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DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK

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STANDARD 220kV CABLE DRAWINGS
STANDARD CROSSING ABOVE
3rd PARTY SERVICE FOR 200mm DUCTS

DRAWING No.	SHEET No.	DESCRIPTION	REVISION No.
XDC-CBL-STND-F-001	001	STANDARD 3rd PARTY CROSSING 200mm OD HV DUCTS INDEX SHEET	00
XDC-CBL-STND-F-001	002	STANDARD 3rd PARTY CROSSING ABOVE IN FULL FLAT FORMATION 200mm OD HV DUCTS	00
XDC-CBL-STND-F-001	003	STANDARD 3rd PARTY CROSSING ABOVE IN TREFOIL FORMATION 200mm OD HV DUCTS	00

PLEASE NOTE:
EIRGRID PREFERENCE IS TO CROSS THIRD PARTY SERVICES AS PER DRAWING NO. XDC-CBL-STND-F-002.
THE CROSSING SOLUTION ILLUSTRATED IN THIS DRAWING MAY ONLY BE USED FOLLOWING AGREEMENT WITH EIRGRID

00	FIRST ISSUE	MBG	DG	NC	20/02/23
REV	DESC	DRAWN	CHK'D	APP'D	DATE

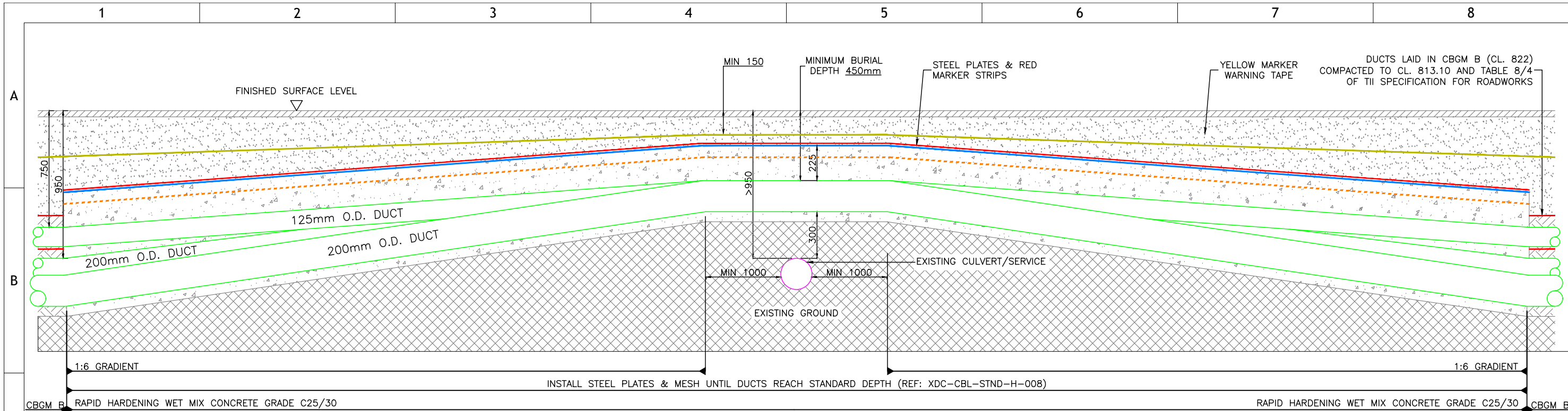


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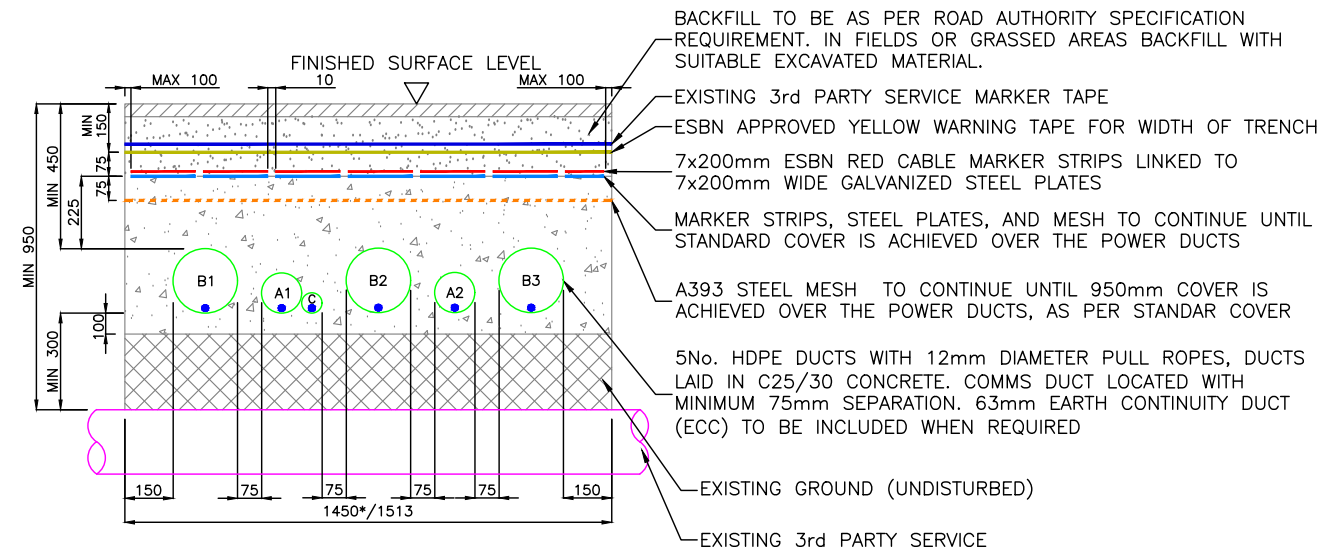
PROJECT STANDARD 220kV CABLE DRAWINGS			
DRAWING TITLE STANDARD 3rd PARTY CROSSING 200mm OD HV DUCTS INDEX SHEET			
No of Shts	3	SIZE	A3
SCALE	N/A		
DRAWING NUMBER XDC-CBL-STND-F-001		SHEET 001	REV 00

DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK



- NOTES:**
- ALL PRODUCTS AND MATERIALS TO BE UTILISED DURING CONSTRUCTION TO COMPLY WITH EIRGRID FUNCTIONAL SPECIFICATION, ESNB STANDARDS, TII SPECIFICATION FOR ROAD WORKS AND ALL RELEVANT IRISH (EUROPEAN) AND BRITISH STANDARDS.
 - 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. 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.
 - THE MINIMUM CLEARANCE BETWEEN ALL HV AND COMMUNICATION DUCTS IS 75mm, BUT INCREASED SPACING MAY BE REQUIRED IN ORDER TO ACHIEVE THE CABLE RATING (TO BE CONFIRMED BY DESIGNER CABLE RATING CALCULATIONS).
 - THIS DRAWING IS TO BE USED TO AID THE PROJECT SPECIFIC CONSTRUCTION DESIGN PRODUCTION.
 - 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.
 - MINIMUM BURIAL DEPTH IS 450mm.
 - HAND DIG WITHIN 500mm OF EXISTING SERVICE.
 - FOR TYPICAL TRENCH CROSS SECTION DRAWING NUMBER PLEASE REFER TO XDC-CBL-STND-F-008 DRAWING.
 - THE MINIMUM 75mm SEPARATION IS TO BE MAINTAINED BETWEEN THE COMMUNICATIONS DUCTS AND POWER DUCTS EVEN DURING CHANGE OF FORMATION.
 - EIRGRID PREFERENCE IS TO CROSS UNDER EXISTING SERVICES AS PER DRAWING NO. XDC-CBL-STN-F-003. THIS DRAWING MAY ONLY BE USED FOLLOWING WRITTEN CONFIRMATION FROM EIRGRID CLIENT ENGINEER ON A CASE BY CASE BASIS.**
- LEGEND:**
- ORANGE MARKER A393 STEEL MESH
 - 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 TO BE AS PER ROAD AUTHORITY SPECIFICATION REQUIREMENT. IN FIELDS OR GRASSED AREAS BACKFILL WITH SUITABLE EXCAVATED MATERIAL.
 - EXISTING GROUND

FULL FLAT FORMATION – REDUCED DEPTH FOR CROSSING OVER 3RD PARTY SERVICE



A= 125mm O.D. HDPE DUCT FOR COMMUNICATIONS
B= 200mm O.D. HDPE DUCT FOR HV CABLE
C= 63mm O.D. HDPE DUCT FOR EARTH CONTINUITY CONDUCTOR

* MIN 1450mm WHERE ECC NOT REQUIRED



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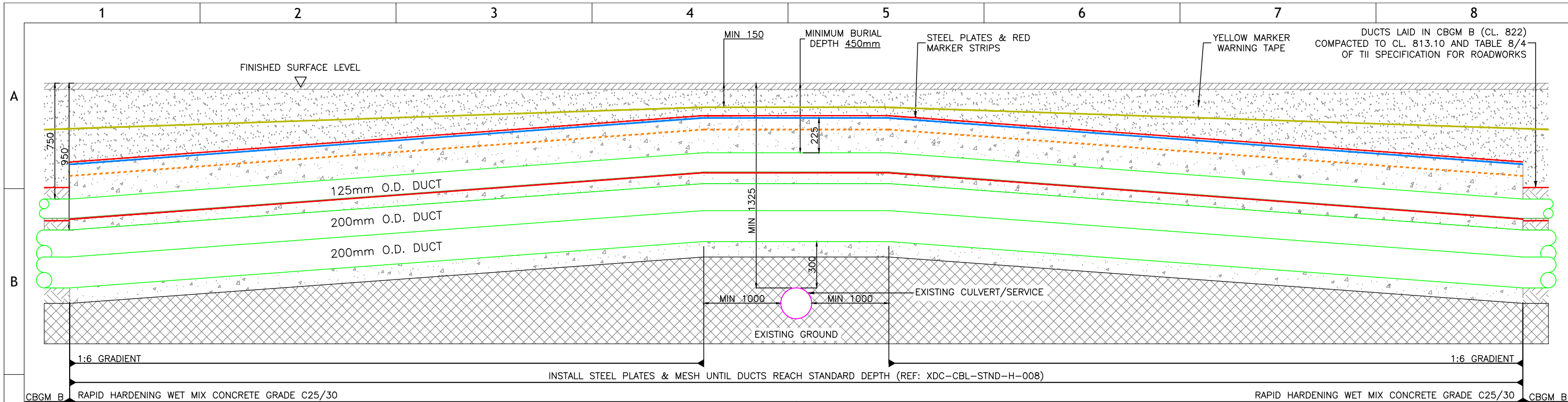
PROJECT
STANDARD 220kV CABLE DRAWINGS

