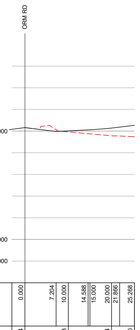
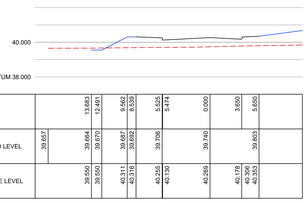


RD 01

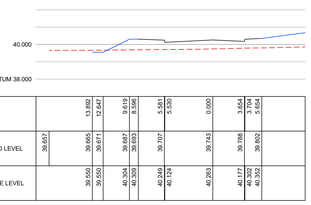
CHAINAGE	0.000	7.204	10.000	14.588	15.000	20.000	21.886	25.288
EXISTING GROUND LEVEL	40.164	39.963			39.784		39.749	
ALIGNMENT LEVEL		39.978	40.007	40.055	40.060	40.141	40.184	40.269
VERTICAL ALIGNMENT			G= 1.044% 1: 95.7		KF= 5.0 L= 7.278		G= 2.500% 1: 40.0	
HORIZONTAL ALIGNMENT								

SITE ACCESS LONGITUDINAL SECTION
SCALE - 1:500 (H) 1:100 (V)



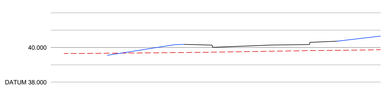
OFFSET		13.683	14.451	9.562	8.539	5.525	4.474	0.000	3.650	5.650
GROUND LEVEL	39.657	39.664	39.701	39.687	39.692	39.706		39.740	39.803	
FEATURE LEVEL		39.550	39.550	40.311	40.318	40.255	40.130	40.289	40.178	40.305

ALIGNMENT RD 01
CHAINAGE 25.288



OFFSET		13.892	12.447	9.619	8.596	5.561	5.530	0.000	3.904	5.654
GROUND LEVEL	39.657	39.665	39.611	39.687	39.693	39.707		39.743	39.788	39.802
FEATURE LEVEL		39.550	39.550	40.304	40.309	40.249	40.124	40.293	40.177	40.332

ALIGNMENT RD 01
CHAINAGE 25.000

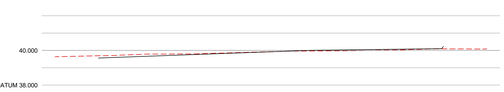


OFFSET		11.177	10.051	6.858	6.804	0.000	4.372	4.424	7.558
GROUND LEVEL		39.783	39.709	39.728		39.784		39.817	39.858
FEATURE LEVEL		40.105	40.178	40.153	40.009		40.161	40.167	40.292	40.364

ALIGNMENT RD 01
CHAINAGE 20.000

OFFSET		14.537	9.936	9.899	0.000	7.154	7.170	11.456
GROUND LEVEL		39.760	39.789		39.872	39.916		39.938
FEATURE LEVEL		39.988	40.051	39.877	40.060	40.154	40.279	40.313

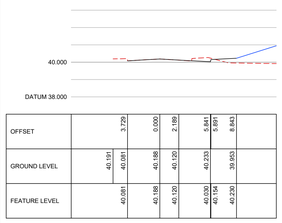
ALIGNMENT RD 01
CHAINAGE 15.000



OFFSET		24.545			0.000			15.053	15.272
GROUND LEVEL	39.657	39.693			39.963			40.060	40.065
FEATURE LEVEL		39.962			40.007			40.100	40.227

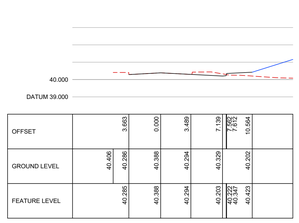
ALIGNMENT RD 01
CHAINAGE 10.000

SITE ACCESS CROSS SECTIONS
SCALE - 1:250 (H) 1:125 (V)



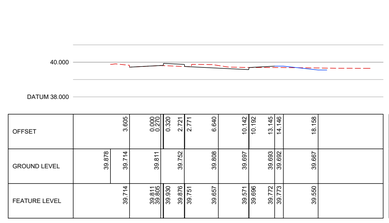
OFFSET		3.729		0.000		2.189		5.841	6.991	8.843
GROUND LEVEL	40.191	40.081		40.188		40.120		40.233	39.953	
FEATURE LEVEL		40.081		40.188		40.120	40.020	40.154	40.230	

