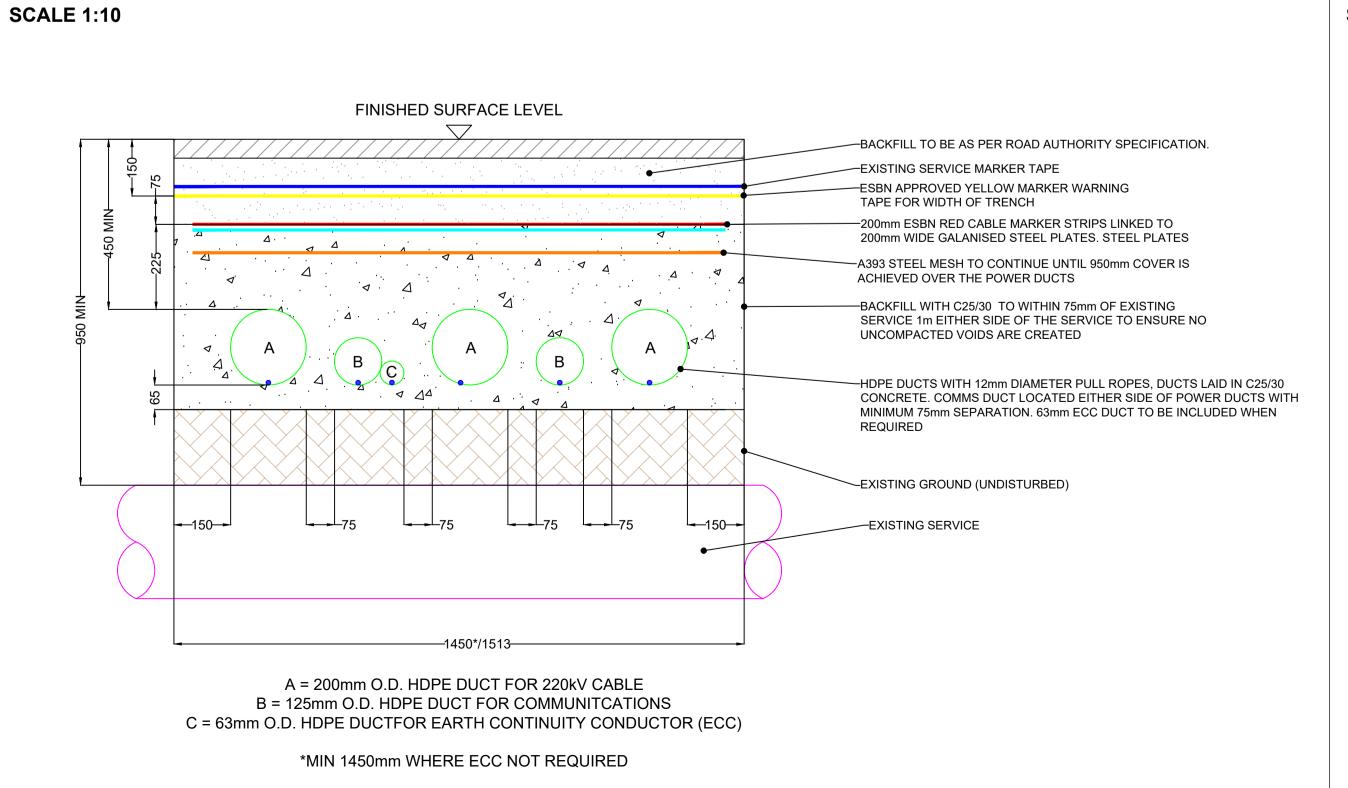


## SERVICE UNDERCROSSING IN TREFOIL FORMATION **SCALE 1:10**



SERVICE OVERCROSSING IN FLAT FORMATION

FI	NISHED SURFACE LEVEL	
		BACKFILL TO BE AS PER ROAD AUTHORITY SPECIFICATION.
100 MAX	- 10 MA	
450 MIN 75 - 75	100	ESBN APPROVED YELLOW MARKER WARNING TAPE FOR WIDTH OF TRENCH
MIN – 450	4	200mm ESBN RED CABLE MARKER STRIPS LINKED TO 200mm WIDE GALANISED STEEL PLATES.
650 MIN 45 225 225 775	4 150 44	A393 STEEL MESH TO CONTINUE UNTIL 950mm COVER IS ACHIEVED OVER THE POWER DUCTS
Δ.	B C B	BACKFILL WITH C25/30 TO WITHIN 75mm OF EXISTING SERVICE 1m EITHER SIDE OF THE SERVICE TO ENSURE NO UNCOMPACTED VOIDS ARE CREATED
1325 MIN-	A A A	HDPE DUCTS WITH 12mm DIAMETER PULL ROPES, DUCTS LAID IN C25/30 CONCRETE. COMMS DUCT LOCATED EITHER SIDE OF POWER DUCTS WITH MINIMUM 75mm SEPARATION. 63mm ECC DUCT TO BE INCLUDED WHEN REQUIRED
100	A A	EXISTING GROUND
150-	400 - 150	EXISTING SERVICE BEDDING MATERIAL

A = 200mm O.D. HDPE DUCT FOR 220kV CABLE

B = 125mm O.D. HDPE DUCT FOR COMMUNITCATIONS C = 63mm O.D. HDPE DUCTFOR EARTH CONTINUITY CONDUCTOR (ECC) Notes

Do not scale from drawings, use figured dimensions only. The engineering detail presented on this drawing is representative of, and accommodates all grid connection cable options, as set out in this Drawings are for planning only and should not be used for detailed design. The detailed design will be subject to EirGrid

approval based on their latest specifications at the time, and equipment dimensions/siting may vary once the exact specification are determined

Legend

RED MARKER STRIP

YELLOW MARKER WARNING TAPE

EXISTING SERVICE MARKER STRIP

6mm GALVANISED STEEL PLATE

ORANGE MARKER A393 STEEL MESH

RAPID HARDENING WET CONCRETE C25/30

CBGM B (CL 822) COMPACTED TO CL 813.10



BACKFILL TO BE AS PER ROAD AUTHORITY SPECIFICATION



**EXISTING GROUND** 

Design Team

Prepared By:

Reviewed By: **ARG Grid Solutions** Terra Solar Developments





## Revisions

REV	DATE	DESCRIPTION
0	09.09.25	Issued for Planning

Drawn By:	RH
Approved By:	ммс

Summary

Project

Ballyloo Substation & Grid Connection

Location

Ballyloo, Co. Carlow

Service Overcrossing

Drawing Number

BYLOO-DR-044

Scale

1:10 @ A1

Ballyloo Solar Farm Limited Commercial House Millbank Business Park Lucan Co. Dublin