

**KILLANNY/REAGHSTOWN GROUP WATER SCHEME
NETWORK UPGRADE**

**VOLUME E
INFORMATION PACK**



JULY 2026

Volume E – Information Pack

Contents:

1. Volume E1 - Preliminary Safety & Health Plan
2. Volume E2 - Site Investigation Report
3. Volume E3 - Existing Utility Services
 - ESB
 - Eircom
 - GWS Watermains

Volume E1 - Preliminary Safety & Health Plan

PRELIMINARY SAFETY & HEALTH PLAN

This Preliminary Safety and Health Plan has been prepared in accordance with Article 12(1)(a) of SI 291 of 2013 of the Safety, Health and Welfare at Work (Construction) Regulations 2013.

1 GENERAL DESCRIPTION OF PROJECT

1.1 Project Name :

Killanny/Reaghstown GWS – Network Upgrade

1.2 Project Reference:

26010

1.3 Client:

Killanny/Reaghstown GWS

1.4 Project Supervisor Appointed for Design Process:

T.J.O'Connor & Associates

1.5 Project Description:

This contract is designed to provide for the construction of 6,100m of new 110mm O.D. distribution mains and all associated works.

1.6 Site Location

Killanny & Drumboory, Carrickmacross, Co. Monaghan

1.7 Drawings/Specifications

- Instructions to Tenderers
- Volume A: Works Requirements consisting of:
 - Volume A1: Book of Drawings
 - Volume A2: Specification for Civil Engineering Works
- Volume B: Form of Tender and Schedules
- Volume C: Pricing Document
- Volume D: Conditions of Contract & Model Forms
- Volume E: Information Pack
- Pre-Qualification Questionnaire

Intended Contract Commencement Date

September 2026*

1.9 Intended Contract Completion Date

December 2026*

1.10 Basis for Timeframe

The anticipated timeframe for the Works is 18 weeks, which is inclusive of an allowance of up to 3 weeks for Road Opening Licence application duration. It has been assumed that at least 50 - 75m per day is achievable with horizontal directional drilling, or trench excavation, including allowance for chambers, testing, etc. In parallel, a second crew can be following with valve installation and

consumer connections which can all be completed safely within the specified timeframe.

1.11 Site for Contractors and Engineers Representatives Accommodation

The Contractor will make arrangements for his own office and welfare accommodations.

**Note: The intended commencement and completion dates advised above are provisional and pending confirmation by the Project Supervisor Construction Stage that the timeframes are practicable.*

2 KNOWN EXISTING ENVIRONMENT AND ANY RELATED RESTRICTIONS

2.1 Known Existing Underground Services

The presence of Eircom rural fibre broadband cables are noted on the existing utilities drawings contained in Volume E.

The Contractor is advised to consult with all relevant authorities to ascertain the most up to date details prior to start of any construction works and to carry out further site investigations as deemed necessary to confirm the presence or otherwise of other underground services.

2.2 Known Existing Overground Services (Visible or Hidden)

The presence of electricity supply cables are noted on the existing utilities drawings contained in Volume E.

2.3 Known Available Drawings or Safety File Prepared for Any Existing Structures

None available

2.4 Restrictions of Working Hours

Normal working hours shall be 08:00 to 18:00 Monday to Friday and 08:00 to 13:00 on Saturdays. Otherwise works shall only be permitted outside these hours with the written permission of the Engineer.

2.5 Relevant Adjoining Land Uses

Amenity, commercial, residential, and agricultural

2.6 Restrictions and difficulties Concerning Site Access, Layout, etc.

Some works are to be completed on narrow single lane roads.

2.7 Restrictions relating to surrounding Land Uses

None Known

2.8 Restrictions Relating to Phasing of Works

Timing constraints and phasing requirements are detailed in the Specification.

2.9 Any Other Known Restrictions

Refer to Section 2.2 of the Specification for noise, vibration, settlement and dust limits.

Otherwise, none that would not be evident and reasonably deducible from drawings or other support documentation to a competent Project Supervisor (Construction Stage)

3 SITE OCCUPATION OR WORK ACTIVITIES BY THE CLIENT OR OTHERS

3.1 General Details of Site Occupation (if partly or fully occupied) by the Client or Others

The works are to be completed within Public Roads.

3.2 Other contracts which may affect the Works

- Routine maintenance of sewers and drains by Local Authority / landowners
- Road maintenance works on roadways and footpaths by TII / Local Authority

- Diversion and other works on their services by the various service authorities.

4 INFORMATION ON THE PRESENCE OF PARTICULAR RISKS TO SAFETY & HEALTH

The following is the non exhaustive list of particular risks to the safety and health of persons as set out in Schedule 1 of SI 291 of 2013, together with the opinion of the Project Supervisor for Design Process on what elements if any of the works may fall within each particular risk category. It should be noted that many of the risks on the project may arise out of working methods which are at the discretion of the Contractor and as such cannot be determined by the Project Supervisor for Design Process.

4.1 *Works which puts persons at work at risk of burial under earthfalls, engulfment in swampland or falling from a height, where the risk is particularly aggravated by the nature of the work or processes used or by the environment at the place of work or site:*

4.1.1 Falling from a height As far as it is known, the project does not involve any particular risks beyond what would be regarded as normal risks. These risks include:

- Deep excavations along pipe trench routes
- Deep excavations at directional drilling pits and valve chamber construction

-

4.1.2 Burial Under Earthfalls As far as it is known, the project does not involve any particular risks beyond what would be regarded as normal risks. These risks include :

Deep excavations along pipe trench routes and valve chamber construction

4.1.3 Engulfment in Swampland As far as it is known, the works associated with the Project do not involve any particular risks beyond those which would be considered normal risks arising from such activities.

4.2 *Work which puts persons at risk from chemical or biological substances constituting a particular danger to the safety and health of such persons or involving a statutory requirement for health monitoring:*

None Known

4.3 *Work with ionising radiation requiring the designation of controlled or supervised areas as defined in Directive 92/29/Euratom*

None known

4.4 *Work near high voltage power lines*

Electricity supply cables - overground and underground high and low voltage cables are evident throughout the site. Information of existing underground and overhead services has been obtained and is included in Volume E as noted in Section 2 of this document.

Before commencing the works the Contractor must satisfy himself as to the location, number, type, etc. of all cables by means of consultation with the relevant authorities.'

4.4.1 *Works near Other Services*

The following services may be present throughout the site :

- Watermains
- Land-drains
- Masonry culverts
- Telecommunications lines and cables including co-axial and fibre optic cables

- Low voltage powerlines and cables

The Contractor shall satisfy himself as regards the location, size, type, etc. of any service by means of consultation with the relevant authorities and if necessary ensure that these have been isolated prior to commencing any works.

4.5 *Work exposing persons at work to the risk of drowning*

The following works will be carried out adjacent to / in watercourses :

- Deep excavations along pipe trench routes
- Deep excavations at valve chamber construction
- Excavations along pipeline routes crossing over culvert arches constructed at stream crossings.

Otherwise, as far as it is known, the works associated with the Project do not involve any particular risks beyond those which would be considered normal risks arising from such activities.

4.6 *Work on wells, underground earthwork and tunnels*

None known

4.7 *Work carried out by divers at work having a system of air supply*

None known

4.8 *Work carried out in a caisson with a compressed air atmosphere*

None known

4.9 *Work involving the use of explosives*

None known

4.10 *Work involving the assembly or dismantling of heavy prefabricated components.*

None known

5 CONTINUING LIAISON

5.1 *Procedures for Dealing with Unforeseen eventualities during the project execution resulting in substantial design change and which might affect particular risks, contract period, or have other safety and health liabilities*

It is proposed that HSA template for permanent design certificates and temporary design certificates will be utilized in this contract.

Any unforeseen eventualities that become apparent to the Contractor/PSCS that may necessitate a change to the permanent design must be communicated to the PSDP and Employers Representative immediately. The Contractor/PSCS shall provide detailed information of the occurrence.

Project Supervisor Design Process to assess and advise of any change and any further risk considerations arising from the occurrence.

5.2 *Procedure for considering the safety and health implications of design elements and where appropriate communicating these to the Project Supervisor (Construction Stage)*

Discussion at site meetings of any issues arising, leading where necessary to further consideration as per 5.1 above.

6 THE DESIGN RESPONSIBILITIES

6.1 *The Client*

Killanny/Reaghstown Group Water Scheme

6.2 *The Civil Engineering Consultant*

T.J.O'Connor & Associates

6.3 *The Main Contractor*

TBC

7 DECLARATION OF T.J.O'CONNOR & ASSOCIATES

The information contained in this Preliminary Safety and Health Plan has been prepared prior to the commencement of the work on site. It does not take account of any matters or information which may come to light after that time.

Date: 03/07/2026

Volume E2 - Site Investigation Report



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Ground Investigations Ireland

Killanny Reaghstown GWS

TJ O'Connor

Ground Investigation Report

July 2026

Directors:

Fergal McNamarra, Conor Finnerty, Barry Sexton, Stephen Kealy and Micheal Sutton
Ground Investigations Ireland Limited | Registered in Ireland Company Registration No.: 405726



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DOCUMENT CONTROL SHEET

Project Title	Killanny Reaghstown GWS
Engineer	TJ O'Connor
Client	Killanny & Reaghstown GWS
Project No	15455-03-26
Document Title	Ground Investigation Report

Rev.	Status	Author(s)	Reviewed By	Approved By	Office of Origin	Issue Date
B	Final	J Ince	D Maghloclainn	S Kealy	Dublin	07 July 2026
A	Final	J Ince	D Maghloclainn	S Kealy	Dublin	24 June 2026

Ground Investigations Ireland Ltd. present the results of the fieldworks and laboratory testing in accordance with the specification and related documents provided by or on behalf of the client. The possibility of variation in the ground and/or groundwater conditions between or below exploratory locations or due to the investigation techniques employed must be taken into account when this report and the appendices inform designs or decisions where such variation may be considered relevant. Ground and/or groundwater conditions may vary due to seasonal, man-made or other activities not apparent during the fieldworks and no responsibility can be taken for such variation. The data presented and the recommendations included in this report and associated appendices are intended for the use of the client and the client's geotechnical representative only and any duty of care to others is excluded unless approved in writing.



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CONTENTS

1.0	Preamble.....	1
2.0	Overview.....	1
2.1.	Background.....	1
2.2.	Purpose and Scope	1
3.0	Subsurface Exploration	1
3.1.	General	1
3.2.	Trial Pits.....	1
3.3.	Surveying	2
3.4.	Laboratory Testing	2
4.0	Ground Conditions	2
4.1.	General	2
4.2.	Groundwater	3
4.3.	Laboratory Testing	Error! Bookmark not defined.
4.3.1.	Rock Laboratory Testing	Error! Bookmark not defined.

APPENDICES

Appendix 1	Site Location Plan
Appendix 2	Trial Pit Records
Appendix 3	Laboratory Testing



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1.0 Preamble

On the instructions of TJ O'Connor Engineers, a site investigation was carried out by Ground Investigations Ireland Ltd., between April and May 2026 at the site of the proposed watermain upgrade in Killanny Reaghstown, Co Monaghan and Co Louth.

2.0 Overview

2.1. Background

It is proposed to upgrade the existing watermain along 2 No. routes in the area. The site is currently greenfield and consists of numerous fields of agricultural use.

2.2. Purpose and Scope

The purpose of the site investigation was to investigate subsurface conditions utilising a variety of investigative methods in accordance with the project specification. The scope of the work undertaken for this project included the following:

- Visit project site to observe existing conditions
- Carry out 25 No. Trial Pits to a maximum depth of 2.50m BGL
- Carry out 5 No. Trial Pits in road margin to log road build-up
- Geotechnical Laboratory testing
- Factual Report

3.0 Subsurface Exploration

3.1. General

During the ground investigation a programme of intrusive investigation specified by the Consulting Engineer was undertaken to determine the sub surface conditions at the proposed site. Regular sampling and in-situ testing was undertaken in the exploratory holes to facilitate the geotechnical descriptions and to enable laboratory testing to be carried out on the soil samples recovered during excavation and drilling.

The procedures used in this site investigation are in accordance with Eurocode 7 Part 2: Ground Investigation and testing (ISEN 1997 – 2:2007) and B.S. 5930:2015.

3.2. Trial Pits

The trial pits were excavated using a JCB 3CX and 3.5T tracked excavator, and hand dug at the road margins at the locations shown in the exploratory hole location plan in Appendix 1. The locations were checked using a CAT scan to minimise the potential for encountering services during the excavation. The trial pits were sampled, logged and photographed by an Engineering Geologist prior to backfilling with

arisings. Notes were made of any services, inclusions, pit stability, groundwater encountered and the characteristics of the strata encountered and are presented on the trial pit logs which are provided in Appendix 2 of this Report.

3.3. Surveying

The exploratory hole locations have been recorded using a KQ GEO Technologies KQ-M8 System which records the coordinates and elevation of the locations to ITM or Irish National Grid as required by the project specification. The coordinates and elevations are provided on the exploratory hole logs in the appendices of this Report.

3.4. Laboratory Testing

Samples were selected from the exploratory holes for geotechnical testing to assist in the classification of any rock encountered and to provide information for the proposed design.

Rock strength testing including Point Load (Is_{50}) testing was carried out by Geosoils Geotechnical Laboratory.

The results of the laboratory testing are included in Appendix 3 of this Report.

4.0 Ground Conditions

4.1. General

The ground conditions encountered during the investigation are summarised below with reference to in-situ and laboratory test results. The full details of the strata encountered during the ground investigation are provided in the exploratory hole logs included in the appendices of this report.

