

**I454: ESB ENABLING WORKS DELIVERY AT IDA DUNDALK SCIENCE
AND TECHNOLOGY PARK**

VOLUME A PART B – WORKS REQUIREMENTS DRAWINGS

For
IDA Ireland

24 August 2026

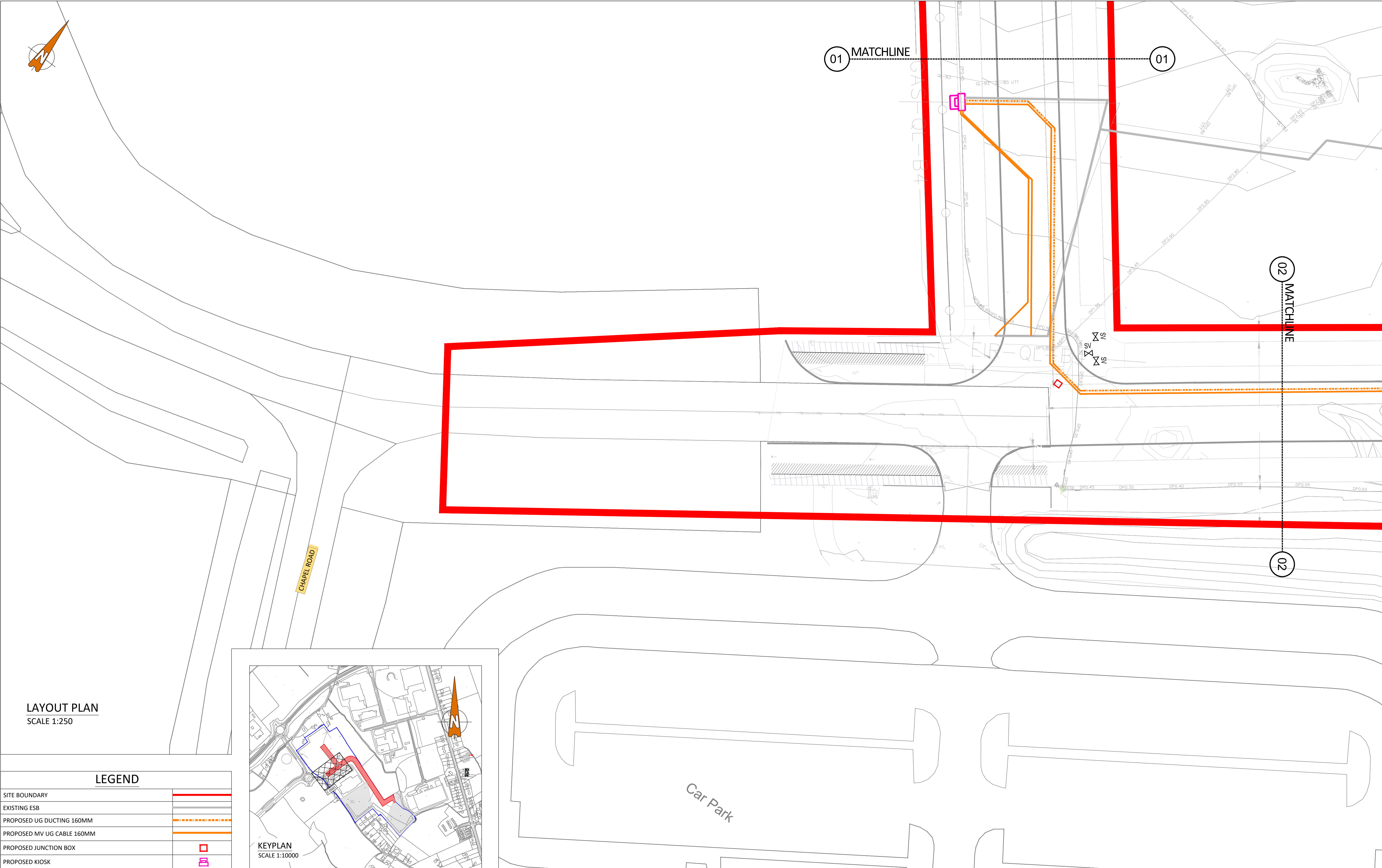
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DOCUMENT CONTROL & HISTORY

