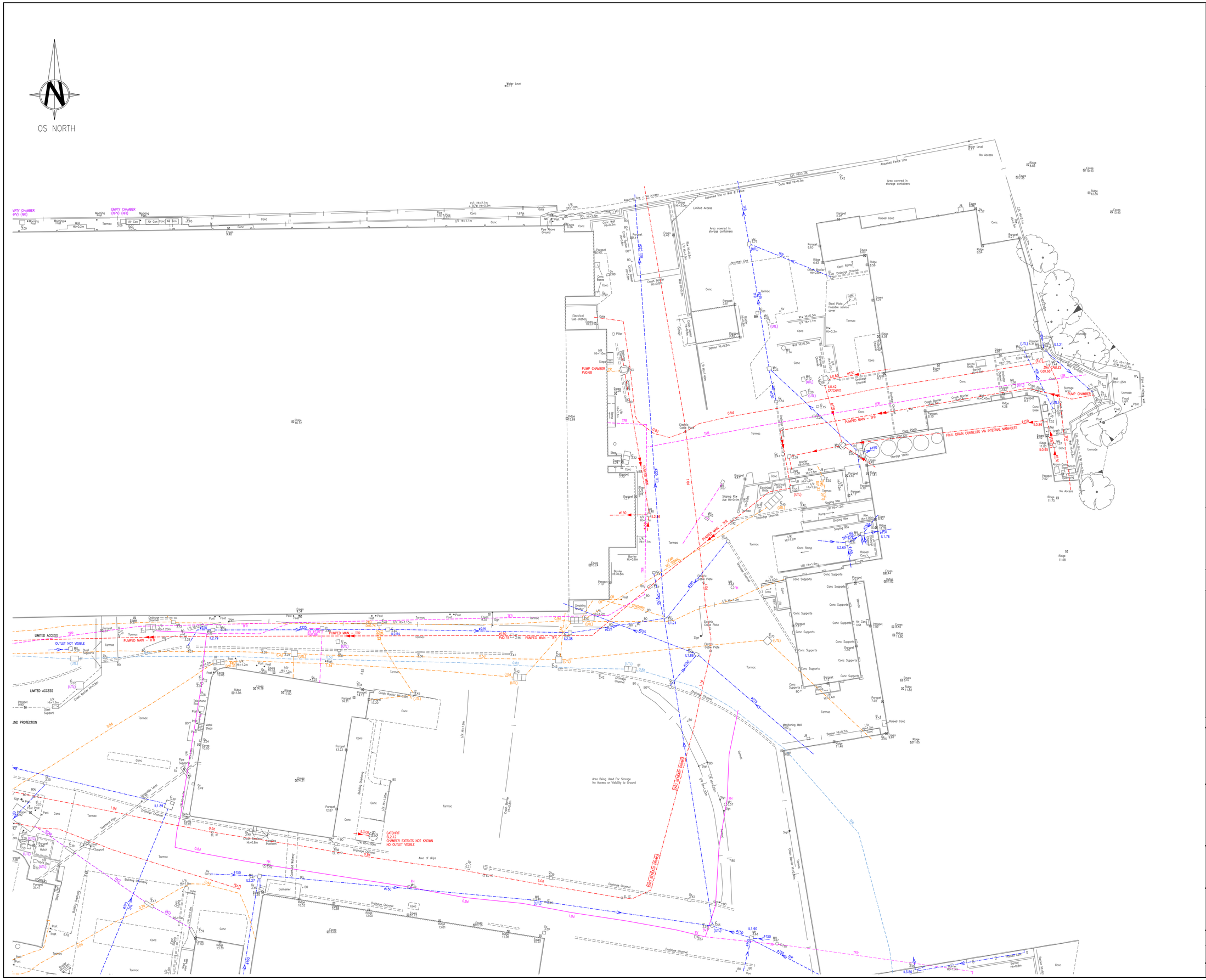

DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS

NOTES

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2. TOPOGRAPHICAL SURVEY DATA IS BY CD SURVEYS LTD AND HAS BEEN USED FOR INFORMATION ONLY.
3. REFER TO REPORT NO. A108750-1 UTILITIES SURVEY REPORT

TOPO LEGEND

AM	AERIAL MAST	IC/WO	INSPECTION COVER WASH OUT
AC	AIR CONDITIONING UNIT	IL:	INVERT LEVEL
AV	AIR VALVE	TJ	TRACK JOINT
BB	BELISHA BEACON	KO	KERB OUTLET
BL:	BED LEVEL	LAD	LADDER
BM	BENCHMARK	LB	LITTER BIN
B	BOLLARD	LDA	LAY DOWN AREA
BH	BOREHOLE	LP	LAMP POST
BS	BUS STOP	mE	METRES EAST
CAB	CABINET	MH	MANHOLE
CAB/BT	CABINET BRITISH TELECOM.	MHW	MEAN HIGH WATER LEVEL
CAB/EL	CABINET ELECTRIC	MLW	MEAN LOW WATER LEVEL
CAM	CAMERA	mN	METRES NORTH
CAL:	CANOPY LEVEL	MP	MARKER POST
CB	CRASH BARRIER	MP/BT	MARKER POST BRITISH TELECOM.
CBL:	CABLE	MP/EL	MARKER POST ELECTRIC
CD	CHANNEL DRAIN	MP/GA	MARKER POST GAS
CDC	CONC. DUCT COVER	MP/WA	MARKER POST WATER
CHS	CHEMICAL OIL STORE	NB	NOTICE BOARD
CLM	COLUMN	NP	NAME PLATE
CNB	CONCRETE BASE	OH	OVERHEAD ITEMS
CNP	CONCRETE PLINTH	OHBT	OVERHEAD BRITISH TELECOM.
CONC:	CONCRETE	OHCBL	OVERHEAD CABLES
CP	CATCHPIT	OHPI	OVERHEAD PIPES
CPL:	CROWN PIPE LEVEL	OHPL	OVERHEAD POWER LINES
CPS	CONC. PIPE SUPPORT	OHPS	OVERHEAD PIPE SUPPORT
CT	CABLE TRAY	OHPB	OVERHEAD PIPEBRIDGE
DB	DROP BARRIER	OHPBS	OVERHEAD PIPEBRIDGE SUPPORT
DBB	DROP BARRIER BOX	P	POLE
DBP	DROP BARRIER POST	PB	POINTS BOX
DK	DROP KERB	PC	PEDESTRIAN CROSSING
DR	DERAILER	PCN	POINT CROSSING NOSE
EEB	EMERGENCY EQUIPMENT BOX	PD	POINTS DETECTOR
EMS	EMERGENCY SHOWER	PL	PEDESTRIAN LIGHTING BOLLARD
EL:	EAVES LEVEL	PLR	POINTS LEVER
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FEPR	POST & RAIL FENCE	RP	REFLECTOR POST
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GDC	GRATED DUCT COVER	ST	STOP TAP
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GRP	GREASE POINT	SV	STOP VALVE
GV	GAS VALVE	SVP	SOIL VENT PIPE
GY	GULLY	SW	STAY WIRE
HDR	HANDRAIL	TEL	TELEPHONE
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HL	HEIGHT	TL:	THRESHOLD LEVEL
IB	INSPECTION BOX (NOT BURIED)	TP	TELEGRAPH POLE
IC	INSPECTION COVER UNKNOWN	TS	TREADLE SWITCH
IC/BH	INSPECTION COVER BOREHOLE	US:	UNDERSIDE LEVEL
IC/BT	INSPECTION COVER BRITISH TELECOM.	UP	DIRECTION OF INCLINE
IC/FH	INSPECTION COVER FIRE HYDRANT	VP	VENT PIPE
IC/EL	INSPECTION COVER ELECTRIC	WJ	WELD JOINT
IC/GA	INSPECTION COVER GAS	WL:	WATER LEVEL
IC/SL	INSPECTION COVER STREET LIGHT	WP	WASTE PIPE
IC/WA	INSPECTION COVER WATER	WYCXXX	SURVEY STATION

