MWP

FLOOD RISK ASSESSMENT

Proposed Large Residential Development at Deerpark, Killarney, County Kerry.

On behalf of Ross-Park Residential HS Limited

September 2026

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Appendix B – Site Topographical Survey

Project No.	Doc. No.	Rev.	Date	Prepared By	Checked By	Approved By	Status
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1. Introduction

1.1 Location and Proposed Development

This Flood Risk Assessment (FRA) report has been prepared in relation to proposed residential development at Ardshanavooly Killarney, Co. Kerry.

Ross-Park Residential HS Limited intend to apply for planning permission for a Large-Scale Residential Development (LRD) at Ardshanavooly (townland), Killarney, Co. Kerry.

The development will consist of the construction of a residential development of 188 no. residential units with ancillary creche, landscaping and all associated site development works.

The proposed development includes the construction of 120 no. two storey houses comprising of 51 no. townhouse units (35 no. 3-bed units, 16 no. 4-bed units), 50 no. semi-detached units (32 no. 3-bed units, 18 no. 4-bed units), 19 no. mews houses (19 no. 2-bed units), and 68 no. apartments in 2 no. four storey blocks (36 no. 1-bed units, 32 no. 2-bed units).

Vehicular access to the proposed development will be via the proposed Killarney Strategic Links Project - Links Road A-C, part of which will be delivered by the proposed development. The design includes short and longer term future accesses reflecting the phased delivery of Links Road A-C, as well as pedestrian/cycle infrastructure to/from Friary Downs / the R876 to the south and internally within the development site and to adjoining areas.

Ancillary site works include car parking, provision of bicycle parking and bin storage facilities serving the proposed apartment/courtyard apartment buildings and creche, 1 no. ESB substation, landscaping, water services and drainage infrastructure and all associated site development works.



Figure 1-1: Aerial Image of Site

The site topography ranges from approximately 44 metres above ordnance datum (AOD) at the north of the site to approximately 42 metres AOD at the southern end of the site. Encompassing approximately 3.8 hectares, the proposed development site is a green field site located within a mixed urban area. Fitzgerald GAA stadium and Deer Park Pitch & Putt Club are located a short distance to the northwest with Killarney Railway and Bus Station located nearby to the southwest. There are two entrance roads to the proposed development site, the first is via the Deerpark Road and the second is via Friary Downs Road along the southern boundary. These entrance roads provide links to the Regional Road R876 Park Road to the south and the National Road N22 Killarney Bypass Road to the northeast.

A review of the EPA map-viewer determined that there are no watercourses traversing the proposed development site and there are none within the immediate vicinity, as shown in Figure 1-2. MWP were appointed to prepare a Flood Risk Assessment with respect to this development.

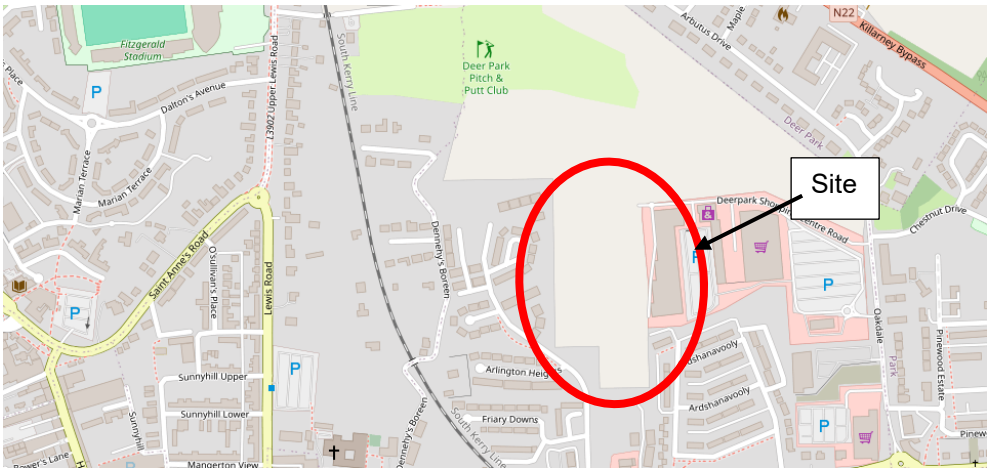


Figure 1-2: Water courses in vicinity of the site (EPA Maps)

1.2 Objectives

The purpose of the report is to establish the flood risk associated with the proposed development and, if appropriate, to recommend mitigation measures to prevent any increase in flood risk within the site or externally in the wider area.

The report has been prepared in the context of The Planning System and Flood Risk Management – Guidelines for Planning Authorities, November 2009, published by the Office of Public Works and the Department of Environment, Heritage and Local Government. Flood Risk Assessments are carried out at different scales by different organisations. The hierarchy of assessment types are Regional (RFRA), Strategic (SFRA) and Site-specific (FRA). This report is site-specific.

1.3 Methodology

The Flood Risk Management Guidelines document outlines three stages in the assessment of flood risk as follows:

Stage 1 Flood risk identification –

To identify whether there may be any flooding or surface water management issues related to a plan area or proposed development site that may warrant further investigation.

Stage 2 Initial flood risk assessment –

To confirm sources of flooding that may affect a plan area or proposed development site, to appraise the adequacy of existing information and to determine what surveys and modelling approach is appropriate to match the spatial resolution required and complexity of the flood risk issues. The extent of the risk of flooding should be assessed which may involve preparing indicative flood zone maps. Where existing river or coastal models exist, these should be used broadly to assess the extent of the risk of flooding and potential impact of a development on flooding elsewhere and of the scope of possible mitigation measures; and

Stage 3 Detailed risk assessments –

To assess flood risk issues in sufficient detail and to provide a quantitative appraisal of potential flood risk to a proposed or existing development, of its potential impact on flood risk elsewhere and of the effectiveness of any proposed mitigation measures. This will typically involve use of an existing or construction of a hydraulic model or a river or coastal cell across an area wide enough to appreciate the catchment wide impacts and hydrological processes involved.