The sequence of strata encountered were variable across the site and generally comprised;

- Topsoil/Surfacing
- Made Ground
- Granular Deposits
- Cohesive Deposits

TOPSOIL: Topsoil was encountered in the majority of the exploratory holes and was present to a maximum depth of 0.60m BGL. In the road build-up trial pits tarmac surfacing was present to a depth of 0.05m BGL.

MADE GROUND: Made Ground deposits were encountered in TPD-01, TPD-04, TPM-03, TPM-06, and Add TP02, and were present to a depth of between 0.20m and 1.30m BGL. These deposits were described as *greyish brown and brownish grey clayey sandy angular to subrounded fine to coarse Gravel with medium to high cobble content; grey slightly clayey sandy angular to subrounded fine to coarse Gravel with low*

cobble content; dark brown slightly sandy gravelly Clay with low cobble and boulder content and rare fragments of timber, plastic, metal and glass; dark greyish brown mottled dark grey slightly sandy slightly gravelly Clay with low cobble and boulder content and occasional fragments of timber, concrete, red brick, plastic, tile and rubbish packets.

Made Ground deposits were encountered in all road build-up trial pits and were described as *brownish grey and grey clayey sandy angular to subrounded fine to coarse Gravel with low to medium cobble content.*

COHESIVE DEPOSITS: Cohesive deposits were encountered in the majority of the exploratory holes and were described generally as *brown mottled grey, brown, yellowish brown, light brown, greyish brown slightly sandy slightly gravelly CLAY with low to medium cobble and low boulder content.* In TPM-08 *bluish grey mottled light brown slightly sandy slightly gravelly silty CLAY with organic matter and rootlets* and *bluish grey slightly sandy silty CLAY* deposits were encountered.

Cohesive deposits were encountered beneath the made ground in all road build-up trial pits and were described as *brown slightly sandy slightly gravelly CLAY with low cobble content.* The secondary sand and gravel constituents varied across the site and with depth, with granular lenses occasionally present in the cohesive matrix. These deposits had low (<5%), medium (5%-20%) or high (20%-50%) cobble and boulder content, where noted on the exploratory hole logs.

GRANULAR DEPOSITS: Granular deposits were encountered in TPD-03, TPD-04, TPD-05, TPD-06, TPD-07, TPD-09, TPD-11, TPD-12, TPM-01, TPM-03, and TPM-10, and were described as *brown, greyish brown clayey sandy angular to subrounded fine to coarse GRAVEL with low to medium cobble content and low boulder content* and *greyish brown and brownish grey clayey gravelly fine to coarse SAND with low to high cobble and low boulder content; brownish grey slightly clayey slightly gravelly fine to medium SAND.* The secondary sand/gravel and silt/clay constituents varied across the site with cohesive or coarse lenses occasionally present in the granular matrix. These deposits had low (<5%), medium (5%-20%) or high (20%-50%) cobble and boulder content, where noted on the exploratory hole logs.

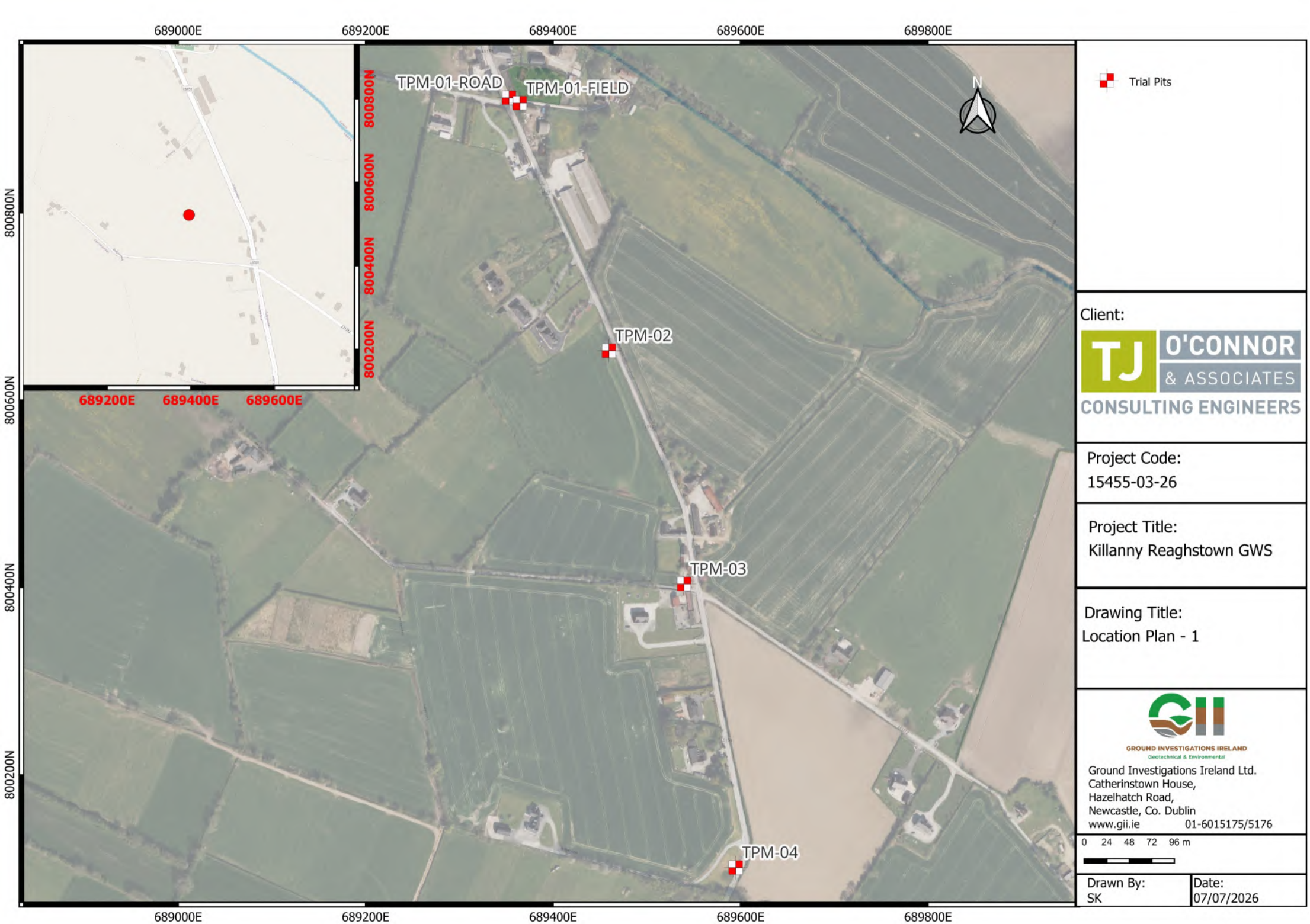
It should be noted that many of the trial pits where granular deposits or groundwater were encountered, experienced instability. This was described either as side wall spalling or as side wall collapse in the remarks section at the base of the trial pit logs.

4.2. Groundwater

Groundwater strikes are noted on the exploratory hole logs where they occurred and where possible excavation was suspended for twenty minutes to allow the subsequent rise in groundwater to be recorded. We would point out that these exploratory holes did not remain open for sufficiently long periods of time to establish the hydrogeological regime, and groundwater levels would be expected to vary with the tide, time of year, rainfall, nearby construction and other factors.

APPENDIX 1 - Site Location Plan





 Trial Pits

Client:

TJ

O'CONNOR

& ASSOCIATES

CONSULTING ENGINEERS

Project Code:
15455-03-26

Project Title:
Killanny Reaghstown GWS

Drawing Title:
Location Plan - 1

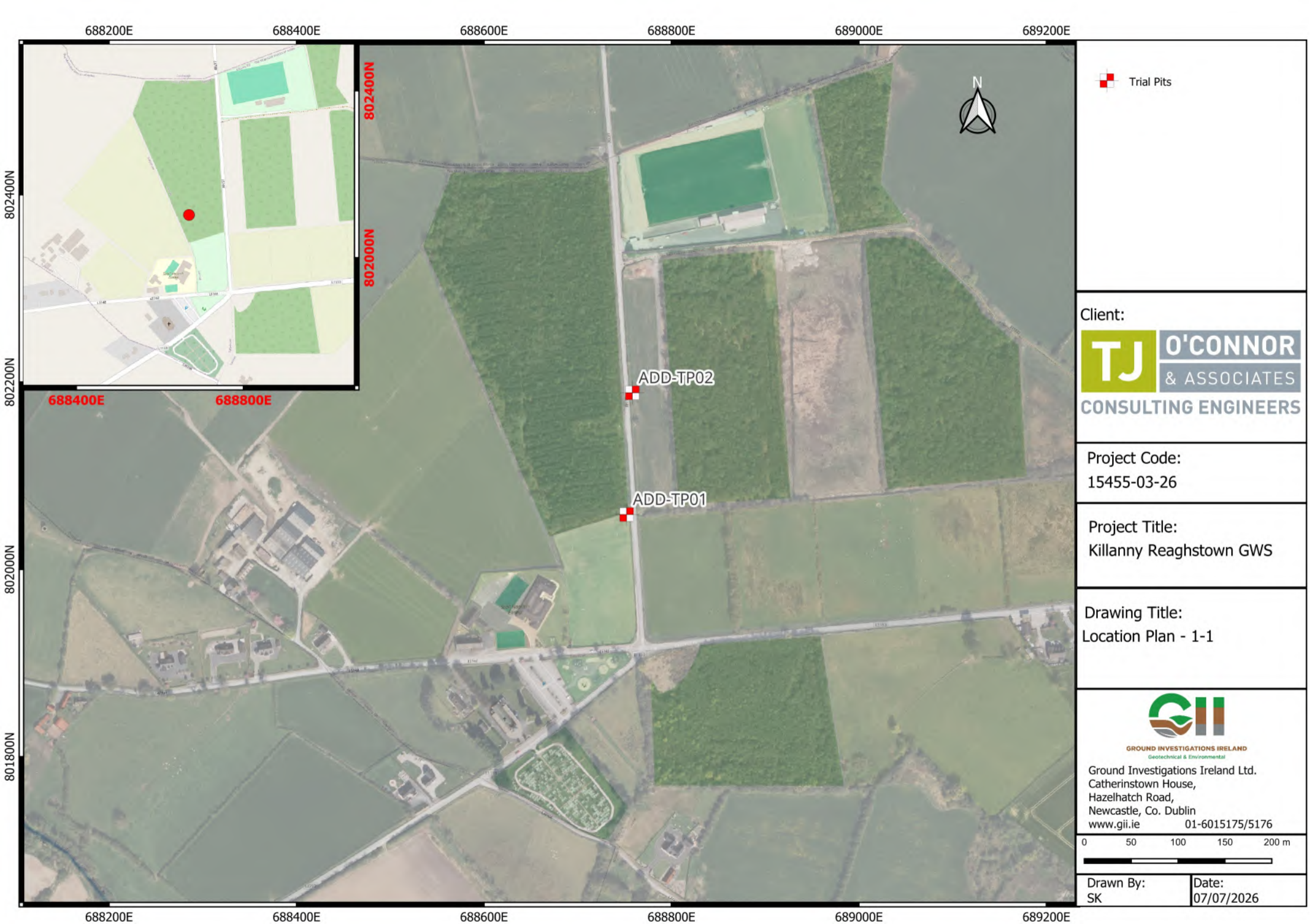


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0 24 48 72 96 m

Drawn By:
SK

Date:
07/07/2026



 Trial Pits

Client:

TJ

O'CONNOR
& ASSOCIATES
CONSULTING ENGINEERS

Project Code:
15455-03-26

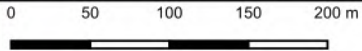
Project Title:
Killanny Reaghstown GWS

Drawing Title:
Location Plan - 1-1



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Date:
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 Trial Pits

Client:

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& ASSOCIATES
CONSULTING ENGINEERS

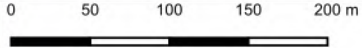
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15455-03-26

Project Title:
Killanny Reaghstown GWS

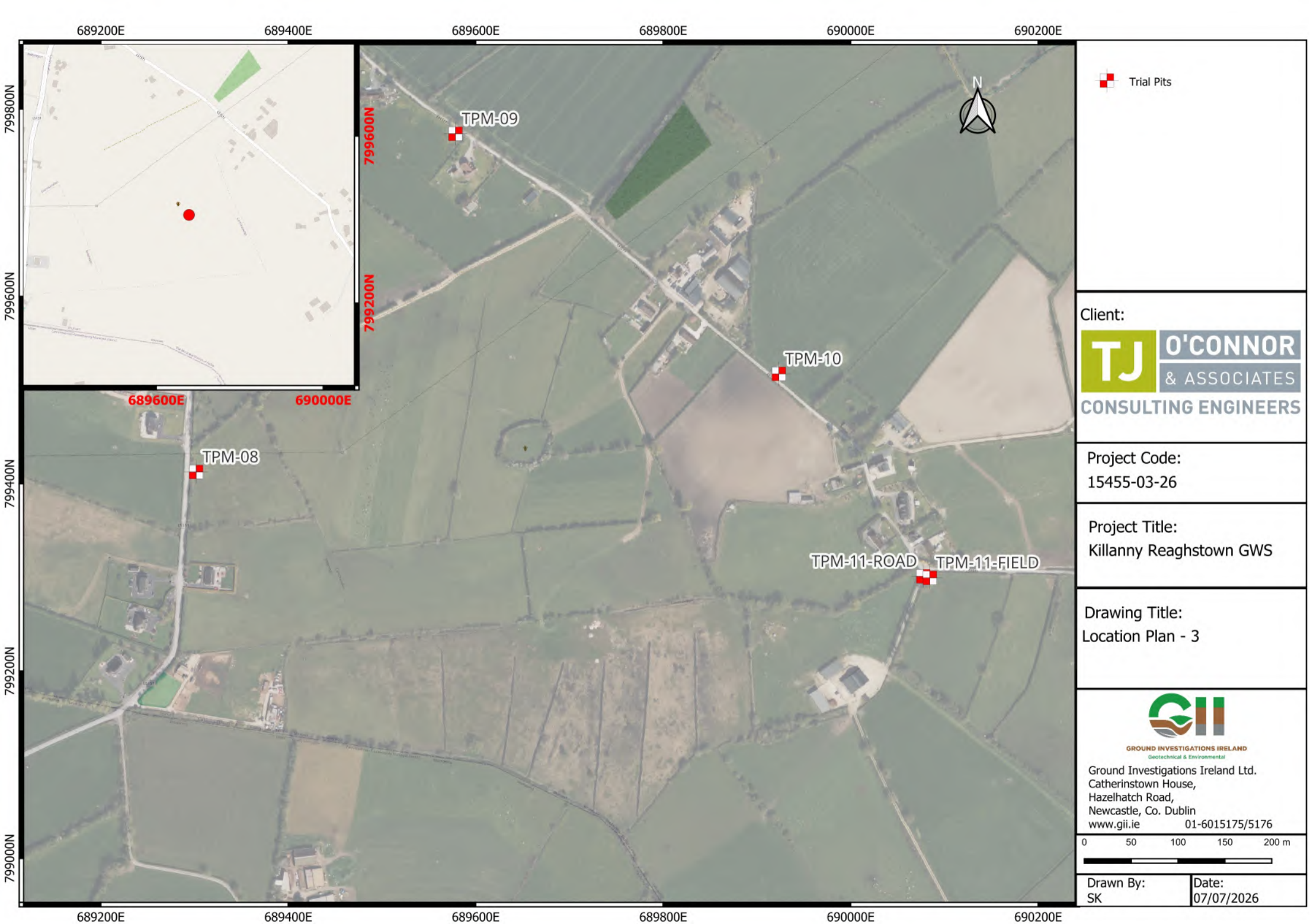
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Location Plan - 2



