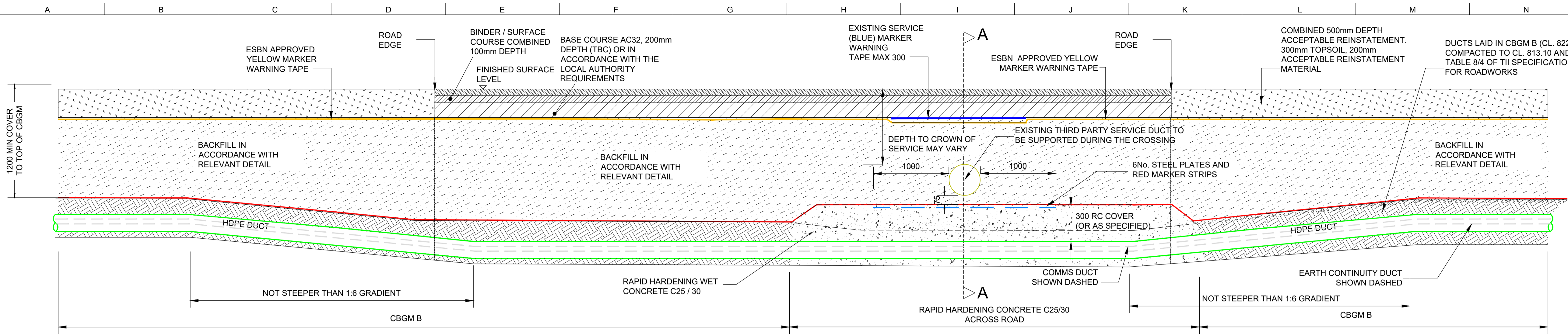
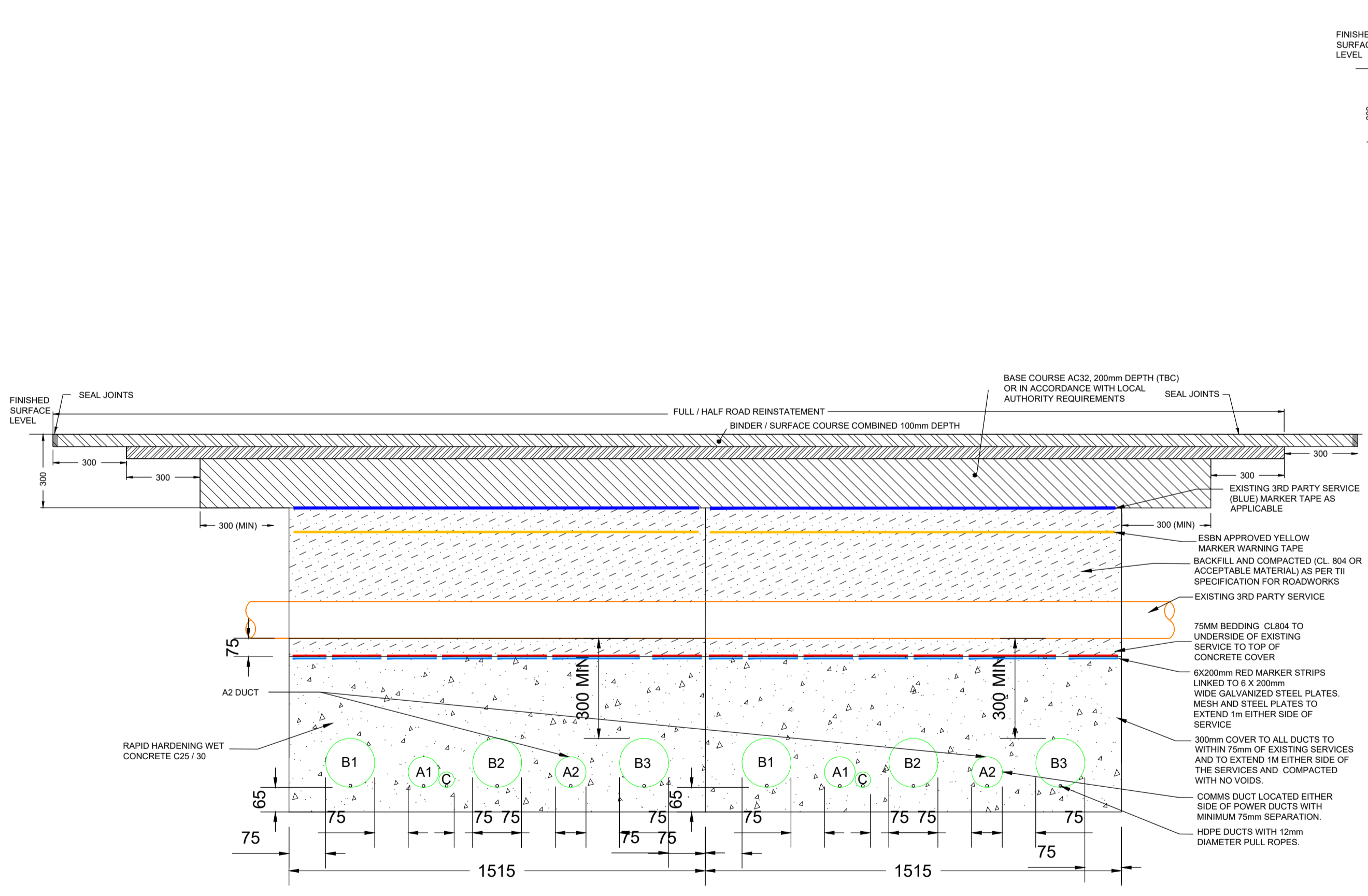