DRAWING TITLE
**STANDARD 3rd PARTY CROSSING
ABOVE IN FULL FLAT FORMATION
200mm OD HV DUCTS**

No of Shts	3	SIZE	A3	SCALE	N/A
DRAWING NUMBER	XDC-CBL-STND-F-001			SHEET	002
				REV	00

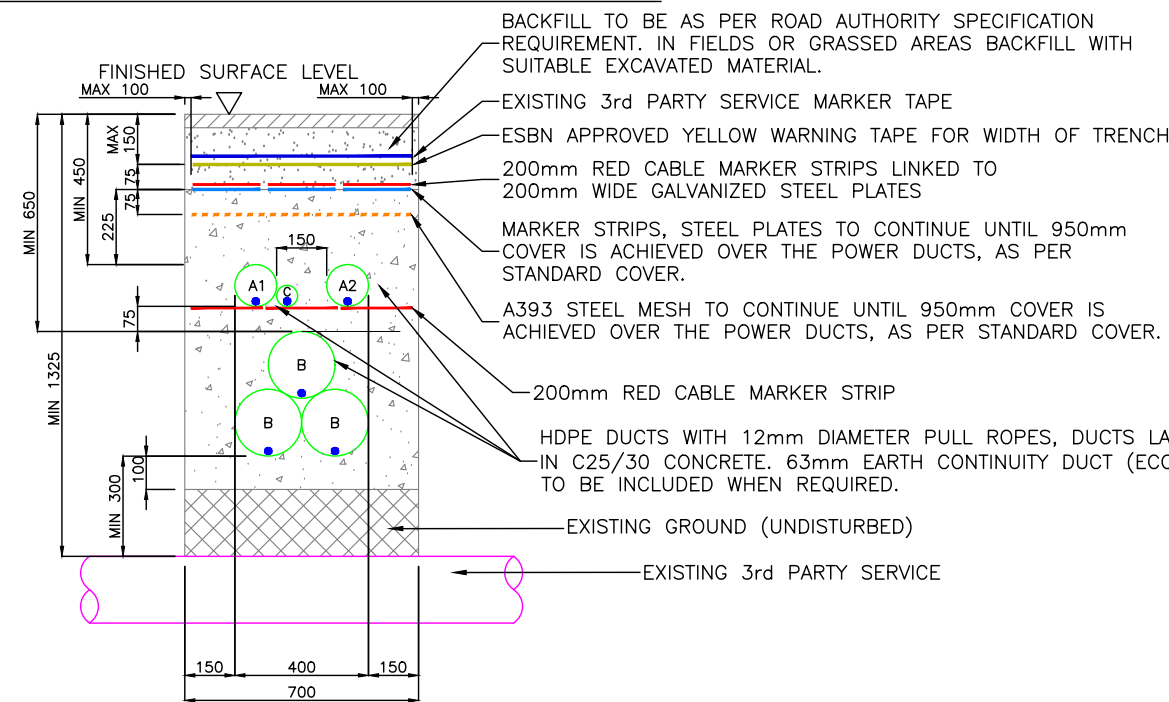
00	FIRST ISSUE	MBG	DG	NC	20/02/23
REV	DESC	DRAWN	CHK'D	APP'D	DATE

DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK



- NOTES:**
- ALL PRODUCTS AND MATERIALS TO BE UTILISED DURING CONSTRUCTION TO COMPLY WITH EIRGRID FUNCTIONAL SPECIFICATION, ESNB STANDARDS, TII SPECIFICATION FOR ROAD WORKS AND ALL RELEVANT IRISH (EUROPEAN) AND BRITISH STANDARDS.
 - 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. 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.
 - THIS DRAWING IS TO BE USED TO AID THE PROJECT SPECIFIC CONSTRUCTION DESIGN PRODUCTION.
 - 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.
 - MINIMUM BURIAL DEPTH IS 450mm.
 - HAND DIG WITHIN 500mm OF EXISTING SERVICE.
 - FOR TYPICAL TRENCH CROSS SECTION DRAWING NUMBER PLEASE REFER TO XDC-CBL-STND-F-008 DRAWING.
 - 75mm MINIMUM SEPARATION IS TO BE MAINTAINED BETWEEN THE COMMUNICATIONS DUCTS AND POWER DUCTS WHEN CHANGING TRENCH FORMATION.
 - EIRGRID PREFERENCE IS TO CROSS UNDER EXISTING SERVICES AS PER DRAWING NO. XDC-CBL-STN-F-003. THIS DRAWING MAY ONLY BE USED FOLLOWING WRITTEN CONFIRMATION FROM EIRGRID CLIENT ENGINEER ON A CASE BY CASE BASIS.**
- ORANGE MARKER A393 STEEL MESH
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 TO BE AS PER ROAD AUTHORITY SPECIFICATION REQUIREMENT. IN FIELDS OR GRASSED AREAS BACKFILL WITH SUITABLE EXCAVATED MATERIAL.
EXISTING GROUND

TREFOIL FORMATION – REDUCED DEPTH FOR CROSSING OVER 3RD PARTY SERVICE



A = 125mm O.D. HDPE DUCT FOR COMMUNICATIONS
B = 200mm O.D. HDPE DUCT FOR HV CABLE
C = 63mm O.D. HDPE DUCT FOR EARTH CONTINUITY CONDUCTOR

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PROJECT

STANDARD 220kV CABLE DRAWINGS

DRAWING TITLE

STANDARD 3rd PARTY CROSSING ABOVE IN TREFOIL FORMATION 200mm OD HV DUCTS

No of Shts	3	SIZE	A3	SCALE	N/A
DRAWING NUMBER	XDC-CBL-STND-F-001		SHEET	003	REV
			00		

00	FIRST ISSUE	MBG	DG	NC	20/02/23
REV	DESC	DRAWN	CHK'D	APP'D	DATE

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DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK

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B								
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STANDARD 220kV CABLE DRAWINGS
STANDARD CROSSING BELOW
3rd PARTY SERVICE FOR 200mm DUCTS

DRAWING No.	SHEET No.	DESCRIPTION	REVISION No.
XDC-CBL-STND-F-002	001	STANDARD 3rd PARTY CROSSING 200mm INDEX SHEET	00
XDC-CBL-STND-F-002	002	STANDARD 3rd PARTY CROSSING 200mm BELOW IN FULL FLAT FORMATION	00
XDC-CBL-STND-F-002	003	STANDARD 3rd PARTY CROSSING 200mm BELOW IN TREFOIL FORMATION	00

00	FIRST ISSUE	MBG	DG	NC	20/02/23
REV	DESC	DRAWN	CHK'D	APP'D	DATE

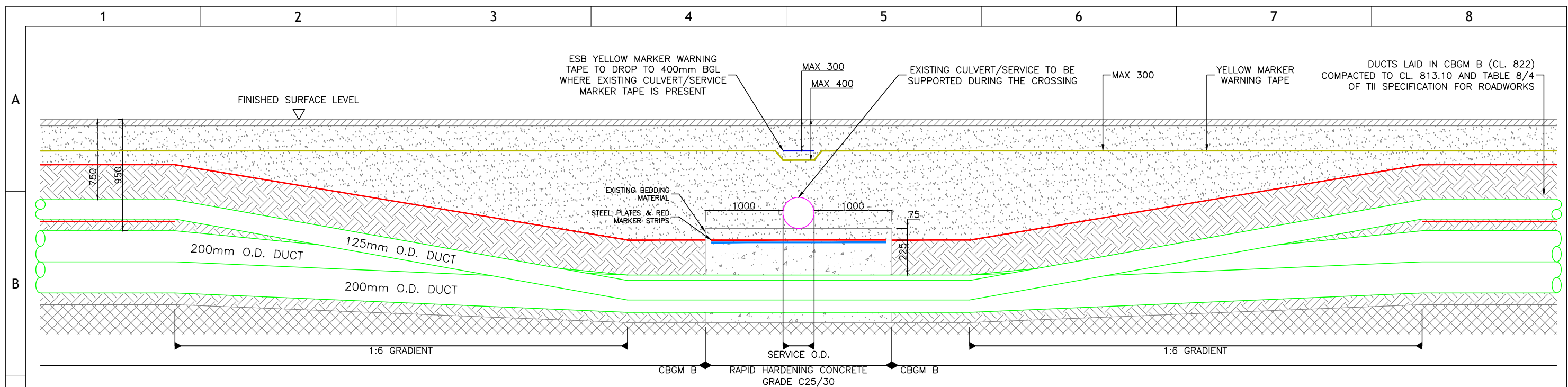


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Ballsbridge, Dublin 4, Ireland

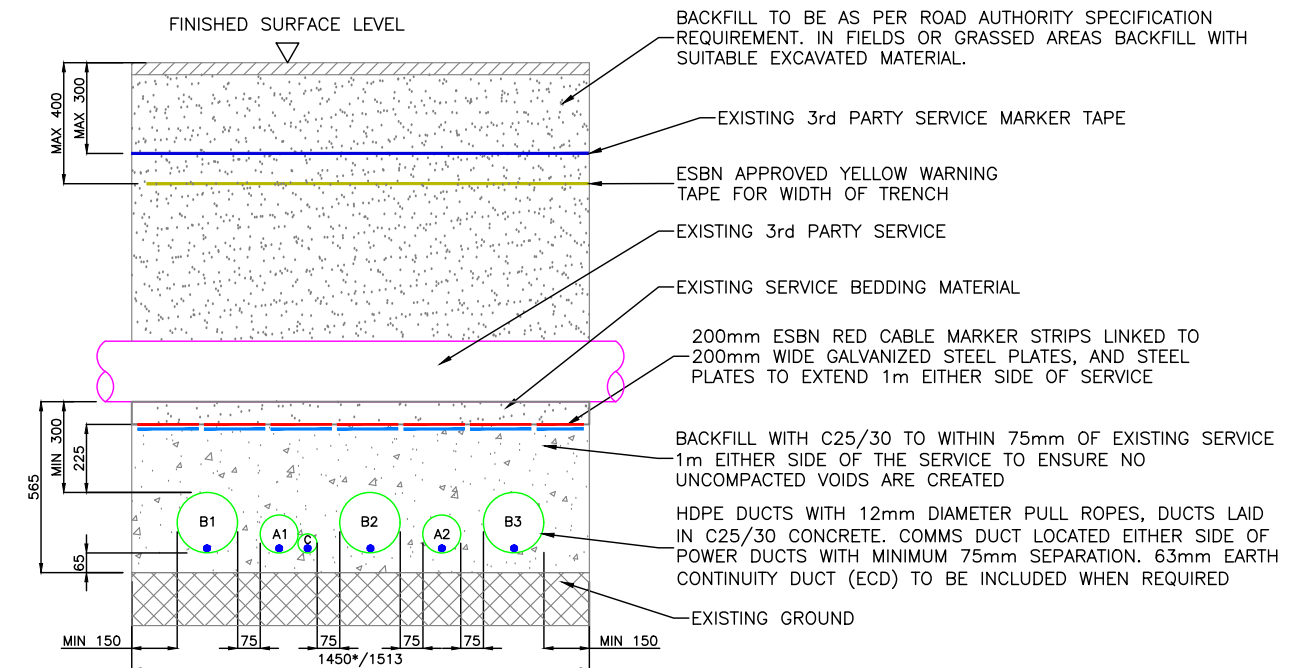
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PROJECT STANDARD 220kV CABLE DRAWINGS		
DRAWING TITLE STANDARD 3rd PARTY CROSSING 200mm INDEX SHEET		
No of Shts 3	SIZE A3	SCALE N/A
DRAWING NUMBER XDC-CBL-STND-F-002		SHEET 001
		REV 00



FULL FLAT FORMATION FOR CROSSING
BELOW 3RD PARTY SERVICE



A= 125mm O.D. HDPE DUCT FOR COMMUNICATIONS
B= 200mm O.D. HDPE DUCT FOR HV CABLE
C= 63mm O.D. HDPE DUCT FOR EARTH CONTINUITY CONDUCTOR

* MIN 1450mm WHERE ECC NOT REQUIRED



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PROJECT

STANDARD 220kV CABLE DRAWINGS

DRAWING TITLE

STANDARD 3rd PARTY CROSSING
200mm BELOW IN FULL FLAT
FORMATION

No of Shts	
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3

SCALE	N/A
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	DRAWING NUMBER
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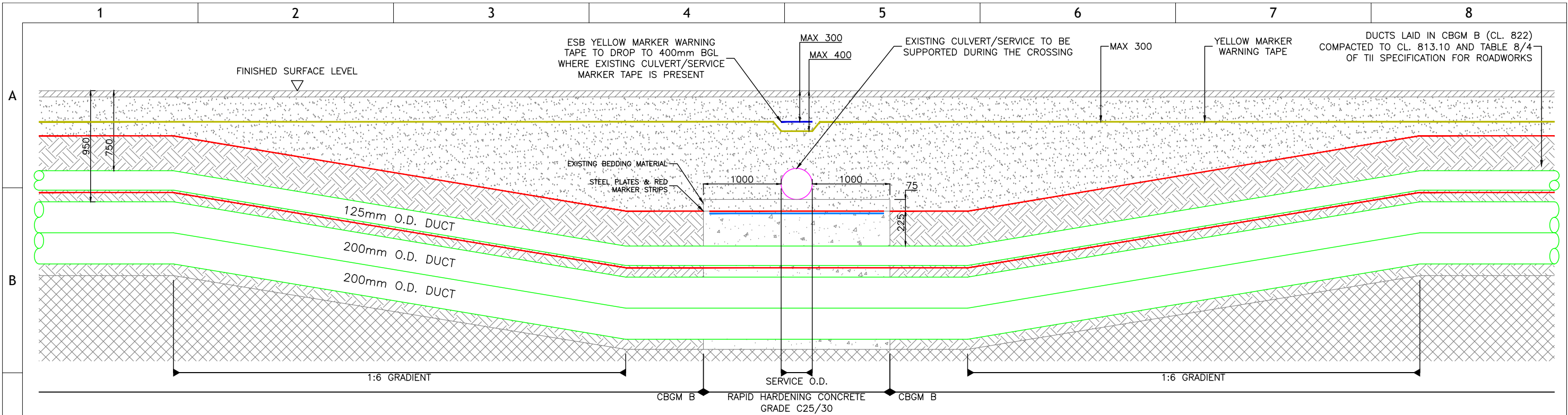
XDC-CBI-STND-F-002