GPR/UTILITIES LEGEND

FOUL DRAINAGE	FW	(AC)	ASSUMED CONNECTION
SURFACE WATER DRAINAGE	SW	(AR)	ASSUMED ROUTE
WATER	W	CL	CABLE LEVEL
GAS	GAS	CD	CABLE DEPTH
HV ELECTRICITY	HV	CR	CABLE RISER
LV ELECTRICITY	LV	d	DEPTH OF SERVICE (APPROX)
BT / OFDNREACH	BT	DI	DUCT DEPTH
UNKNOWN SERVICE	UK	(ET)	ELECTROMAGNETIC TRAP
UNDERGROUND CHAMBER		(ETT)	ELECTRONICALLY TRACED
		(EoT)	END OF TRACE
		id	INVERT DEPTH
		IL	INVERT LEVEL
		LD	LAY DOWN AREA
		LD	LAND DRAIN
		LV	LOW VOLTAGE
		(NFI)	NO FURTHER INFORMATION
		(NPV)	NO PIPES VISIBLE
		Pa	PAPER DUCT
		Pe	POLYETHYLENE
		PR	PIPE RIGER
		Sd	SUMP DEPTH
		SL	SUMP LEVEL
		(UFL)	UNABLE TO LIFT
		(UTS)	UNABLE TO SURVEY
		(UTT)	UNABLE TO TRACE
		WD	WAY-OUT

ASSOCIATED DRAWINGS

WYG001 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 1 OF 9
WYG002 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 2 OF 9
WYG003 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 3 OF 9 (THIS DRAWING)
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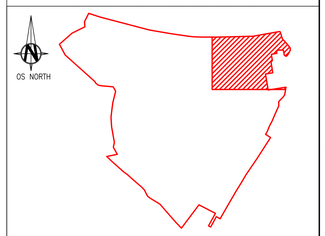
WYG008 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 8 OF 9
WYG009 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 9 OF 9

LOCATION PLAN

HATCHED AREA SHOWN IN THIS DRAWING – BOLD LINE DEFINES SURVEY EXTENT



REV	DESCRIPTION	BY	CHK	APP	DATE

0 2 4 6 8 10 m
SCALE 1:200

LAKELAND BUSINESS PARK
LAMPLUGH ROAD
COCKERMOUTH
CA13 0QT

TEL: +44 (0)1900 898 600
FAX: +44 (0)1900 826 324
e-mail: cumbria@wyg.com

Project:
Carrow Works
Norwich
NR1 2DD

Drawing Title:
UTILITIES SURVEY
SHEET 3 OF 9

Scale @ A0	Drawn	Date	Checked	Date	Approved	Date
1 : 200	MD	22/11/18	DR	22/11/18	DR	22/11/18

Project No.	Office	Type	Drawing No.	Revision
A108750-1	22	01	WYG003	A

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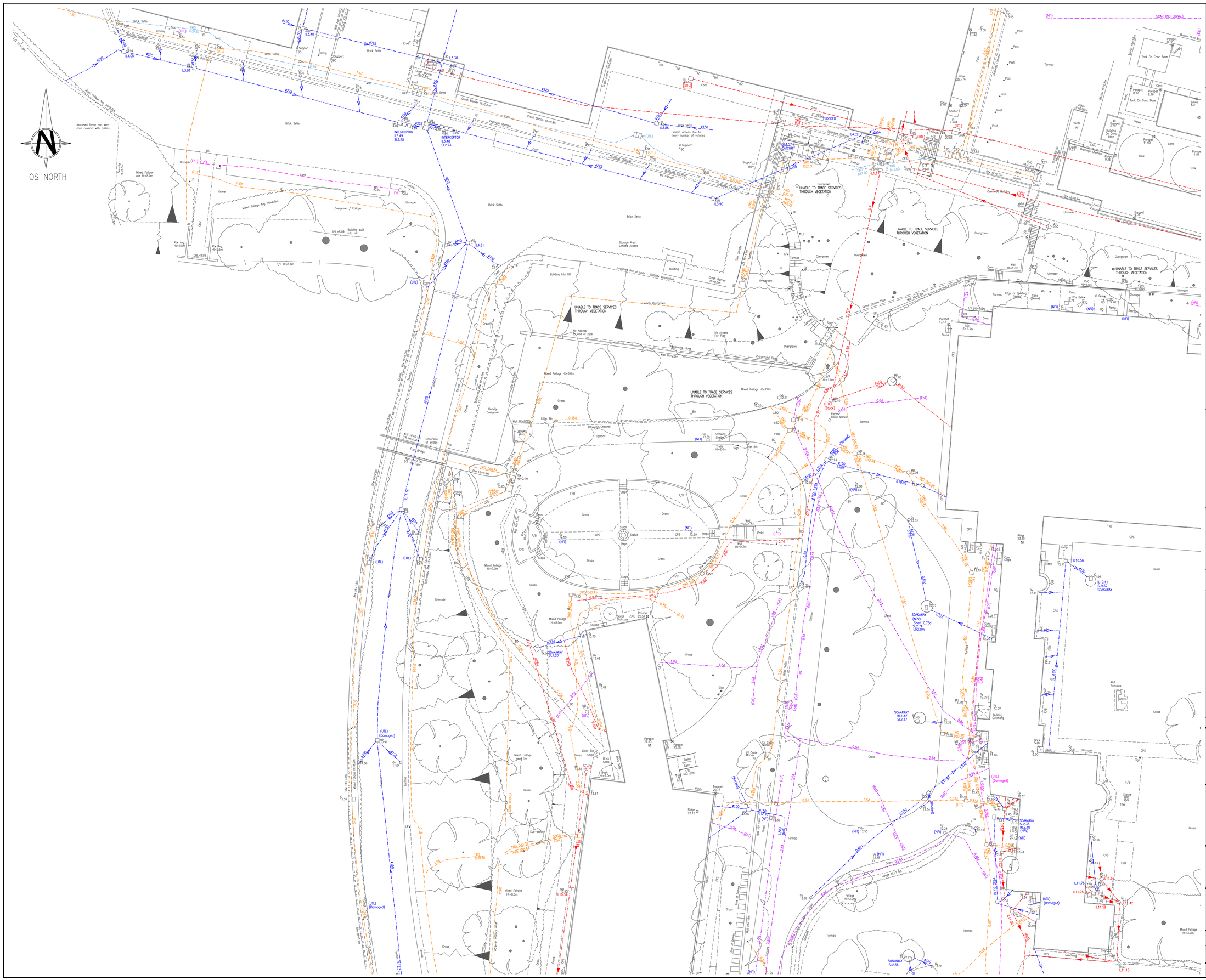