OCSC Job No: I454	Project Code	Originator	Zone Volume	Level	File Type	Role Type	Number	Status / Suitability Code	Revision
	I454	OCSC	EW	XX	CD	C	0002	S4	C01

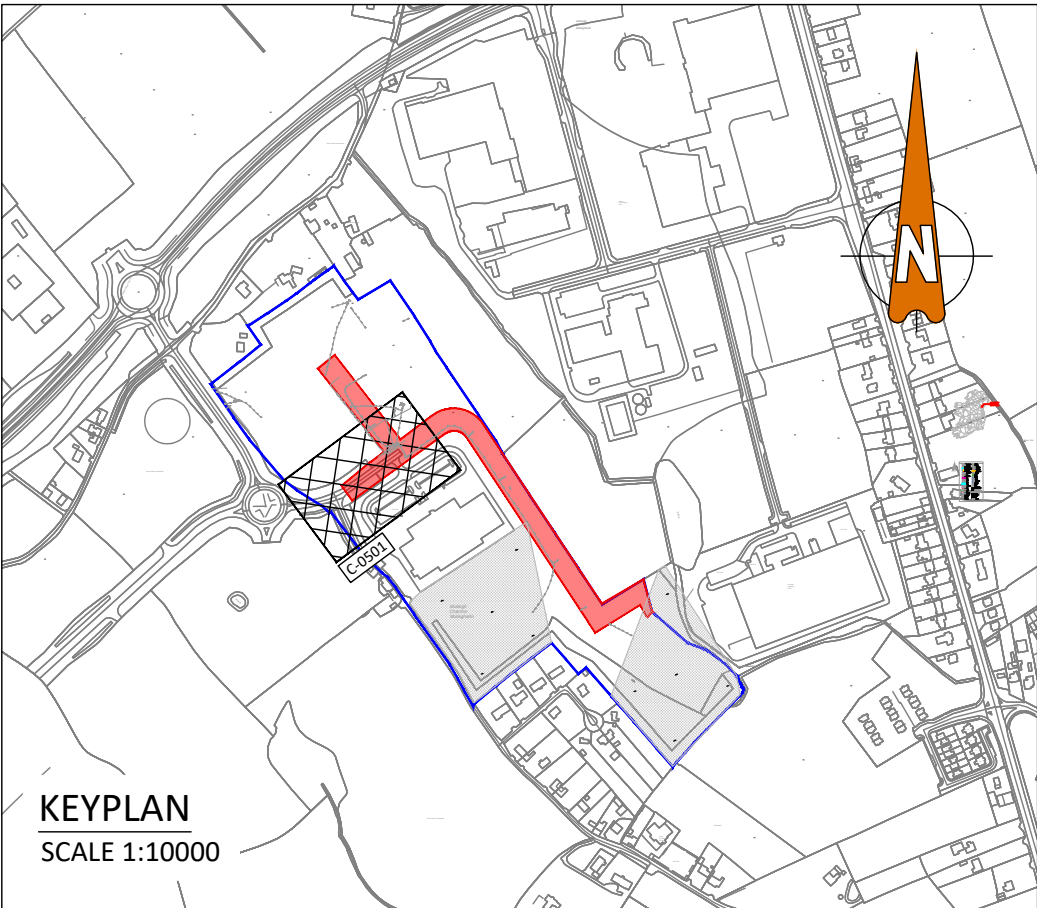
Rev.	Status	Authors	Checked	Authorised	Issue Date
C01	S4	Julia Adams	Luke Grainger	Brian O'Rourke	24/08/2026



LAYOUT PLAN
SCALE 1:250

LEGEND

SITE BOUNDARY	
EXISTING ESB	
PROPOSED UG DUCTING 160MM	
PROPOSED MV UG CABLE 160MM	
PROPOSED JUNCTION BOX	
PROPOSED KIOSK	