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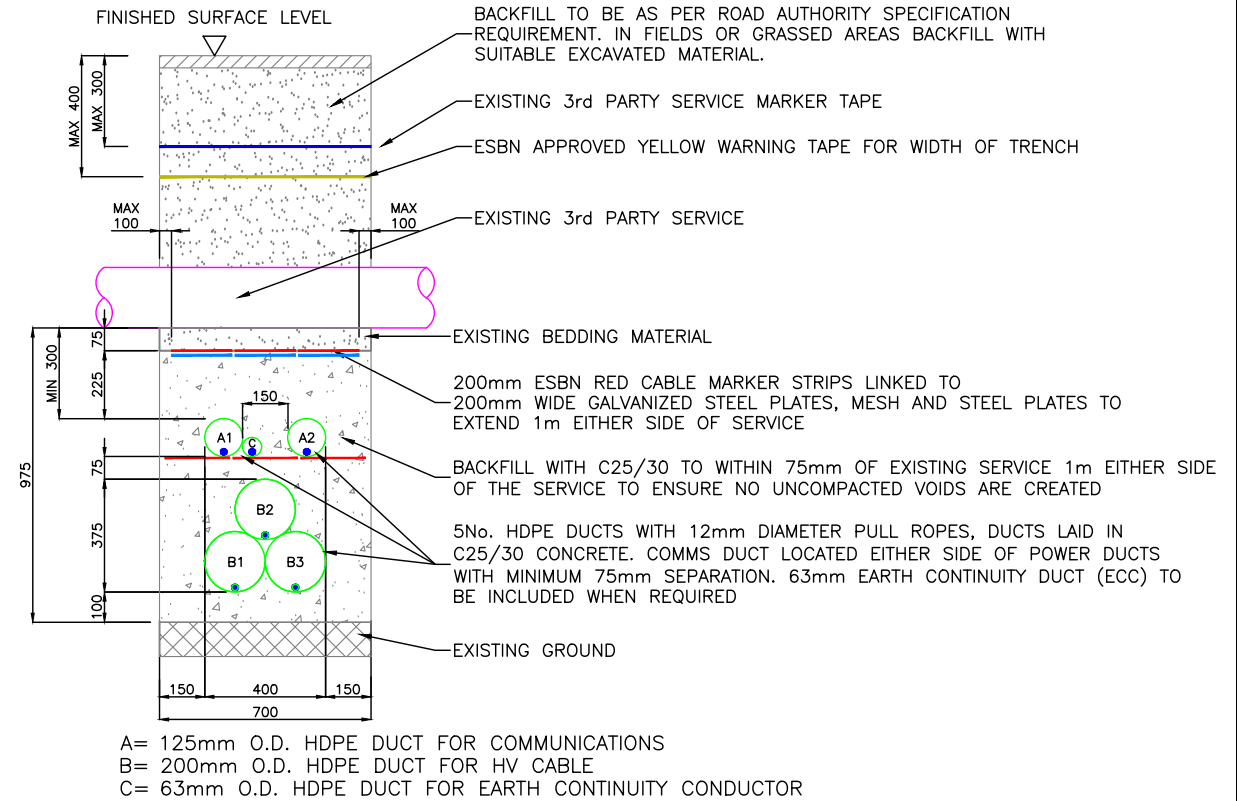


NOTES:

1. ALL PRODUCTS AND MATERIALS TO BE UTILISED DURING CONSTRUCTION TO COMPLY WITH EIRGRID FUNCTIONAL SPECIFICATION, ESNB STANDARDS, TII SPECIFICATION FOR ROAD WORKS 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. THE MINIMUM CLEARANCE BETWEEN ALL HV AND COMMUNICATION DUCTS IS **75mm**, (CABLE RATING CALCULATIONS TO BE PROVIDED FOR ACCEPTANCE).
5. THIS DRAWING IS TO BE USED TO AID THE PROJECT SPECIFIC CONSTRUCTION DESIGN PRODUCTION.
6. 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.
7. MINIMUM SPACING BETWEEN POWER DUCTS TO BE CONFIRMED WITH RATING CALCULATION.
8. HAND DIG WITHIN 500mm OF EXISTING SERVICE.
9. FOR TYPICAL TRENCH CROSS SECTION DRAWING NUMBER PLEASE REFER TO XDC-CBL-STND-F-008 DRAWING.
10. IF EXISTING SERVICE MARKER TAPE IS NOT PRESENT, THE ESNB YELLOW MARKER TAPE SHOULD BE INSTALLED AT MAXIMUM 300mm BELOW FINISHED SURFACE LEVEL.

- 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 TO BE AS PER ROAD AUTHORITY SPECIFICATION REQUIREMENT. IN FIELDS OR GRASSED AREAS BACKFILL WITH SUITABLE EXCAVATED MATERIAL.
- EXISTING GROUND

TREFOIL FORMATION FOR CROSSING
BELOW 3RD PARTY SERVICE



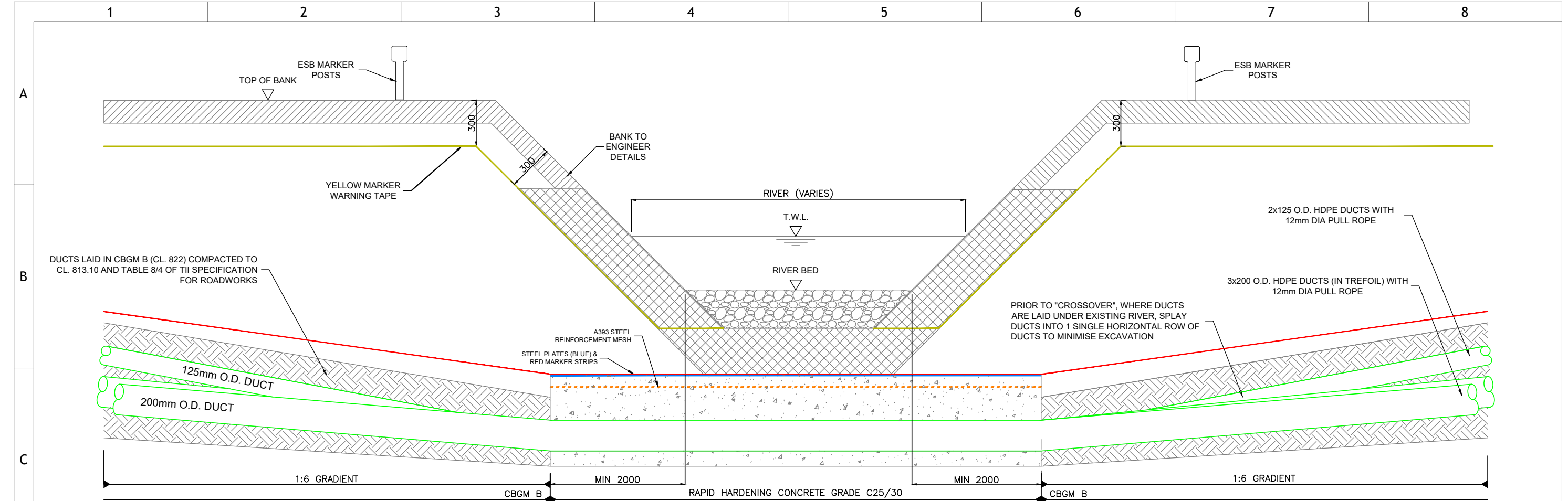
 EirGrid plc The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland Telephone: +353 1 677 1700 Fax: +353 1 661 5375 Email: info@eirgrid.com Web: www.eirgrid.com	PROJECT STANDARD 220kV CABLE DRAWINGS		
	DRAWING TITLE STANDARD 3rd PARTY CROSSING 200mm BELOW IN TREFOIL FORMATION		
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	DRAWING NUMBER XDC-CBL-STND-F-002		SHEET 003