This report has been prepared generally in accordance with these stages.

1.4 Flood Zones

The Flood Risk Management Guidelines document defines three flood zone types as follows:

Flood Zone A –

where the probability of flooding from rivers and the sea is highest (greater than 1% or 1 in 100 for river flooding or 0.5% or 1 in 200 for coastal flooding).

Flood Zone B –

where the probability of flooding from rivers and the sea is moderate (between 0.1% or 1 in 1000 and 1% or 1 in 100 for river flooding and between 0.1% or 1 in 1000 year and 0.5% or 1 in 200 for coastal flooding); and

Flood Zone C –

where the probability of flooding from rivers and the sea is low (less than 0.1% or 1 in 1000 for both river and coastal flooding). Flood Zone C covers all areas of the plan which are not in zones A or B.

The flood zone type is determined based on current water surface levels without allowance for climate change.

The Guidelines divide developments into three vulnerability classes as follows:

- Highly vulnerable developments
- Less vulnerable developments
- Water compatible developments

The Guidelines include a matrix that determines the appropriateness of different types of development based on their vulnerability classification and the Flood Zones in which they are located.

	Flood Zone A	Flood Zone B	Flood Zone C
Highly vulnerable development (including essential infrastructure)	Justification Test	Justification Test	Appropriate
Less vulnerable development	Justification Test	Appropriate	Appropriate
Water-compatible development	Appropriate	Appropriate	Appropriate

Table 1-1: Vulnerability Matrix

Vulnerability Class	Land uses and types of development which include;
Highly vulnerable development (including essential infrastructure)	Garda, ambulance and fire stations and command centers required to be operational during flooding; Hospitals; Emergency access and egress points Schools Dwelling houses, student hails of residence and hostels Residential institutions such as residential care homes, children's homes and social services homes Caravans and mobile home parks Dwelling houses designed, constructed or adapted for the elderly or, other people with impaired mobility; and Essential infrastructure, such as primary transport and utilities distribution, including electricity generating power stations and sub-stations, water and sewage treatment, and potential significant sources of pollution (SEVESO sites, IPPC sites, etc.) in the event of flooding
Less vulnerable development	Buildings used for: retail, leisure, warehousing, commercial, industrial and non-residential institutions; Land and buildings used for holiday or short-let caravans and camping, subject to specific warning and evacuation plans Land and buildings used for agriculture and forestry Waste treatment (except landfill and hazardous waste) Mineral working and process and Local transport infrastructure
Water-compatible development	Flood control infrastructure Docks, marinas and wharves Navigation facilities Ship building, repairing and dismantling, dockside fish processing and refrigeration and compatible activities requiring a waterside location; Water-based recreation and tourism (excluding sleeping accommodation); Lifeguard and coastguard stations Amenity open space, outdoor sports and recreation and essential facilities such as changing rooms and Essential ancillary sleeping or residential accommodation for staff required by uses in this category(subject to a specific warning and evacuation plan)

Table 1-2: Vulnerability Classification

Where the matrix indicates that a development is not appropriate, it may still be justified based on a procedure described as a Justification Test.

The proposed development would be classified as a Highly Vulnerable Development.

2. Flood Risk Identification (Stage 1)

Possible sources of flood risk were identified by

- A walkover survey of the subject site and surrounding terrain;
- Topographical survey information for the site;
- Examination of available information on the website (www.floodinfo.ie);

The Past Flood Event Local Area Summary Report was obtained from the Office of Public Works (OPW) floodinfo.ie website. This report summarises all recorded past flood events within 2.5km radius of the map centre. The report shows 6 records of flooding within 2.5km radius of the proposed site, refer to Figure 2-1 below. The majority of these occurred to the south and southwest of the site. There is no record of flooding in the immediate vicinity of the site, refer to Figure 2-2.

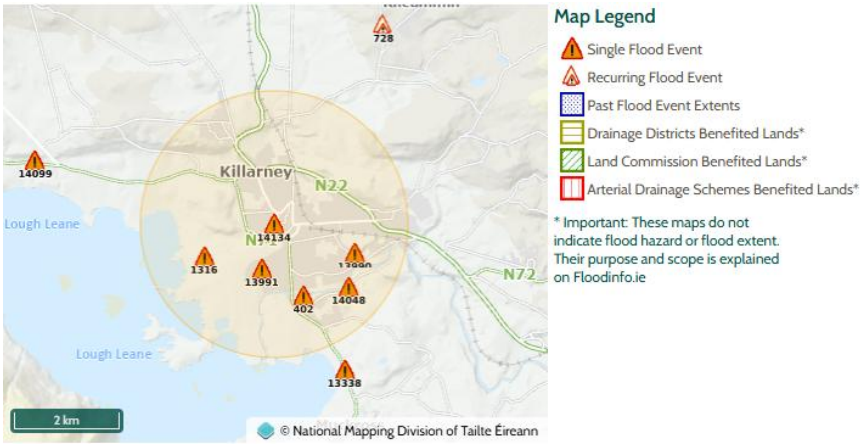


Figure 2-1: Recorded Flood Events in the vicinity of the site (Floodinfo.ie)



Figure 2-2: Recorded Flood Events in the vicinity of the site (Floodinfo.ie)

2.1.1 Flooding ID 14134

Flooding occurred to the southwest of the site on the 26th of June 2019. No additional information is available.

2.1.2 Flooding ID -13990

Flooding occurred to the south of the site at Ballycasheen on the 5th of December 2015.No additional information available.

2.1.3 Flooding ID -14048

Flooding occurred on Mill Road in Killarney on the 23rd of February 2021. No additional information available.

2.1.4 Flooding ID -402

Flooding occurred in Flesk in Killarney in November 1980. No additional information available.

2.1.5 Flooding ID -1316

Flooding occurred in Deenagh in Killarney in August 1986. No additional information available.

2.1.6 Flooding ID -13991

Flooding occurred in Ross Road on the 5th of December 2015. No additional information available.