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NOTES

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3. REFER TO REPORT NO. A108750-1 UTILITIES SURVEY REPORT

TOPO LEGEND

AM	AERIAL MAST	IC/WO	INSPECTION COVER WASH OUT
AC	AIR CONDITIONING UNIT	IL:	INVERT LEVEL
AV	AIR VALVE	TJ	TRACK JOINT
BB	BELISHA BEACON	KO	KERB OUTLET
BL:	BED LEVEL	LAD	LADDER
BM	BENCHMARK	LB	LITTER BIN
B	BOLLARD	LDA	LAY DOWN AREA
BH	BOREHOLE	LP	LAMP POST
BS	BUS STOP	mE	METRES EAST
CAB	CABINET	MH	MANHOLE
CAB/BT	CABINET BRITISH TELECOM.	MHW	MEAN HIGH WATER LEVEL
CAB/EL	CABINET ELECTRIC	MLW	MEAN LOW WATER LEVEL
CAM	CAMERA	mN	METRES NORTH
CAL:	CANOPY LEVEL	MP	MARKER POST
CB	CRASH BARRIER	MP/BT	MARKER POST BRITISH TELECOM.
CBL	CABLE	MP/EL	MARKER POST ELECTRIC
CD	CHANNEL DRAIN	MP/GA	MARKER POST GAS
CDC	CONC. DUCT COVER	MP/WA	MARKER POST WATER
CHS	CHEMICAL OIL STORE	NB	NOTICE BOARD
CLM	COLUMN	NP	NAME PLATE
CNB	CONCRETE BASE	OH	OVERHEAD ITEMS
CNP	CONCRETE PLINTH	OHBT	OVERHEAD BRITISH TELECOM.
CONC.	CONCRETE	OHCBL	OVERHEAD CABLES
CP	CATCHPIT	OHPI	OVERHEAD PIPES
CPL:	CROWN PIPE LEVEL	OHPL	OVERHEAD POWER LINES
CPS	CONC. PIPE SUPPORT	OHPS	OVERHEAD PIPE SUPPORT
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DB	DROP BARRIER	OHPBS	OVERHEAD PIPEBRIDGE SUPPORT
DBB	DROP BARRIER BOX	P	POLE
DBP	DROP BARRIER POST	PB	POINTS BOX
DK	DROP KERB	PC	PEDESTRIAN CROSSING
DR	DERMALER	PCN	POINT CROSSING NOSE
EEB	EMERGENCY EQUIPMENT BOX	PD	POINTS DETECTOR
EMS	EMERGENCY SHOWER	PL	PEDESTRIAN LIGHTING BOLLARD
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EP	ELECTRIC POLE	PM	POINT MOTOR
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FS	FLAG STAFF	SD	SLIDING DOOR
G/S/H	TREE GRTH SPREAD HEIGHT	SIG	RAIL SIGNAL
GAD	GATE DOUBLE	SL:	SOFFIT LEVEL
GAS	GATE SINGLE	SN	GENERAL SIGN
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GB	GRIT BIN	SRK	SPILL RESPONSE KIT
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IC/BH	INSPECTION COVER BOREHOLE	US:	UNDERSIDE LEVEL
IC/BT	INSPECTION COVER BRITISH TELECOM.	UP	DIRECTION OF INCLINE
IC/FH	INSPECTION COVER FIRE HYDRANT	VP	VENT PIPE
IC/EL	INSPECTION COVER ELECTRIC	WJ	WELD JOINT
IC/GA	INSPECTION COVER GAS	WL:	WATER LEVEL
IC/SL	INSPECTION COVER STREET LIGHT	WP	WASTE PIPE
IC/WA	INSPECTION COVER WATER	WYGXXX	SURVEY STATION

GPR/UTILITIES LEGEND

FOUL DRAINAGE	FW	(AC)	ASSUMED CONNECTION
SURFACE WATER DRAINAGE	SW	(AR)	ASSUMED ROUTE
WATER	W	CL	CABLE LEVEL
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BT / OPENREACH	BT	DI	DUCT DEPTH
UNKNOWN SERVICE	UK	DT	DISCONNECTING TRAP
UNDERGROUND CHAMBER		(ET)	ELECTRONICALLY TRACED
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		id	INVERT DEPTH
		IL	INVERT LEVEL
		HV	HIGH VOLTAGE
		LD	LAND DRAIN
		LV	LOW VOLTAGE
		(NFI)	NO FURTHER INFORMATION
		(NPV)	NOT PHYSICALLY VISIBLE
		PD	PIPE DEPTH
		PA	POLYETHYLENE
		PR	PIPE RISER
		SD	SUMP DEPTH
		(Est)	ESTIMATED
		(UTL)	UNABLE TO LIFT
		(UTS)	UNABLE TO SURVEY
		(UTR)	UNABLE TO TRACE
		MD	MAY-DUCT

ASSOCIATED DRAWINGS

WYG001 - CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 1 OF 9
WYG002 - CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 2 OF 9
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WYG009 - CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 9 OF 9

LOCATION PLAN

HATCHED AREA SHOWN IN THIS DRAWING - BOLD LINE DEFINES SURVEY EXTENT

REV	DESCRIPTION	BY	CHK	APP	DATE

0 2 4 6 8 10 m
SCALE 1:200

LAKELAND BUSINESS PARK
LAMPLUGH ROAD
COCKERMOUTH
CA13 0QT

TEL: +44 (0)1900 898 600
FAX: +44 (0)1900 826 324
e-mail: cumbria@wyg.com

Project:
Carrow Works
Norwich
NR1 2DD

Drawing Title:
UTILITIES SURVEY
SHEET 4 OF 9

Scale @ A0	Drawn	Date	Checked	Date	Approved	Date
1 : 200	MD	22/11/18	DR	22/11/18	DR	22/11/18

Project No.	Office	Type	Drawing No.	Revision
A108750-1	22	01	WYG004	A

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TOPO LEGEND

AM	AERIAL MAST	IC/WO	INSPECTION COVER WASH OUT
AC	AIR CONDITIONING UNIT	IL:	INVERT LEVEL
AV	AIR VALVE	TJ	TRACK JOINT
BB	BELISHA BEACON	KO	KERB OUTLET
BL:	BED LEVEL	LAD	LADDER
BM	BENCHMARK	LB	LITTER BIN
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CAM	CAMERA	mN	METRES NORTH
CAL:	CANOPY LEVEL	MP	MARKER POST
CB	CRASH BARRIER	MP/BT	MARKER POST BRITISH TELECOM.
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ER	EARTH ROD	PBX	POST BOX
FBEDS	FLOWER BEDS	PO	POST
FE	FIRE EXTINGUISHER	PR	POINT RODS
FECL	CHAINLINK FENCE	PS	PIPE SUPPORT
FEHE	TEMP. HERAS FENCE	RE	RODDING EYE
FEPA	PANEL FENCE	RGS	PEDESTRIAN BARRIER
FEPE	PALISADE FENCE	RIL:	RIDGE LEVEL
FEPW	POST & WIRE FENCE	RL:	ROOF LEVEL
FEPR	POST & RAIL FENCE	RP	REFLECTOR POST
FEWM	WELDMESH FENCE	RS	ROAD SIGN
FH	FIRE HYDRANT	RSD	ROLLER SHUTTER DOOR
FL	FLOOD LIGHT	RTW	RETAINING WALL
FL:	FLOOR LEVEL	RWP	RAIN WATER PIPE
FP	FOOTPATH	S	SCAR LINES
FS	FLAG STAFF	SD	SLIDING DOOR
G/S/H	TREE GIRTH SPREAD HEIGHT	SIG	RAIL SIGNAL
GAD	GATE DOUBLE	SL:	SOFFIT LEVEL
GAS	GATE SINGLE	SN	GENERAL SIGN
GATS	GATE TURNSTILE	SR	SPEED RESTRICTOR
GB	GRIT BIN	SRK	SPILL RESPONSE KIT
GBS	GAS BOTTLE STORE	STI	STILE
GDC	GRATED DUCT COVER	ST	STOP TAP
GP	GRADIENT POST	STHDR	STEPS WITH HANDRAIL
GRP	GREASE POINT	SV	STOP VALVE
GV	GAS VALVE	SVP	SOIL VENT PIPE
GY	GULLY	SW	STAY WIRE
HDR	HANDRAIL	TEL	TELEPHONE
HR	HEIGHT RESTRICTOR	TFL	TRAFFIC LIGHT
Ht.	HEIGHT	TL:	THRESHOLD LEVEL
IB	INSPECTION BOX (NOT BURIED)	TP	TELEGRAPH POLE
IC	INSPECTION COVER UNKNOWN	TS	TREADLE SWITCH
IC/BH	INSPECTION COVER BOREHOLE	US:	UNDERSIDE LEVEL
IC/BT	INSPECTION COVER BRITISH TELECOM.	UP	DIRECTION OF INCLINE
IC/FH	INSPECTION COVER FIRE HYDRANT	VP	VENT PIPE
IC/EL	INSPECTION COVER ELECTRIC	WJ	WELD JOINT
IC/GA	INSPECTION COVER GAS	WL:	WATER LEVEL
IC/SL	INSPECTION COVER STREET LIGHT	WP	WASTE PIPE
IC/WA	INSPECTION COVER WATER	WYGXXX	SURVEY STATION