00	FIRST ISSUE	MBG	DG	NC	20/02/23
REV	DESC	DRAWN	CHK'D	APP'D	DATE



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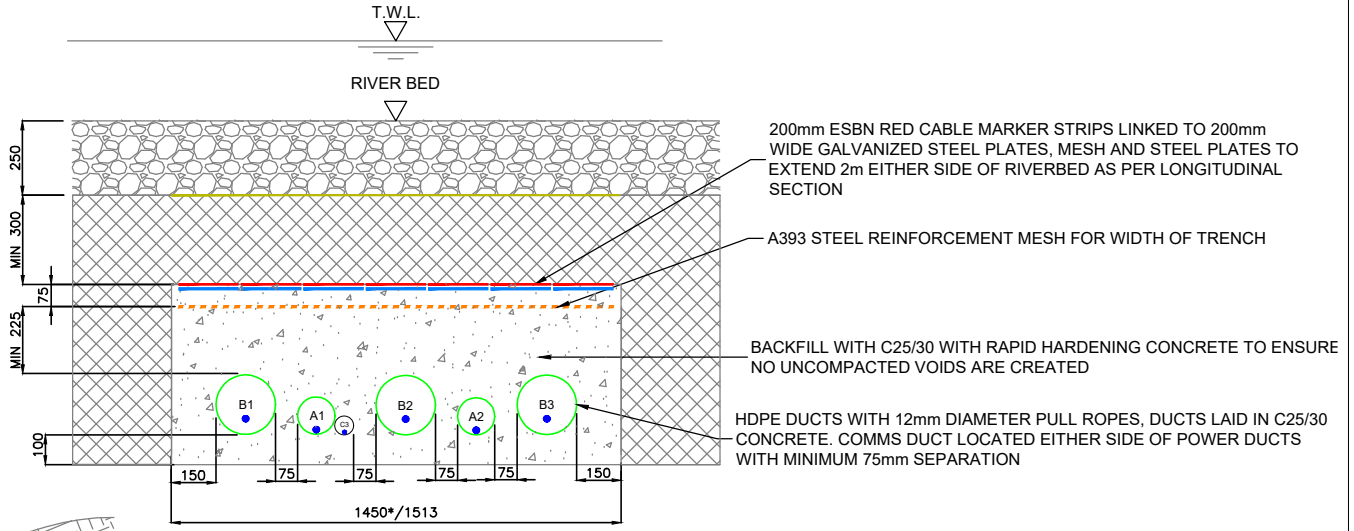
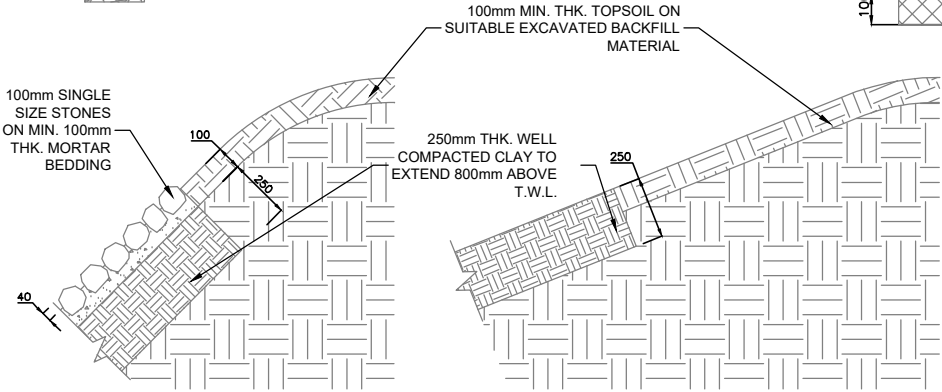
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A	STANDARD 220kV CABLE DRAWINGS STANDARD CROSSING BELOW RIVERBED FOR 200mm DUCTS																																														
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D	<table><tr><th>DRAWING No.</th><th>SHEET No.</th><th>DESCRIPTION</th><th>REVISION No.</th></tr><tr><td>XDC-CBL-STND-F-005</td><td>001</td><td>STANDARD RIVERBED CROSSING INDEX SHEET</td><td>00</td></tr><tr><td>XDC-CBL-STND-F-005</td><td>002</td><td>STANDARD FOR RIVERBED CROSSING OR OPEN DRAINS</td><td>00</td></tr></table>							DRAWING No.	SHEET No.	DESCRIPTION	REVISION No.	XDC-CBL-STND-F-005	001	STANDARD RIVERBED CROSSING INDEX SHEET	00	XDC-CBL-STND-F-005	002	STANDARD FOR RIVERBED CROSSING OR OPEN DRAINS	00																												
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XDC-CBL-STND-F-005	002	STANDARD FOR RIVERBED CROSSING OR OPEN DRAINS	00																																												
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F	<table><tr><td>00</td><td>FIRST ISSUE</td><td>PC</td><td>DG</td><td>NC</td><td>21/04/2023</td></tr><tr><td>REV</td><td>DESC</td><td>DRAWN</td><td>CHK'D</td><td>APP'D</td><td>DATE</td></tr></table> EirGrid plc The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland Telephone: +353 1 677 1700 Fax: +353 1 661 5375 Email: info@eirgrid.com Web: www.eirgrid.com COPYRIGHT © EirGrid plc All rights reserved. No part of this work may be modified or reproduced or copied in any form or by any means - graphic, electronic or mechanical, including photocopying, recording, taping or information and retrieval system, or used for any purpose other than its designated purpose, without the written permission of EirGrid plc <table><tr><td colspan="2">PROJECT</td><td colspan="2">STANDARD 220kV CABLE DRAWINGS</td></tr><tr><td colspan="4">DRAWING TITLE</td></tr><tr><td colspan="4">STANDARD RIVERBED CROSSING INDEX SHEET</td></tr><tr><td>No of Shts</td><td>2</td><td>SIZE</td><td>A3</td></tr><tr><td colspan="2">DRAWING NUMBER</td><td>SCALE</td><td>N/A</td></tr><tr><td colspan="2">XDC-CBL-STND-F-005</td><td>SHEET</td><td>001</td></tr><tr><td colspan="2"></td><td>REV</td><td>00</td></tr></table>							00	FIRST ISSUE	PC	DG	NC	21/04/2023	REV	DESC	DRAWN	CHK'D	APP'D	DATE	PROJECT		STANDARD 220kV CABLE DRAWINGS		DRAWING TITLE				STANDARD RIVERBED CROSSING INDEX SHEET				No of Shts	2	SIZE	A3	DRAWING NUMBER		SCALE	N/A	XDC-CBL-STND-F-005		SHEET	001			REV	00
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XDC-CBL-STND-F-005		SHEET	001																																												
		REV	00																																												



NOTES:

- ALL PRODUCTS AND MATERIALS TO BE UTILISED DURING CONSTRUCTION TO COMPLY WITH EIRGRID FUNCTIONAL SPECIFICATION, ESBN STANDARDS, TII SPECIFICATION FOR ROAD WORKS AND ALL RELEVANT IRISH (EUROPEAN) AND BRITISH STANDARDS.
- 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 WITHOUT OVERLAP. MAX 10mm GAP TO BE BETWEEN TWO CONSECUTIVE PLATES.
- 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 CONSTRUCTION DESIGN PRODUCTION.
- 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.
- MINIMUM CLEARANCE BETWEEN CABLE TRENCH CONCRETE AND RIVER BED TO BE AGREED WITH RELEVANT AUTHORITY. IN ANY CASE, NO LESS THAN 300mm.
- STANDARD ESB MARKER POSTS TO BE INSTALLED AT EITHER SIDE OF RIVER CROSSING.
- FOR TYPICAL TRENCH CROSS SECTION DRAWING NUMBER PLEASE REFER TO XDC-CBL-STND-F-008 DRAWING.

- RED MARKER STRIP
- YELLOW MARKER WARNING TAPE
- A393 STEEL REINFORCEMENT MESH
- 6mm GALVANISED STEEL PLATE
- RAPID HARDENING WET CONCRETE C25/30
- CBGM B (CL. 822), COMPACTED TO CL. 813.10
- EXISTING GROUND
- REINSTATED RIVERBED



A= 125mm OUTER DIMENSION HDPE APPROVED DUCT, SDR = 17.6
B= 200mm OUTER DIMENSION HDPE APPROVED DUCT, SDR = 21
C= 63mm OUTER DIMENSION PVC DUCT FOR EARTH CONTINUITY CONDUCTOR
*MIN 1450mm WHERE ECC NOT REQUIRED



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PROJECT			
STANDARD 220kV CABLE DRAWINGS			
DRAWING TITLE			
STANDARD FOR RIVERBED CROSSING OR OPEN DRAINS			
No of Shts	2	SIZE	A3
DRAWING NUMBER	XDC-CBL-STND-F-005		
SCALE	AS SHOWN	SHEET	REV
		002	00

00	FIRST ISSUE	PC	DG	NC	21/04/2023
REV	DESC	DRAWN	CHK'D	APP'D	DATE

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DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK

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STANDARD 220kV CABLE DRAWINGS
STANDARD BRIDGE CROSSING FOR 200mm DUCTS

DRAWING No.	SHEET No.	DESCRIPTION	REVISION No.
XDC-CBL-STND-F-006	001	BRIDGE CROSSING INDEX SHEET	00
XDC-CBL-STND-F-006	002	BRIDGE CARRIAGEWAY STANDARD 220kV CABLE TRENCH	00
XDC-CBL-STND-F-006	003	BRIDGE CARRIAGEWAY STANDARD 220kV CABLE PLAN VIEW AND LONGITUDINAL SECTION	00

00	FIRST ISSUE	MBG	DG	NC	20/02/23
REV	DESC	DRAWN	CHK'D	APP'D	DATE



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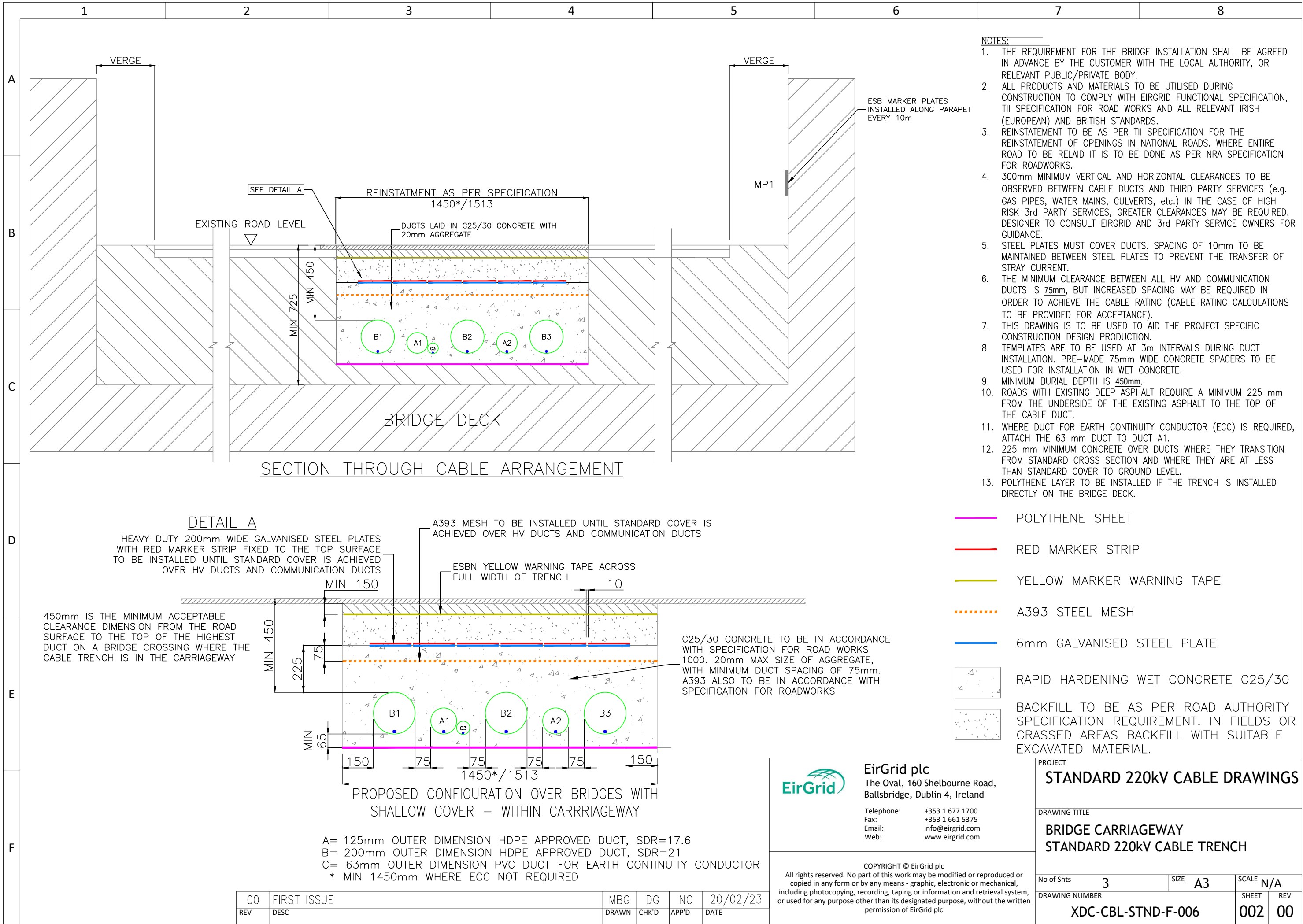
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PROJECT
STANDARD 220kV CABLE DRAWINGS