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 Trial Pits

Client:



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& ASSOCIATES
CONSULTING ENGINEERS

Project Code:
15455-03-26

Project Title:
Killanny Reaghstown GWS

Drawing Title:
Location Plan - 3



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Drawn By:
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Date:
07/07/2026



 Trial Pits

Client:

TJ **O'CONNOR**
& ASSOCIATES
CONSULTING ENGINEERS

Project Code:
15455-03-26

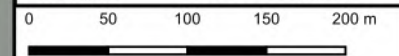
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Killanny Reaghstown GWS

Drawing Title:
Location Plan - 4

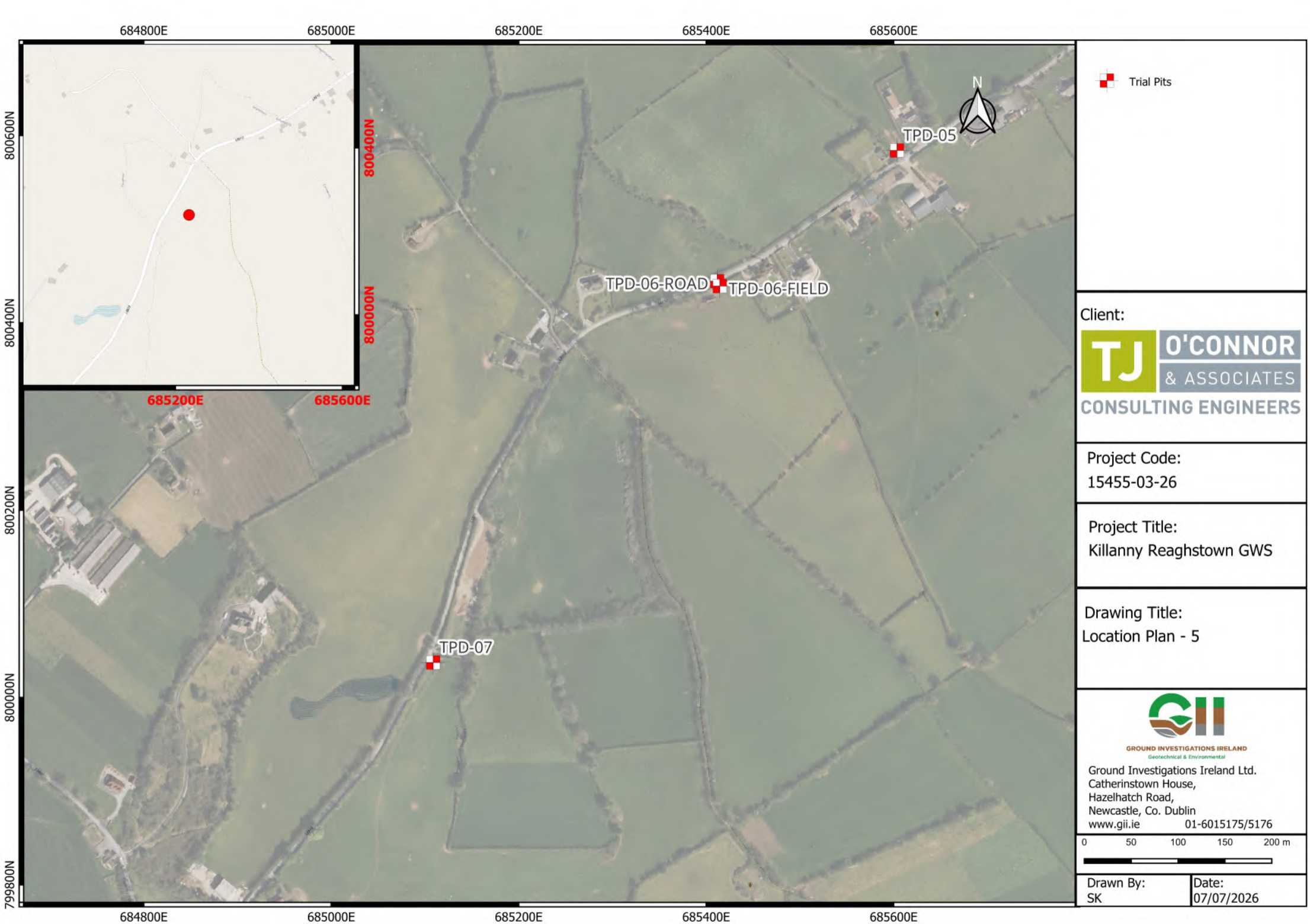


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 Trial Pits

Client:

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& ASSOCIATES
CONSULTING ENGINEERS

Project Code:
15455-03-26

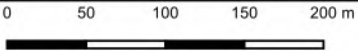
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Drawing Title:
Location Plan - 5



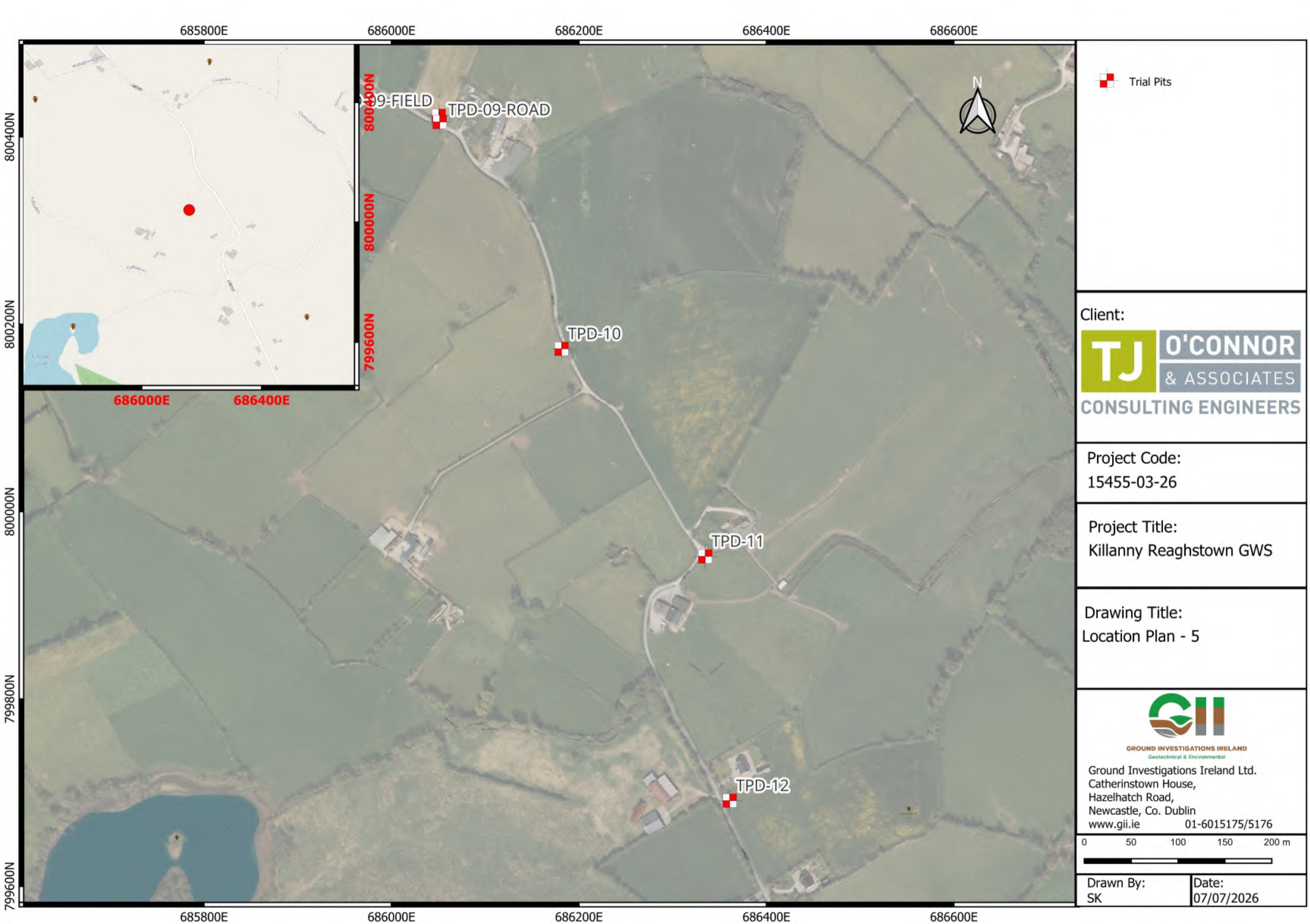
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 Trial Pits

Client:



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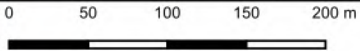
Project Code:
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Project Title:
Killanny Reaghstown GWS

Drawing Title:
Location Plan - 5



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Drawn By: SK	Date: 07/07/2026
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APPENDIX 2 – Trial Pit Records



GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 24/04/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E688752.05 N802057.34	
Project No. : 15455-03-26		Crew Name: Cian		Equipment: JCB 3CX	
Location Number Add-TP01	Location Type TP	Level 30.71m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.40	30.31		TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and roots	
			1.20	29.51		Soft to firm greyish brown slightly sandy gravelly CLAY with low angular to subrounded cobble and boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 40cm x 45cm	0.5 1.0
			1.80	28.91		Soft dark grey to black slightly sandy slightly gravelly organic CLAY with occasional fragments of wood and branches and low angular to subrounded cobble and boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 60cm x 70cm	1.5
			2.80	27.91		Soft bluish grey mottled light brown slightly sandy slightly gravelly silty CLAY with low angular to subrounded cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm	2.0 2.5
							3.0 3.5 4.0 4.5 5.0

Dimensions		Trench Support and Comment		Termination
Pit Length 2.60	Pit Width 2.00	Pit Stability Sidewalls stable	Shoring Used	Termination Reason Scheduled depth

Remarks

No groundwater encountered.
Trial pit backfilled upon completion.



GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 27/05/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E688758.16 N802187.29	
Project No. : 15455-03-26		Crew Name: Conor		Equipment: JCB 3CX	
Location Number Add-TP02	Location Type TP	Level 31.39m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.10	31.29		TOPSOIL: Dark grey slightly sandy slightly gravelly Clay	
						MADE GROUND: Dark greyish brown mottled dark grey slightly sandy slightly gravelly Clay with low angular to subrounded cobble and boulder content and occasional fragments of timber, concrete, red brick, plastic, tile, rubbish packets, natural wood and roots	0.5
			1.20	30.19		Soft to firm dark grey slightly sandy slightly gravelly peaty CLAY with low subangular cobble content and frequent fragments of organic matter, rootlets, branches, and tree trunks	1.0
						Soft to firm light grey mottled light brown sandy slightly gravelly silty CLAY with low angular to subrounded cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 15cm x 20cm	1.5
			2.10	29.29			2.0
			2.60	28.79			2.5
							3.0
							3.5
							4.0
							4.5
							5.0

Dimensions		Trench Support and Comment		Termination
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason
2.40	2.00	Sidewalls stable		Scheduled depth

Remarks

No groundwater encountered.
Trial pit backfilled upon completion.



GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 23/04/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E685884.59 N801225.16	
Project No. : 15455-03-26		Crew Name: Cian		Equipment: JCB 3CX	
Location Number TPD-01	Location Type TP	Level 34.38m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth (m)	Type	Results					
							MADE GROUND: Greyish brown clayey sandy angular to subrounded fine to coarse Gravel with high angular to subrounded cobble content. Sand is fine to coarse. Cobbles up to 15cm x 20cm	0.5
				1.30	33.08			1.0
								1.5
								2.0
								2.5
								3.0
								3.5
								4.0
								4.5
								5.0

Dimensions		Trench Support and Comment		Termination
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason
2.50	2.00	Sidewalls stable		Fast groundwater ingress

Remarks	
Groundwater encountered at 0.50m BGL, Fast ingress. Trial pit backfilled upon completion.	

GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 23/04/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E685953.93 N801065.81	
Project No. : 15455-03-26		Crew Name: Cian		Equipment: JCB 3CX	
Location Number TPD-02	Location Type TP	Level 37.02m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.40	36.62		TOPSOIL: Dark brown slightly sandy slightly gravelly Clay with grass and roots	
			0.90	36.12		Firm brown mottled dark grey slightly sandy slightly gravelly CLAY with low angular to subrounded cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm	0.5
			2.60	34.42		Firm to stiff greyish brown slightly sandy gravelly CLAY with low angular to subrounded cobble and boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 60cm x 80cm and one at 120cm x 150cm	1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

Dimensions		Trench Support and Comment		Termination
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason
4.10	2.00	Sidewalls stable		Scheduled depth

Remarks No groundwater encountered. Trial pit backfilled upon completion.	
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GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 22/04/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E686028.27 N800890.66	
Project No. : 15455-03-26		Crew Name: Cian		Equipment: JCB 3CX	
Location Number TPD-03	Location Type TP	Level 40.92m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.40	40.52		TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and roots	
			1.00	39.92		Firm to stiff brown slightly sandy gravelly CLAY with low angular to subrounded cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 10cm x 15cm	0.5
			2.70	38.22		Brown slightly clayey sandy angular to subrounded fine to coarse GRAVEL with medium angular to subrounded cobble content and low angular to subrounded boulder content. Sand is fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 25cm x 30cm	1.0
							1.5
							2.0
							2.5
							3.0
							3.5
							4.0
							4.5
							5.0

Dimensions		Trench Support and Comment		Termination
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason
3.10	2.40	Sidewalls stable		Scheduled depth

Remarks No groundwater encountered. Trial pit backfilled upon completion.				
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GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 22/04/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E685882.90 N800817.10	
Project No. : 15455-03-26		Crew Name: Cian		Equipment: JCB 3CX	
Location Number TPD-04	Location Type TP	Level 42.70m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth (m)	Type	Results					
▼				0.20	42.50		TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and roots	
							MADE GROUND: Dark brown slightly sandy gravelly Clay with low angular to subrounded cobble and boulder content and rare fragments of timber, plastic, metal and glass. Cobbles up to 20cm x 20cm. Boulders up to 70cm x 80cm	0.5
				0.80	41.90		Brown slightly clayey sandy angular to subrounded fine to coarse GRAVEL with low angular to subrounded cobble and boulder content. Sand is fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 25cm x 30cm	1.0
								1.5
								2.0
				2.40	40.30		Greyish brown slightly clayey sandy angular to subrounded fine to coarse GRAVEL with low angular to subrounded cobble content. Sand is fine to coarse. Cobbles up to 15cm x 20cm	2.5
				2.60	40.10			
								3.0
								3.5
								4.0
								4.5
								5.0

Dimensions		Trench Support and Comment		Termination
Pit Length 2.80	Pit Width 2.00	Pit Stability Sidewalls stable	Shoring Used	Termination Reason Scheduled depth

Remarks Groundwater encountered at 2.60m BGL, Slow ingress. Trial pit backfilled upon completion.	
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GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 23/04/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E685603.50 N800582.78	
Project No. : 15455-03-26		Crew Name: Cian		Equipment: JCB 3CX	
Location Number TPD-05	Location Type TP	Level 42.44m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.20	42.24		TOPSOIL: Brown slightly sandy slightly gravelly Clay (Reworked and compacted)	
			1.20	41.24		Firm to stiff light brown slightly sandy gravelly CLAY with low angular to subrounded cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm	0.5 1.0
			2.50	39.94		Light brown clayey sandy angular to subrounded fine to coarse GRAVEL with medium angular to subrounded cobble content and low angular to subrounded boulder content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 60cm x 90cm	1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

Dimensions		Trench Support and Comment		Termination
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason
2.70	2.00	Sidewalls stable		Scheduled depth

Remarks No groundwater encountered. Trial pit backfilled upon completion.				
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GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 27/05/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E685414.47 N800437.98	
Project No. : 15455-03-26		Crew Name: Conor		Equipment: JCB 3CX	
Location Number TPD-06	Location Type TP	Level 51.56m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.30	51.26		TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and roots	
			1.20	50.36		Firm to stiff brown slightly sandy gravelly CLAY with medium angular to subrounded cobble content and low angular to subrounded boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 30cm x 20cm	0.5 1.0
			2.50	49.06		Greyish brown slightly clayey sandy angular to subrounded fine to coarse GRAVEL with medium angular to subrounded cobble content and low angular to subrounded boulder content. Sand is fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 40cm x 50cm	1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

Dimensions		Trench Support and Comment		Termination
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason
2.80	2.00	Sidewalls spalling		Scheduled depth

Remarks No groundwater encountered. Trial pit backfilled upon completion.				
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GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 27/05/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E685411.67 N800443.22	
Project No. : 15455-03-26		Crew Name: Peter & Tommy		Equipment: Hand dug	
Location Number TPD-06-ROAD	Location Type TP	Level 52.14m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.05	52.09		TARMACADAM	
			0.20	51.94		MADE GROUND: Brownish grey clayey sandy subangular to subrounded fine to coarse Gravel	
			0.60	51.54		Light brown slightly sandy slightly gravelly CLAY with low subangular to subrounded cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 15cm x 20cm	0.5
							1.0
							1.5
							2.0
							2.5
							3.0
							3.5
							4.0
							4.5
							5.0

Dimensions		Trench Support and Comment		Termination
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason
0.50	0.40			Scheduled depth

Remarks Trial pit hand dug in road margin for road build-up. Trial pit backfilled upon completion.	
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GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 23/04/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E685108.64 N800036.09	
Project No. : 15455-03-26		Crew Name: Cian		Equipment: JCB 3CX	
Location Number TPD-07	Location Type TP	Level 41.92m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.40	41.52		TOPSOIL: Brown slightly sandy slightly gravelly Clay with roots (Reworked)	
			1.10	40.83		Stiff brown slightly sandy slightly gravelly CLAY with low subangular to subrounded cobble and boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 30cm x 40cm	0.5
			2.80	39.12		Brown slightly clayey sandy angular to subrounded fine to coarse GRAVEL with low subangular to subrounded cobble and boulder content. Sand is fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 60cm x 70cm	1.0
							1.5
							2.0
							2.5
							3.0
							3.5
							4.0
							4.5
							5.0

Dimensions		Trench Support and Comment		Termination
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason
2.40	2.00	Sidewalls spalling		Scheduled depth

Remarks No groundwater encountered. Trial pit backfilled upon completion.				
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GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 23/04/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E685905.77 N800503.72	
Project No. : 15455-03-26		Crew Name: Cian		Equipment: JCB 3CX	
Location Number TPD-08	Location Type TP	Level 63.00m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.40	62.60		TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and roots	
			0.90	62.10		Firm brown slightly sandy slightly gravelly CLAY with low subangular to subrounded cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 10cm x 12cm	0.5
			1.80	61.20		Firm to stiff brown slightly sandy slightly gravelly CLAY with low subangular to subrounded cobble and boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 30cm x 50cm	1.0
			2.70	60.30		Stiff greyish brown slightly sandy slightly gravelly CLAY with low angular to subrounded cobble and boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 40cm x 70cm	2.0
							2.5
							3.0
							3.5
							4.0
							4.5
							5.0

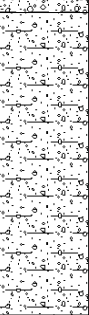
Dimensions		Trench Support and Comment		Termination
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason
2.70	2.20	Sidewalls stable		Scheduled depth

Remarks No groundwater encountered. Trial pit backfilled upon completion.	
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GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 27/05/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E686050.40 N800421.21	
Project No. : 15455-03-26		Crew Name: Conor		Equipment: JCB 3CX	
Location Number TPD-09	Location Type TP	Level 59.08m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.60	58.48		TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and roots	0.5
			1.50	57.58		Firm greyish brown slightly sandy slightly gravelly CLAY with low angular to subrounded cobble and boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 30cm x 50cm	1.0
			2.50	56.58		Greyish brown clayey gravelly fine to coarse SAND with low angular to subrounded cobble and boulder content. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 50cm x 60cm	1.5
							2.0
							2.5
							3.0
							3.5
							4.0
							4.5
							5.0

Dimensions		Trench Support and Comment		Termination
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason
2.70	2.00	Sidewalls spalling		Scheduled depth

Remarks	
No groundwater encountered. Trial pit backfilled upon completion.	

GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 27/05/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E686051.35 N800414.72	
Project No. : 15455-03-26		Crew Name: Peter & Tommy		Equipment: Hand dug	
Location Number TPD-09-ROAD	Location Type TP	Level 58.14m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.05	58.09		TARMACADAM	
			0.20	57.94		MADE GROUND: Brownish grey slightly clayey sandy angular to subrounded fine to coarse Gravel	
			0.60	57.54		Brown slightly sandy slightly gravelly CLAY with low angular to subrounded cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm	0.5
							1.0
							1.5
							2.0
							2.5
							3.0
							3.5
							4.0
							4.5
							5.0

Dimensions		Trench Support and Comment		Termination
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason
0.60	0.55			Scheduled depth

Remarks Trial pit hand dug in road margin for road build-up. Trial pit backfilled upon completion.	
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GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 23/04/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E686181.38 N800172.56	
Project No. : 15455-03-26		Crew Name: Cian		Equipment: JCB 3CX	
Location Number TPD-10	Location Type TP	Level 44.46m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
						TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and roots	
			0.50	43.96		Firm brown slightly sandy slightly gravelly CLAY with low subangular to subrounded cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 10cm x 15cm	0.5
			0.90	43.56		Firm greyish brown slightly sandy gravelly CLAY with low angular to subrounded cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm	1.0
							1.5
			1.90	42.56		Firm to stiff greyish brown slightly sandy gravelly CLAY with low angular to subrounded cobble content and low subangular to subrounded boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 60cm x 70cm	2.0
							2.5
			2.70	41.76			3.0
							3.5
							4.0
							4.5
							5.0

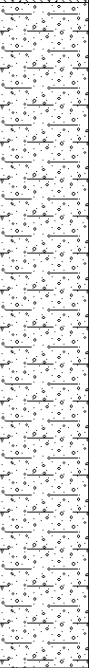
Dimensions		Trench Support and Comment		Termination
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason
2.80	2.00	Sidewalls stable		Scheduled depth

Remarks	
No groundwater encountered. Trial pit backfilled upon completion.	

GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 23/04/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E686334.64 N799950.96	
Project No. : 15455-03-26		Crew Name: Cian		Equipment: JCB 3CX	
Location Number TPD-11	Location Type TP	Level 37.12m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.30	36.82		TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and roots	
			2.50	34.62		Greyish brown clayey sandy angular to subrounded fine to coarse GRAVEL with high angular to subrounded cobble content and low subangular to subrounded boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 60cm x 70cm	0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

Dimensions		Trench Support and Comment		Termination
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason
3.30	2.00	Sidewalls stable		Scheduled depth

Remarks No groundwater encountered. Trial pit backfilled upon completion.				
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GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 24/04/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E686360.74 N799690.18	
Project No. : 15455-03-26		Crew Name: Cian		Equipment: JCB 3CX	
Location Number TPD-12	Location Type TP	Level 32.64m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth (m)	Type	Results					
▼				0.40	32.24		TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and roots	
							Firm to stiff brown slightly sandy slightly gravelly CLAY with low angular to subrounded cobble and boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 45cm x 50cm	0.5
				1.10	31.54		Brownish grey slightly clayey slightly gravelly fine to medium SAND with high angular to subrounded cobble content and low subangular to subrounded boulder content. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 60cm x 70cm	1.0
				2.40	30.24		Brownish grey slightly clayey sandy angular to subrounded fine to coarse GRAVEL with medium angular to subrounded cobble content and low angular to subrounded boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. cobbles up to 20cm x 20cm. Boulders up to 55cm x 70cm	2.5
				2.60	30.04			3.0
								3.5
								4.0
								4.5
								5.0

Dimensions		Trench Support and Comment		Termination
Pit Length 2.90	Pit Width 2.00	Pit Stability Sidewalls stable	Shoring Used	Termination Reason Scheduled depth

Remarks

Groundwater encountered at 2.60m BGL, Moderate ingress.
Trial pit backfilled upon completion.



GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 27/05/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E689364.33 N800915.88	
Project No. : 15455-03-26		Crew Name: Conor		Equipment: 3.5T Tracked Excavator	
Location Number TPM-01	Location Type TP	Level 31.10m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.40	30.70		TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and roots	
			1.00	30.10		Greyish brown clayey sandy angular to subrounded fine to coarse GRAVEL with low angular to subrounded cobble content. Sand is fine to coarse. Cobbles up to 20cm x 20cm	0.5
			1.80	29.30		Firm to stiff yellowish brown slightly sandy slightly gravelly CLAY with low angular to subrounded cobble and boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 25cm x 30cm	1.0
			2.50	28.60		Stiff greyish brown slightly sandy slightly gravelly CLAY with low angular to subrounded cobble and boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 25cm x 30cm	2.0
							2.5
							3.0
							3.5
							4.0
							4.5
							5.0

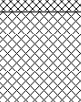
Dimensions		Trench Support and Comment		Termination	
Pit Length 2.10	Pit Width 0.50	Pit Stability Sidewalls stable	Shoring Used	Termination Reason Scheduled depth	

Remarks No groundwater encountered. Trial pit backfilled upon completion.					
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GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 27/05/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E689352.92 N800921.59	
Project No. : 15455-03-26		Crew Name: Peter & Tommy		Equipment: Hand dug	
Location Number TPM-01-ROAD	Location Type TP	Level 29.42m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.05	29.37		TARMACADAM MADE GROUND: Grey slightly clayey sandy angular to sub-rounded. fine to coarse Gravel with medium cobble content	
			0.40	29.02		Brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse	0.5
			0.60	28.82			
							1.0
							1.5
							2.0
							2.5
							3.0
							3.5
							4.0
							4.5
							5.0

Dimensions		Trench Support and Comment		Termination
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason
0.50	0.40			Scheduled depth

Remarks Trial pit hand dug in road margin for road build-up. Trial pit backfilled upon completion.				
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GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 22/04/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E689459.49 N800651.49	
Project No. : 15455-03-26		Crew Name: Cian		Equipment: JCB 3CX	
Location Number TPM-02	Location Type TP	Level 31.86m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
						TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and roots	
			0.50	31.36		Firm brown slightly sandy gravelly CLAY with low angular to subrounded cobble and boulder content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse. Cobbles up to 6cm x 20cm. Boulders up to 35cm x 40cm	0.5
			0.90	30.96		Firm greyish brown slightly sandy gravelly CLAY with medium angular to subrounded cobble content and low angular to subrounded boulder content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse. Cobbles up to 10cm x 20cm. Boulders up to 30cm x 70cm	1.0
			2.20	29.66		Soft to firm greyish brown slightly sandy slightly gravelly CLAY with low angular to subrounded cobble content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse. Cobbles up to 8cm x 20cm	2.5
			3.20	28.66			3.0
							3.5
							4.0
							4.5
							5.0

Dimensions		Trench Support and Comment		Termination
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason
2.50	2.10	Sidewalls stable		Scheduled depth

Remarks	
No groundwater encountered. Trial pit backfilled upon completion.	

GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 24/04/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E689539.62 N800402.38	
Project No. : 15455-03-26		Crew Name: Cian		Equipment: JCB 3CX	
Location Number TPM-03	Location Type TP	Level 32.04m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth (m)	Type	Results					
				0.30	31.74		MADE GROUND: Brownish grey clayey sandy angular to subrounded fine to coarse Gravel with medium angular to subrounded cobble content. Cobbles up to 20cm x 20cm	
				0.80	31.24		Firm light greyish brown slightly sandy slightly gravelly CLAY with low angular to subrounded cobble content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse. Cobbles up to 20cm x 20cm	0.5
				1.30	30.74		Light brownish grey slightly clayey slightly gravelly fine to medium SAND. Gravel is angular to subrounded medium to coarse	1.0
				2.80	29.24		Brownish grey clayey sandy angular to subrounded fine to coarse GRAVEL with low angular to subrounded cobble and boulder content. Cobbles up to 20cm x 20cm. Boulders up to 50cm x 60cm. (Wet Strata)	1.5
								2.0
								2.5
								3.0
								3.5
								4.0
								4.5
								5.0

Dimensions		Trench Support and Comment		Termination
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason
2.80	2.00	Sidewalls collapsing		Scheduled depth

Remarks Groundwater encountered at 1.40m BGL, Slow ingress. Trial pit backfilled upon completion.				
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GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 22/04/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E689594.72 N800099.64	
Project No. : 15455-03-26		Crew Name: Cian		Equipment: JCB 3CX	
Location Number TPM-04	Location Type TP	Level 34.19m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.40	33.79		TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and roots	
			0.80	33.39		Firm greyish brown slightly sandy slightly gravelly CLAY with low angular to subrounded cobble and boulder content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse. Cobbles are up to 20cm x 20cm. Boulders up to 20cm x 30cm	0.5
			2.30	31.89		Firm brown slightly sandy slightly gravelly CLAY with medium angular to subrounded cobble content and low angular to subrounded boulder content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse. Cobbles up to 8cm x 20cm. Boulders up to 50cm x 70cm	1.0
			2.60	31.59		Firm to stiff greyish brown slightly sandy slightly gravelly CLAY with low angular to subrounded cobble and boulder content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse. Cobbles up to 10cm x 15cm. Boulders up to 70cm x 80cm	2.5
							3.0
							3.5
							4.0
							4.5
							5.0

Dimensions		Trench Support and Comment		Termination
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason
2.20	2.00	Sidewalls spalling		Scheduled depth

Remarks No groundwater encountered. Trial pit backfilled upon completion.				
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GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 27/05/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E689415.97 N799895.12	
Project No. : 15455-03-26		Crew Name: Conor		Equipment: JCB 3CX	
Location Number TPM-05	Location Type TP	Level 33.56m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.30	33.26		TOPSOIL: Dark brown slightly sandy slightly gravelly Clay with grass and roots	
			0.90	32.66		Firm brown slightly sandy slightly gravelly CLAY with medium angular to subrounded cobble content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm	0.5
			2.50	31.06		Firm to stiff light brown slightly sandy slightly gravelly CLAY with low angular to subrounded cobble and boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 30cm x 40cm	1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

Dimensions		Trench Support and Comment		Termination
Pit Length 2.80	Pit Width 2.00	Pit Stability Sidewalls stable	Shoring Used	Termination Reason Scheduled depth

Remarks

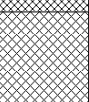
No groundwater encountered.
Trial pit backfilled upon completion.



GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 27/05/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E689421.28 N799902.38	
Project No. : 15455-03-26		Crew Name: Peter & Tommy		Equipment: Hand dug	
Location Number TPM-05-ROAD	Location Type TP	Level 34.21m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.05	34.16		TARMACADAM MADE GROUND: Brown slightly sandy slightly gravelly CLAY with low cobble content	
			0.40	33.81		Brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse	0.5
			0.65	33.56			
							1.0
							1.5
							2.0
							2.5
							3.0
							3.5
							4.0
							4.5
							5.0

Dimensions		Trench Support and Comment		Termination
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason
0.60	0.40			Scheduled depth

Remarks Trial pit hand dug in road margin for road build-up. Trial pit backfilled upon completion.	
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GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 24/04/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E689358.99 N799877.56	
Project No. : 15455-03-26		Crew Name: Cian		Equipment: JCB 3CX	
Location Number TPM-06	Location Type TP	Level 35.24m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.20	35.04		MADE GROUND: Grey slightly clayey sandy angular to subrounded fine to coarse Gravel with low angular to subrounded cobble content. Sand is fine to coarse. Cobbles up to 10cm x 10cm	
						Firm brown slightly sandy gravelly CLAY with medium angular to subrounded cobble content and low angular to subrounded boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 50cm x 70cm	0.5
							1.0
							1.5
							2.0
2.20	B		2.20	33.04		OBSTRUCTION: Presumed bedrock	
							2.5
							3.0
							3.5
							4.0
							4.5
							5.0

Dimensions		Trench Support and Comment		Termination
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason
2.60	2.00	Sidewalls stable		Bedrock encountered

Remarks	
No groundwater encountered. Trial pit backfilled upon completion.	

GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 22/04/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E689289.86 N799652.76	
Project No. : 15455-03-26		Crew Name: Cian		Equipment: JCB 3CX	
Location Number TPM-07	Location Type TP	Level 33.03m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.30	32.73		TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and roots	
			2.70	30.33		Firm to stiff brown slightly sandy gravelly CLAY with medium angular to subrounded cobble content and low angular to subrounded boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 30cm x 50cm and three at 80cm x 120cm, 110cm x 50cm, 120cm x 140cm	0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

Dimensions		Trench Support and Comment		Termination
Pit Length 2.60	Pit Width 2.00	Pit Stability Sidewalls stable	Shoring Used	Termination Reason Scheduled depth

Remarks No groundwater encountered. Trial pit backfilled upon completion.	
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GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 22/04/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E689301.55 N799411.26	
Project No. : 15455-03-26		Crew Name: Cian		Equipment: JCB 3CX	
Location Number TPM-08	Location Type TP	Level 23.70m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth (m)	Type	Results					
▼				0.50	23.20		TOPSOIL: Black slightly sandy peaty Clay with grass and roots	
							Soft bluish grey mottled light brown slightly sandy slightly gravelly silty CLAY with organic matter and rootlets. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse	0.5
				0.90	22.80		Very soft bluish grey slightly sandy silty CLAY. Sand is fine to medium	1.0
								1.5
								2.0
				2.50	21.20			2.5
								3.0
								3.5
								4.0
								4.5
								5.0

Dimensions		Trench Support and Comment		Termination
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason
2.40	2.00	Sidewalls stable		Scheduled depth

Remarks	
Groundwater encountered at 0.90m BGL, Slow ingress. Trial pit backfilled upon completion.	

GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 22/04/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E689578.28 N799772.33	
Project No. : 15455-03-26		Crew Name: Cian		Equipment: JCB 3CX	
Location Number TPM-09	Location Type TP	Level 30.53m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.40	30.13		TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and roots	
			1.10	29.43		Firm brown slightly sandy slightly gravelly CLAY with low angular to subrounded cobble content and medium angular to subrounded boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 50cm x 80cm and 110cm x 120cm	0.5 1.0
			2.50	28.03		Firm to stiff brown slightly sandy slightly gravelly CLAY with low angular to subrounded cobble content and medium angular to subrounded boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 50cm x 80cm and 110cm x 120cm	1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

Dimensions		Trench Support and Comment		Termination
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason
3.60	2.00	Sidewalls stable		Scheduled depth

Remarks No groundwater encountered. Trial pit backfilled upon completion.				
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GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 24/04/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E689923.28 N799515.99	
Project No. : 15455-03-26		Crew Name: Cian		Equipment: JCB 3CX	
Location Number TPM-10	Location Type TP	Level 25.10m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth (m)	Type	Results					
▼				0.40	24.70		TOPSOIL: Dark grey slightly sandy slightly gravelly Clay with grass and roots	
							Firm light grey mottled light brown slightly sandy slightly gravelly CLAY with low subangular to subrounded cobble and boulder content and rare organic matter. Cobbles up to 20cm x 20cm. Boulders up to 30cm x 30cm	0.5
				1.10	24.00		Brownish grey slightly clayey sandy angular to subrounded fine to coarse GRAVEL with low angular to subrounded cobble and boulder content. Sand is fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 30cm x 40cm	1.0
				2.30	22.80		Brownish grey slightly clayey slightly gravelly fine to coarse SAND with low angular to subrounded cobble content. Gravel is subangular to subrounded fine to coarse. Cobbles up to 15cm x 20cm	1.5
				2.60	22.50			2.0
								2.5
								3.0
								3.5
								4.0
								4.5
								5.0

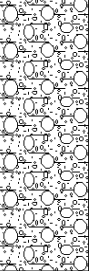
Dimensions		Trench Support and Comment		Termination	
Pit Length	Pit Width	Pit Stability	Shoring Used	Termination Reason	
2.80	2.00	Sidewalls spalling		Scheduled depth	

Remarks	
Groundwater encountered at 2.40m BGL, Fast ingress. Trial pit backfilled upon completion.	

GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Trial Pit Log

Project Name: Killanny Reaghstown GWS		Client: TJ O Connor		Date: 27/05/2026	
Location: Killanny Reaghstown		Contractor: GII Ltd.		Co-ords: E690084.37 N799298.24	
Project No. : 15455-03-26		Crew Name: Conor		Equipment: JCB 3CX	
Location Number TPM-11	Location Type TP	Level 24.88m AoD	Logged By JI	Scale 1:25	Page Number Sheet 1 of 1

Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.40	24.48		TOPSOIL: Brown slightly sandy slightly gravelly Clay with grass and roots	
			1.60	23.28		Firm greyish brown mottled light grey and light brown slightly sandy gravelly CLAY with low angular to subrounded cobble and boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 30cm x 40cm	0.5 1.0 1.5
			2.50	22.38		Firm to stiff greyish brown slightly sandy gravelly CLAY with medium angular to subrounded cobble content and low angular to subrounded boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 40cm x 50cm	2.0 2.5
							3.0 3.5 4.0 4.5 5.0

Dimensions		Trench Support and Comment		Termination
Pit Length 2.70	Pit Width 2.00	Pit Stability Sidewalls stable	Shoring Used	Termination Reason Scheduled depth

Remarks No groundwater encountered. Trial pit backfilled upon completion.	
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Project Name: Killanny Reaghstown GWS			Client: TJ O Connor			Date: 27/05/2026					
Location: Killanny Reaghstown			Contractor: GII Ltd.			Co-ords: E690077.40 N799299.87					
Project No. : 15455-03-26			Crew Name: Peter & Tommy			Equipment: Hand dug					
Location Number TPM-11-ROAD		Location Type TP		Level 24.69m AoD		Logged By JI		Scale 1:25		Page Number Sheet 1 of 1	
Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description					
Depth (m)	Type	Results									
			0.05	24.64		TARMACADAM			0.5		
			0.15	24.54		MADE GROUND: Greyish brown slightly clayey sandy subangular to subrounded, fine to coarse Gravel					
			0.65	24.04		Dark brown slightly sandy slightly gravelly CLAY with low angular to subrounded cobble and boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles up to 20cm x 20cm. Boulders up to 20cm x 25cm					
									1.0		
									1.5		
									2.0		
									2.5		
									3.0		
									3.5		
									4.0		
									4.5		
									5.0		
Dimensions			Trench Support and Comment						Termination		
Pit Length	Pit Width	Pit Stability				Shoring Used		Termination Reason			
0.60	0.50							Scheduled depth			

Trial pit hand dug in road margin for road build-up.
Trial pit backfilled upon completion.