ALIGNMENT ORM RD
CHAINAGE 60.000



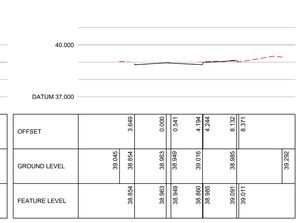
OFFSET		3.653		0.000		3.489		7.158	7.255	10.564
GROUND LEVEL	40.456	40.286		40.288		40.294		40.329	40.202	
FEATURE LEVEL		40.285		40.288		40.294	40.203	40.147	40.423	

ALIGNMENT ORM RD
CHAINAGE 120.000



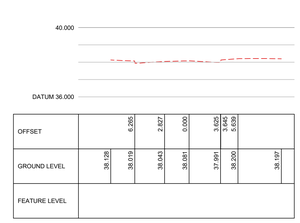
OFFSET		3.005	0.000	0.305		2.721	2.777		8.640		10.142	10.192	13.145	14.146		18.158
GROUND LEVEL	39.678	39.714	39.811		39.752			39.908		39.697			39.692		39.687	
FEATURE LEVEL		39.714	39.811	39.950	39.876	39.752	39.707		39.657		39.571	39.696	39.772	39.773	39.550	

ALIGNMENT ORM RD
CHAINAGE 180.000



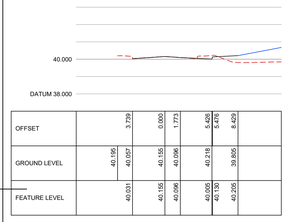
OFFSET		3.649		0.000		0.541		4.194	4.244	8.132	8.371	
GROUND LEVEL	39.045	38.954		38.963		38.949		39.016		38.985		39.292
FEATURE LEVEL		38.954		38.963		38.949	38.950	38.995		39.091	39.011	

ALIGNMENT ORM RD
CHAINAGE 240.000



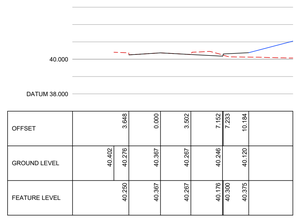
OFFSET				6.265		2.827		0.000		3.826	3.845	6.055	
GROUND LEVEL	38.128		38.019		38.043		38.081		37.991		38.200		38.197
FEATURE LEVEL													

ALIGNMENT ORM RD
CHAINAGE 300.000



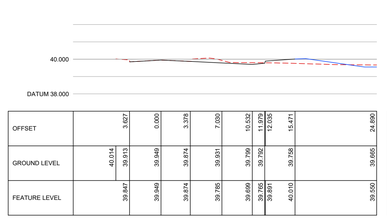
OFFSET		3.739		0.000		1.773		5.426	5.476	8.409
GROUND LEVEL	40.195	40.057		40.155		40.066		40.318		39.955
FEATURE LEVEL		40.031		40.155		40.066	40.005	40.130	40.205	

ALIGNMENT ORM RD
CHAINAGE 50.000



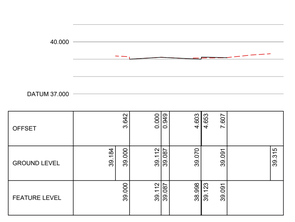
OFFSET		3.648		0.000		3.502		7.152	7.233	10.184
GROUND LEVEL	40.402	40.276		40.287		40.297		40.346		40.120
FEATURE LEVEL		40.250		40.287		40.297	40.176	40.300	40.375	

ALIGNMENT ORM RD
CHAINAGE 110.000



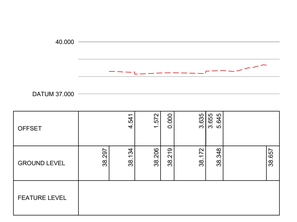
OFFSET		3.627		0.000		3.378		7.030		10.525	11.026	12.255	15.471		24.560
GROUND LEVEL	40.014	39.913		39.949		39.874		39.931		39.799	39.792		39.758		39.660
FEATURE LEVEL		39.847		39.949		39.874		39.785		39.999	39.999		39.891	40.010	39.560

ALIGNMENT ORM RD
CHAINAGE 170.000



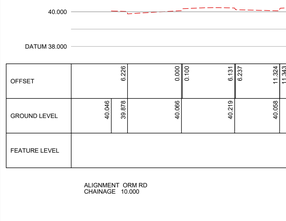
OFFSET		3.642		0.000		0.949		4.603	4.653	7.607	
GROUND LEVEL	39.184	39.000		39.112		39.097		39.070		39.091	39.319
FEATURE LEVEL	39.000			39.112		39.097		38.998	39.123		