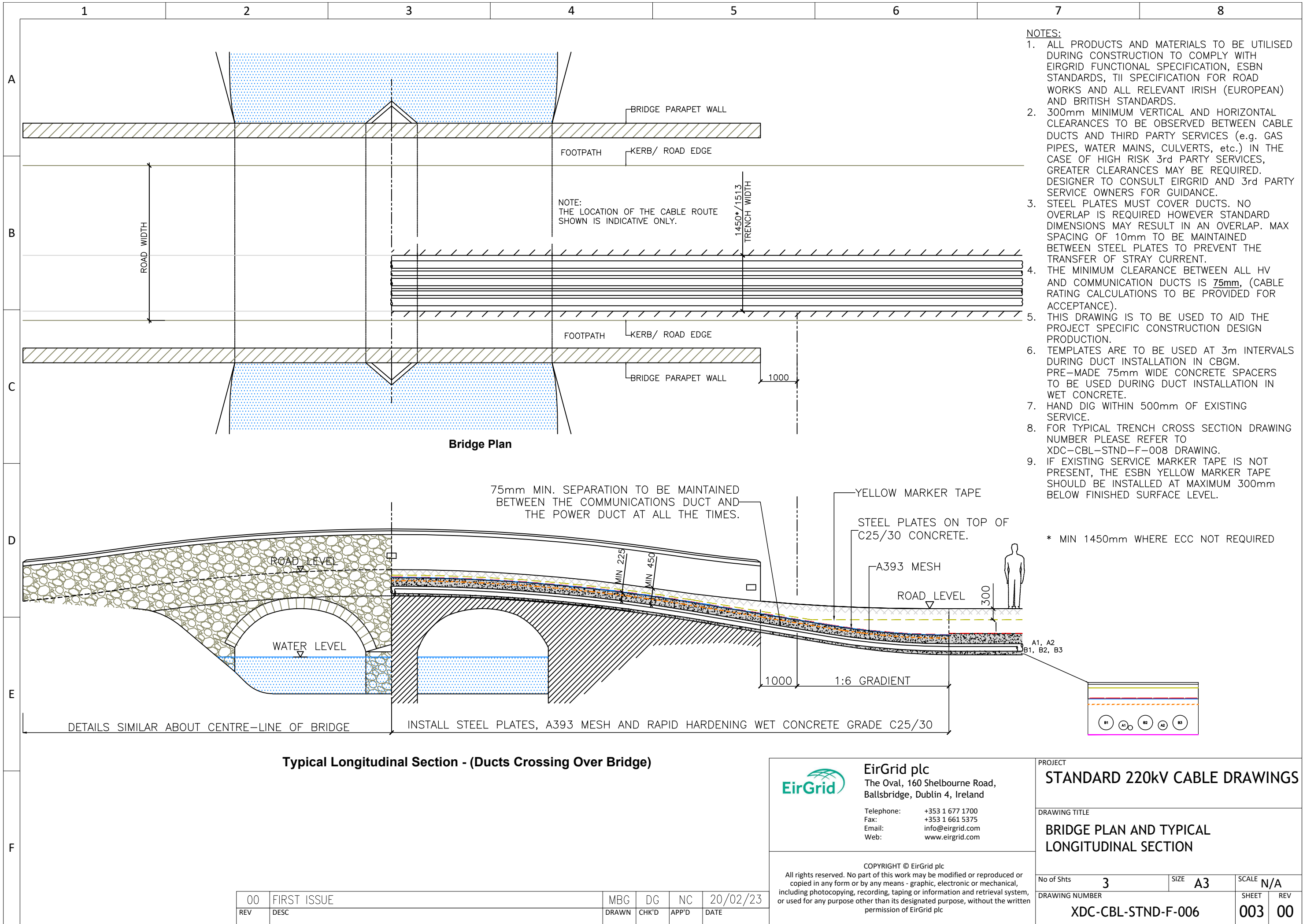
DRAWING TITLE
BRIDGE CROSSING
INDEX SHEET

No of Shts	3	SIZE	A3	SCALE	N/A
DRAWING NUMBER	XDC-CBL-STND-F-006	SHEET	001	REV	00

DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK



DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK

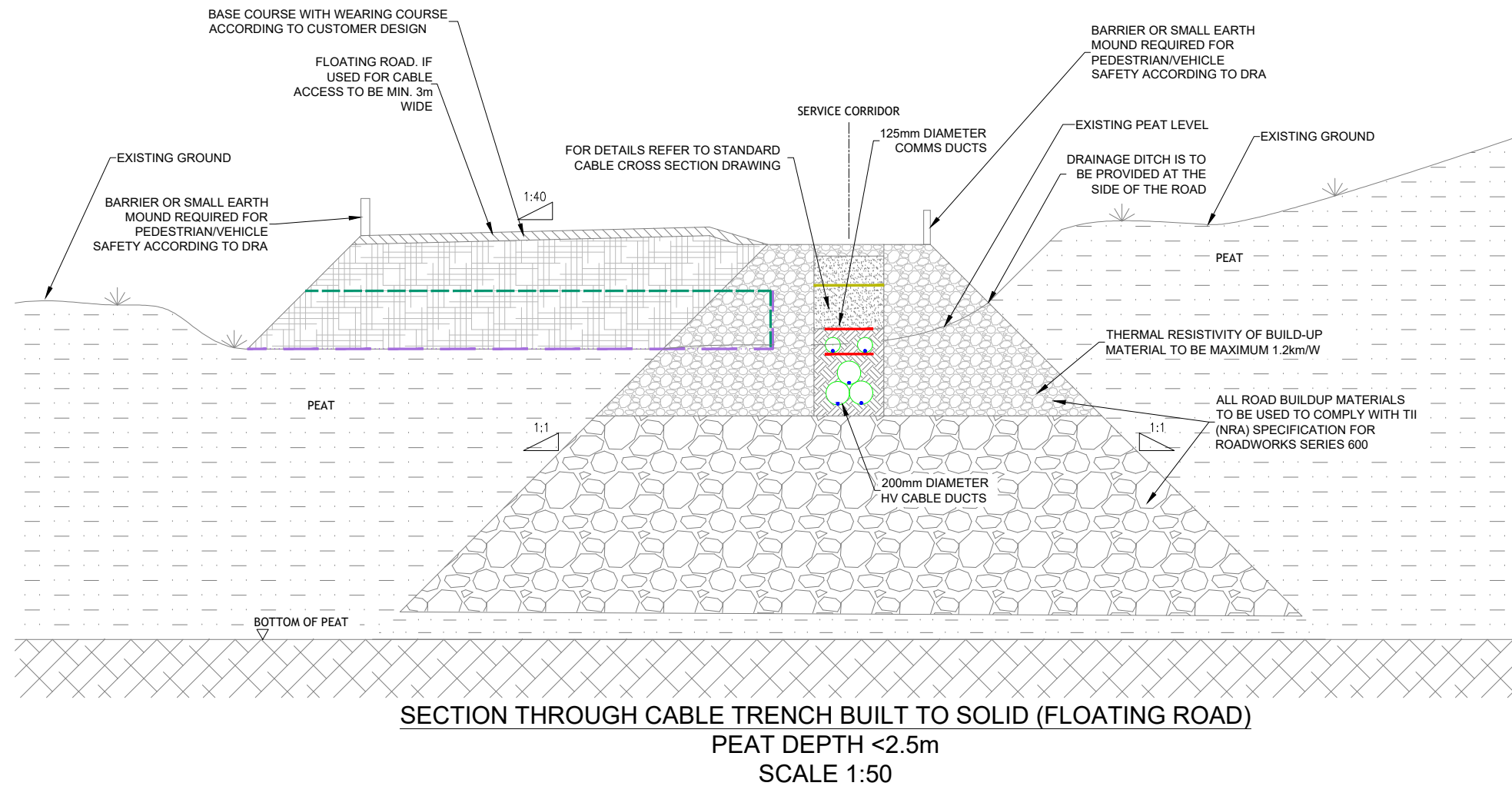


F

DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK

NOTES:

1. BASE COURSE AND WEARING COURSE TO BE IN ACCORDANCE WITH TII (NRA) SPECIFICATION FOR ROADWORKS SERIES 900.
2. 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 STANDARDS).
3. THIS DRAWING IS TO BE USED TO AID THE PROJECT SPECIFIC CONSTRUCTION DESIGN PRODUCTION.
4. FOR TYPICAL TRENCH CROSS SECTION DRAWING NUMBER PLEASE REFER TO XDC-CBL-STND-F-008 DRAWING.
5. THIS IS A INDICATIVE CROSS SECTION DETAIL FOR SHALLOW PEAT INSTALLATION. SPECIFIC CONSTRUCTION DESIGN SHALL COMPLY WITH CDS-GFS-00-001-R1.
6. THE DEVELOPER IS RESPONSIBLE FOR ANY TEMPORARY DESIGN AND WORKS



LEGEND:

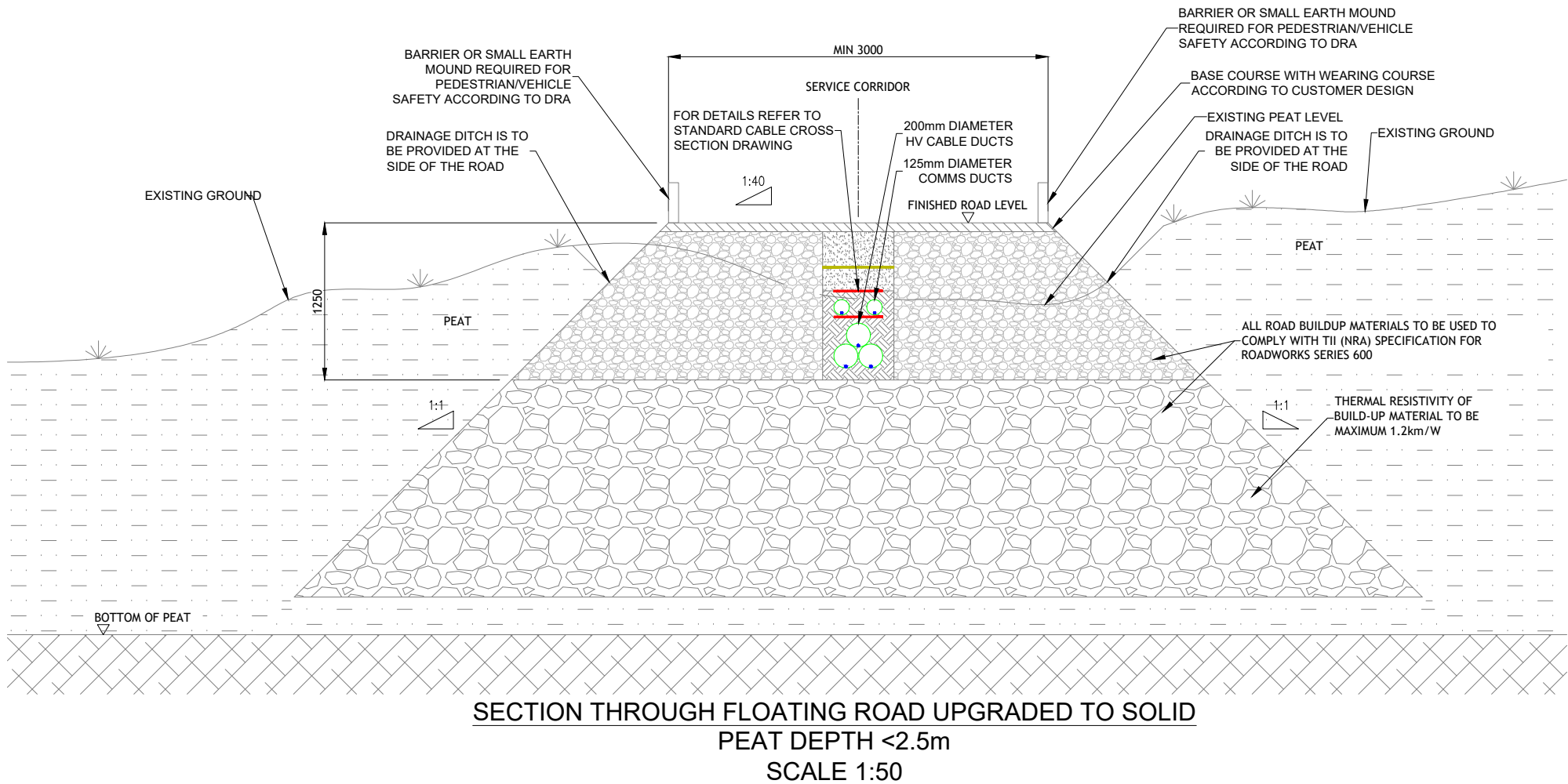
- GEOTEXTILE OR SIMILAR
- GEOGRID OR SIMILAR
- RED MARKER STRIP
- YELLOW MARKER WARNING TAPE
- BASE WEARING COARSE
- NEW ROAD BUILT-UP MATERIAL
- 6F2 OR SIMILAR MATERIAL
- PEAT
- BUILD -UP MATERIAL (LARGE STONE OF DIFFERENT SIZE) AND COMPACTED. REFER TO TII SPECIFICATIONS