GPR/UTILITIES LEGEND

Service	Line
FOUL DRAINAGE	FW FW
SURFACE WATER DRAINAGE	SW SW
WATER	W W
GAS	GAS GAS
HV ELECTRICITY	HV HV
LV ELECTRICITY	LV LV
BT / OPENREACH	BT BT
UNKNOWN SERVICE	UK UK
UNDERGROUND CHAMBER	[- - - -]

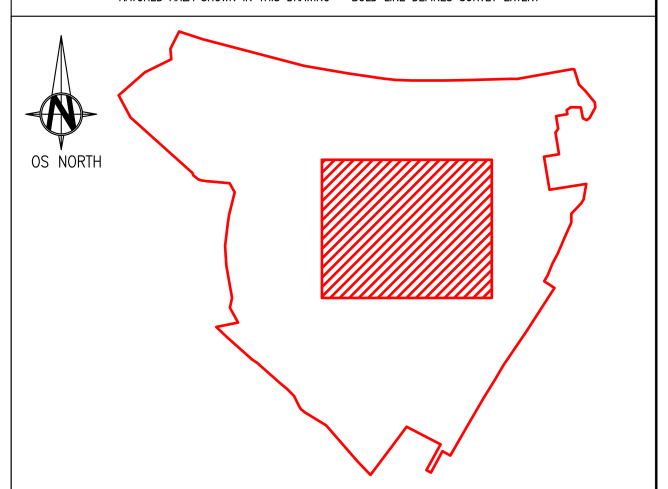
(AC)	ASSUMED CONNECTION
(AR)	ASSUMED ROUTE
BdL	BACK-DROP LEVEL
Cd	CABLE DEPTH
CR	CABLE RISER
d	DEPTH OF SERVICE (APPROX)
Dd	DUCT DEPTH
DT	DISCONNECTING TRAP
(ET)	ELECTRONICALLY TRACED
(EoT)	END OF TRACE
Id	INVERT DEPTH
IL	INVERT LEVEL
HV	HIGH VOLTAGE
LD	LAND DRAIN
LV	LOW VOLTAGE
(NFI)	NO FURTHER INFORMATION
(NPV)	NO PIPES VISIBLE
Pd	PIPE DEPTH
Pe	POLYETHYLENE
PR	PIPE RISER
Sd	SUMP DEPTH
SL	SUMP LEVEL
(UTL)	UNABLE TO LIFT
(UTS)	UNABLE TO SURVEY
(UTT)	UNABLE TO TRACE
WD	WAY-DUCT

ASSOCIATED DRAWINGS

WYG001 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 1 OF 9
WYG002 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 2 OF 9
WYG003 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 3 OF 9
WYG004 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 4 OF 9
WYG005 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 5 OF 9 (THIS DRAWING)
WYG006 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 6 OF 9
WYG007 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 7 OF 9
WYG008 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 8 OF 9
WYG009 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 9 OF 9

LOCATION PLAN

HATCHED AREA SHOWN IN THIS DRAWING – BOLD LINE DEFINES SURVEY EXTENT



REV	DESCRIPTION	BY	CHK	APP	DATE

0 2 4 6 8 10 m
SCALE 1:200

LAKELAND BUSINESS PARK
LAMPLUGH ROAD
COCKERMOUTH
CA13 0QT

TEL: +44 (0)1900 898 600
FAX: +44 (0)1900 826 324
e-mail: cumbria@wyg.com

Project:
Carrow Works
Norwich
NR1 2DD

Drawing Title:
UTILITIES SURVEY
SHEET 5 OF 9

Scale @ A0	Drawn	Date	Checked	Date	Approved	Date
1 : 200	MD	22/11/18	DR	22/11/18	DR	22/11/18

Project No.	Office	Type	Drawing No.	Revision
A108750-1	22	01	WYG005	A

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NOTES

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2. TOPOGRAPHICAL SURVEY DATA IS BY CD SURVEYS LTD AND HAS BEEN USED FOR INFORMATION ONLY.
3. REFER TO REPORT NO. A108750-1 UTILITIES SURVEY REPORT

TOPO LEGEND

AM	AERIAL MAST	IC/WO	INSPECTION COVER WASH OUT
AC	AIR CONDITIONING UNIT	IL:	INVERT LEVEL
AV	AIR VALVE	TJ	TRACK JOINT
BB	BELISHA BEACON	KO	KERB OUTLET
BL:	BED LEVEL	LAD	LADDER
BM	BENCHMARK	LB	LITTER BIN
B	BOLLARD	LDA	LAY DOWN AREA
BH	BOREHOLE	LP	LAMP POST
BS	BUS STOP	mE	METRES EAST
CAB	CABINET	MH	MANHOLE
CAB/BT	CABINET BRITISH TELECOM.	MHW	MEAN HIGH WATER LEVEL
CAB/EL	CABINET ELECTRIC	MLW	MEAN LOW WATER LEVEL
CAM	CAMERA	mN	METRES NORTH
CAL:	CANOPY LEVEL	MP	MARKER POST
CB	CRASH BARRIER	MP/BT	MARKER POST BRITISH TELECOM.
CBL:	CABLE	MP/EL	MARKER POST ELECTRIC
CD	CHANNEL DRAIN	MP/GA	MARKER POST GAS
CDC	CONC. DUCT COVER	MP/WA	MARKER POST WATER
CHS	CHEMICAL OIL STORE	NB	NOTICE BOARD
CLM	COLUMN	NP	NAME PLATE
CNB	CONCRETE BASE	OH	OVERHEAD ITEMS
CNP	CONCRETE PLINTH	OHBT	OVERHEAD BRITISH TELECOM.
CONC:	CONCRETE	OHCBL	OVERHEAD CABLES
CP	CATCHPIT	OHPI	OVERHEAD PIPES
CPL:	CROWN PIPE LEVEL	OHPL	OVERHEAD POWER LINES
CPS	CONC. PIPE SUPPORT	OHPS	OVERHEAD PIPE SUPPORT
CT	CABLE TRAY	OHPB	OVERHEAD PIPEBRIDGE
DB	DROP BARRIER	OHPBS	OVERHEAD PIPEBRIDGE SUPPORT
DBB	DROP BARRIER BOX	P	POLE
DBP	DROP BARRIER POST	PB	POINTS BOX
DK	DROP KERB	PC	PEDESTRIAN CROSSING
DR	DERAILER	PCN	POINT CROSSING NOSE
EEB	EMERGENCY EQUIPMENT BOX	PD	POINTS DETECTOR
EMS	EMERGENCY SHOWER	PL	PEDESTRIAN LIGHTING BOLLARD
EL:	EAVES LEVEL	PLR	POINTS LEVER
EP	ELECTRIC POLE	PM	POINT MOTOR
ER	EARTH ROD	PBX	POST BOX
FBEDS	FLOWER BEDS	PO	POST
FE	FIRE EXTINGUISHER	PR	POINT RODS
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FEPR	POST & RAIL FENCE	RP	REFLECTOR POST
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GATS	GATE TURNSTILE	SR	SPEED RESTRICTOR
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GBS	GAS BOTTLE STORE	STI	STILE
GDC	GRATED DUCT COVER	ST	STOP TAP
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GRP	GREASE POINT	SV	STOP VALVE
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IC/BH	INSPECTION COVER BOREHOLE	US:	UNDERSIDE LEVEL
IC/BT	INSPECTION COVER BRITISH TELECOM.	UP	DIRECTION OF INCLINE
IC/FH	INSPECTION COVER FIRE HYDRANT	VP	VENT PIPE
IC/EL	INSPECTION COVER ELECTRIC	WJ	WELD JOINT
IC/GA	INSPECTION COVER GAS	WL:	WATER LEVEL
IC/SL	INSPECTION COVER STREET LIGHT	WP	WASTE PIPE
IC/WA	INSPECTION COVER WATER	WYGXXX	SURVEY STATION