KEYPLAN
SCALE 1:10000

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Rev No.	Date	Revision Note	Drn by	Chkd by
C01	20.08.26	ISSUED FOR CONSTRUCTION	JM	LG

Rev No.	Date	Revision Note	Drn by	Chkd by

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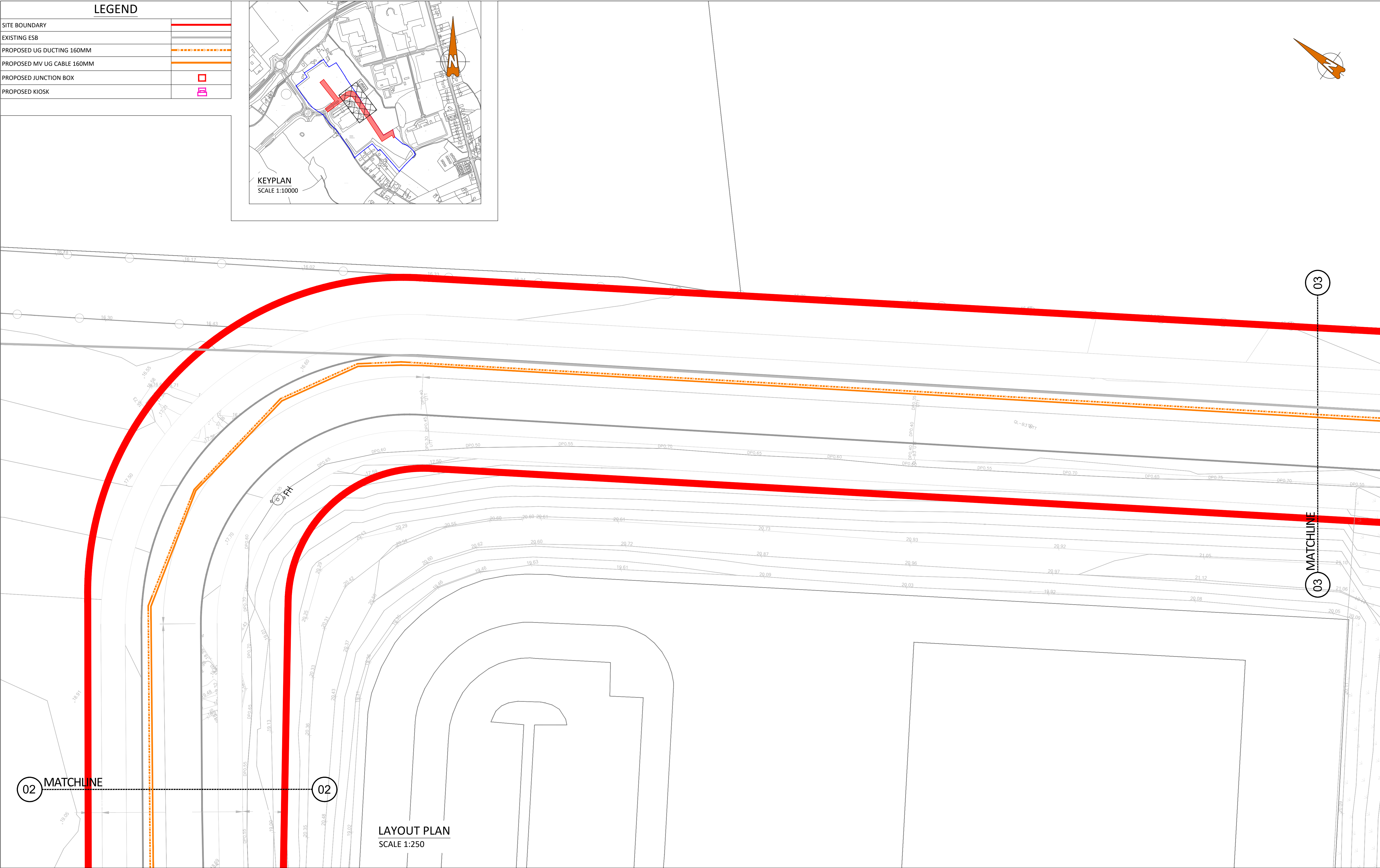
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Dublin London Belfast Galway Cork Birmingham