00	FIRST ISSUE	PC	DG	NC	21/04/2023
REV	DESC	DRAWN	CHK'D	APP'D	DATE

 EirGrid plc The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland Telephone: +353 1 677 1700 Fax: +353 1 661 5375 Email: info@eirgrid.com Web: www.eirgrid.com		PROJECT STANDARD 220kV CABLE DRAWINGS	
COPYRIGHT © EirGrid plc All rights reserved. No part of this work may be modified or reproduced or copied in any form or by any means - graphic, electronic or mechanical, including photocopying, recording, taping or information and retrieval system, or used for any purpose other than its designated purpose, without the written permission of EirGrid plc		DRAWING TITLE INDICATIVE SECTION THROUGH SOLID CABLE TRENCH (FLOATING ROAD) PEAT DEPTH <2.5m	
No of Shts 4	SIZE A3	SCALE 1:50	
DRAWING NUMBER XDC-CBL-STND-F-007		SHEET 002	REV 00

NOTES:

1. BASE COURSE AND WEARING COURSE TO BE IN ACCORDANCE WITH TII (NRA) SPECIFICATION FOR ROADWORKS SERIES 900.
2. 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 STANDARDS).
3. THIS DRAWING IS TO BE USED TO AID THE PROJECT SPECIFIC CONSTRUCTION DESIGN PRODUCTION.
4. FOR TYPICAL TRENCH CROSS SECTION DRAWING NUMBER PLEASE REFER TO XDC-CBL-STND-F-008 DRAWING.
5. THIS IS A INDICATIVE CROSS SECTION DETAIL FOR SHALLOW PEAT INSTALLATION. SPECIFIC CONSTRUCTION DESIGN SHALL COMPLY WITH CDS-GFS-00-001-R1.
6. THE DEVELOPER IS RESPONSIBLE FOR ANY TEMPORARY DESIGN AND WORKS



LEGEND:

- RED MARKER STRIP
- YELLOW MARKER WARNING TAPE
- BASE WEARING COARSE TO MATCH EXISTING
- 6F2 OR SIMILAR MATERIAL
- PEAT
- BUILD -UP MATERIAL (LARGE STONE OF DIFFERENT SIZE) AND COMPACTED. REFER TO TII SPECIFICATIONS

DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK

00	FIRST ISSUE	PC	DG	NC	21/04/2023
REV	DESC	DRAWN	CHK'D	APP'D	DATE



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Ballsbridge, Dublin 4, Ireland

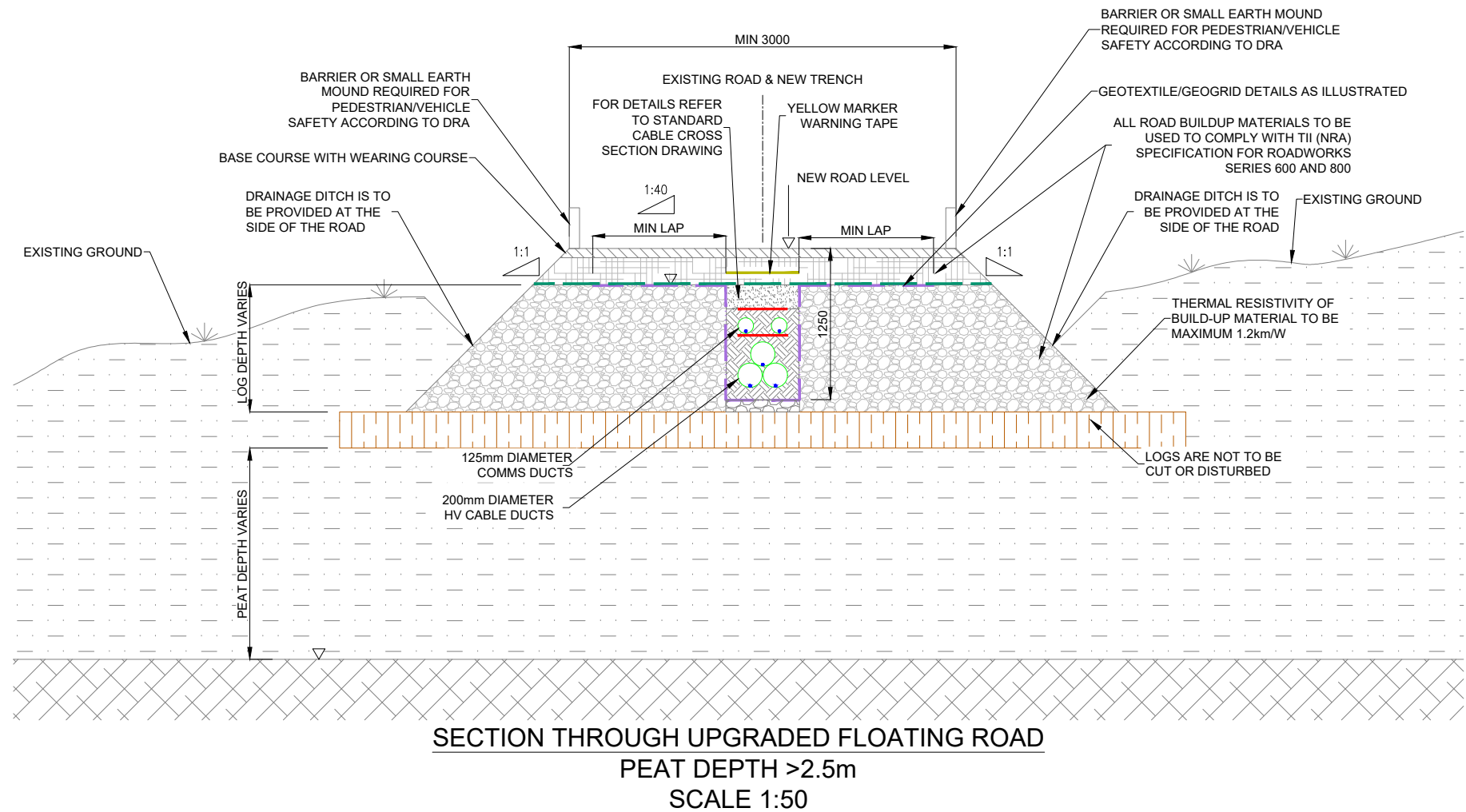
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PROJECT STANDARD 220kV CABLE DRAWINGS			
DRAWING TITLE INDICATIVE SECTION THROUGH FLOATING ROAD UPGRADED TO SOLID PEAT DEPTH <2.5m			
No of Shts 4	SIZE A3	SCALE 1:50	
DRAWING NUMBER XDC-CBL-STND-F-007		SHEET 003	REV 00

NOTES:

1. BASE COURSE AND WEARING COURSE TO BE IN ACCORDANCE WITH TII (NRA) SPECIFICATION FOR ROADWORKS SERIES 900.
2. 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 STANDARDS).
3. THIS DRAWING IS TO BE USED TO AID THE PROJECT SPECIFIC CONSTRUCTION DESIGN PRODUCTION.
4. FOR TYPICAL TRENCH CROSS SECTION DRAWING NUMBER PLEASE REFER TO XDC-CBL-STND-F-008 DRAWING.
5. THIS IS A INDICATIVE CROSS SECTION DETAIL FOR DEEP PEAT INSTALLATION. SPECIFIC CONSTRUCTION DESIGN SHALL COMPLY WITH CDS-GFS-00-001-R1.
6. THE DEVELOPER IS RESPONSIBLE FOR ANY TEMPORARY DESIGN AND WORKS.
7. THIS DESIGN IS APPLICABLE IF THE DEPTH OF THE LOG IS GREATER THAN 1250mm. IF THE LOG DEPTH IS SHALLOWER, AN ALTERNATIVE DESIGN OR ROUTE WILL BE REQUIRED.



LEGEND:

- GEOTEXTILE OR SIMILAR
- GEOGRID OR SIMILAR
- RED MARKER STRIP
- YELLOW MARKER WARNING TAPE
- BASE WEARING COARSE
- ROAD BUILT-UP MATERIAL
- 6F2 OR SIMILAR MATERIAL
- LOGS
- PEAT
- BUILD -UP MATERIAL (LARGE STONE OF DIFFERENT SIZE) AND COMPACTED. REFER TO TII SPECIFICATIONS

00	FIRST ISSUE	PC	DG	NC	21/04/2023
REV	DESC	DRAWN	CHK'D	APP'D	DATE



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PROJECT			
STANDARD 220kV CABLE DRAWINGS			
DRAWING TITLE			
INDICATIVE SECTION THROUGH FLOATING ROAD PEAT DEPTH >2.5m			
No of Shts	4	SIZE	A3
SCALE	1:50		
DRAWING NUMBER		SHEET	REV
XDC-CBL-STND-F-007		004	00

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DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK

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STANDARD 220kV CABLE DRAWINGS
STANDARD CROSS SECTIONS
200mm DUCTS

DRAWING No.	SHEET No.	DESCRIPTION	REVISION No.
XDC-CBL-STND-F-008	001	CROSS SECTIONS INDEX SHEET	00
XDC-CBL-STND-F-008	002	TRENCH CROSS SECTION 220kV TREFOIL FORMATION	00
XDC-CBL-STND-F-008	003	TRENCH CROSS SECTION 220kV FLAT FORMATION	00
XDC-CBL-STND-F-008	004	TRENCH CROSS SECTION 220kV FULL FLAT FORMATION	00
XDC-CBL-STND-F-008	005	TRENCH CROSS SECTION 220kV TREFOIL FORMATION WITH ECC DUCT	00
XDC-CBL-STND-F-008	006	TRENCH CROSS SECTION 220kV FLAT FORMATION WITH ECC DUCT	00
XDC-CBL-STND-F-008	007	TRENCH CROSS SECTION 220kV FULL FLAT FORMATION WITH ECC DUCT	00

00	FIRST ISSUE	MBG	DG	NC	20/02/23
REV	DESC	DRAWN	CHK'D	APP'D	DATE



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Ballsbridge, Dublin 4, Ireland