GPR/UTILITIES LEGEND

FOUL DRAINAGE	FW	(AC)	ASSUMED CONNECTION
SURFACE WATER DRAINAGE	SW	(AR)	ASSUMED ROUTE
WATER	W	CL	CABLE DEPTH/LEVEL
GAS	GAS	CR	CABLE RISER
HV ELECTRICITY	HV	d	DEPTH OF SERVICE (APPROX)
LV ELECTRICITY	LV	DI	DUCT DEPTH
BT / OFCNREACH	BT	ET	ELECTROMAGNETING TRAP
UNKNOWN SERVICE	UK	(ET)	ELECTRONICALLY TRACED
UNDERGROUND CHAMBER		(EoT)	END OF TRACE
		id	INVERT DEPTH
		IL	INVERT LEVEL
		LD	LAY DOWN AREA
		LD	LAND DRAIN
		LV	LOW VOLTAGE
		(NFI)	NO FURTHER INFORMATION
		(NPV)	NO PIPES VISIBLE
		PD	PIPE DEPTH
		Pa	POLYETHYLENE
		PR	PIPE RISER
		Sd	SUMP DEPTH
		SL	SUMP LEVEL
		(UTL)	UNABLE TO LIFT
		(UTS)	UNABLE TO SURVEY
		(UTR)	UNABLE TO TRACE
		WD	WAY-OUT

ASSOCIATED DRAWINGS

WYG001 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 1 OF 9
WYG002 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 2 OF 9
WYG003 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 3 OF 9
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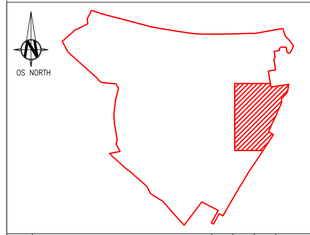
WYG009 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 9 OF 9

LOCATION PLAN

HATCHED AREA SHOWN IN THIS DRAWING – BOLD LINE DEFINES SURVEY EXTENT



REV	DESCRIPTION	BY	CHK	APP	DATE

0 2 4 6 8 10 m
SCALE 1:200

LAKELAND BUSINESS PARK
LAMPLUGH ROAD
COCKERMOUTH
CA13 0QT

TEL: +44 (0)1900 898 600
FAX: +44 (0)1900 826 324
e-mail: cumbria@wyg.com

Project:
Carrow Works
Norwich
NR1 2DD

Drawing Title:
UTILITIES SURVEY
SHEET 6 OF 9

Scale @ A0	Drawn	Date	Checked	Date	Approved	Date
1 : 200	MD	22/11/18	DR	22/11/18	DR	22/11/18

Project No.	Office	Type	Drawing No.	Revision
A108750-1	22	01	WYG006	A

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3. REFER TO REPORT NO. A108750-1 UTILITIES SURVEY REPORT

TOPO LEGEND

AM	AERIAL MAST	IC/WO	INSPECTION COVER WASH OUT
AC	AIR CONDITIONING UNIT	IL:	INVERT LEVEL
AV	AIR VALVE	TJ	TRACK JOINT
BB	BELISHA BEACON	KO	KERB OUTLET
BL:	BED LEVEL	LAD	LADDER
BM	BENCHMARK	LB	LITTER BIN
B	BOLLARD	LDA	LAY DOWN AREA
BH	BOREHOLE	LP	LAMP POST
BS	BUS STOP	mE	METRES EAST
CAB	CABINET	MH	MANHOLE
CAB/BT	CABINET BRITISH TELECOM.	MHW	MEAN HIGH WATER LEVEL
CAB/EL	CABINET ELECTRIC	MLW	MEAN LOW WATER LEVEL
CAM	CAMERA	mN	METRES NORTH
CAL:	CANOPY LEVEL	MP	MARKER POST
CB	CRASH BARRIER	MP/BT	MARKER POST BRITISH TELECOM.
CBL	CABLE	MP/EL	MARKER POST ELECTRIC
CD	CHANNEL DRAIN	MP/GA	MARKER POST GAS
CDC	CONC. DUCT COVER	MP/WA	MARKER POST WATER
CHS	CHEMICAL OIL STORE	NB	NOTICE BOARD
CLM	COLUMN	NP	NAME PLATE
CNB	CONCRETE BASE	OH	OVERHEAD ITEMS
CNP	CONCRETE PLINTH	OHBT	OVERHEAD BRITISH TELECOM.
CONC.	CONCRETE	OHCBL	OVERHEAD CABLES
CP	CATCHPIT	OHPI	OVERHEAD PIPES
CPL:	CROWN PIPE LEVEL	OHPL	OVERHEAD POWER LINES
CPS	CONC. PIPE SUPPORT	OHPS	OVERHEAD PIPE SUPPORT
CT	CABLE TRAY	OHPB	OVERHEAD PIPEBRIDGE
DB	DROP BARRIER	OHPBS	OVERHEAD PIPEBRIDGE SUPPORT
DBB	DROP BARRIER BOX	P	POLE
DBP	DROP BARRIER POST	PB	POINTS BOX
DK	DROP KERB	PC	PEDESTRIAN CROSSING
DR	DERMALER	PCN	POINT CROSSING NOSE
EEB	EMERGENCY EQUIPMENT BOX	PD	POINTS DETECTOR
EMS	EMERGENCY SHOWER	PL	PEDESTRIAN LIGHTING BOLLARD
EL:	EAVES LEVEL	PLR	POINTS LEVER
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FL:	FLOOR LEVEL	RWP	RAIN WATER PIPE
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FS	FLAG STAFF	SD	SLIDING DOOR
G/S/H	TREE GIRTH SPREAD HEIGHT	SIG	RAIL SIGNAL
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IC/BH	INSPECTION COVER BOREHOLE	US:	UNDERSIDE LEVEL
IC/BT	INSPECTION COVER BRITISH TELECOM.	UP	DIRECTION OF INCLINE
IC/FH	INSPECTION COVER FIRE HYDRANT	VP	VENT PIPE
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IC/GA	INSPECTION COVER GAS	WL:	WATER LEVEL
IC/SL	INSPECTION COVER STREET LIGHT	WP	WASTE PIPE
IC/WA	INSPECTION COVER WATER	WYGXXX	SURVEY STATION