Client:	IDA IRELAND									
Project:	INFRASTRUCTURE DELIVERY AT IDA DUNDALK SCIENCE AND TECHNOLOGY PARK									
Title:	PROPOSED ESB DUCTING LAYOUT PLAN SHEET 01 OF 05									
Code	Originator	Zone	Level	Type	Role	Number	Status	Revision		
I454	OCSC	EW	XX	DR	C	0501	A1	C01		
Date:	26.01.26	Scale:	1:250	@ A1	Drn by:	TR	Chkd by:	LG	Aprvd by:	BOR



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bsi

BSI Design and Construction

OCSC

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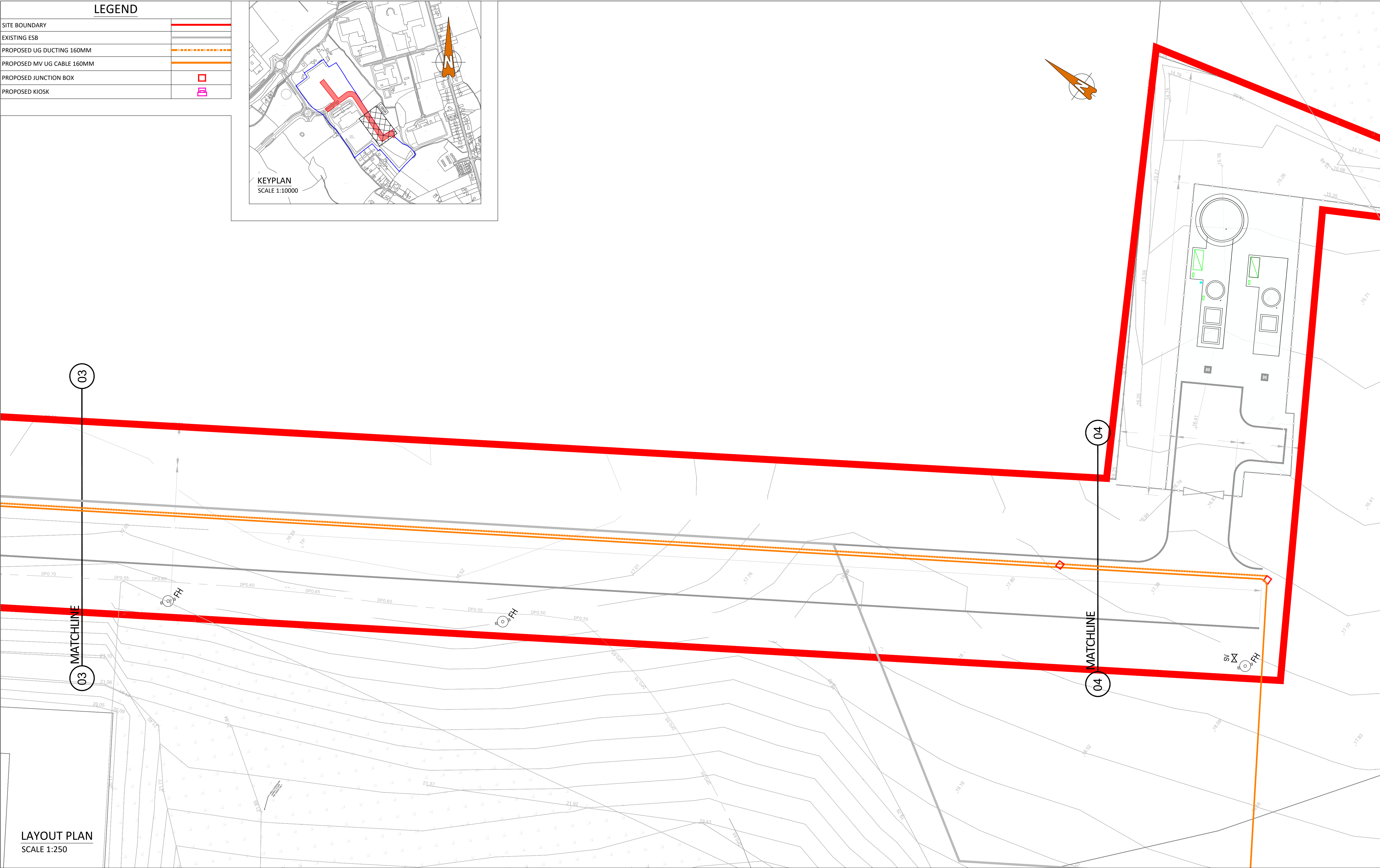
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Title:	PROPOSED ESB DUCTING LAYOUT PLAN SHEET 03 OF 05							
Code	Originator	Zone	Level	Type	Role	Number	Status	Revision
I454	OCSC	EW	XX	DR	C	0503	A1	C01
Date: 26.01.26 Scale: 1:250 @ A1 Drn by:TR Chkd by:LG Aprvd by:BOR								