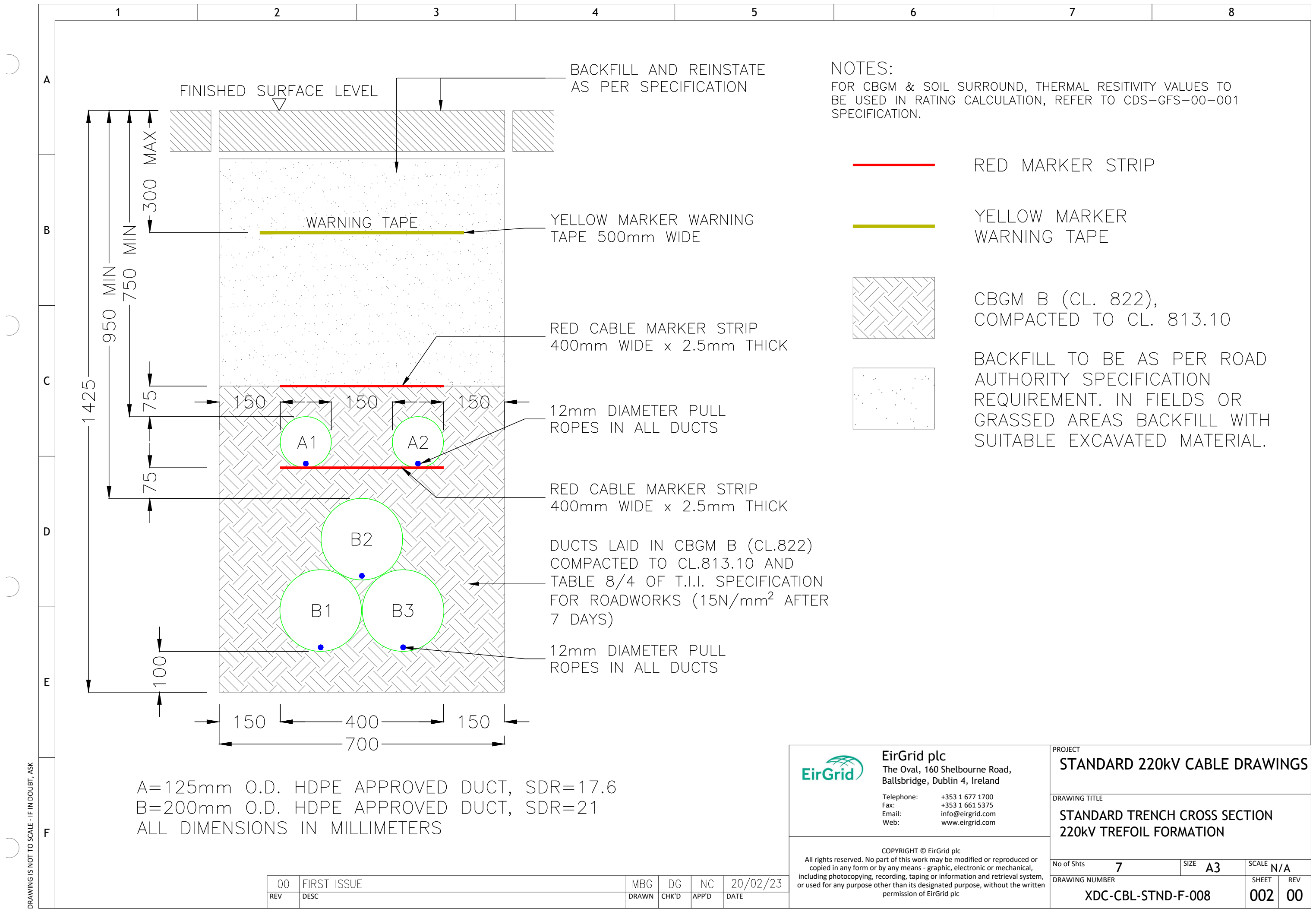
Telephone: +353 1 677 1700
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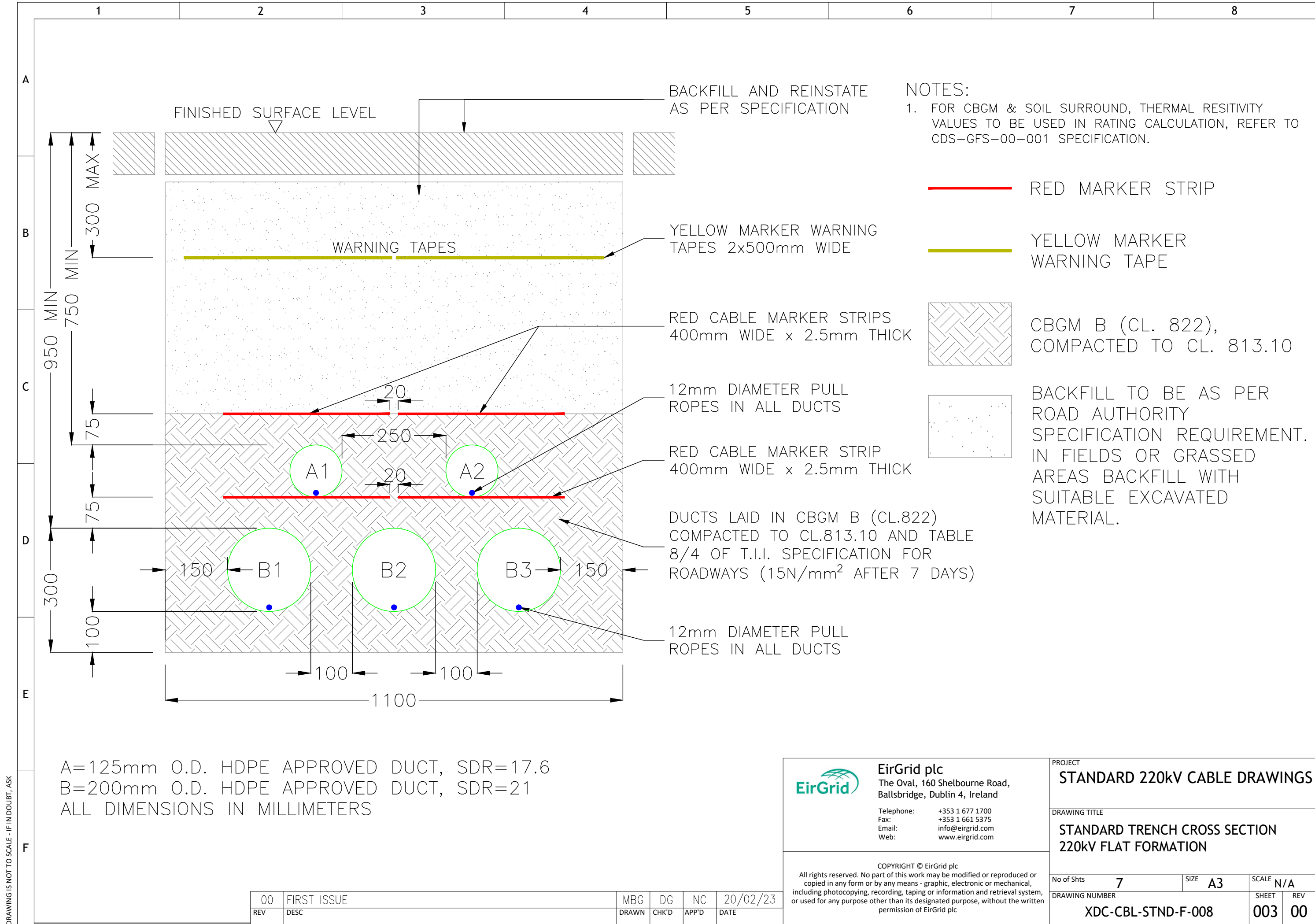
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PROJECT
STANDARD 220kV CABLE DRAWINGS

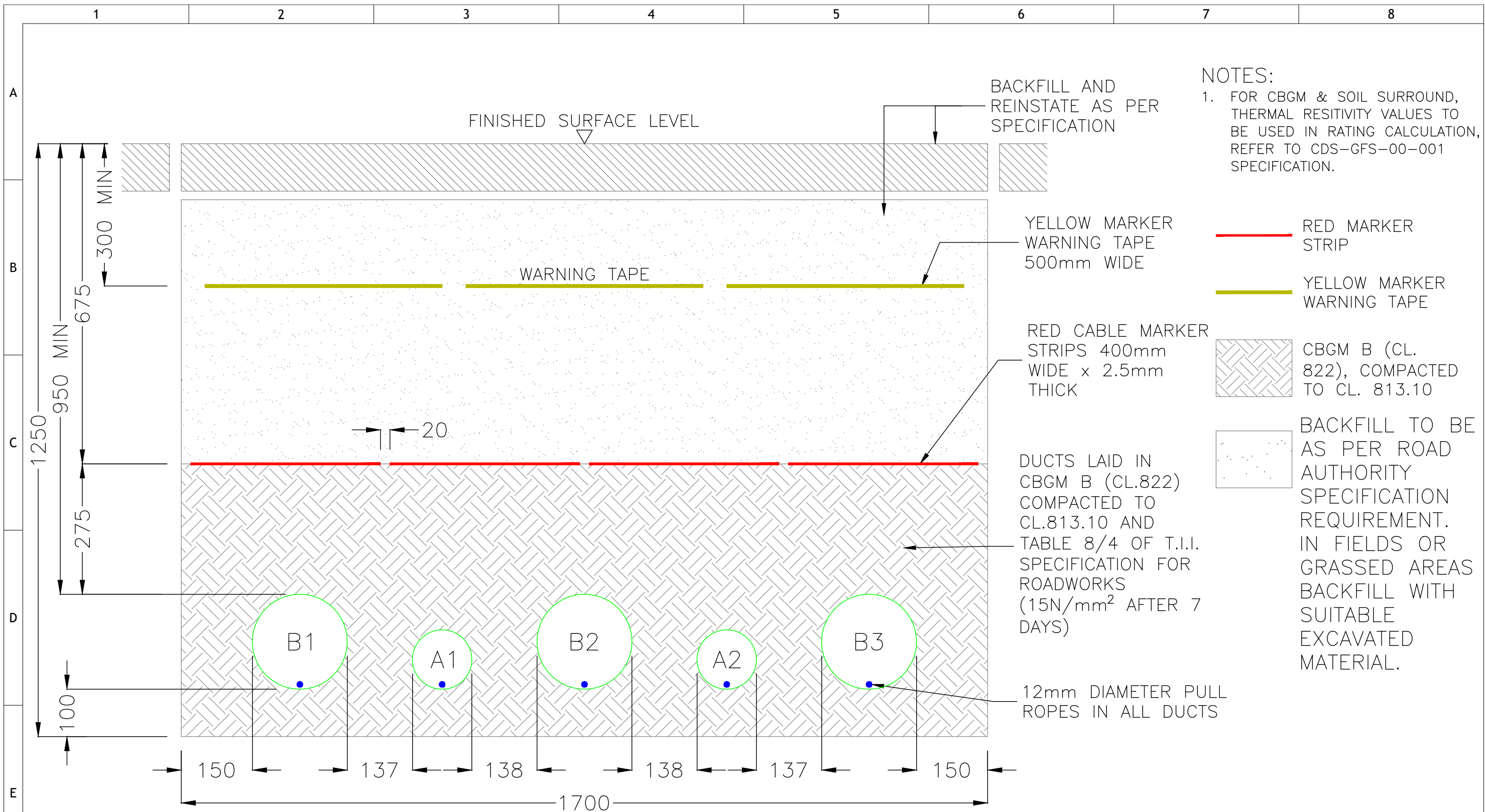
DRAWING TITLE
STANDARD CROSS SECTIONS
INDEX SHEET

No of Shts	7	SIZE	A3	SCALE	N/A
DRAWING NUMBER	XDC-CBL-STND-F-008	SHEET	001	REV	00





DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK



NOTES:

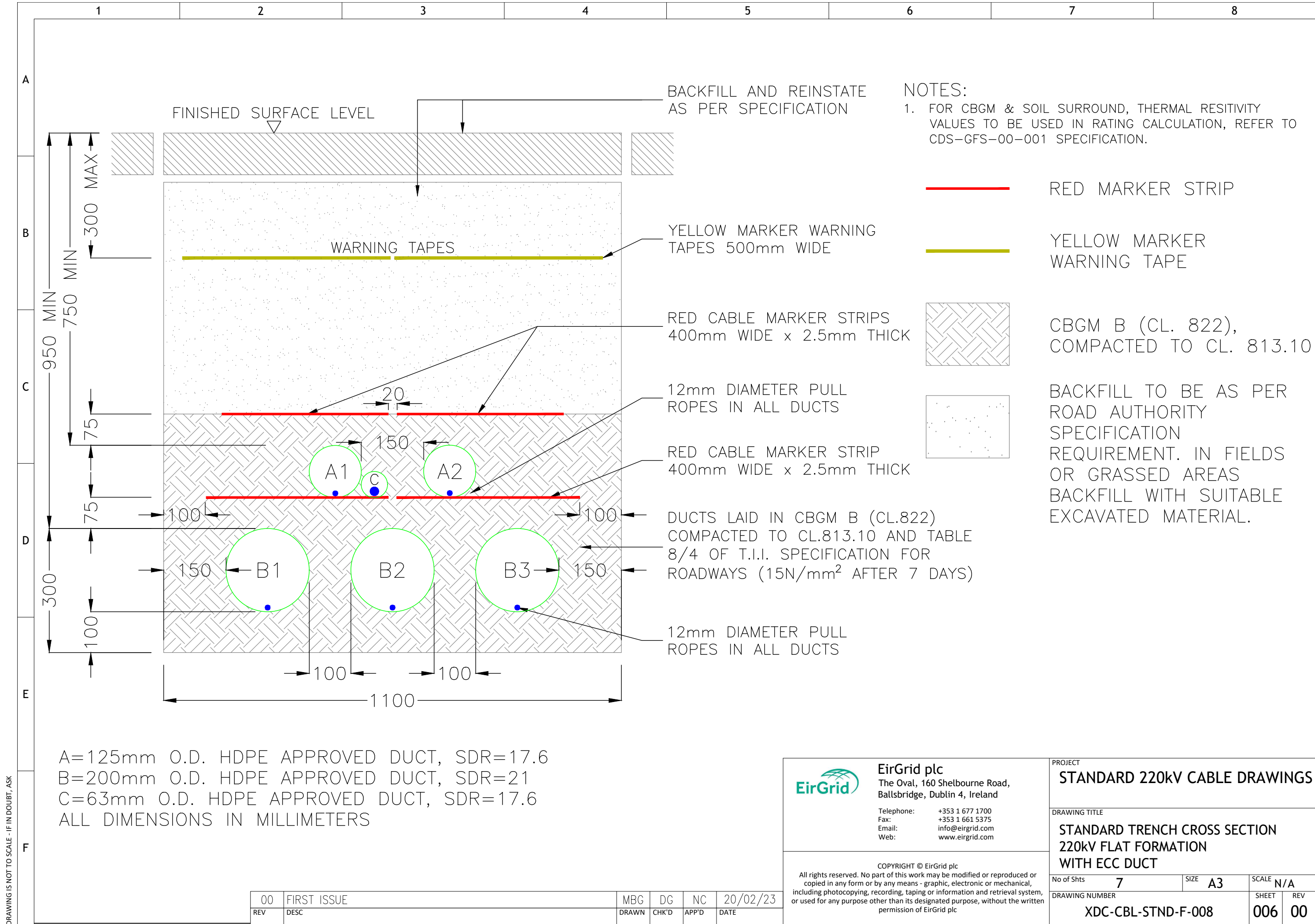
- FOR CBGM & SOIL SURROUND, THERMAL RESITIVITY VALUES TO BE USED IN RATING CALCULATION, REFER TO CDS-GFS-00-001 SPECIFICATION.

