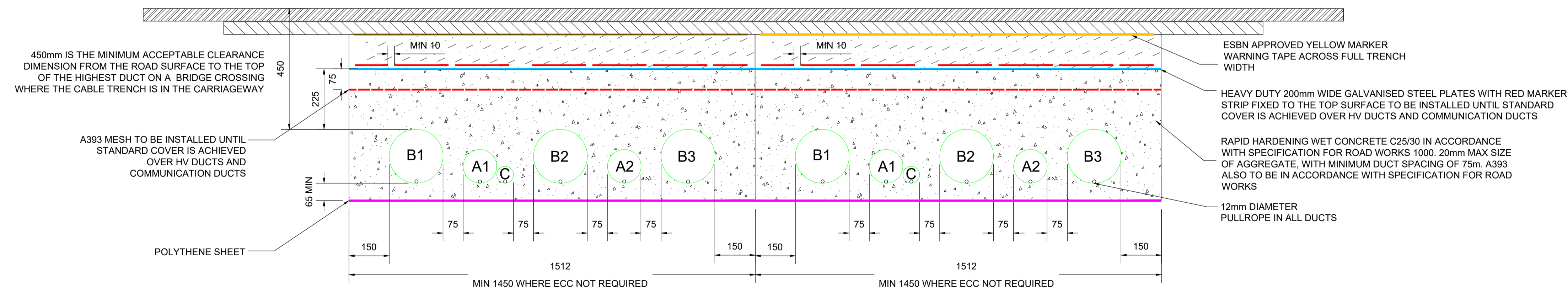


TYPICAL CROSS-SECTION - CROSSING OVER BRIDGE DECK - FULL FLAT FORMATION
SCALE NTS



TYPICAL CROSSING DETAIL OVER BRIDGE - FULL FLAT FORMATION
SCALE NTS

Key		
A = 125mm O.D. HDPE DUCT FOR COMMUNICATIONS, SDR=17.6		RAPID HARDENING WET CONCRETE C25/30
B = 200mm O.D. HDPE DUCT FOR HV CABLE, SDR=21		CBGM B (CL. 822), COMPACTED TO CL 813.10
C = 63mm O.D. HDPE DUCT FOR EARTH CONTINUITY CONDUCTOR, SDR=17.6		BACKFILL COMPACTED (CL. 804 OR ACCEPTABLE MATERIAL)
		YELLOW MARKER WARNING TAPE
		6mm GALVANISED STEEL PLATE
		TOP SOIL
		ACCEPTABLE REINSTATEMENT MATERIAL