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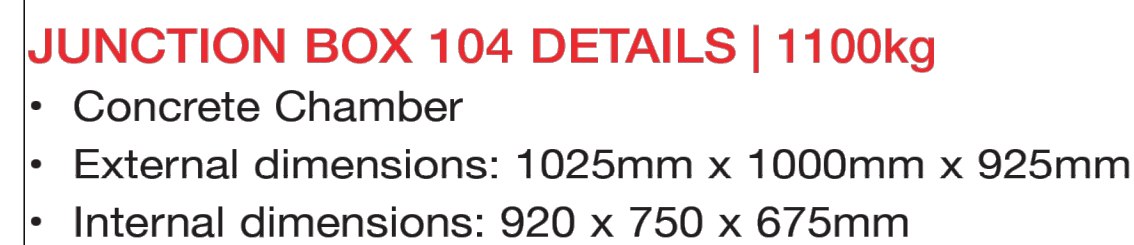
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Client: IDA IRELAND

Project: INFRASTRUCTURE DELIVERY AT
IDA DUNDALK SCIENCE AND TECHNOLOGY PARK

Title: PROPOSED ESB DUCTING
LAYOUT PLAN
SHEET 04 OF 05

Code	Originator	Zone	Level	Type	Role	Number	Status	Revision
I454	OCSC	EW	XX	DR	C	0504	A1	C01
Date: 26.01.26		Scale: 1:250	@ A1	Drn by: TR	Chkd by: LG	Aprvd by: BOR		



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Client:	IDA IRELAND
Project:	INFRASTRUCTURE DELIVERY AT IDA DUNDALK SCIENCE AND TECHNOLOGY PARK
Title:	PROPOSED ESB DUCTING STANDARD DETAILS SHEET 05 OF 05

Code	Originator	Zone	Level	Type	Role	Number	Status	Revision
I454	OCSC	EW	XX	DR	C	0505	A1	C01
Date: 26.01.26 Scale: 1:250 @ A1 Drn by:TR Chkd by:LG Aprvd by:BOR								

IWM NO: 5000569286

TITLE: IDA Mullagharlin

NOTES:
 Luke Grainger
 085 7662730

DESIGNED BY: MCCROSSAN_AD

SCALE: 1:2500

DATE: 14-Jul-2026

G/DESIGNER ID: 234207

X,Y: 304413 , 304121

X,Y: 305433 , 304121

This drawing should be read in conjunction with the 'National Code of Practice for Customer Interface' issued by ESB Networks

This drawing should be read in conjunction with the 'Electrical Services Guidebook' issued by ESB Networks

NOTE:
All Minipillars must have a VC2 vault installed immediately to the front

MV & LV COLOUR SCHEME

	NEW MV OH LINE
	NEW LV OH LINE
	EXISTING MV OH LINE
	EXISTING LV OH LINE
	NEW MV UG CABLE
	NEW LV UG CABLE
	EXISTING MV/LV UG CABLE
	NEW UG DUCT
	EXISTING UG DUCT
	3-PHASE
	1-PHASE

