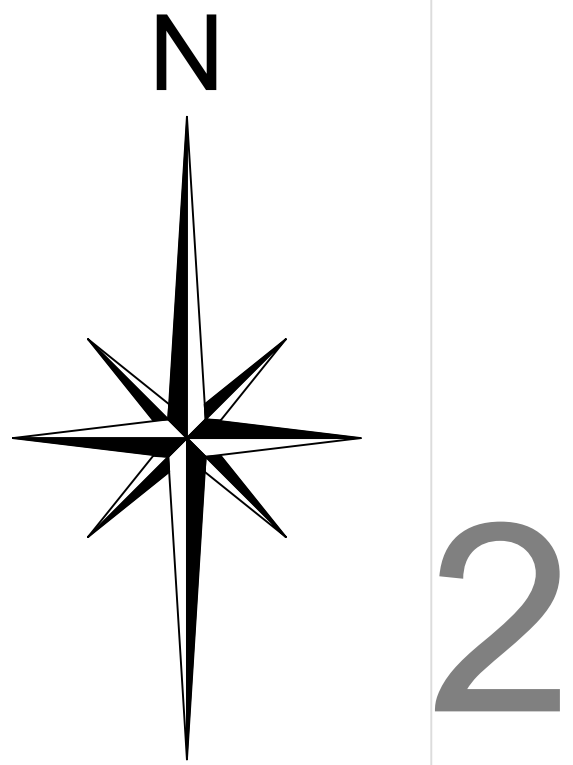




STREET FURNITURE :		SERVICES :		UNDERGROUND LEGEND :		SHEET LAYOUT :		PLAN PRODUCED BY :		CLIENT :		PROJECT :											
BOLLARDS BUS STOP CRASH BARRIER GATE ELECTRICITY POLE TELEPHONE POLE EARTHING ROD LAMP POST MARKER POST SIGN POST TRAFFIC LIGHT TELEPHONE BOX POST POST BOX ROADSIGN BORE HOLE TRIAL PIT		9D+ BS+ CB EP+ TP+ ER+ LP+ MKR+ SIGN+ TL+ TB POST BOX RS+ RS BH+ TPT+		AIR VALVE ARMSTRONG JUNCTION CABLE TV IC COVER LEVEL EIRCROM COVER EIRCROM JUNCTION BOX ELECTRICAL CABLE PIT ESAT COVER ESS BOX ESS JUNCTION BOX FIRE HYDRANT GAS VALVE GULLY INSPECTION COVER MANHOLE SEPTIC TANK SLUICE VALVE		AV AJ CATV CL EIRCROM EIRCROM BOX ECP ESAT ESS ESS BOX FH GV G IC MH SEPTIC SV		STOPCOCK SERVICE BOX (UNKNOWN) TRAFFIC COVER VENT WATER METER LEVELS : BED LEVEL FLOOR LEVEL INVERT LEVEL ROAD LEVEL SOFFIT LEVEL SPOT LEVEL TOP OF WALL LEVEL WATER LEVEL SURVEY CONTROL STATION		ST+ BOX TLIC VENT+ WM+ +BED101.50 +FL101.50 +GV +101.50 +SL101.50 +101.50 +TOW101.50 +WL101.50		WATER MAIN GAS MAIN STORM DRAIN FOUL SEWER COMBINED SEWER ELECTRIC CABLE ELECTRIC LIGHTING EIRCROM FIBRE OPTIC CABLE BROADBAND CABLE TV TRAFFIC AND SIGNAL CABLE CCTV IRRIGATION PIPE EMPTY DUCT GPR ANOMALY UNKNOWN CABLE O'HEAD ELECTRICITY O'HEAD TELECOM		WATER GAS STORM FOUL COMB POWER LIGHTING EIRCROM F-OPTIC BROADBAND CTV TRAFFIC CCTV IRRIGATION EMPTY ANOMALY CABLE TELECOM				Apex Surveys Unit 78 Dunboyne Business Park Dunboyne, Co. Meath, Ireland www.apexsurveys.ie info@apexsurveys.ie 00353 1 691 0156		Cork City Council		Ballincollig Fire Station, Link Road Ballincollig	
BOTTOM OF CHAMBER CAST-IRON CONCRETE DIAMETER		BOC CI CONC DIA		DOWNPIPE EARTHENWARE NO FURTHER TRACE OFFSITE		DP ENW NFT O/S		START OF RUN EARTHENWARE UNABLE TO OPEN UNABLE TO TRACE		SOR UTO UTT		GRID SYSTEM: Irish Transverse Mercator DATUM: Main Head (OSGM15) NOTES: Drawing Contains Scale Factor		SCALE : 1/200 A1 DATE : 28/07/2025		DRG No: 7286 SHEET: 1 of 2		DESCRIPTION : 2D Utilities SURVEYED BY : D.D. & G.F. PROCESSED BY : S.W. CHECKED BY : A.B.					
												REVISIONS:											
												No. Date Description											
												001 DD/MM Original Drawing											