ALIGNMENT ORM RD
CHAINAGE 230.000



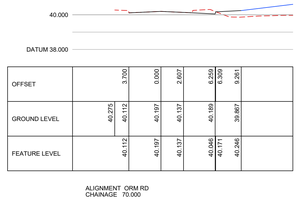
OFFSET				4.541		1.572		0.000		3.053	3.665	6.654	
GROUND LEVEL	38.297		38.134		38.206		38.219		38.172		38.346		38.637
FEATURE LEVEL													

ALIGNMENT ORM RD
CHAINAGE 290.000



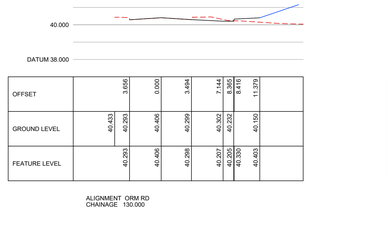
OFFSET		3.868		0.000		1.310		5.078	5.078	8.005
GROUND LEVEL	40.163	40.052		40.060		40.064		40.171	39.792	
FEATURE LEVEL		39.966		40.060		40.061	39.963	40.068	40.164	

ALIGNMENT ORM RD
CHAINAGE 40.000



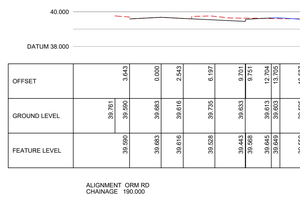
OFFSET		3.637		0.000		3.513		7.163	7.213	10.163
GROUND LEVEL	40.376	40.220		40.332		40.235		40.198	40.071	
FEATURE LEVEL		40.220		40.332		40.235	40.144	40.269	40.344	

ALIGNMENT ORM RD
CHAINAGE 100.000



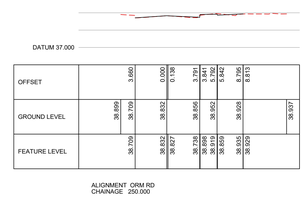
OFFSET		3.617		0.000		3.533		7.183		10.084	
GROUND LEVEL	40.304	40.008		40.111		40.012		40.057	39.923		39.829
FEATURE LEVEL		40.008		40.112		40.012		39.951	39.884		

ALIGNMENT ORM RD
CHAINAGE 160.000



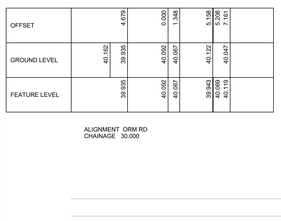
OFFSET		3.612		0.000		1.364		5.766	5.900	8.293		17.314	18.418	
GROUND LEVEL	39.325	39.157		39.252		39.214		39.327		39.954		39.985	39.997	39.940
FEATURE LEVEL	39.157		39.252		39.214		39.327	39.240		39.921		39.950	39.950	

ALIGNMENT ORM RD
CHAINAGE 220.000



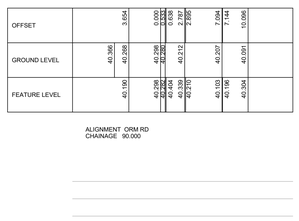
OFFSET				3.645		0.260		0.000	0.138	3.791	3.941	6.940	
GROUND LEVEL	38.469		38.299		38.387		38.322		38.493		38.500		
FEATURE LEVEL													

ALIGNMENT ORM RD
CHAINAGE 280.000



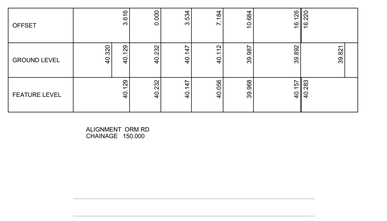
OFFSET		4.879		0.000		1.348		5.158	5.208	7.161
GROUND LEVEL	40.162	39.935		40.002		40.007		40.122	40.047	
FEATURE LEVEL		39.935		40.002		40.007	39.943	40.069	40.119	

ALIGNMENT ORM RD
CHAINAGE 30.000



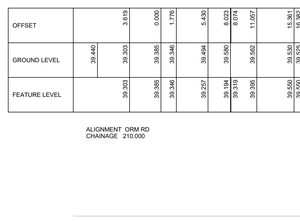
OFFSET		3.654		0.000	0.000	0.000	0.000	0.000	2.787	2.955	7.094	7.144	10.096
GROUND LEVEL	40.366	40.298		40.298	40.298	40.298	40.298	40.212		40.207			40.091
FEATURE LEVEL		40.190		40.298	40.298	40.298	40.298	40.210		40.103	40.196	40.304	