GPR/UTILITIES LEGEND

FOUL DRAINAGE	FW	(AC)	ASSUMED CONNECTION
SURFACE WATER DRAINAGE	SW	(AR)	ASSUMED ROUTE
WATER	W	IL	INVERT LEVEL
GAS	GAS	CD	CABLE DEPTH
HV ELECTRICITY	HV	CR	CABLE RISER
LV ELECTRICITY	LV	d	DEPTH OF SERVICE (APPROX)
BT / OFFEREACH	BT	DI	DUCT DEPTH
UNKNOWN SERVICE	UK	(ET)	ELECTROMAGNETIC TRAPPED
UNDERGROUND CHAMBER		(ELET)	ELECTRICALLY TRACED
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		id	INVERT DEPTH
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		PR	PIPE RIGER
		Sd	SUMP DEPTH
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		(UTL)	UNABLE TO LIFT
		(UTS)	UNABLE TO SURVEY
		(UTR)	UNABLE-TO-TRACE
		WD	WAY-DUCT

ASSOCIATED DRAWINGS

WYG001 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 1 OF 9
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WYG009 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 9 OF 9

LOCATION PLAN

HATCHED AREA SHOWN IN THIS DRAWING – BOLD LINE DEFINES SURVEY EXTENT

REV	DESCRIPTION	BY	CHK	APP	DATE

0 2 4 6 8 10 m
SCALE 1:200

LAKELAND BUSINESS PARK
LAMPLUGH ROAD
COCKERMOUTH
CA13 0QT

TEL: +44 (0)1900 898 600
FAX: +44 (0)1900 826 324
e-mail: cumbria@wyg.com

Project:
Carrow Works
Norwich
NR1 2DD

Drawing Title:
UTILITIES SURVEY
SHEET 7 OF 9

Scale @ A0	Drawn	Date	Checked	Date	Approved	Date
1 : 200	MD	22/11/18	DR	22/11/18	DR	22/11/18

Project No.	Office	Type	Drawing No.	Revision
A108750-1	22	01	WYG007	A

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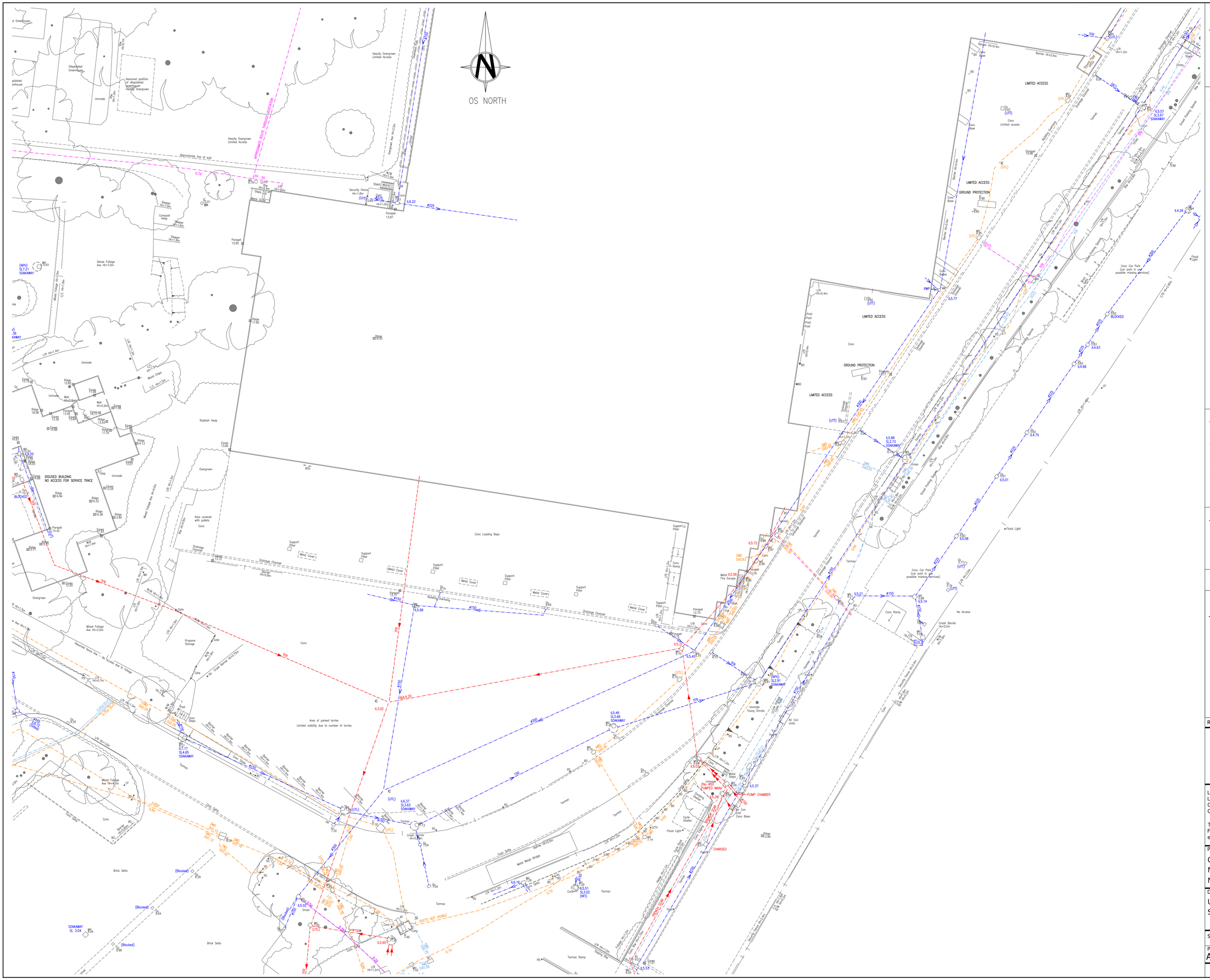

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3. REFER TO REPORT NO. A108750-1 UTILITIES SURVEY REPORT

TOPO LEGEND

AM	AERIAL MAST	IC/WO	INSPECTION COVER WASH OUT
AC	AIR CONDITIONING UNIT	IL:	INVERT LEVEL
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FP	FOOTPATH	S	SCAR LINES
FS	FLAG STAFF	SD	SLIDING DOOR
G/S/H	TREE GRTH SPREAD HEIGHT	SIG	RAIL SIGNAL
GAD	GATE DOUBLE	SL:	SOFFIT LEVEL
GAS	GATE SINGLE	SN	GENERAL SIGN
GATS	GATE TURNSTILE	SR	SPEED RESTRICTOR
GB	GRIT BIN	SRK	SPILL RESPONSE KIT
GBS	GAS BOTTLE STORE	STI	STILE
GDC	GRATED DUCT COVER	ST	STOP TAP
GP	GRADIENT POST	STHDR	STEPS WITH HANDRAIL
GRP	GREASE POINT	SV	STOP VALVE
GV	GAS VALVE	SVP	SOIL VENT PIPE
GY	GULLY	SW	STAY WIRE
HDR	HANDRAIL	TEL	TELEPHONE
HR	HEIGHT RESTRICTOR	TFL	TRAFFIC LIGHT
HL	HEIGHT	TL:	THRESHOLD LEVEL
IB	INSPECTION BOX (NOT BURIED)	TP	TELEGRAPH POLE
IC	INSPECTION COVER UNKNOWN	TS	TREADLE SWITCH
IC/BH	INSPECTION COVER BOREHOLE	US:	UNDERSIDE LEVEL
IC/BT	INSPECTION COVER BRITISH TELECOM.	UP	DIRECTION OF INCLINE
IC/FH	INSPECTION COVER FIRE HYDRANT	VP	VENT PIPE
IC/EL	INSPECTION COVER ELECTRIC	WJ	WELD JOINT
IC/GA	INSPECTION COVER GAS	WL:	WATER LEVEL
IC/SL	INSPECTION COVER STREET LIGHT	WP	WASTE PIPE
IC/WA	INSPECTION COVER WATER	WYGXXX	SURVEY STATION