2.2 National Indicative Fluvial Mapping (NIFM)

The National Indicative Fluvial Flood Maps have been produced for catchments greater than 5Km² in areas for which flood maps were not produced under the National Catchment Flood Risk Assessment and Management Programme (CFRAM). An extract from the National Indicative Fluvial Flood Maps for the current scenario is shown in Figure 2-2 and Figure 2-3 for fluvial and coastal flooding respectively. These maps are not the best achievable representation of projected flood extents, such as those that could be generated through detailed hydraulic modelling and are only indicative of the predicted flood extent of any given probability at any particular location.

The flood maps may be used in the Stage 1 Flood Risk Assessment (Flood Risk Identification) to identify areas where further assessment would be required if development is being considered within or adjacent to the flood extents shown on the maps.

These maps are 'predictive' flood maps showing indicative areas predicted to be inundated during a theoretical fluvial flood event with an estimated probability of occurrence, rather than information for actual floods that have occurred in the past, which is presented, where available, on the 'past' flood maps.

The maps refer to flood event probabilities in terms of a percentage Annual Exceedance Probability, or 'AEP'. This represents the probability of an event of this severity occurring in any given year. They are also commonly referred to in terms of a return period (e.g. the 100-year flood). The flood extents for the 1% AEP (100-year flood) and 0.1% AEP (1000-year flood) Present Day Scenario (Current Scenario) flood events are illustrated below.

The NIFM mapping indicates that there is no immediate flood risk to the proposed site.