Killanny Reaghstown GWS – Trial Pit Photographs

TPD01



TPD01



Killanny Reaghstown GWS – Trial Pit Photographs

TPD01



TPD01



Killanny Reaghstown GWS – Trial Pit Photographs

TPD02



TPD02



Killanny Reaghstown GWS – Trial Pit Photographs

TPD02



TPD02



Killanny Reaghstown GWS – Trial Pit Photographs

TPD03



TPD03



Killanny Reaghstown GWS – Trial Pit Photographs

TPD03



TPD03



Killanny Reaghstown GWS – Trial Pit Photographs

TPD04



TPD04



Killanny Reaghstown GWS – Trial Pit Photographs

TPD04



TPD04



Killanny Reaghstown GWS – Trial Pit Photographs

TPD05



TPD05



Killanny Reaghstown GWS – Trial Pit Photographs

TPD05



TPD05



Killanny Reaghstown GWS – Trial Pit Photographs

TPD06



TPD06



Killanny Reaghstown GWS – Trial Pit Photographs

TPD06



TPD06



Killanny Reaghstown GWS – Trial Pit Photographs

TPD06



Killanny Reaghstown GWS – Trial Pit Photographs

TPD06



Killanny Reaghstown GWS – Trial Pit Photographs

TPD07



TPD07



Killanny Reaghstown GWS – Trial Pit Photographs

TPD07



TPD07



Killanny Reaghstown GWS – Trial Pit Photographs

TPD08



TPD08



Killanny Reaghstown GWS – Trial Pit Photographs

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TPD08



Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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TPD11



Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

TPD12



TPD12



Killanny Reaghstown GWS – Trial Pit Photographs

TPD12



TPD12



Killanny Reaghstown GWS – Trial Pit Photographs

TPM01



TPM01



Killanny Reaghstown GWS – Trial Pit Photographs

TPM01



TPD01



Killanny Reaghstown GWS – Trial Pit Photographs

TPM01



Killanny Reaghstown GWS – Trial Pit Photographs

TPM01



Killanny Reaghstown GWS – Trial Pit Photographs

TPM02



TPM02



Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

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Killanny Reaghstown GWS – Trial Pit Photographs

TPM11



Killanny Reaghstown GWS – Trial Pit Photographs

Add-TP01



Add-TP01



Killanny Reaghstown GWS – Trial Pit Photographs

Add-TP01



Add-TP01



Killanny Reaghstown GWS – Trial Pit Photographs

Add-TP02



Add-TP02



Killanny Reaghstown GWS – Trial Pit Photographs

Add-TP02



Add-TP02



APPENDIX 3 – Laboratory Testing

CONTRACT Killany Reagstown GWS
CLIENT NO. C028
CLIENT Ground Investigations Ireland
ADDRESS Catherinestown House
Hazelhatch Road
Newcastle D22 YD52

REPORT NO: SA 5998 PLI
JOB NO: GII 775
DATE: 02/06/2026

TEST REPORT FOR DETERMINATION OF POINT LOAD INDEX
Single Diametrical Determination in accordance with ISRM 1985

Sample Number SA5998
Sampled By Client
Sampled Date 24/04/2026
Received Date 25/05/2026
Sample Source/Location * Killanny Reaghstown GWS
Depth /Location * See table of Results
Sample Description Irregular Lump
Rock Type tested Irregular Lump
Sample Ref / Identification See table of Results
Date Start Test 27/05/26
Date Tested 27/05/26
Deviations from Standard None

Test Results

Sample No.	BH No.	Average Diameter (mm)	Height/ Length (mm)	Distance between contact point and free end	Load at Failure (kN)	IS(50) Mpa	Density (Mg/M3)
5998	TMP06 @ 2.20	53.00	198.00	>0.5	26.09	4.83	2.52

Notes: *Specimens prepared and tested in accordance with suggested method from
International Society for Rock Mechanics (ISRM), 1985
This test report shall not be reproduced except in full,without the prior written approval of the laboratory.
Results relate only to the sample tested and apply to sample as received.
above has been provided by the client.



Signed: _____
for Geotechnical and Soil Testing Services Ltd

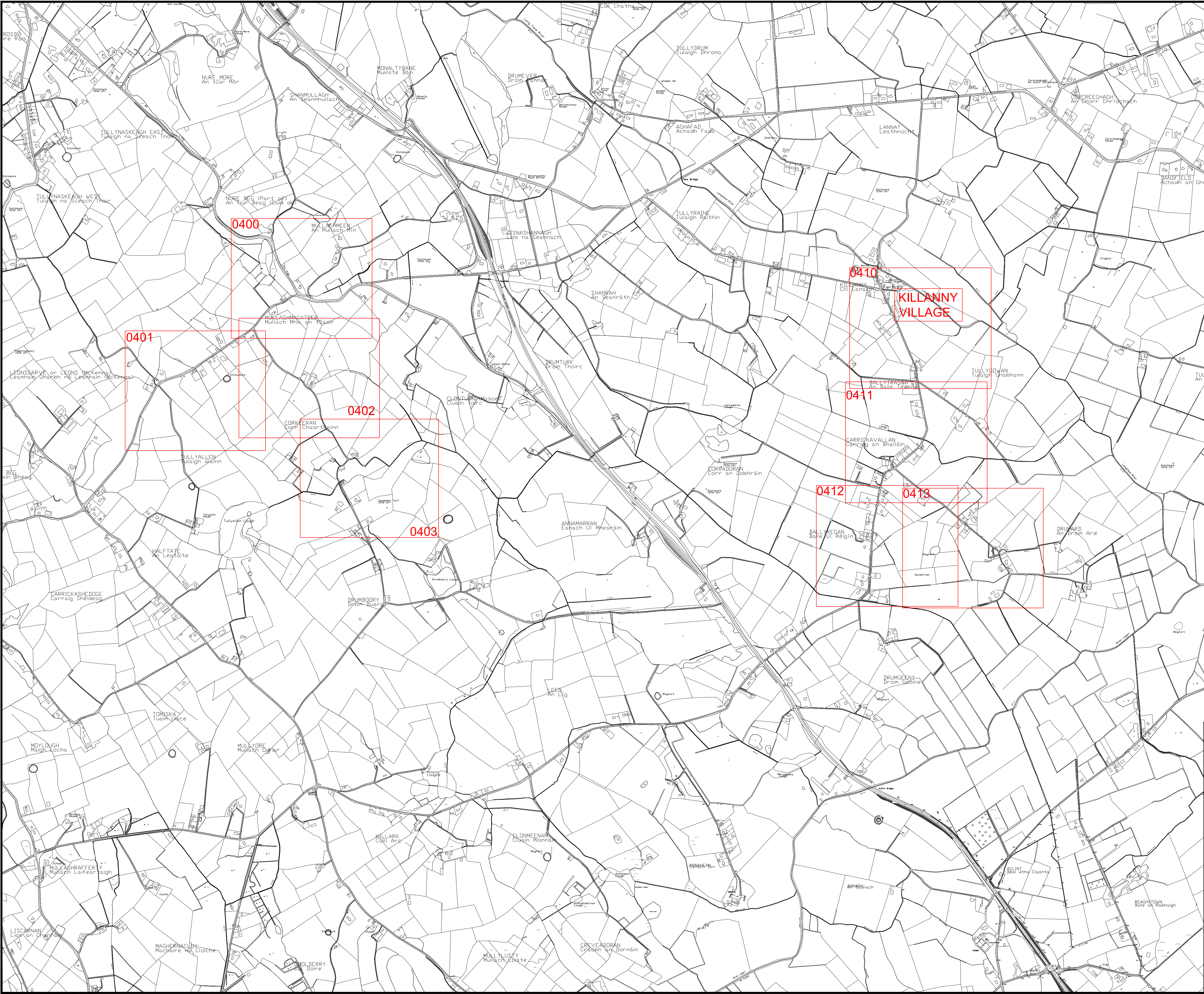
Date: ____ 02/06/2026

Authorised signatories :
G. Reilly

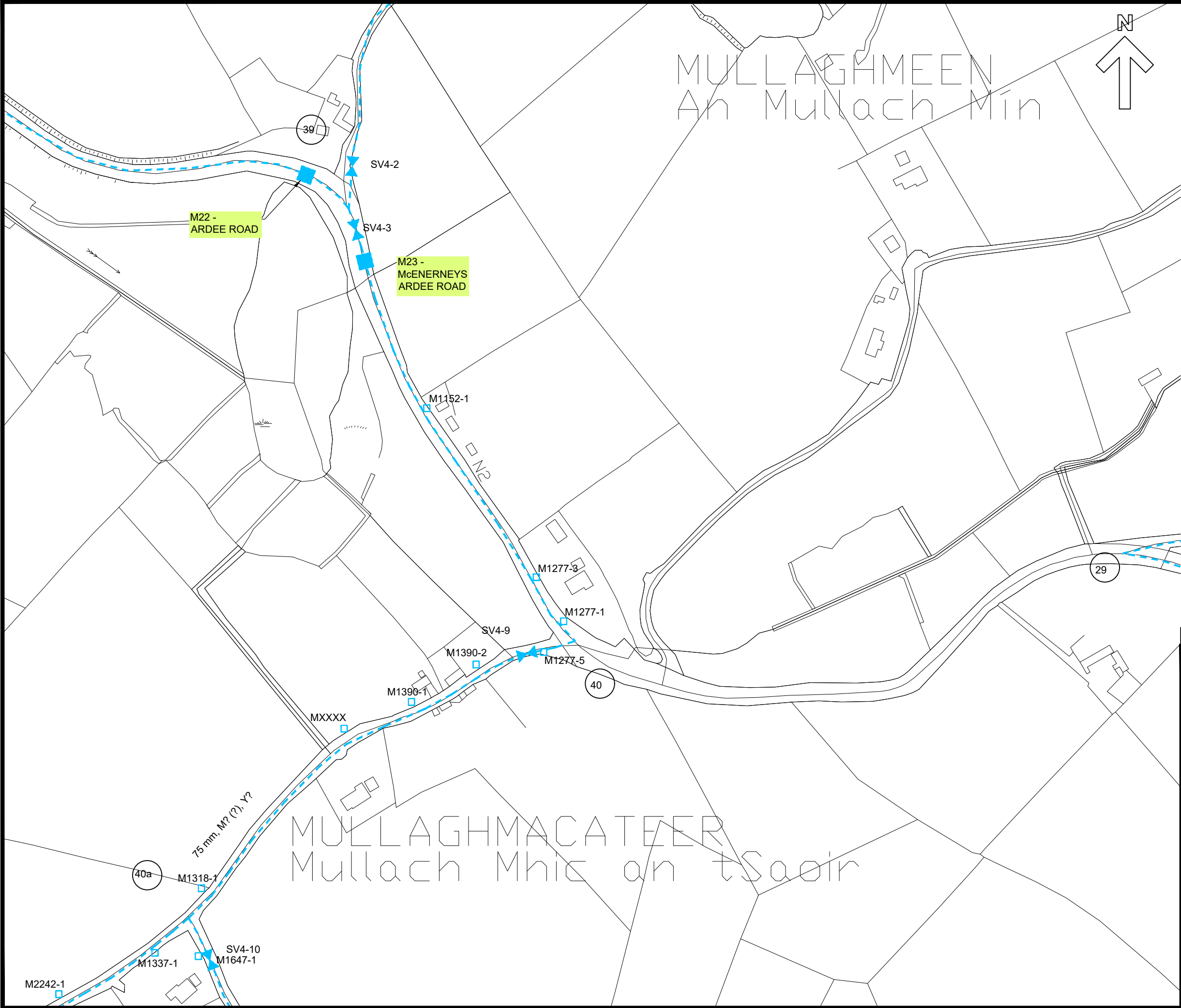
Volume E3 - Existing Utility Services

VOLUME E3 CONTENTS:

Drg Title	Drg Nr.
Key Plan	26010 - TJOC - XX - XX - DR - C - 120
Existing Watermain Layout	26010 - TJOC - XX - XX - DR - C - 400
Existing Watermain Layout	26010 - TJOC - XX - XX - DR - C - 401
Existing Watermain Layout	26010 - TJOC - XX - XX - DR - C - 402
Existing Watermain Layout	26010 - TJOC - XX - XX - DR - C - 403
Existing Watermain Layout	26010 - TJOC - XX - XX - DR - C - 410
Existing Watermain Layout	26010 - TJOC - XX - XX - DR - C - 411
Existing Watermain Layout	26010 - TJOC - XX - XX - DR - C - 412
Existing Watermain Layout	26010 - TJOC - XX - XX - DR - C - 413
Eir Existing Services	Emap
ESB Networks Existing Services	20260213-022_A0



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PROJECT: KILLANNY / REAGHSTOWN GWS CRITICAL MAINS REPLACEMENT			
CLIENT: KILLANNY / REAGHSTOWN GWS			
DRAWING TITLE: KEY PLAN EXISTING MAINS LAYOUT			
SCALE: 1:10,000			(A1)
PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER 26010-TJOC-XX-XX-DR-C-0120			REV: C01