GPR/UTILITIES LEGEND

FOUL DRAINAGE	FW	(AC)	ASSUMED CONNECTION
SURFACE WATER DRAINAGE	SW	(AO)	ASSUMED ROUTE
WATER	W	CL	CABLE LEVEL
GAS	GAS	CD	CABLE DEPTH
HV ELECTRICITY	HV	CR	CABLE RISER
LV ELECTRICITY	LV	d	DEPTH OF SERVICE (APPROX)
BT / OPENREACH	BT	DD	DUCT DEPTH
UNKNOWN SERVICE	UR	DT	DETECTING TRAP
UNDERGROUND CHAMBER		(ET)	ELECTRONICALLY TRACED
		(EoT)	END OF TRACE
		id	INVERT DEPTH
		IL	INVERT LEVEL
		LD	LAY DOWN AREA
		LD	LAND DRAIN
		LV	LOW VOLTAGE
		(NFI)	NO FURTHER INFORMATION
		(NPV)	NO PIPES VISIBLE
		Pa	PARTIALLY
		Po	POLYETHYLENE
		PR	PIPE RISER
		Sd	SUMP DEPTH
		SL	SUMP LEVEL
		(UFL)	UNABLE TO LIFT
		(UTS)	UNABLE TO SURVEY
		(UTR)	UNABLE TO TRACE
		WD	WAY-DUCT

ASSOCIATED DRAWINGS

WYG001 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 1 OF 9
WYG002 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 2 OF 9
WYG003 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 3 OF 9
WYG004 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 4 OF 9
WYG005 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 5 OF 9
WYG006 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 6 OF 9
WYG007 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 7 OF 9
WYG008 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 8 OF 9 (THIS DRAWING)
WYG009 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 9 OF 9

LOCATION PLAN

HATCHED AREA SHOWN IN THIS DRAWING – BOLD LINE DEFINES SURVEY EXTENT

REV	DESCRIPTION	BY	CHK	APP	DATE

0 2 4 6 8 10 m
SCALE 1:200

LAKELAND BUSINESS PARK
LAMPLUGH ROAD
COCKERMOUTH
CA13 0QT

TEL: +44 (0)1900 898 600
FAX: +44 (0)1900 826 324
e-mail: cumbria@wyg.com

Project:
Carrow Works
Norwich
NR1 2DD

Drawing Title:
UTILITIES SURVEY
SHEET 8 OF 9

Scale @ A0	Drawn	Date	Checked	Date	Approved	Date
1 : 200	MD	22/11/18	DR	22/11/18	DR	22/11/18

Project No.	Office	Type	Drawing No.	Revision
A108750-1	22	01	WYG008	A

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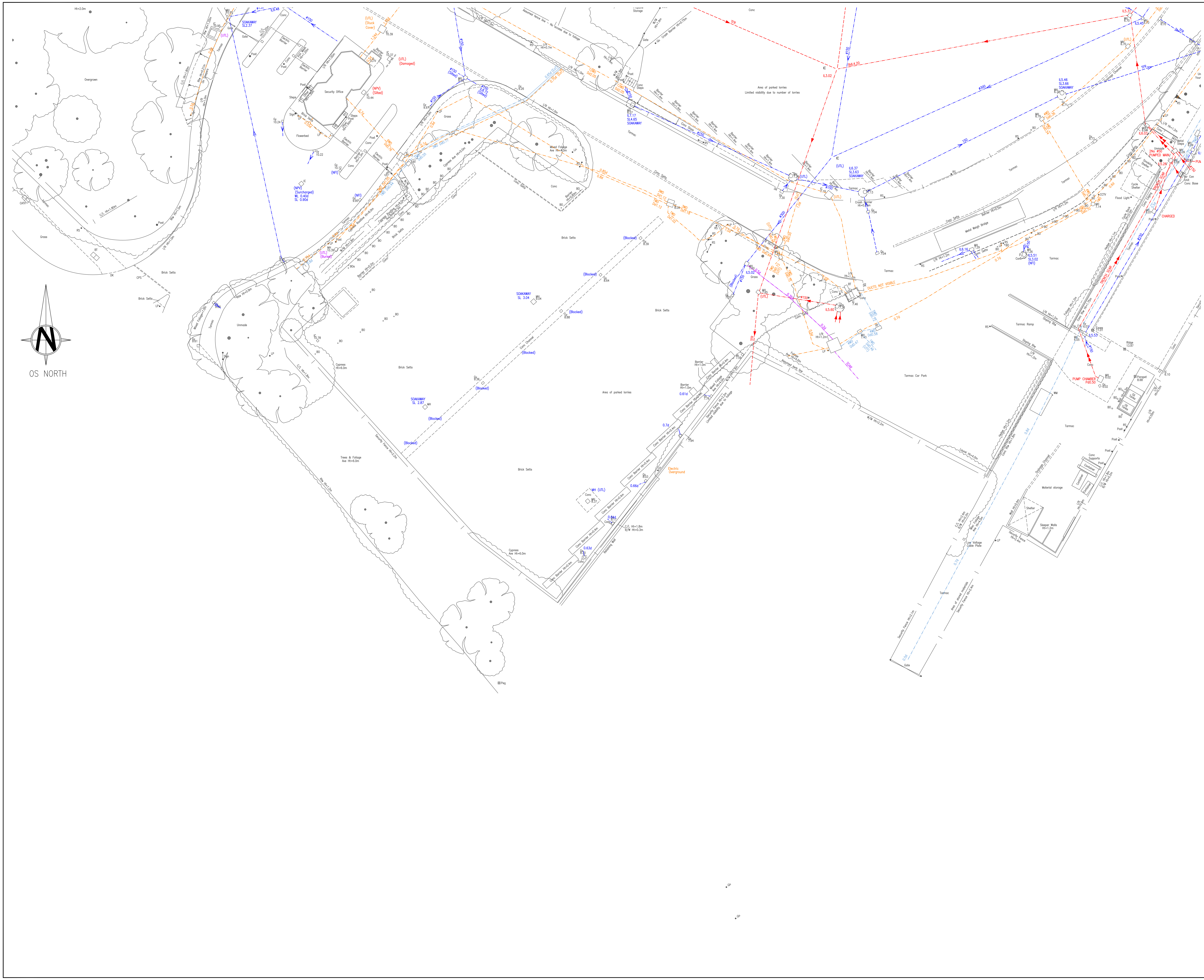

DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS

NOTES

1. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ON THIS DRAWING ARE IN METRES.
2. TOPOGRAPHICAL SURVEY DATA IS BY CD SURVEYS LTD AND HAS BEEN USED FOR INFORMATION ONLY.
3. REFER TO REPORT NO. A108750-1 UTILITIES SURVEY REPORT