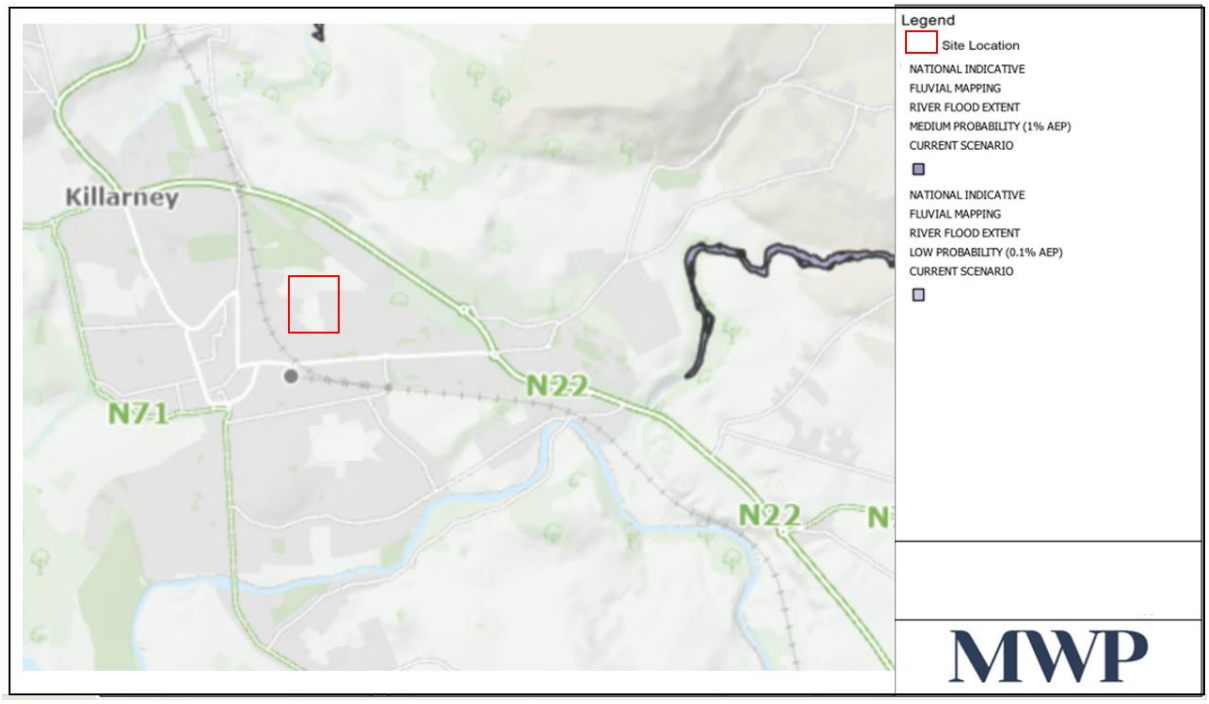


Figure 2-2: National Indicative Fluvial Mapping

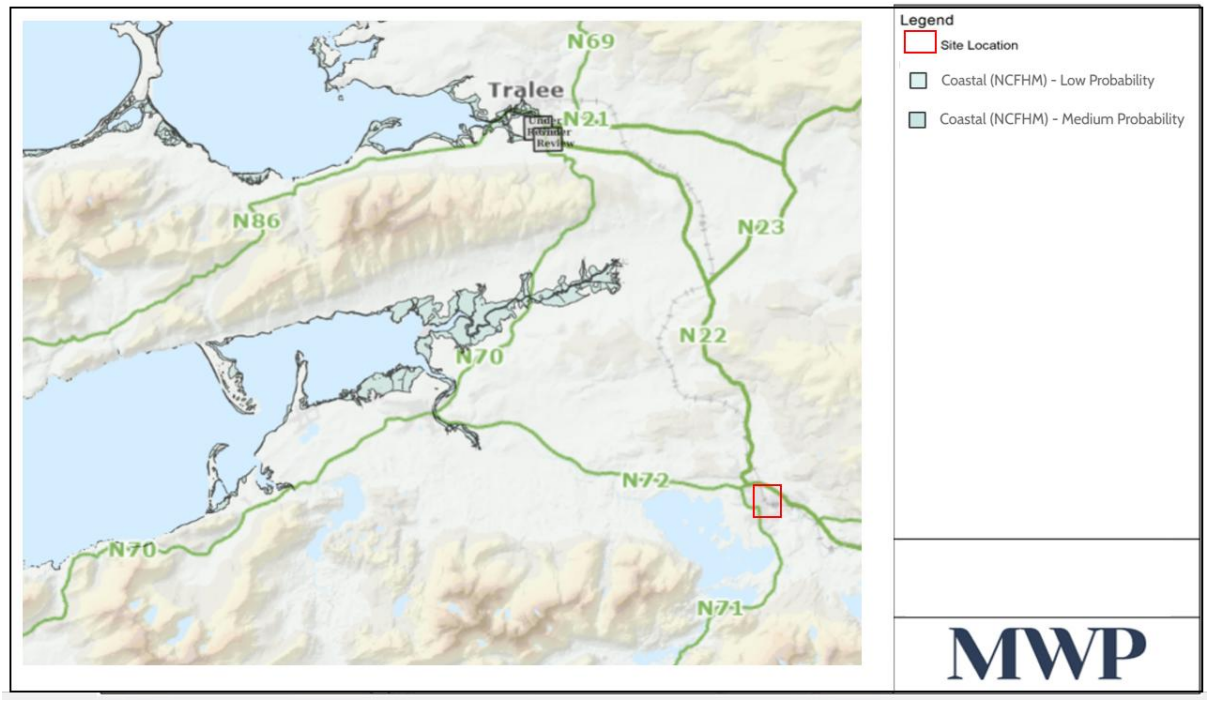


Figure 2-3: National Indicative Coastal Mapping

2.3 Killarney Municipal District Settlements Plan 2025 Strategic Flood Risk Assessment

Kerry County Council carried out a Strategic Flood Risk Assessment (SFRA) in June 2025. The SFRA has been prepared in accordance with the requirements of the Department of Environment Housing Local Government and OPW Planning Guidelines "*The Planning System and Flood Risk Management*". These guidelines were issued under the Planning and Development Act 2000 and recognise the significance of proper planning to manage flood risk.

Under the "*Planning System and Flood Risk Management*" guidelines, the purpose for the SFRA is detailed as being "*to provide a broad (wide area) assessment of all types of flood risk to inform strategic land-use planning decisions*". SFRA's enable the Local Authority to undertake the sequential approach, including the Justification Test, allocate appropriate sites for development and identify how flood risk can be reduced as part of the development plan process. The Killarney Municipal District Settlements Plan will be the key document for setting out a vision for the development of Killarney during the plan period. It is important that the proposed Settlements Plan complies with the requirements of the document "*The Planning System and Flood Risk Management Guidelines for Planning Authorities*" (OPW/DoEHLG, 2009) which states that flood risk management should be integrated into spatial planning policies at all levels to enhance certainty and clarity in the overall planning process. In order to ensure that flood risk is integrated into the Settlement Plan the main requirements of the SFRA are to:

- To provide for an improved understanding of flood risk issues within the plan and development management process, and to communicate this to a wide range of stakeholders;
- To produce an assessment of existing flood defence infrastructure and the consequences of failure of that infrastructure and also identification of areas of natural floodplain to be safeguarded;
- To produce a suitably detailed flood risk assessment, drawing on and extending existing data and information, leading to a suite of flood risk policies and objectives and, where appropriate, maps that support the application of the sequential approach, in key areas where there may be tension between development pressures and avoidance of flood risk;
- To inform, where necessary, the application of the Justification Test;
- To conclude whether measures to deal with flood risks to the area proposed for development can satisfactorily reduce the risks to an acceptable level while not increasing flood risk elsewhere, and
- •To produce guidance on mitigation measures on how surface water should be managed and appropriate criteria to be used in the review of site specific flood risk assessments

According to the Killarney Municipal District Settlements Plan Strategic Flood Risk Assessment, the proposed development has been designated as "Proposed Residential" space The SFRA notes that the Killarney Flood Relief Scheme flood zones were used for Plan Making under the SFRA.

The site is in Zone C for both fluvial and coastal flooding.

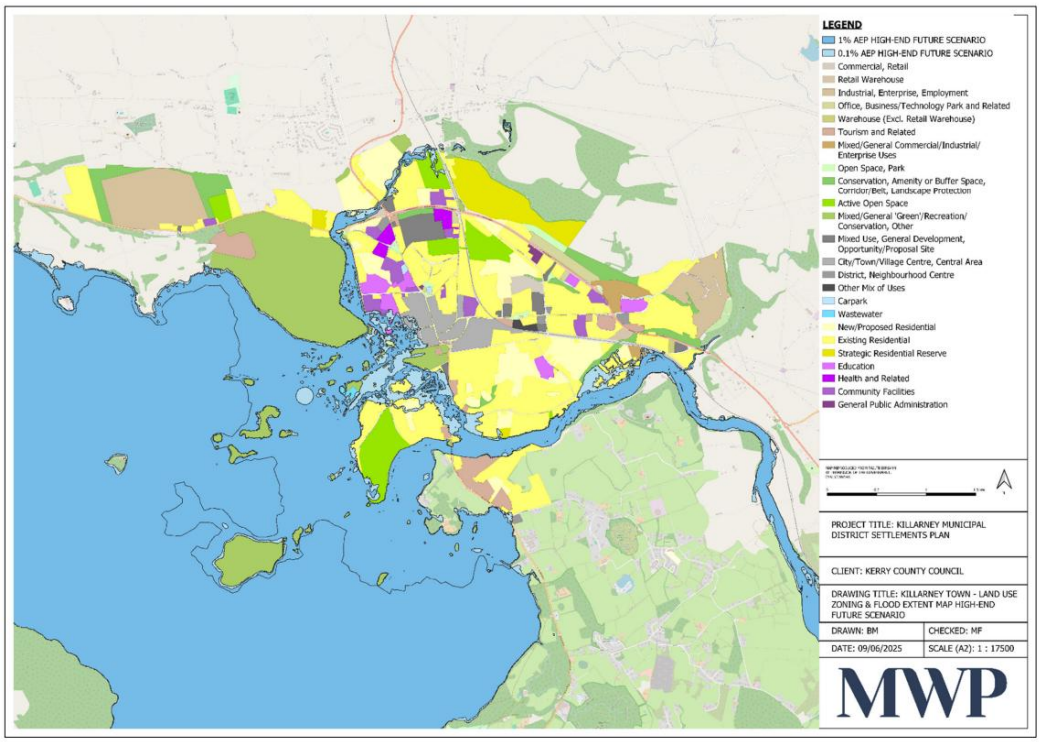


Figure 2-4: Land Use Zoning and Fluvial Flood Zone Map (Killarney)