MV & LV COLOUR SCHEME

	NEW MV OH LINE
	NEW LV OH LINE
	EXISTING MV OH LINE
	EXISTING LV OH LINE
	NEW MV UG CABLE
	NEW LV UG CABLE
	EXISTING MV/LV UG CABLE
	NEW UG DUCT
	EXISTING UG DUCT
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MV & LV COLOUR SCHEME

	NEW MV OH LINE
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	EXISTING LV OH LINE
	NEW MV UG CABLE
	NEW LV UG CABLE
	EXISTING MV/LV UG CABLE
	NEW UG DUCT
	EXISTING UG DUCT
	3-PHASE
	1-PHASE

OVERHEAD NETWORK SYMBOLOGY

	POLE		FUSE
	1-PH TRAF0		SOLID LINK
	3-PH TRAF0		TRIPLE POLE SWITCH
	BOOSTER		RECLOSER
	STAY		AUTO-SECTIONALISER
			FAULT INDICATOR

OVERHEAD NETWORK SYMBOLOGY

	POLE		FUSE
	1-PH TRAF0		SOLID LINK
	3-PH TRAF0		TRIPLE POLE SWITCH
	BOOSTER		RECLOSER
	STAY		AUTO-SECTIONALISER
			FAULT INDICATOR

GROUND MOUNTED NETWORK SYMBOLOGY

	MV STATION		LV MINIPILLAR
	MV KIOSK		LV LINK BOX
	GENERATOR		LV WALLBOX
	38KV STATION		VAULT

GROUND MOUNTED NETWORK SYMBOLOGY

	MV STATION		LV MINIPILLAR
	MV KIOSK		LV LINK BOX
	GENERATOR		LV WALLBOX
	38KV STATION		VAULT

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The actual position of the gas/electricity distribution and transmission network must be verified on site before any mechanical excavating takes place. If any mechanical excavation is proposed, hard copy maps must be requested from GNI re gas.

All work in the vicinity of the gas distribution and transmission network must be completed in accordance with the current edition of the Health & Safety Authority publication, "Code of Practice For Avoiding Danger From Underground Services" which is available from the Health and Safety Authority (1800 28 93 89) or can be downloaded free of charge at www.hsa.ie.

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	GNI (GAS) TRANSMISSION (HIGH PRESSURE) PIPELINE
	GNI (GAS) DISTRIBUTION (MEDIUM PRESSURE)
	GNI (GAS) DISTRIBUTION (LOW PRESSURE) PIPELINE

	GNI (GAS) TRANSMISSION (HIGH PRESSURE) PIPELINE
	GNI (GAS) DISTRIBUTION (MEDIUM PRESSURE)
	GNI (GAS) DISTRIBUTION (LOW PRESSURE) PIPELINE

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	GNI (GAS) DISTRIBUTION (MEDIUM PRESSURE)
	GNI (GAS) DISTRIBUTION (LOW PRESSURE) PIPELINE

	THIS IS AN ESB NETWORKS MAP. GNI DISTRIBUTION PIPELINES MAY BE PRESENT BUT NOT INCLUDED ON THIS PLAN. A SEPARATE PLAN INDICATING LOCATIONS OF GNI DISTRIBUTION PIPELINES SHOULD BE OBTAINED IN THIS EVENTUALITY.
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	THIS IS AN ESB NETWORKS MAP. GNI DISTRIBUTION PIPELINES MAY BE PRESENT BUT NOT INCLUDED ON THIS PLAN. A SEPARATE PLAN INDICATING LOCATIONS OF GNI DISTRIBUTION PIPELINES SHOULD BE OBTAINED IN THIS EVENTUALITY.
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	HAZARDS:
	WORKS CARRIED OUT AS PER ESB NETWORKS POLICY, PROCEDURES AND STANDARDS
	KNOWN OR LIKELY POLE OR X-ARM ROT
	CORRODED OR DAMAGED CONDUCTOR