Apex Surveys Ltd. Disclaimer - Utility Survey

The interpretative nature and the non-intrusive, indirect and non-destructive survey methods must be taken into account when considering the results of the surveys. Therefore, Apex Surveys, while using appropriate practice to execute, interpret and present the data, gives no guarantees that all underground utilities and underground structures will be located and mapped. Furthermore, Apex Surveys cannot guarantee the accuracy of the utility depths annotated on the survey drawings. Apex Survey shall not be liable for any omissions or inaccuracies in the survey which arise due to the limitations of the service. No liability shall attach to Apex Surveys, in any circumstances, howsoever arising, in respect of any consequential loss or damages suffered by the Client.

The following is a non-exhaustive list of the limitations of utility surveys:

The survey aims to map existing utilities subsurface utilities and provide information with respect to pipe size, material type and drainage connectivity. However utility surveying is limited by the following guidelines and it may not be possible to accurately survey, define and locate all services and sub-surface features.

Due to attenuation of the radar signal with depth, resolution is restricted, hence making identification of utilities more difficult with increasing depth.

- **Ground Conditions:** The depth penetration and quality of the data depends

resistivity material. Clay overburden can impair GPR Surveying. Poor data may be a result of areas with high conductivity.

and to map its route. The reflected signal will display a single response to multiple utilities. Therefore multiple utilities may appear to be a single utility. Where similar services run on close proximity, separation may be impossible

- Shadowing: (of deeper utilities by shallower objects) Shallow utilities will

- **Surface Obstructions:** The GPR system relies on a relatively flat and even surface on which to perform radar passes. If ground obstructions such as

present then the acquired data will be of lower resolution and in some cases not viable.

- Connections between manholes: Connections between manhole chambers are assumed to be straight.

Fiber Optic Cables: Fiber optic cables may not be possible to locate except

- Acute bends in pipework: It may not be possible to trace a pipe past an acute bend.

- Locational accuracy is determined by referring to the manufacturers guidelines for the detector used.

+/- 5% for Radiodetection and +/- 10% of depth for the GPR to 2.5m deep. However variations within the subsurface, depth below the ground, close proximity of other services and local magnetic, atmospheric or ground

- Plan accuracies of + or - 150mm may be achieved but this figure will depend on the following factors:

substances, depth, view, the ground, close proximity of other services and local magnetic, atmospheric or ground conditions, bends, lateral service connections and any of the other limitations listed in this disclaimer may alter this estimated

- Where technically possible, depth indications will be given. These along with plan positions should be used for guidance only and wherever critical accuracy

excavations or similar.

Record Drawing Information

Existing record information showing underground services is often incomplete and with unknown accuracies therefore it should be regarded as indicative only.

- Apex Surveys endeavor to add relevant Public Utility record information onto

We shall not be held responsible for the accuracy, or otherwise, of the location of a service, as issued by the utility provider and therefore shown as "Taken for

The following have been excluded from the survey:

- Location of individual service feeds to properties or buildings as access would

this would significantly increase the scope of works, survey cost and also cause possible disruption to occupants.

- Small diameter cables less than 20mm diameter or pipes less than 40mm diameter.

Lifting manholes which require longer than 10 minutes effort using standard heavy duty apparatus.

PROJECT:

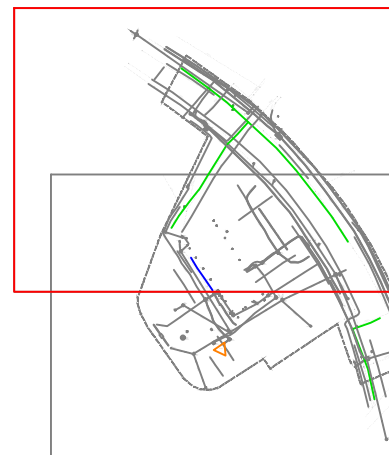
Ballincollig Fire Station, Link Road Ballincollig	
SCALE :	1/200 A1
DRG No:	7286
	DESCRIPTION : 2D Utilities
SHEET:	SURVEYED BY : D.D. & G.F.
	PROCESSED BY : S.W.
	CHECKED BY : A.B.