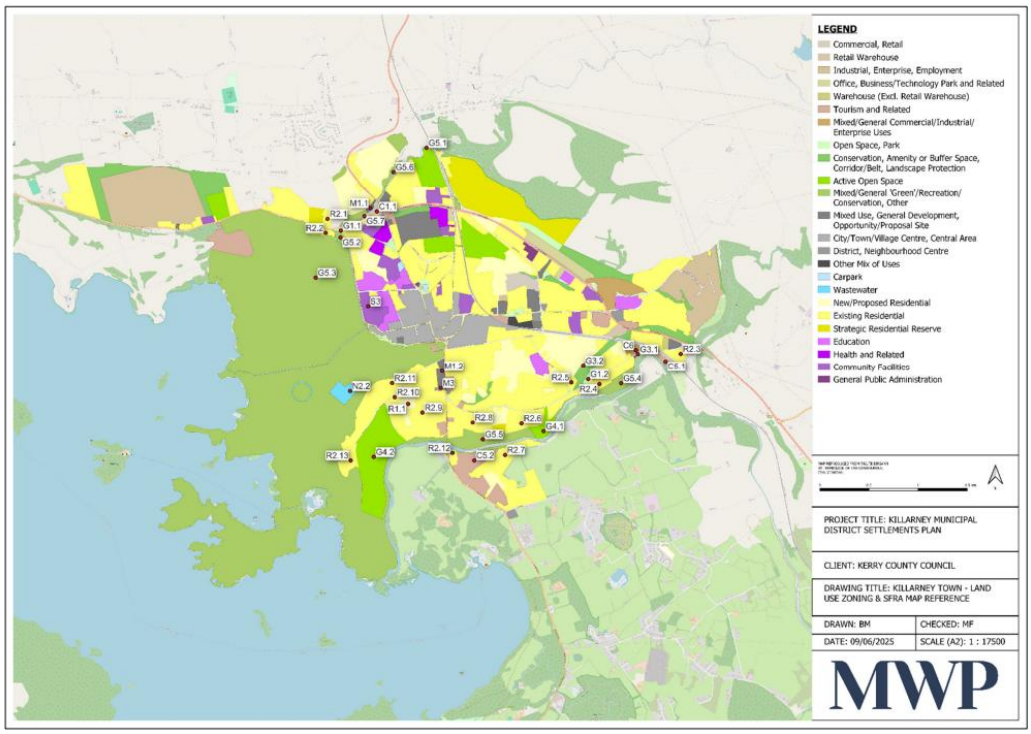


Figure 2-4: Killarney Strategic Flood Risk Assessment Map

2.4 Walkover Survey

A site walkover was conducted by MWP on the 6th of May 2025. The site is a greenfield site surrounded by a commercial area.

2.5 Topographic Survey

The site topography ranges from approximately 44 metres above ordnance datum (AOD) at the north of the site to approximately 42 metres AOD at the southern end of the site. The full site topography is attached in Appendix B.

3. Conclusions and Recommendations

The flood risk assessment has identified that the site is in Flood Zone C, as defined in the Flood Risk Management Guidelines. The proposed uses are justified based on existing zoning and the SFRA conducted for the Kerry County Development Plan.

The following recommendations are advised to be incorporated into the design:

- Finished Floor Levels to be 150mm above adjacent ground level to minimise risk of surface water ingress.
- Stormwater drainage to cater for the rainfall runoff within the site in accordance with the Development Plan.

Appendix A

Site Layout Plan



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   GEOID: OSGM15
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LEGEND

- SITE BOUNDARY
- PROPOSED FLUSH KERB
- PROPOSED 15mm DROP KERB
- PROPOSED 125mm UPSTAND BULLNOSE KERB
- SITE OWNERSHIP BOUNDARY
- PROPOSED RETAINING WALL
- PROPOSED 1.8m HIGH BLOCK WALL
- PROPOSED ACCESS ROAD
- PROPOSED CONCRETE FOOTPATH
- PAVING
- GRASS
- BUILDING
- HOMEZONE AREA
- PARKING AREA
- GRASSCRETE

REV	DATE	DESCRIPTION	BY	APP
P03	29.09.26	ISSUED FOR INFORMATION	P.V.	I.B.
P02	14.09.26	ISSUED FOR INFORMATION	P.V.	I.B.
P01	12.03.26	ISSUED FOR INFORMATION	P.V.	I.B.

PROJECT: DEERPARK HOUSING

TITLE: OVERALL SITE LAYOUT

CLIENT: ROSS-PARK RESIDENTIAL HS LIMITED

MWP
ENGINEERING AND ENVIRONMENTAL CONSULTANTS
CORK | TRALEE | LONDON | LIMERICK
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DRAWN:	CHECKED:	APPROVED:
P.V.	S.H.	I.B.
PROJECT NUMBER: 25123	DATE: MAR 2026	SCALE @ A1: 1:500