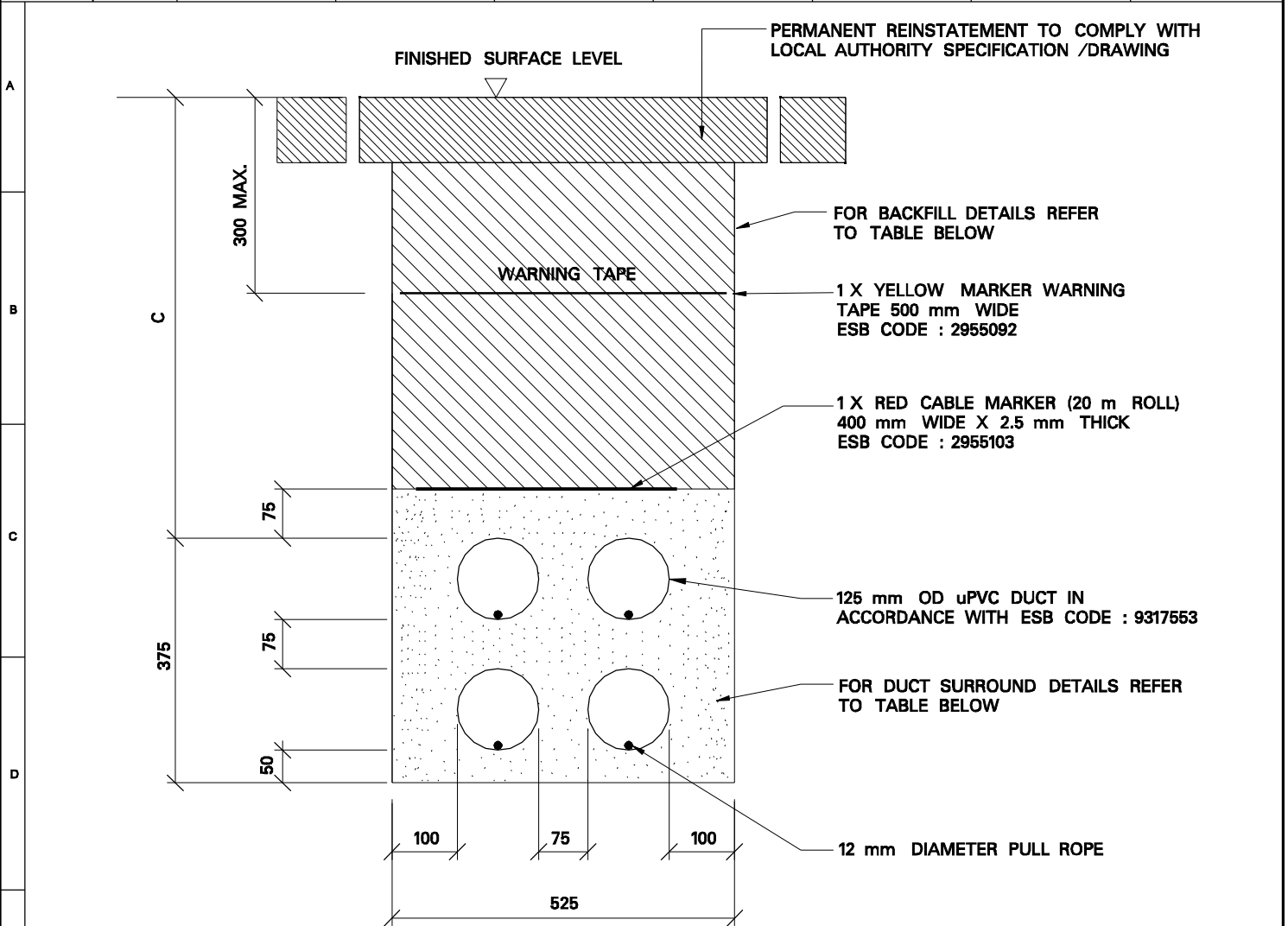
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X,Y: 305433 , 303433