STREET FURNITURE :		SERVICES :			
BOLLARDS	BD +	AIR WALK	AV 	STOPCOCK	ST +
BUS STOP	BS +	ARMSTRONG JUNCTION	AJ 	SERVICE BOX (UNKNOWN)	BOX 
CRASH BARRIER	CB	CABLE TV IC	CATV 	TRAFFIC CROW	TC 
GATE	CH	COVER LEVEL	CL 	VENT	VENT +
ELECTRICITY POLE	EP +	EIRCOM COVER	EIRCOM 	WATER METER	WM +
TELEPHONE POLE	TP +	EIRCOM JUNCTION BOX	EIRCOM BOX 		
EARTHING ROD	TR +	ELECTRICAL CABLE PIT	EC 	LEVELS :	
LAMP POST	LP +	ESAT COVER	ESAT 	FLOOR LEVEL	+ BED 101.50
MARKER POST	MKR +	ESS COVER	ESSB 	BERM LEVEL	+ F 101.51
ROAD SIGN	RS	ESS JUNCTION BOX	ESSB BOX 	INVERT LEVEL	+ IL 101.50
TRAFFIC LIGHT	TL +	FIRE HYDRANT	FH 	ROAD LEVEL	+ 101.50
TELEPHONE BOX	TB	GAZ VALVE	GV 	SOFFIT LEVEL	+ S 101.50
POST	POST +	GULLY	G 	SPOT LEVEL	+ 101.50
POST BOX	POST BOX	INSPECTION COVER	IC 	TOP OF WALL LEVEL	+ TOW 101.50
ROADSIGN	RS - RS	MANHOLE	MH 	WATER LEVEL	+ 101.50
BARE HOLE	BH +	SEPTIC	SEPTIC 	SURVEY CONTROL STATION	+ 101.50
TRIAL PIT	TRIAL PIT	SURFACE PLATE	SP 		
		DOWNPIPE	DP	START OF RUN	SOR 
BOTTOM OF CHAMBER	BOC	EARTHENWARE	E/W	UNABLE TO OPEN	UTO
CAST-IRON	CII	NO FURTHER TRACE	NFT	UNABLE TO TRACE	UTT
CONCRETE	CONC	OFFSITE	O/S		
DIAMETER	DIA				

UNDERGROUND LEGEND :

WATER MAIN	 WATER
GAS MAIN	 GAS
STORM DRAIN	 STORM
FOUL SEWER	 FOUL
COMBINED SEWER	 COMB
ELECTRIC CABLE	 POWER
ELECTRIC LIGHTING	 LIGHTING
EIR/COM	 EIR/COM
FIBRE OPTIC CABLE	 FIBRE
BROADBAND	 BROADBAND
CABLE TV	 TV
TRAFFIC AND SIGNAL CABLE	 TRAFFIC
SCITY	 SCITY
IRRIGATION PIPE	 IRRIGATION
EMPTY DUCT	 EMPTY
GPR ANOMALY	 ANOMALY
UNKNOWN	 CABLE
O/H EARTH ELECTRICITY	 O/E
O/H EARTH TELECOM	 OT

SHEET LAYOUT :



The diagram illustrates the sheet layout for a curved structural member. A red rectangular frame is overlaid on the drawing, indicating the area covered by the sheet. The member is shown in a curved position, with green and blue highlights indicating specific areas of interest or reinforcement. The drawing includes various construction lines and dimensions, such as a 100mm dimension at the bottom left.

PLAN PRODUCED BY:

APEX
SURVEYS

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info@apexsurveys.ie
00353 1 691 0156

CLIENT: Cork City Council														
GRID SYSTEM: Irish Transverse Mercator DATUM: Malin Head (OSGM15) NOTES: Drawing Contains Scale Factor														
REVISIONS: <table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>001</td> <td>DD/MM</td> <td>Original Drawing</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			No.	Date	Description	001	DD/MM	Original Drawing						
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