A1  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10

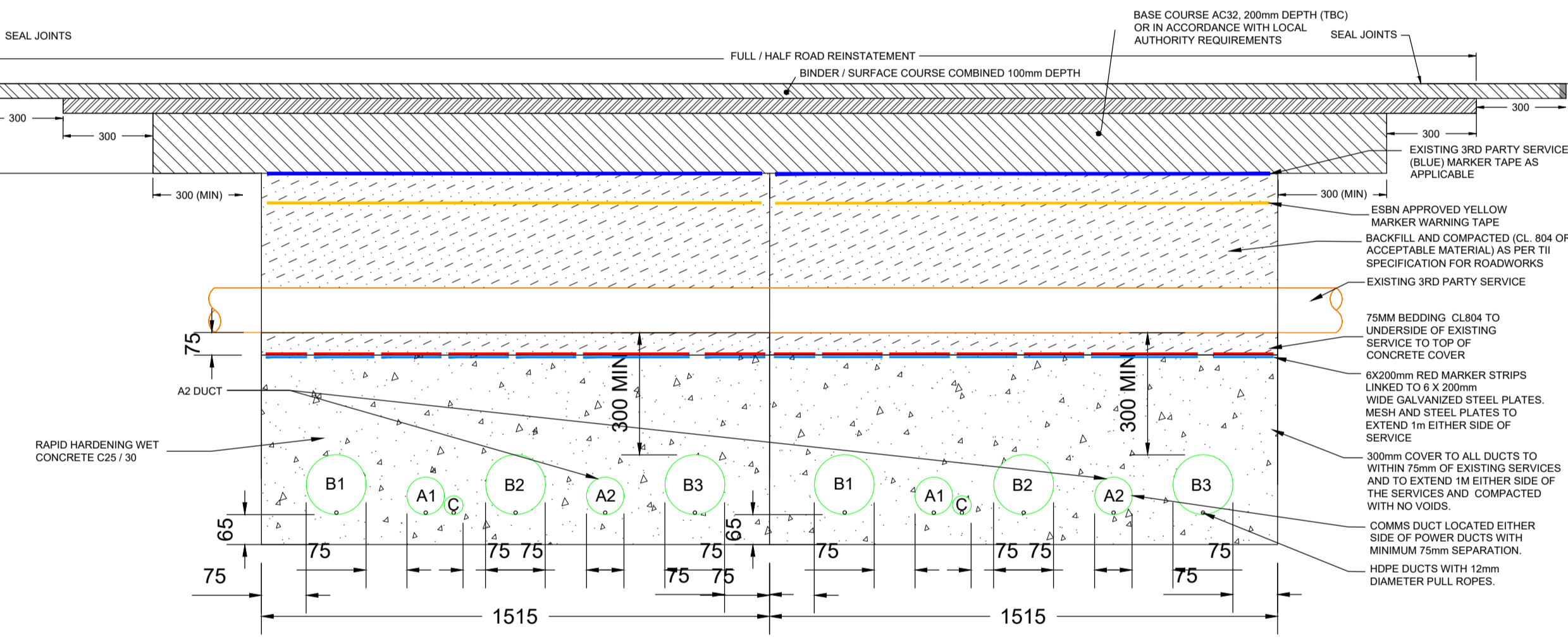


**TYPICAL FULL FLAT FORMATION IN-LINE CROSS SECTION UNDER 3RD PARTY SERVICE (ALONG CARRIAGEWAY)**  
NOT TO SCALE

- NOTES:
1. ALL PRODUCTS AND MATERIALS TO BE UTILIZED DURING CONSTRUCTION TO COMPLY WITH EIRGRID FUNCTIONAL SPECIFICATION, ESBN STANDARDS, TII SPECIFICATION FOR ROADWORKS, AND ALL RELEVANT IRISH (EUROPEAN) AND BRITISH STANDARDS.
  2. 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.
  3. STEEL PLATES MUST COVER DUCTS. NO OVERLAP IS REQUIRED HOWEVER STANDARD DIMENSIONS MAY RESULT IN AN OVERLAP. MAX SPACING OF 10mm TO BE MAINTAINED BETWEEN STEEL PLATES TO PREVENT THE TRANSFER OF STRAY CURRENT.
  4. THIS DRAWING IS TO BE USED TO AID THE PROJECT SPECIFIC CONSTRUCTION DESIGN PRODUCTION.
  5. TEMPLATES ARE TO BE USED AT 3m INTERVALS DURING DUCT INSTALLATION IN CBGM. PRE-MADE 75mm WIDE CONCRETE SPACERS TO BE USED DURING DUCT INSTALLATION IN WET CONCRETE.
  6. MINIMUM BURIAL DEPTH IS 450mm.