LEGEND

EXISTING WATERMAIN

EXISTING BM

■

EXISTING SV

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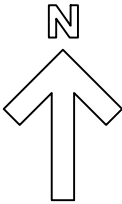
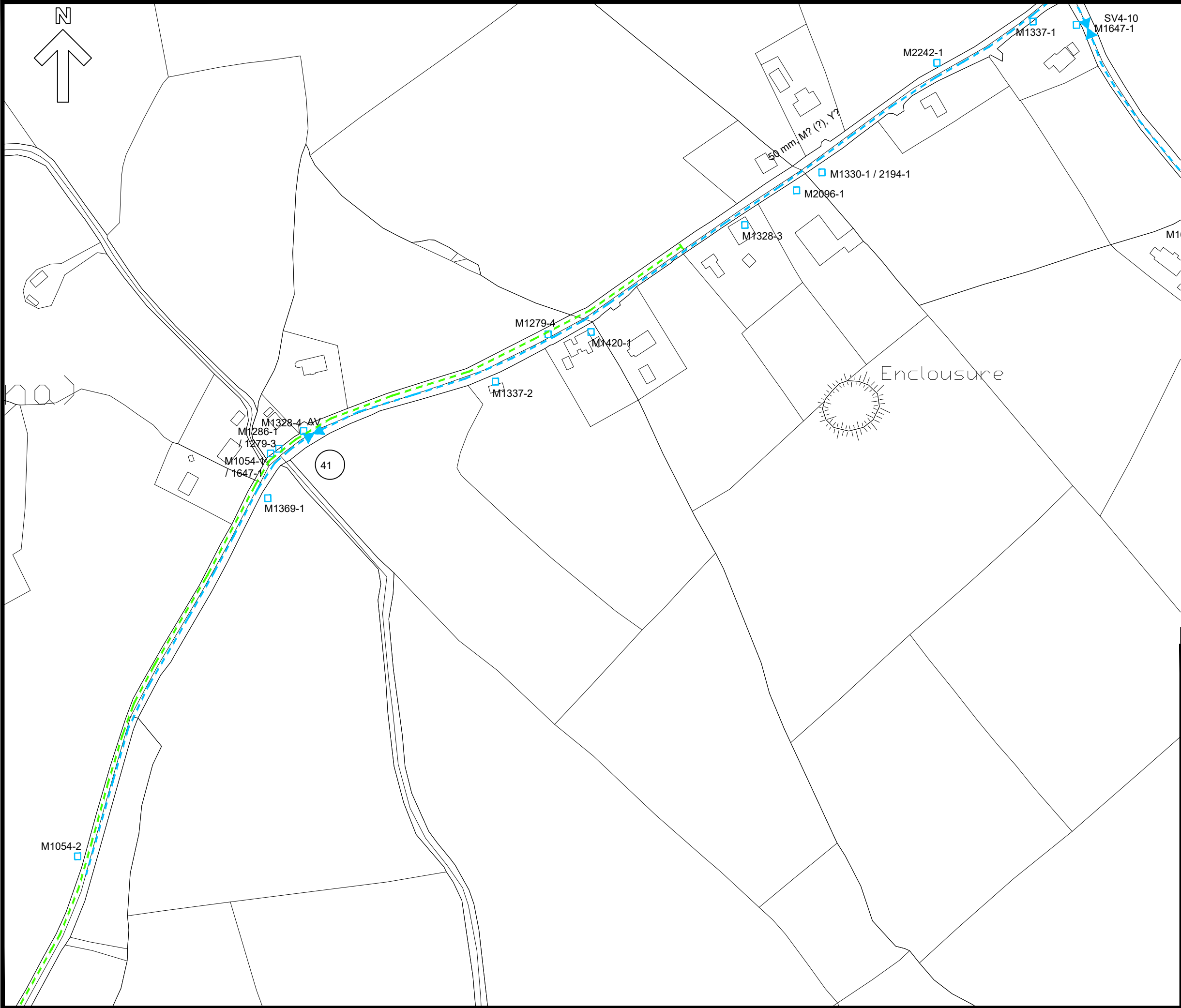
SV4-3

EXISTING SERVICE CONNECTION

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M1277-3

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PROJECT:		KILLANNY/REAGHSTOWN GWS CRITICAL MAINS REPLACEMENT	
CLIENT:		KILLANNY/REAGHSTOWN GWS	
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LEGEND

EXISTING WATERMAIN

EXISTING BM

■

EXISTING SV

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SV4-3

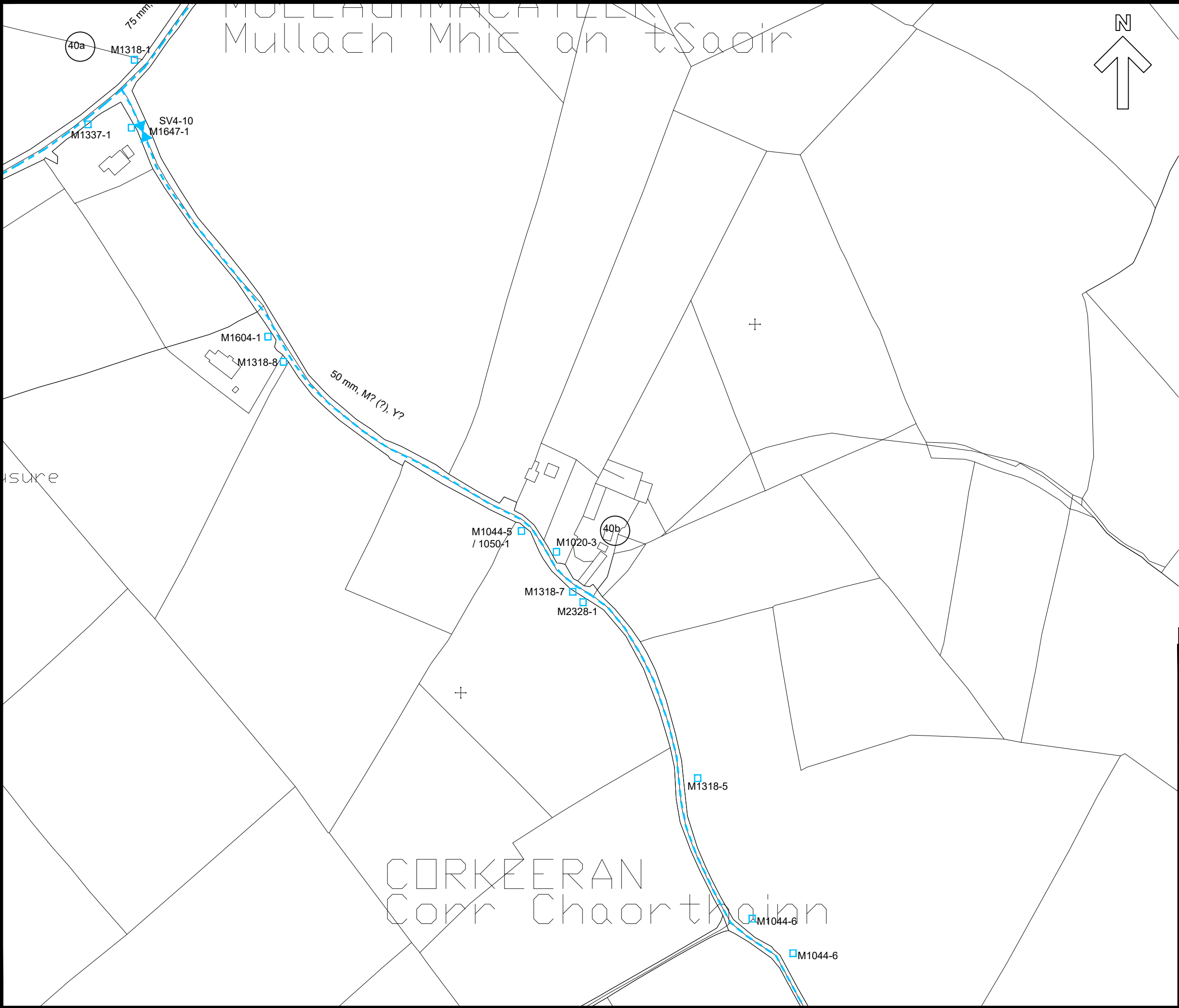
EXISTING SERVICE CONNECTION

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M1277-3

EXISTING MAGHERACLOONE GWS MAINS

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LEGEND

EXISTING WATERMAIN

EXISTING BM

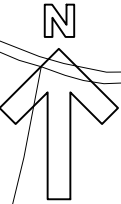
EXISTING SV

EXISTING SERVICE CONNECTION

SV4-3

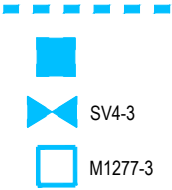
M1277-3

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PROJECT:		KILLANNY/REAGHSTOWN GWS CRITICAL MAINS REPLACEMENT	
CLIENT:		KILLANNY/REAGHSTOWN GWS	
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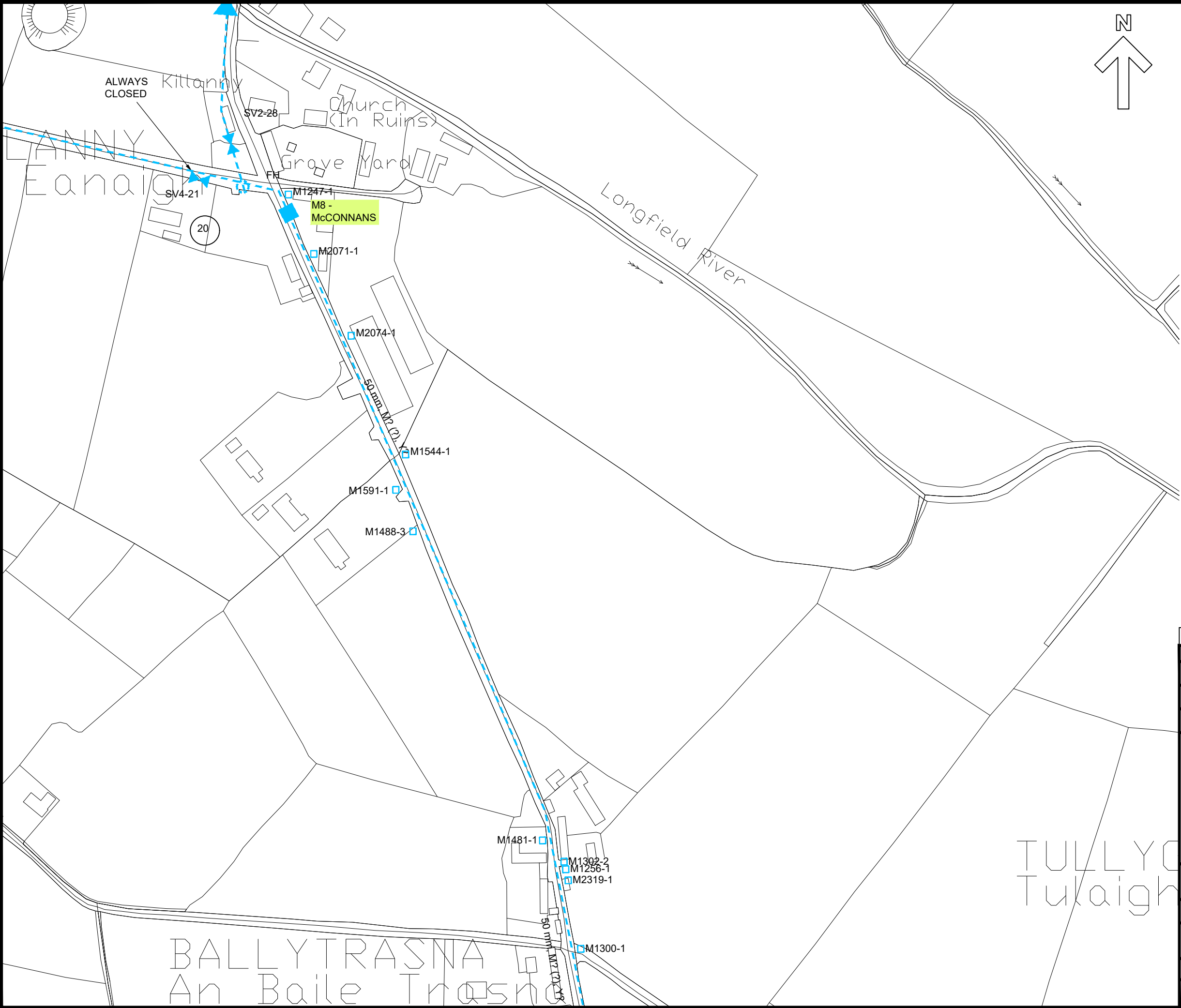


LEGEND

- EXISTING WATERMAIN
- EXISTING BM
- EXISTING SV
- EXISTING SERVICE CONNECTION



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CLIENT:		KILLANNY/REAGHSTOWN GWS		
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PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER 26010-TJOC-XX-XX-DR-C-0403				REV: C01