- NOTES:
- THE REQUIREMENT FOR THE BRIDGE INSTALLATION SHALL BE AGREED THE REQUIREMENT FOR THE BRIDGE INSTALLATION SHALL BE AGREED IN ADVANCE BY THE CUSTOMER WITH THE LOCAL AUTHORITY, TII, OR RELEVANT PUBLIC/PRIVATE BODY.
 - ALL PRODUCTS AND MATERIALS TO BE UTILISED DURING CONSTRUCTION TO COMPLY WITH EIRGRID FUNCTIONAL SPECIFICATION, TII SPECIFICATION FOR ROAD WORKS AND ALL RELEVANT IRISH (EUROPEAN) AND BRITISH STANDARDS.
 - REINSTATEMENT TO BE AS PER TII SPECIFICATION FOR THE REINSTATEMENT TO BE AS PER TII SPECIFICATION FOR THE REINSTATEMENT OF OPENINGS IN NATIONAL ROADS. WHERE ENTIRE ROAD TO BE RELAID IT IS TO BE DONE AS PER TII SPECIFICATION FOR ROADWORKS.
 - 300mm MINIMUM VERTICAL AND HORIZONTAL CLEARANCES TO BE 300mm MINIMUM VERTICAL AND HORIZONTAL CLEARANCES TO BE OBSERVED BETWEEN CABLE DUCTS AND THIRD PARTY SERVICES (e.g. GAS PIPES, WATER MAINS, CULVERTS, etc.) IN THE CASE OF HIGH RISK 3rd PARTY SERVICES, GREATER CLEARANCES MAY BE REQUIRED. DESIGNER TO CONSULT EIRGRID AND 3rd PARTY SERVICE OWNERS FOR GUIDANCE.
 - STEEL PLATES MUST COVER DUCTS. SPACING OF 10mm TO BE MAINTAINED BETWEEN STEEL PLATES TO PREVENT THE TRANSFER OF STRAY CURRENT.
 - THE MINIMUM CLEARANCE BETWEEN ALL HV AND COMMUNICATION THE MINIMUM CLEARANCE BETWEEN ALL HV AND COMMUNICATION DUCTS IS 75mm, BUT INCREASED SPACING MAY BE REQUIRED IN ORDER TO ACHIEVE THE CABLE RATING (CABLE RATING CALCULATIONS TO BE PROVIDED FOR ACCEPTANCE).
 - THIS DRAWING IS TO BE USED TO AID THE PROJECT SPECIFIC THIS DRAWING IS TO BE USED TO AID THE PROJECT SPECIFIC CONSTRUCTION DESIGN PRODUCTION. 8. TEMPLATES ARE TO BE USED AT 3m INTERVALS DURING DUCT INSTALLATION. PRE-MADE 75mm WIDE CONCRETE SPACERS TO BE USED FOR INSTALLATION IN WET CONCRETE.
 - MINIMUM BURIAL DEPTH IS 450mm. MINIMUM BURIAL DEPTH IS 450mm.
 - ROADS WITH EXISTING DEEP ASPHALT REQUIRE A MINIMUM 225 mm DEEP ASPHALT REQUIRE A MINIMUM 225 mm FROM THE UNDERSIDE OF THE EXISTING ASPHALT TO THE TOP OF THE CABLE DUCT. 11. WHERE DUCT FOR EARTH CONTINUITY CONDUCTOR (ECC) IS REQUIRED, WHERE DUCT FOR EARTH CONTINUITY CONDUCTOR (ECC) IS REQUIRED, ATTACH THE 63 mm DUCT TO DUCT A1. 12. 225 mm MINIMUM CONCRETE OVER DUCTS WHERE THEY TRANSITION 225 mm MINIMUM CONCRETE OVER DUCTS WHERE THEY TRANSITION FROM STANDARD CROSS SECTION AND WHERE THEY ARE AT LESS THAN STANDARD COVER TO GROUND LEVEL. 13. POLYTHENE LAYER TO BE INSTALLED IF THE TRENCH IS INSTALLED POLYTHENE LAYER TO BE INSTALLED IF THE TRENCH IS INSTALLED DIRECTLY ON THE BRIDGE
 - EXACT DUCT SPACING AND TRENCH WIDTHS TO BE CONFIRMED FOLLOWING THERMAL CALCULATIONS AND CONSULTATION WITH EIRGRID.

- GENERAL NOTES:
- REFER TO DRAWINGS 281240-ARP-ON-CR-DR-PL-1100 TO 1164 FOR PROPOSED ONSHORE CABLE ROUTE.
 - TYPICAL DETAILS BASED ON EIRGRID FUNCTIONAL SPECIFICATIONS. REFER TO OFD-SSS-526, OFD-SSS-527, OFD-SSS-528, OFD-SSS-528, OFD-SSS-529, OFD-SSS-530, OFD-SSS-531, & OFD-SSS-532.
 - REFER TO DRAWINGS 281240-ARP-SO-XX-DR-PL-1168 FOR TYPICAL LAYOUT OF HORIZONTAL DIRECTIONAL DRILLING (HDD) COMPOUND.

Rev	Date	By	Chkd	Appd
C01	May 2024	EAM	RM	MD
D00	13.03.24	SB	RM	MD



Client
North Irish Sea Array Windfarm Ltd.
Project Title
North Irish Sea Array Offshore Windfarm

NISA
North Irish Sea Array

Drawing Title
TYPICAL BRIDGE DECK CROSSING DETAIL

Scale at A1	AS INDICATED
Role	Civil
Suitability	A2 - Approved for Planning
Arup Job No	Rev
281240	C01
Name	
281240-ARP-ONS-XX-DR-PL-3005	