  7. HAND DIG WITHIN 500mm OF EXISTING SERVICE.
  8. 75mm MINIMUM SEPARATION IS TO BE MAINTAINED BETWEEN THE COMMUNICATIONS DUCTS AND POWER DUCTS WHEN CHANGING TRENCH FORMATION.
  9. EXACT DUCT SPACING AND TRENCH WIDTHS TO BE CONFIRMED FOLLOWING THERMAL CALCULATIONS AND CONSULTATION WITH EIRGRID.



**TYPICAL FULL FLAT FORMATION IN LINE CROSS SECTION UNDER 3RD PARTY SERVICE (CROSSING CARRIAGEWAY)**  
NOT TO SCALE



**SECTION A-A**

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

- GENERAL NOTES:
1. REFER TO DRAWINGS 281240-ARP-ON-CR-DR-PL-1100 TO 1164 FOR PROPOSED ONSHORE CABLE ROUTE.
  2. 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.
  3. REFER TO DRAWINGS 281240-ARP-ONS-XX-DR-PL-1166 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



Project Title  
North Irish Sea Array  
Offshore Windfarm

Drawing Title  
UTILITY CROSSING UNDER  
3RD PARTY SERVICES - TYPICAL  
DETAILS  
SHEET 1 OF 2

Scale at A1 AS INDICATED

Role	Civil
Suitability	A2 - Approved for Planning
Arup Job No	281240
Name	281240-ARP-ONS-XX-DR-PL-3001
Rev	C01