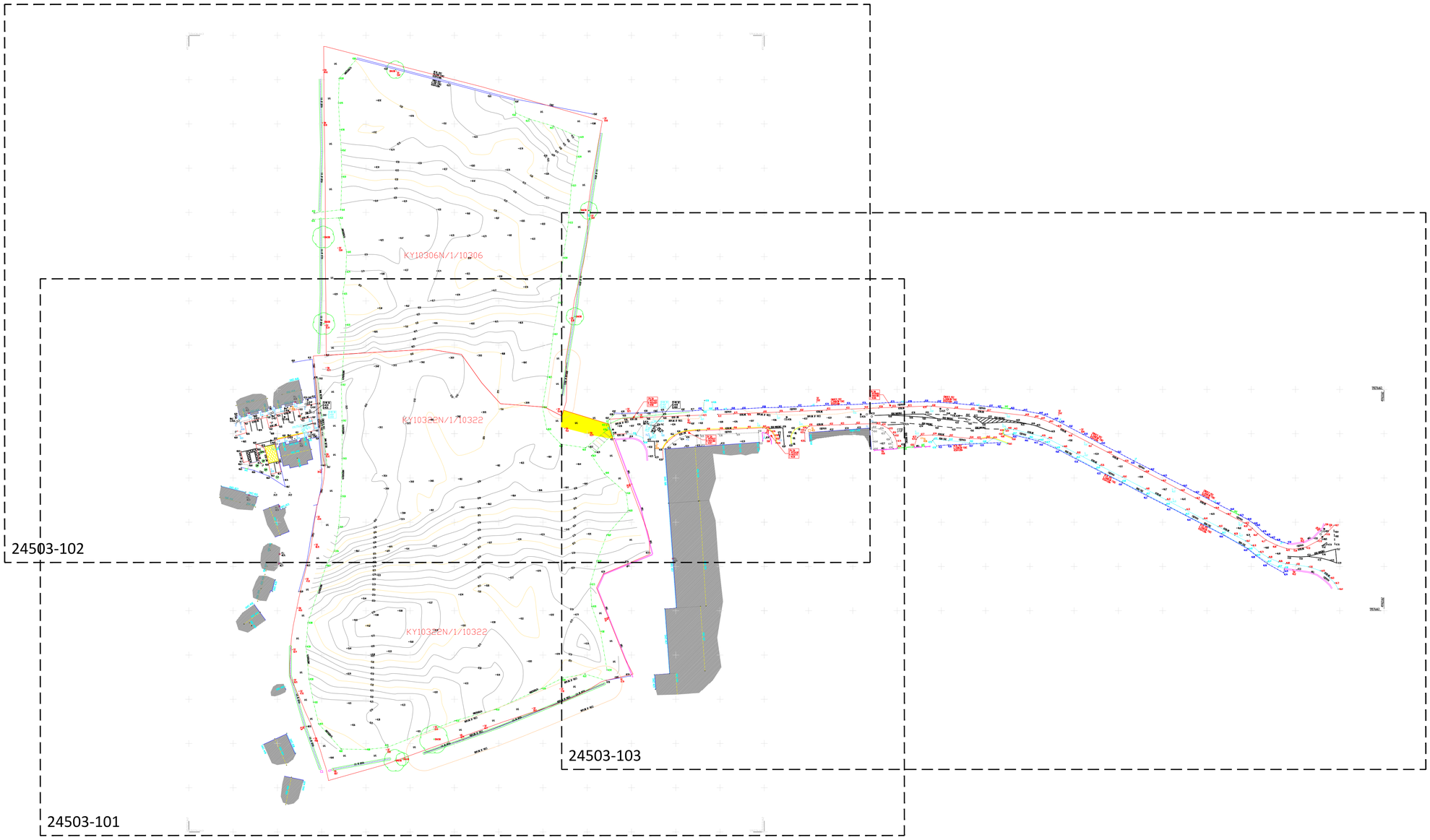
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Appendix B

Site Topographical Survey



Topographical Survey

Scale 1:1000

ITM Grid

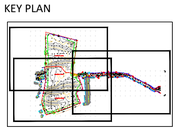
0 20m 40m 60m

1:1000

SURVEY NOTES

1. All levels are related to Malin Head Datum (OSGM15)
2. All dimensions are in meters unless otherwise stated.
3. any descripencies in the survey should be reported to Geodata Surveying Ltd immediately.
4. Do not scale, this shall only be permitted in digital form.
5. Grid is 20m x 20m

KEY PLAN



ABBREVIATIONS

AJ	ARMSTRONG JUNCTION	CATV	CABLE TV COVER	ESB	ELECTRIC INSP COVER	G=	GIRTH	O/H	OVER HEAD LINE	SS	SECURITY SYSTEM	U/G	UNDERGROWTH		
AR	ASSUMED ROUTE	CB	CONTROL BOX	EP	ELECTRICITY STANDARD	GIP	GAS INLET PIPE	OS	OUTSIDE SURVEY AREA	ST	STAY WIRE	UT	UTILITY INSP CHAMBER		
AV	AIR VALVE	CL	COVER LEVEL	ER	EARTH ROD	GAS	GAS VALVE	PG	SKATE OUT PEG	TDM	TEMPORARY BENCH MARK	VP	VENT PIPE		
AN	ANTENNA	CL:	CEILING SOFFIT OS DATUM	FA	FIRE ALARM SYSTEM	IC	INSP CHAMBER	PI	METAL PIN/POST	TEL	TELECOM INSP	VT	VENT		
BD	BACKDROP	Cpst	CAMERA POST	FB	FOOTBRIDGE	IL	INVERT LEVEL	RWDP	RAIN WATER DOWN PIPE	TL	TRAFFIC LIGHT	UTF	UNABLE TO LIFT		
BL	BED LEVEL	CulP	CULVERT PIPE	F/C	FLOOR TO CILL HEIGHT	IP	INLET PIPE	RO	ROCK OUTCROP	TP	TELECOM POLE	UTR	UNABLE TO ROD		
BH	BOREHOLE	d	DEPTH	F/H	FLOOR TO HEAD HEIGHT	LF	LIGHT FITTING	SWL	SURFACE WATER LEVEL	TOF	TOP OF FENCE	UTS	UNABLE TO SURVEY		
Bin	LITTER / GRIT SALT BIN	DH	DOOR HEIGHT	FH	FIRE HYDRANT	LP	LAMP STANDARD	STN	CONTROL STATION	TOD	TOP OF DITCH	UTT	UNABLE TO TRACE		
BO	BOLLARD	DIA	DIAMETER	FFL	FLOOR LEVEL	ME	MECHANICAL EQUIP	STP	SOIL STACK	TOW	TOP OF WALL	U/S	UPSTAND		
BP	BOUNDARY POST	DS	DIRECTION SIGN	FS	FLAG STAFF/ POLE	MH	MANHOLE	SV	SLUICE VALVE	TOT	TOP OF TREE	WM	WATER METER		
BS	BUS STOP	EE	ELECTRICAL EQUIPMENT	G	GULLY	MP	MINI PILLAR	SC	STOP COCK	UB	BEAM SOFFIT OS DATUM	WO	WASH OUT VALVE		