X,Y: 305433 , 303433



TRENCH LOCATION	MIN. DEPTH OF COVER TO TOP OF DUCTS (C)	TRENCH BACKFILL DETAILS	DUCT SURROUND MATERIAL
EXISTING FOOTPATH (NON HOUSING ESTATE)	450 mm	CL 804	ESB N APPROVED SAND
NEW ESTATE & NON ESTATE FOOTPATH	600 mm	CL 804	ESB N APPROVED SAND
NEW & EXISTING ESTATE ROADS, ESTATE GRASS VERGES & ADJOINING ROADS	600 mm	CL 804	ESB N APPROVED SAND
ESTATE OPEN GRASSED AREAS	600 mm	SUITABLE BACKFILL MATERIAL	CBGM B
NEW & EXISTING NON ESTATE ROADS	750 mm	CL 804	ESB N APPROVED SAND
FARM LAND, FOREST TRACK, BOG LAND, PUBLIC OPEN GRASSED AREAS & PRIVATE PROPERTY	750 mm	CL 804	CBGM B

NOTES:

- RED CBGM B BACKFILL IN ACCORDANCE WITH CLAUSE 822 AND COMPACTED TO CLAUSE 813.10 AND TABLE 84 OF N.R.A. SPECIFICATION FOR ROADWORKS (15 N/mm² AFTER 7 DAYS)
- ESB N APPROVED WELL COMPACTED NATURAL UNWASHED SAND TO BS 882 OR EQUIVALENT MATERIAL APPROVED BY ESB NETWORKS. MAXIMUM THERMAL RESISTIVITY OF THE SURROUND MATERIAL SHALL BE 1.0 K.m/W AT 0% MOISTURE CONTENT

ESB International ESB International, Stephen Court, 48-54 St. Stephen's Green, Dublin 2, Ireland. Tel: (01) 703 8000 Fax: +353 (0)1 703 8086 Email: marketing@esb.ie Web: www.esb.ie ESB International is a trading name of ESB Engineering & Facility Management Limited. Registered Office: as above. Registered in Ireland No. 105548		<table border="1"> <tr> <td>1</td> <td>2011/13</td> <td>BACKFILL AND SURROUND MATERIALS REVISED</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>0</td> <td>06/06/13</td> <td>ISSUED FOR CONSTRUCTION</td> <td>GR</td> <td>GR</td> <td>TS</td> <td>MA</td> <td></td> </tr> <tr> <td>Rev</td> <td>Date</td> <td>Revision Description</td> <td>Dm</td> <td>Prod</td> <td>Ver</td> <td>App</td> <td></td> </tr> </table> Purpose of Issue - Preliminary unless indicated Tender ☐ Client Approval ☐ Construction ☒ As-built ☐ Revised ☐		1	2011/13	BACKFILL AND SURROUND MATERIALS REVISED						0	06/06/13	ISSUED FOR CONSTRUCTION	GR	GR	TS	MA		Rev	Date	Revision Description	Dm	Prod	Ver	App		<table border="1"> <tr> <td>Drawn</td> <td>Produced</td> <td>Verified</td> <td>Approved</td> <td>Approved date</td> </tr> <tr> <td>G.Ryan</td> <td>G.Ryan</td> <td>M.Amet</td> <td>T.Sheridan</td> <td>02/12/13</td> </tr> <tr> <td colspan="3">Client Ref</td> <td>No. of Shts</td> <td>Size</td> </tr> <tr> <td colspan="3">TC210096</td> <td>-</td> <td>A4</td> </tr> <tr> <td colspan="3">Drawing Number</td> <td colspan="2">Scale</td> </tr> <tr> <td colspan="3">PE424-D7002-008-003-001</td> <td colspan="2">N.T.S.</td> </tr> </table>		Drawn	Produced	Verified	Approved	Approved date	G.Ryan	G.Ryan	M.Amet	T.Sheridan	02/12/13	Client Ref			No. of Shts	Size	TC210096			-	A4	Drawing Number			Scale		PE424-D7002-008-003-001			N.T.S.	
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Client ESB NETWORKS		Project MV Standard Drawings		Drawing Title MV CIRCUIT TRENCH CROSS SECTION 4 WAY DUCT FORMATION																																																							
Contract MV CABLES STANDARDS		Production Unit Civil Building and Environmental																																																									

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