ALIGNMENT ORM RD
CHAINAGE 90.000



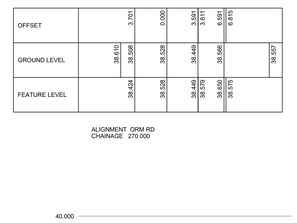
OFFSET		3.816		0.000		3.534		7.184		10.984		16.126	16.220	
GROUND LEVEL	40.220	40.129		40.232		40.147		40.113		39.987		39.862		39.821
FEATURE LEVEL		40.129		40.232		40.147		40.056		39.966		40.157	40.283	

ALIGNMENT ORM RD
CHAINAGE 150.000



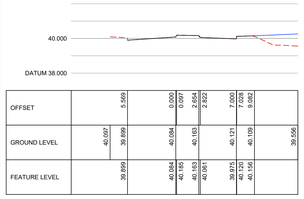
OFFSET		3.619		0.000		1.778		5.430		8.023	8.074	11.057		15.361	16.352	
GROUND LEVEL	39.440	39.303		39.385		39.346		39.494		39.560		39.562		39.330	39.330	39.540
FEATURE LEVEL		39.303		39.385		39.346		39.257		39.194	39.319	39.395		39.550	39.550	

ALIGNMENT ORM RD
CHAINAGE 210.000



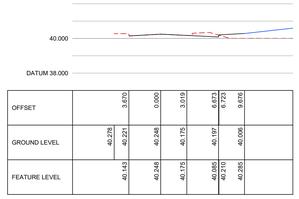
OFFSET				3.701		0.000		3.951	3.951	6.991	
GROUND LEVEL	38.610		38.506		38.528		38.449		38.549		38.557
FEATURE LEVEL	38.424						38.538	38.449	38.549	38.566	

ALIGNMENT ORM RD
CHAINAGE 270.000



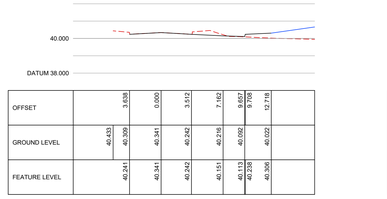
OFFSET		5.669		0.000		0.647		2.454	2.822	7.000	7.028	9.982	
GROUND LEVEL	40.007	39.899		40.084		40.163		40.163		40.121	40.109		39.596
FEATURE LEVEL		39.899		40.084	40.163	40.163	40.061		39.975	40.120	40.166		

ALIGNMENT ORM RD
CHAINAGE 20.000



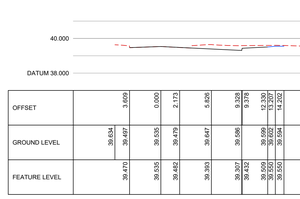
OFFSET		3.670		0.000		3.019		6.673	6.770	9.676
GROUND LEVEL	40.278	40.221		40.248		40.175		40.197		40.086
FEATURE LEVEL		40.143		40.248		40.175	40.080	40.197	40.285	

ALIGNMENT ORM RD
CHAINAGE 80.000



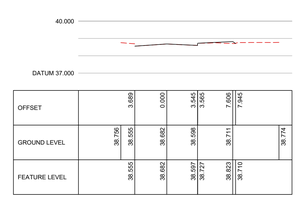
OFFSET		3.838		0.000		3.512		7.162		10.657	9.708	12.718	
GROUND LEVEL	40.433	40.309		40.341		40.242		40.216		40.092			40.022
FEATURE LEVEL		40.241		40.341		40.242		40.151	40.113	40.238		40.306	

ALIGNMENT ORM RD
CHAINAGE 140.000



OFFSET		3.609		0.000		2.173		5.826		9.329	9.378	12.380	12.430	14.202	
GROUND LEVEL	39.634	39.497		39.535		39.479		39.647		39.566		39.699	39.699	39.594	39.505
FEATURE LEVEL	39.470		39.535		39.482		39.393		39.307	39.432	39.500	39.500	39.550	

ALIGNMENT ORM RD
CHAINAGE 200.000



OFFSET				3.689		0.000		3.464	3.563	7.006	7.945	
GROUND LEVEL	38.796		38.555		38.692		38.598		38.711			38.774
FEATURE LEVEL	38.555				38.692		38.598	38.727	38.727	38.823	38.710	