Materials

1. METAL CLADDING
2. ROOF SLATE
3. ROOF TILES
4. ASBESTOS
5. MEMBRANE
6. RENDER
7. STONE
8. BRICK
9. TIMBER
10. DASHED RENDER
11. BLOCKWORK
12. CONCRETE

Rev	Date	Description	Drn By	Ckd By
02	09-06-26	Topographical Survey	ML	KOB
01	23-07-24	Topographical Survey	LK	KOB

RICS

SOCIETY OF CHARTERED SURVEYORS IRELAND

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Client: Vision Contracting

Rev. 02

Project: Deer Park, Killarney, Co. Kerry.

Job No: 24503 Dwg. No: 100


Title: Topographical Survey 2D

Drawn By: ML

Checked By: ML

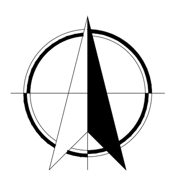
Date: 09-06-26 Sheet: A1 Scale: 1-1000

Approved By: KOB



Topographical Survey

Scale 1:1000



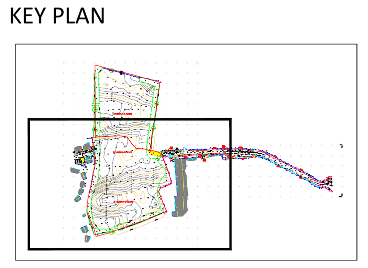
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1:500

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AV	AIR VALVE	CL	COVER LEVEL	ER	EARTH ROD	GAS	GAS VALVE	PG	SKATE OUT PEG	TDM	TEMPORARY BENCH MARK	VP	VENT PIPE
AN	ANTENNA	CL:	CEILING SOFFIT OS DATUM	FA	FIRE ALARM SYSTEM	IC	INSP CHAMBER	PI	METAL PIN/POST	TEL	TELECOM INSP	VT	VENT
BD	BACKDROP	Cpst	CAMERA POST	FB	FOOTBRIDGE	IL	INVERT LEVEL	RWDP	RAIN WATER DOWN PIPE	TL	TRAFFIC LIGHT	UTF	UNABLE TO LIFT
BL	BED LEVEL	CulP	CULVERT PIPE	F/C	FLOOR TO CILL HEIGHT	IP	INLET PIPE	RO	ROCK OUTCROP	TP	TELECOM POLE	UTR	UNABLE TO ROD
BH	BOREHOLE	d	DEPTH	F/H	FLOOR TO HEAD HEIGHT	LF	LIGHT FITTING	SWL	SURFACE WATER LEVEL	TOF	TOP OF FENCE	UTS	UNABLE TO SURVEY
Bin	LITTER / GRIT SALT BIN	DH	DOOR HEIGHT	FH	FIRE HYDRANT	LP	LAMP STANDARD	STN	CONTROL STATION	TOD	TOP OF DITCH	UTT	UNABLE TO TRACE
BO	BOLLARD	DIA	DIAMETER	FFL	FLOOR LEVEL	ME	MECHANICAL EQUIP	STP	SOIL STACK	TOW	TOP OF WALL	U/S	UPSTAND
BP	BOUNDARY POST	DS	DIRECTION SIGN	FS	FLAG STAFF/ POLE	MH	MANHOLE	SV	SLUICE VALVE	TOT	TOP OF TREE	WM	WATER METER
BS	BUS STOP	EE	ELECTRICAL EQUIPMENT	G	GULLY	MP	MINI PILLAR	SC	STOP COCK	UB	BEAM SOFFIT OS DATUM	WO	WASH OUT VALVE

Materials

1. METAL CLADDING
2. ROOF SLATE
3. ROOF TILES
4. ASBESTOS
5. MEMBRANE
6. RENDER
7. STONE
8. BRICK
9. TIMBER
10. DASHED RENDER
11. BLOCKWORK
12. CONCRETE

Rev	Date	Description	Drn By	Ckd By
02	09-06-26	Topographical Survey	ML	KOB
01	23-07-2024	Topographical Survey	LK	KOB

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Client: Vision Contracting

Rev. 02

Project: Deer Park, Killarney, Co. Kerry.

Job. No: 24503 Dwg. No: 101

Title: Topographical Survey 2D

Drawn By: ML

Checked By: ML

Date: 09-06-26 Sheet: A1 Scale: 1-500 Approved By: KOB



Topographical Survey

Scale 1:1000

SURVEY NOTES

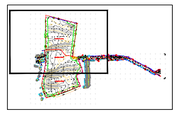
1. All levels are related to Malin Head Datum (OSGM15)
2. All dimensions are in meters unless otherwise stated.
3. any descripencies in the survey should be reported to Geodata Surveying Ltd immediately.
4. Do not scale, this shall only be permitted in digital form.
5. Grid is 20m x 20m