LEGEND

EXISTING WATERMAIN

EXISTING BM

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EXISTING SV

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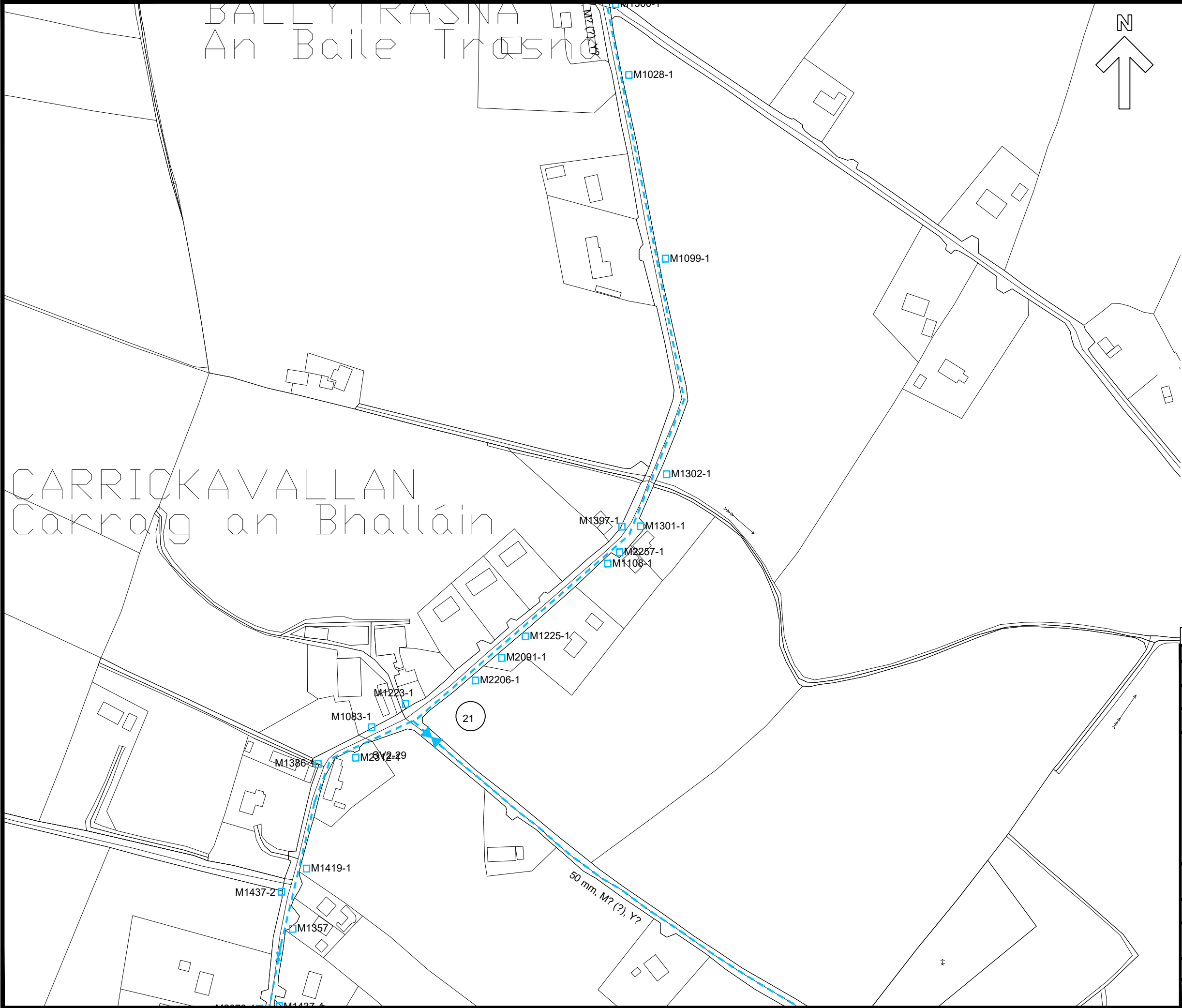
SV4-3

EXISTING SERVICE CONNECTION

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M1277-3

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CLIENT:		KILLANNY/REAGHSTOWN GWS	
DRAWING TITLE:		LAYOUT OF EXISTING WATERMAIN McCONNANS UPGRADE	
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PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER 26010-TJOC-XX-XX-DR-C-0410			REV: C01



LEGEND

EXISTING WATERMAIN

EXISTING BM

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EXISTING SV

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SV4-3

EXISTING SERVICE CONNECTION

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M1277-3

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PROJECT:		KILLANNY/REAGHSTOWN GWS CRITICAL MAINS REPLACEMENT	
CLIENT:		KILLANNY/REAGHSTOWN GWS	
DRAWING TITLE: LAYOUT OF EXISTING WATERMAINS McCONNANS UPGRADE			
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LEGEND

EXISTING WATERMAIN

EXISTING BM

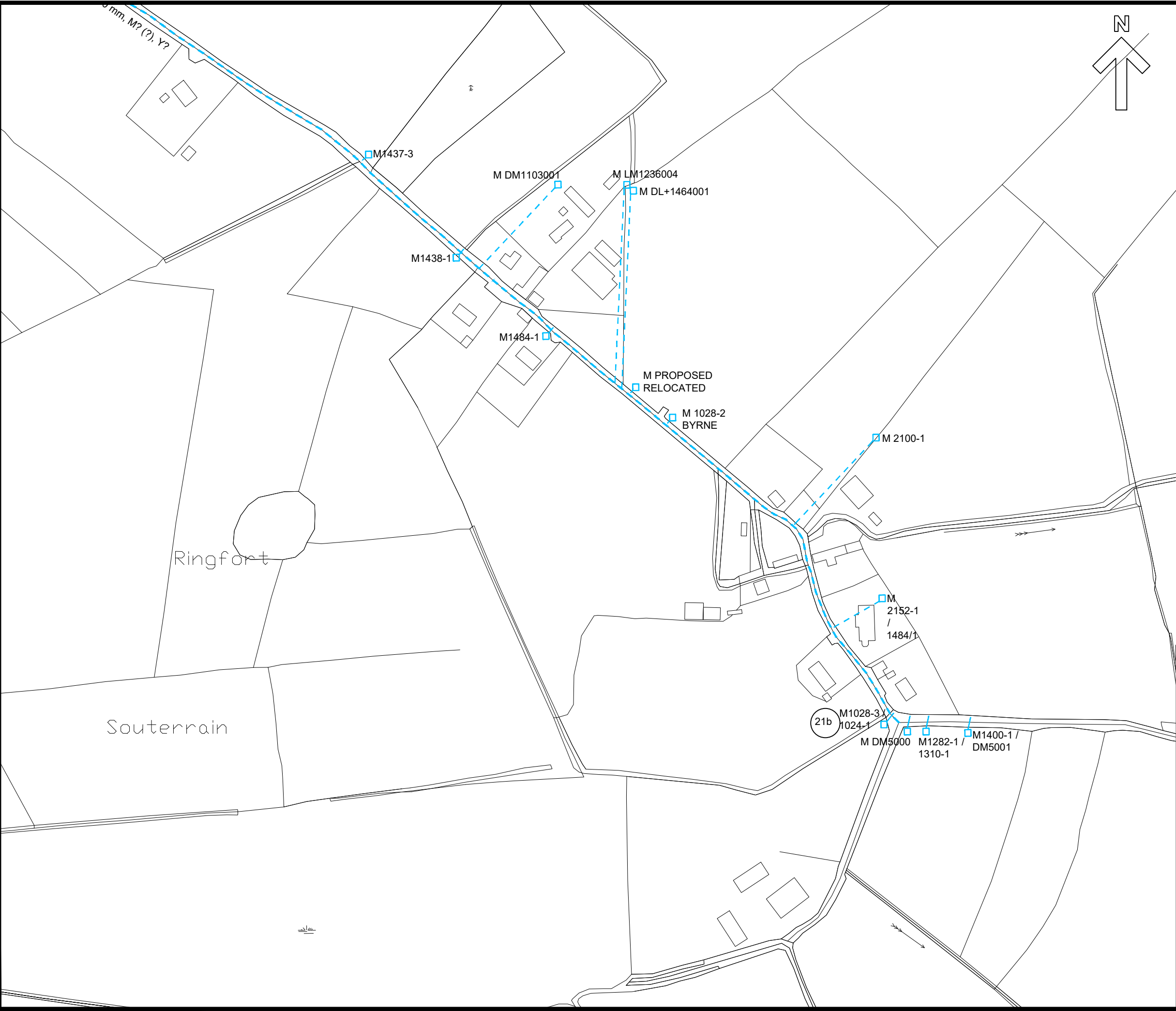
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EXISTING SERVICE CONNECTION

SV4-3

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LEGEND

EXISTING WATERMAIN

EXISTING BM

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EXISTING SV

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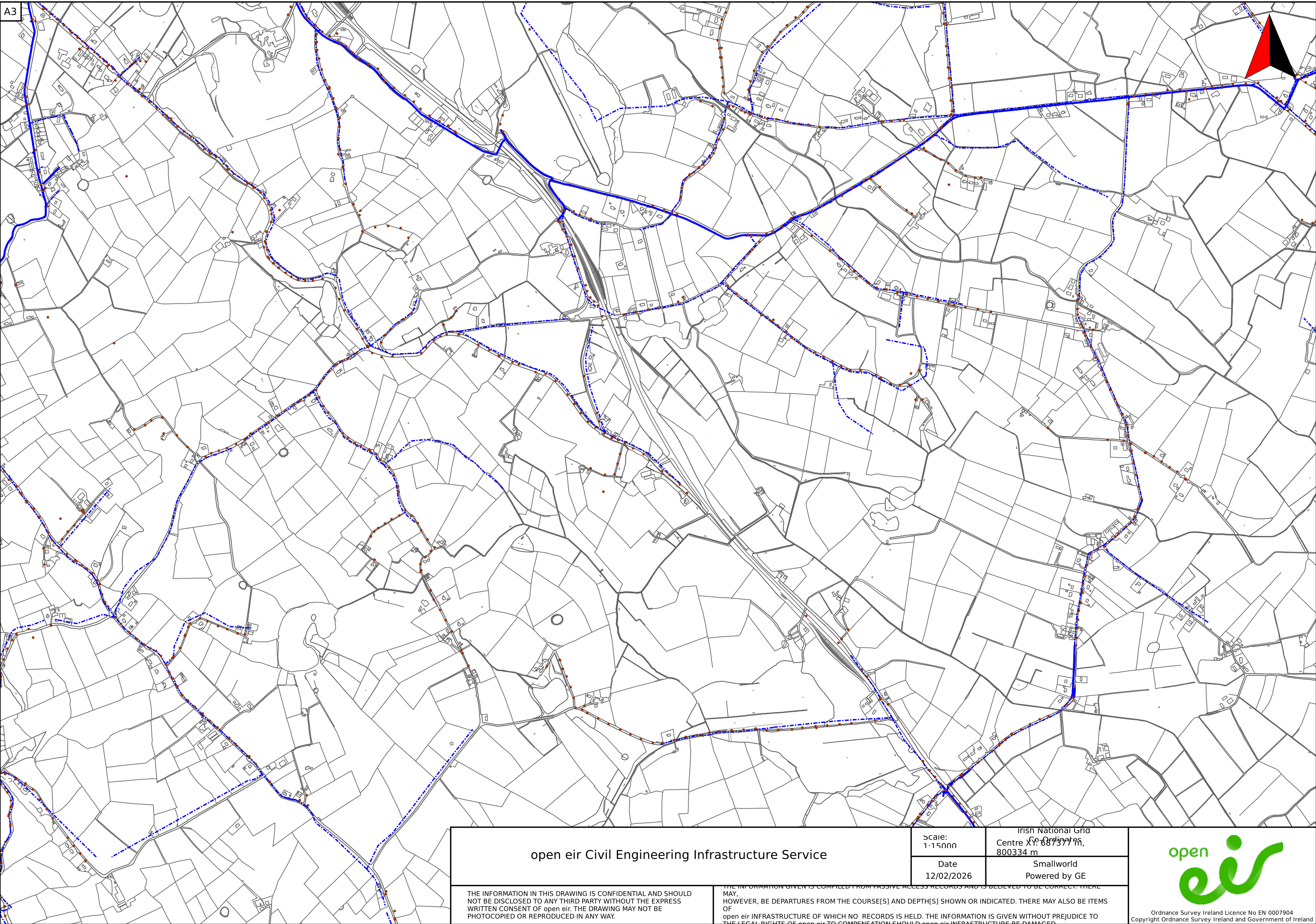
SV4-3

EXISTING SERVICE CONNECTION

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PROJECT:		KILLANNY/REAGHSTOWN GWS CRITICAL MAINS REPLACEMENT	
CLIENT:		KILLANNY/REAGHSTOWN GWS	
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PROJECT - ORIGINATOR - VOLUME - LOCATION - TYPE - ROLE - NUMBER 26010-TJOC-XX-XX-DR-C-0413			REV: C01



open eir Civil Engineering Infrastructure Service

Scale: 1:15000	Irish National Grid Centre XY: 687377 m, 800334 m
Date 12/02/2026	Smallworld Powered by GE

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TITLE:

20260213-022_A0

COLOUR CODE:

- BLACK - 38KV & HIGHER VOLTAGE OVERHEAD LINES
- GREEN - MV(10KV/20KV) OVERHEAD LINES
- BLUE - LV (400V/230V) OVERHEAD LINES
- CYAN - 38KV & HIGHER VOLTAGE UNDERGROUND CABLE ROUTES
- RED - MV/LV (10KV/20KV/400V/230V) UNDERGROUND CABLE ROUTES

DATE: 13-Feb-2026

** SCALE: 1:2500

** SCALE WHEN PRINTED ON AN A0 PAGE
XY COORDINATES DISPLAYED IN IRISH GRID COORDINATE
SYSTEM

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WARNING

THIS MAP INDICATES THE APPROXIMATE LOCATION OF ESB TRANSMISSION (400KV, 220KV, 110KV, 38KV) AND DISTRIBUTION (20KV, 10KV, 230V/400V) UNDERGROUND CABLES AND OVERHEAD LINES IN THE GENERAL AREA OF THE PROPOSED WORKS. ESB NETWORKS TAKES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE MAP. IT IS THE USER'S RESPONSIBILITY TO INDEPENDENTLY VERIFY THE INFORMATION AND THE LOCATION OF UNDERGROUND CABLES AND OVERHEAD LINES. LOW VOLTAGE (230V/400V) SERVICE CABLES (E.G. HOUSE SERVICES, FACTORY/SHOP SERVICES, PUBLIC LIGHTING LAMP SERVICES, ETC) ARE NOT INCLUDED BUT THEIR PRESENCE SHOULD BE ANTICIPATED. THE DEPTHS OF UNDERGROUND CABLES MUST NEVER BE ASSUMED BEFORE ANY MECHANICAL EXCAVATION IS UNDERTAKEN. THE ACTUAL LOCATION OF ALL UNDERGROUND ELECTRICITY CABLES MUST BE ESTABLISHED AND VERIFIED ON THE SITE USING:
(A) UP-TO-DATE MAP RECORDS;
(B) CABLE LOCATOR EQUIPMENT OPERATED IN BOTH POWER AND RADIO MODES;
(C) CAREFUL HAND DIGGING OF TRIAL HOLES USING 'SAFE DIGGING PRACTICE'.
REFER ALSO TO HSA CODE OF PRACTICE FOR AVOIDING DANGER FROM UNDERGROUND SERVICES.
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