TOPO LEGEND

AM	AERIAL MAST	IC/WO	INSPECTION COVER WASH OUT
AC	AIR CONDITIONING UNIT	IL:	INVERT LEVEL
AV	AIR VALVE	TJ	TRACK JOINT
BB	BELISHA BEACON	KO	KERB OUTLET
BL:	BED LEVEL	LAD	LADDER
BM	BENCHMARK	LB	LITTER BIN
B	BOLLARD	LDA	LAY DOWN AREA
BH	BOREHOLE	LP	LAMP POST
BS	BUS STOP	mE	METRES EAST
CAB	CABINET	MH	MANHOLE
CAB/BT	CABINET BRITISH TELECOM.	MHW	MEAN HIGH WATER LEVEL
CAB/EL	CABINET ELECTRIC	MLW	MEAN LOW WATER LEVEL
CAM	CAMERA	mN	METRES NORTH
CAL:	CANOPY LEVEL	MP	MARKER POST
CB	CRASH BARRIER	MP/BT	MARKER POST BRITISH TELECOM.
CBL	CABLE	MP/EL	MARKER POST ELECTRIC
CD	CHANNEL DRAIN	MP/GA	MARKER POST GAS
CDC	CONC. DUCT COVER	MP/WA	MARKER POST WATER
CHS	CHEMICAL OIL STORE	NB	NOTICE BOARD
CLM	COLUMN	NP	NAME PLATE
CNB	CONCRETE BASE	OH	OVERHEAD ITEMS
CNP	CONCRETE PLINTH	OHBT	OVERHEAD BRITISH TELECOM.
CONC.	CONCRETE	OHCBL	OVERHEAD CABLES
CP	CATCHPIT	OHPI	OVERHEAD PIPES
CPL:	CROWN PIPE LEVEL	OHPL	OVERHEAD POWER LINES
CPS	CONC. PIPE SUPPORT	OHPS	OVERHEAD PIPE SUPPORT
CT	CABLE TRAY	OHPB	OVERHEAD PIPEBRIDGE
DB	DROP BARRIER	OHPBS	OVERHEAD PIPEBRIDGE SUPPORT
DBB	DROP BARRIER BOX	P	POLE
DBP	DROP BARRIER POST	PB	POINTS BOX
DK	DROP KERB	PC	PEDESTRIAN CROSSING
DR	DERAILER	PCN	POINT CROSSING NOSE
EEB	EMERGENCY EQUIPMENT BOX	PD	POINTS DETECTOR
EMS	EMERGENCY SHOWER	PL	PEDESTRIAN LIGHTING BOLLARD
EL:	EAVES LEVEL	PLR	POINTS LEVER
EP	ELECTRIC POLE	PM	POINT MOTOR
ER	EARTH ROD	PBX	POST BOX
FBEDS	FLOWER BEDS	PO	POST
FE	FIRE EXTINGUISHER	PR	POINT RODS
FECL	CHAINLINK FENCE	PS	PIPE SUPPORT
FEHE	TEMP. HERAS FENCE	RE	RODDING EYE
FEPA	PANEL FENCE	RGS	PEDESTRIAN BARRIER
FEPE	PALISADE FENCE	RIL:	RIDGE LEVEL
FEPW	POST & WIRE FENCE	RL:	ROOF LEVEL
FEPR	POST & RAIL FENCE	RP	REFLECTOR POST
FEWM	WELDMESH FENCE	RS	ROAD SIGN
FH	FIRE HYDRANT	RSD	ROLLER SHUTTER DOOR
FL	FLOOD LIGHT	RTW	RETAINING WALL
FL:	FLOOR LEVEL	RWP	RAIN WATER PIPE
FP	FOOTPATH	S	SCAR LINES
FS	FLAG STAFF	SD	SLIDING DOOR
G/S/H	TREE GIRTH SPREAD HEIGHT	SIG	RAIL SIGNAL
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IC/GA	INSPECTION COVER GAS	WL:	WATER LEVEL
IC/SL	INSPECTION COVER STREET LIGHT	WP	WASTE PIPE
IC/WA	INSPECTION COVER WATER	WYGXXX	SURVEY STATION

GPR/UTILITIES LEGEND

Service	Line label
FOUL DRAINAGE	FW
SURFACE WATER DRAINAGE	SW
WATER	W
GAS	GAS
HV ELECTRICITY	HV
LV ELECTRICITY	LV
BT / OPENREACH	BT
UNKNOWN SERVICE	UK
UNDERGROUND CHAMBER	

(AC)	ASSUMED CONNECTION
(AR)	ASSUMED ROUTE
BdL	BACK-DROP LEVEL
Cd	CABLE DEPTH
CR	CABLE RISER
d	DEPTH OF SERVICE (APPROX)
Dd	DUCT DEPTH
DT	DISCONNECTING TRAP
(ET)	ELECTRONICALLY TRACED
(EoT)	END OF TRACE
Id	INVERT DEPTH
IL	INVERT LEVEL
HV	HIGH VOLTAGE
LD	LAND DRAIN
LV	LOW VOLTAGE
(NFI)	NO FURTHER INFORMATION
(NPV)	NO PIPES VISIBLE
Pd	PIPE DEPTH
Pe	POLYETHYLENE
PR	PIPE RISER
Sd	SUMP DEPTH
SL	SUMP LEVEL
(UTL)	UNABLE TO LIFT
(UTS)	UNABLE TO SURVEY
(UTT)	UNABLE TO TRACE
WD	WAY-DUCT

ASSOCIATED DRAWINGS

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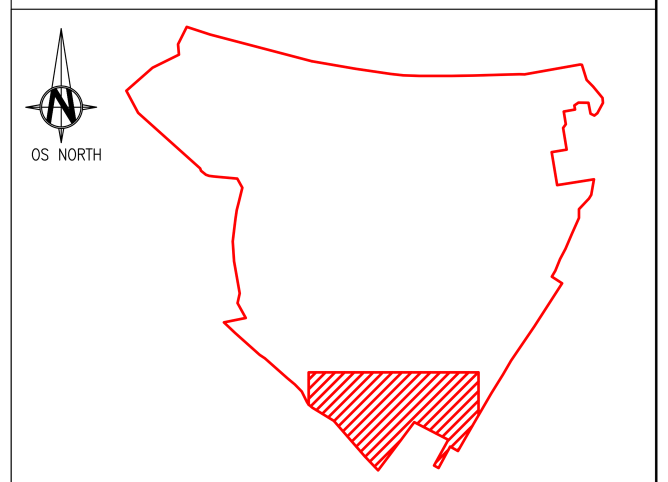
WYG008 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 8 OF 9
WYG009 – CARROW WORKS, NORWICH, UTILITIES SURVEY, SHEET 9 OF 9 (THIS DRAWING)

LOCATION PLAN

HATCHED AREA SHOWN IN THIS DRAWING – BOLD LINE DEFINES SURVEY EXTENT



REV	DESCRIPTION	BY	CHK	APP	DATE

0 2 4 6 8 10 m
SCALE 1:200

LAKELAND BUSINESS PARK
LAMPLUGH ROAD
COCKERMOUTH
CA13 0QT

TEL: +44 (0)1900 898 600
FAX: +44 (0)1900 826 324
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Project:
Carrow Works
Norwich
NR1 2DD

Drawing Title:
UTILITIES SURVEY
SHEET 9 OF 9

Scale @ A0	Drawn	Date	Checked	Date	Approved	Date
1 : 200	MD	22/11/18	DR	22/11/18	DR	22/11/18

Project No.	Office	Type	Drawing No.	Revision
A108750-1	22	01	WYG009	A

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