ALIGNMENT ORM RD
CHAINAGE 260.000

OFFSET		6.226		0.000	0.100		6.151	6.227	11.324	11.343	15.923	
GROUND LEVEL	40.046	39.878		40.066		40.064		40.219		40.068	40.250	40.000
FEATURE LEVEL												

ALIGNMENT ORM RD
CHAINAGE 10.000

OFFSET		3.700		0.000		2.607		6.256	6.309	9.261
GROUND LEVEL	40.275	40.112		40.197		40.137		40.169	39.867	
FEATURE LEVEL		40.112		40.197		40.137	40.046	40.171	40.246	

ALIGNMENT ORM RD
CHAINAGE 70.000

OFFSET		3.666		0.000		3.484		7.144	8.365	8.416	11.379	
GROUND LEVEL	40.433	40.293		40.406		40.299		40.303	40.252			40.153
FEATURE LEVEL		40.293		40.406		40.299	40.207	40.205		40.330	40.403	

ALIGNMENT ORM RD
CHAINAGE 130.000

OFFSET		3.643		0.000		2.543		6.197		9.701	9.751	12.704	13.705	15.987	17.709	
GROUND LEVEL	39.761	39.560		39.883		39.816		39.735		39.653		39.613		39.595	39.595	39.584
FEATURE LEVEL	39.560		39.883		39.816		39.735		39.443	39.606	39.645	39.649	39.603	39.500	39.500	

ALIGNMENT ORM RD
CHAINAGE 190.000

OFFSET				3.660		0.000	0.138	3.791	3.941	6.940	8.013	
GROUND LEVEL	38.899		38.709		38.832		38.856		38.852		38.926		38.927
FEATURE LEVEL			38.709		38.832	38.627	38.738	38.856	38.919	38.762	38.859	38.935	38.929

ALIGNMENT ORM RD
CHAINAGE 250.000

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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING

CONSTRUCTION

MAINTENANCE

DEMOLITION

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

GENERAL NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL THE RELEVANT ARCHITECTS, ENGINEERS' AND SERVICE ENGINEERS DRAWINGS & SPECIFICATIONS.

NOTES:

1) ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE
2) ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAYS WORKS AND LOCAL AUTHORITY GUIDANCE
3) UNDERGROUND SERVICES ARE PRESENT IN THE AREA. CONTRACTOR IS TO CONFIRM THE PRECISE LINE AND DEPTH OF ANY SERVICES PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION WORKS
4) FOR SECTION LOCATIONS REFER TO DRAWING NUMBER 21171-BGL-XX-XX-DR-C-00302

KEY:

EXISTING GROUND PROFILE

PROPOSED GROUND PROFILE (HIGHWAY WORKS)

PROPOSED GROUND PROFILE (SHOWN FOR INFORMATION ONLY AND FORM PART OF INTERNAL SITE WORKS. REFER TO DRAWING NUMBER 22075-BGL-XX-XX-DR-C-00200 FOR INTERNAL SITE LEVELS)

THIS DRAWING IS BASED ON FLETCHER RAE ARCHITECTS DRAWING REF: 19011-FRA-AV-XX-DR-A-90-1001-P14

REV	DATE	BY	REVISION	CHK'D
P6	15.08.2025	TS	UPDATED FOLLOWING SAFETY AUDIT	JW/HS
P5	06.04.2025	TS	RELOCATED SOUTHBOUND BUS STOP DESIGN ADDED	JW/HS
P4	18.02.2025	TS	UPDATED FOLLOWING KC COMMENTS	JW/HS
P3	10.01.2025	TS	UPDATED FOLLOWING KC COMMENTS	JW/HS
P2	23.01.2023	TS	UPDATED FOLLOWING RSA AND CLIENT COMMENTS	JW/HS
P1	10.10.2022	TS	PRELIMINARY	JW/HS

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CLIENT

Caddick Developments.

PROJECT

KNOWSLEY BUSINESS PARK
KNOWSLEY

DRAWING TITLE

SECTION 278 WORKS
LONG AND CROSS SECTIONS

OUR PROJECT NUMBER	DRAWING STATUS	OFFICE
22075	PRELIMINARY	NORTH
SCALE @ A0	DATE	DRAWN BY / CHECKED BY
AS SHOWN	04.10.2022	TS / JW/HS

DRAWING No: 22075-BGL-XX-XX-DR-C-00303 REV P6