ITM Grid

0 10m 20m 30m

1:500

KEY PLAN



ABBREVIATIONS

AJ	ARMSTRONG JUNCTION	CATV	CABLE TV COVER	ESB	ELECTRIC INSP COVER	G=	GIRTH	O/H	OVER HEAD LINE	SS	SECURITY SYSTEM	U/G	UNDERGROWTH
AR	ASSUMED ROUTE	CB	CONTROL BOX	EP	ELECTRICITY STANDARD	GIP	GAS INLET PIPE	OS	OUTSIDE SURVEY AREA	ST	STAY WIRE	UT	UTILITY INSP CHAMBER
AV	AIR VALVE	CL	COVER LEVEL	ER	EARTH ROD	GAS	GAS VALVE	PG	SKATE OUT PEG	TDM	TEMPORARY BENCH MARK	VP	VENT PIPE
AN	ANTENNA	CL:	CEILING SOFFIT OS DATUM	FA	FIRE ALARM SYSTEM	IC	INSP CHAMBER	PI	METAL PIN/POST	TEL	TELECOM INSP	VT	VENT
BD	BACKDROP	Cpst	CAMERA POST	FB	FOOTBRIDGE	IL	INVERT LEVEL	RWDP	RAIN WATER DOWN PIPE	TL	TRAFFIC LIGHT	UTF	UNABLE TO LIFT
BL	BED LEVEL	CulP	CULVERT PIPE	F/C	FLOOR TO CILL HEIGHT	IP	INLET PIPE	RO	ROCK OUTCROP	TP	TELECOM POLE	UTR	UNABLE TO ROD
BH	BOREHOLE	d	DEPTH	F/H	FLOOR TO HEAD HEIGHT	LF	LIGHT FITTING	SWL	SURFACE WATER LEVEL	TOF	TOP OF FENCE	UTS	UNABLE TO SURVEY
Bin	LITTER / GRIT SALT BIN	DH	DOOR HEIGHT	FH	FIRE HYDRANT	LP	LAMP STANDARD	STN	CONTROL STATION	TOD	TOP OF DITCH	UTT	UNABLE TO TRACE
BO	BOLLARD	DIA	DIAMETER	FFL	FLOOR LEVEL	ME	MECHANICAL EQUIP	STP	SOIL STACK	TOW	TOP OF WALL	U/S	UPSTAND
BP	BOUNDARY POST	DS	DIRECTION SIGN	FS	FLAG STAFF/ POLE	MH	MANHOLE	SV	SLUICE VALVE	TOT	TOP OF TREE	WM	WATER METER
BS	BUS STOP	EE	ELECTRICAL EQUIPMENT	G	GULLY	MP	MINI PILLAR	SC	STOP COCK	UB	BEAM SOFFIT OS DATUM	WO	WASH OUT VALVE

Materials

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Rev	Date	Description	Drn By	Ckd By
02	09-06-26	Topographical Survey	ML	KOB
01	23-07-2024	Topographical Survey	LK	KOB

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Client: Vision Contracting

Rev: 02

Project: Deer Park, Killarney, Co. Kerry.

Job. No: 24503

Dwg. No: 102

Title: Topographical Survey 2D

Drawn By: ML


Checked By: ML

Date: 09-06-26

Sheet: A1

Scale: 1-500

Approved By: KOB



Topographical Survey

Scale 1:1000

SURVEY NOTES

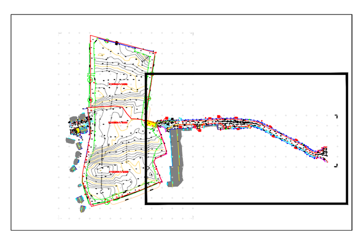
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ITM Grid

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1:500

KEY PLAN



ABBREVIATIONS

AJ	ARMSTRONG JUNCTION
AR	ASSUMED ROUTE
AV	AIR VALVE
AN	ANTENNA
BD	BACKDROP
BL	BED LEVEL
BH	BOREHOLE
Bin	LITTER / GRIT SALT BIN
BO	BOLLARD
BP	BOUNDARY POST
BS	BUS STOP
CATV	CABLE TV COVER
CB	CONTROL BOX
CL	COVER LEVEL
CL:	CEILING SOFFIT OS DATUM
Cpst	CAMERA POST
CulP	CULVERT PIPE
d	DEPTH
DH	DOOR HEIGHT
DIA	DIAMETER
DS	DIRECTION SIGN
EE	ELECTRICAL EQUIPMENT
ESB	ELECTRIC INSP COVER
EP	ELECTRICITY STANDARD
ER	EARTH ROD
FA	FIRE ALARM SYSTEM
FB	FOOTBRIDGE
F/C	FLOOR TO CILL HEIGHT
F/H	FLOOR TO HEAD HEIGHT
FH	FIRE HYDRANT
FFL	FLOOR LEVEL
FS	FLAG STAFF/ POLE
G	GULLY
G=	GIRTH
GIP	GAS INLET PIPE
GAS	GAS VALVE
IC	INSP CHAMBER
IL	INVERT LEVEL
IP	INLET PIPE
LF	LIGHT FITTING
LP	LAMP STANDARD
ME	MECHANICAL EQUIP
MH	MANHOLE
MP	MINI PILLAR
O/H	OVER HEAD LINE
OS	OUTSIDE SURVEY AREA
PG	SKATE OUT PEG
PI	METAL PIN/POST
RWDP	RAIN WATER DOWN PIPE
RO	ROCK OUTCROP
SWL	SURFACE WATER LEVEL
STN	CONTROL STATION
STP	SOIL STACK
SV	SLUICE VALVE
SC	STOP COCK
SS	SECURITY SYSTEM
ST	STAY WIRE
TDM	TEMPORARY BENCH MARK
TEL	TELECOM INSP
TL	TRAFFIC LIGHT
TP	TELECOM POLE
TOF	TOP OF FENCE
TOD	TOP OF DITCH
TOW	TOP OF WALL
TOT	TOP OF TREE
UB	BEAM SOFFIT OS DATUM
U/G	UNDERGROWTH
UT	UTILITY INSP CHAMBER
VP	VENT PIPE
VT	VENT
UTF	UNABLE TO LIFT
UTR	UNABLE TO ROD
UTS	UNABLE TO SURVEY
UTT	UNABLE TO TRACE
U/S	UPSTAND
WM	WATER METER
WO	WASH OUT VALVE

Materials

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Rev	Date	Description	Drn By	Ckd By
02	09-06-26	Topographical Survey	ML	KOB
01	23-07-2024	Topographical Survey	LK	KOB

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Client: Vision Contracting

Rev. 02

Project: Deer Park, Killarney, Co. Kerry.

Job. No: 24503 Dwg. No: 103

Title: Topographical Survey 2D

Drawn By: ML

Checked By: ML

Date: 09-06-26 Sheet: A1 Scale: 1-500

Approved By: KOB