- RED MARKER STRIP
- YELLOW MARKER WARNING TAPE
- CBGM B (CL. 822), COMPACTED TO CL. 813.10
- BACKFILL TO BE AS PER ROAD AUTHORITY SPECIFICATION REQUIREMENT. IN FIELDS OR GRASSED AREAS BACKFILL WITH SUITABLE EXCAVATED MATERIAL.

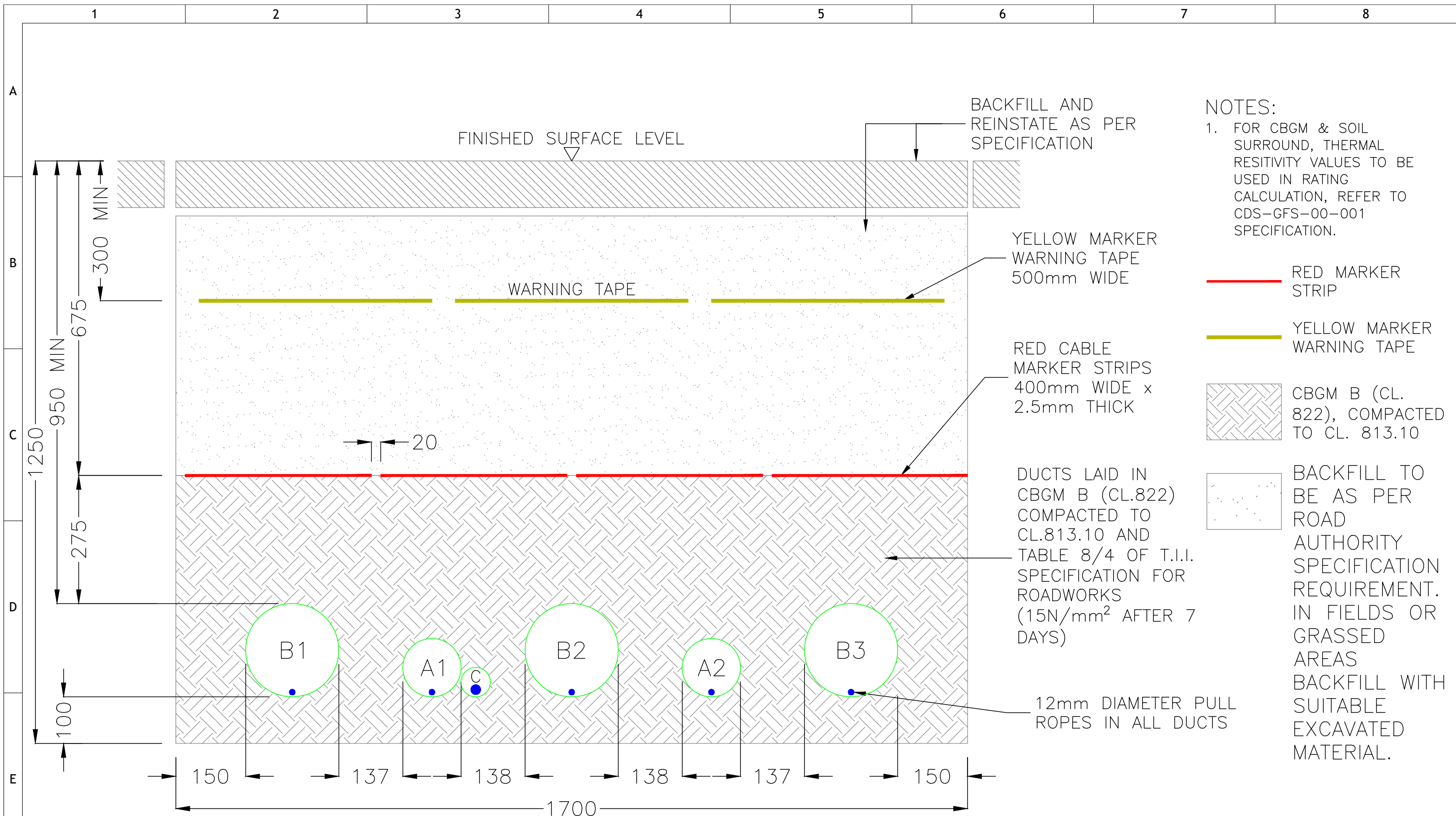
A=125mm O.D. HDPE APPROVED DUCT, SDR=17.6
B=200mm O.D. HDPE APPROVED DUCT, SDR=21
ALL DIMENSIONS IN MILLIMETERS

 EirGrid plc The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland Telephone: +353 1 677 1700 Fax: +353 1 661 5375 Email: info@eirgrid.com Web: www.eirgrid.com		PROJECT STANDARD 220kV CABLE DRAWINGS	
		DRAWING TITLE STANDARD TRENCH CROSS SECTION 220kV FULL FLAT FORMATION	
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		DRAWING NUMBER XDC-CBL-STND-F-008	SCALE N/A
		SHEET 004	REV 00

00	FIRST ISSUE	MBG	DG	NC	20/02/23
REV	DESC	DRAWN	CHK'D	APP'D	DATE



DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK



- NOTES:
- FOR CBGM & SOIL SURROUND, THERMAL RESISTIVITY VALUES TO BE USED IN RATING CALCULATION, REFER TO CDS-GFS-00-001 SPECIFICATION.
- RED MARKER STRIP
- YELLOW MARKER WARNING TAPE
- CBGM B (CL. 822), COMPACTED TO CL. 813.10
- BACKFILL TO BE AS PER ROAD AUTHORITY SPECIFICATION REQUIREMENT. IN FIELDS OR GRASSED AREAS BACKFILL WITH SUITABLE EXCAVATED MATERIAL.

A=125mm O.D. HDPE APPROVED DUCT, SDR=17.6
B=200mm O.D. HDPE APPROVED DUCT, SDR=21
C=63mm O.D. HDPE APPROVED DUCT, SDR=17.6
ALL DIMENSIONS IN MILLIMETERS

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PROJECT
STANDARD 220kV CABLE DRAWINGS

DRAWING TITLE
**STANDARD TRENCH CROSS SECTION
220kV FULL FLAT FORMATION
WITH ECC DUCT**

No of Shts 7	SIZE A3	SCALE N/A
DRAWING NUMBER XDC-CBL-STND-F-008		SHEET 007
		REV 00

00	FIRST ISSUE	MBG	DG	NC	20/02/23
REV	DESC	DRAWN	CHK'D	APP'D	DATE

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DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK

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12345678

STANDARD 220kV CABLE DRAWINGS
8mx2.5m JOINT BAY

DRAWING No.	SHEET No.	DESCRIPTION	REVISION No.
XDC-CBL-STND-F-012	001	220kV JOINT BAY INDEX SHEET	00
XDC-CBL-STND-F-012	002	220kV JOINT BAY GENERAL ARRANGEMENT	00
XDC-CBL-STND-F-012	003	220kV PRECAST JOINT BAY DETAILS SECTION 1	00
XDC-CBL-STND-F-012	004	220kV PRECAST JOINT BAY DETAILS SECTIONS 2 AND 3	00
XDC-CBL-STND-F-012	005	220kV PRECAST JOINT BAY DETAILS SECTION 4	00
XDC-CBL-STND-F-012	006	220kV JOINT BAY REBAR SCHEDULE	00
XDC-CBL-STND-F-012	007	220kV JOINT BAY REINSTATEMENT	00
XDC-CBL-STND-F-012	008	220kV JOINT BAY EARTHING ARRANGEMENT	00
XDC-CBL-STND-F-012	009	GENERAL ARRANGEMENT OF CABLE CLAMPING IN 8x2.5m JOINT BAY	00

00	FIRST ISSUE	PC	DG	NC	21/04/2023
REV	DESC	DRAWN	CHK'D	APP'D	DATE



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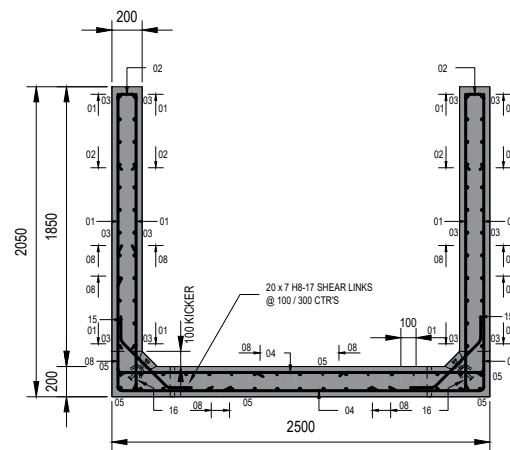
PROJECT
STANDARD 220kV CABLE DRAWINGS

DRAWING TITLE
220kV JOINT BAY
INDEX SHEET

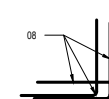
No of Shts	9	SIZE	A3	SCALE	N/A
DRAWING NUMBER	XDC-CBL-STND-F-012	SHEET	001	REV	00



 EirGrid plc The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland Telephone: +353 1 677 1700 Fax: +353 1 661 5375 Email: info@eirgrid.com Web: www.eirgrid.com	PROJECT STANDARD 220kV CABLE DRAWINGS DRAWING TITLE 220kV JOINT BAY REINFORCEMENT DETAILS JOINT BAY SECTION 1																		
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No of Shts	9	SIZE	A3	SCALE	1:50														
DRAWING NUMBER				SHEET	REV														
XDC-CBL-STND-F-012				003	00														



 SECTION A
SCALE 1:50



The image contains two technical line drawings of door hinges. The drawing on the left is a butt hinge, showing two rectangular leaves joined by a central pin. The drawing on the right is a flush hinge, showing two rectangular leaves joined by a central pin, with the leaves designed to be flush with the door and frame surfaces.

BAR MARK H8-21
SHEAR LINKS: CUT 40mm
FROM LEG AS SHOWN.

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PROJECT			
STANDARD 220kV CABLE DRAWINGS			
DRAWING TITLE			
220kV JOINT BAY REINFORCEMENT DETAILS JOINT BAY SECTIONS 2 AND 3			
No of Shts 9		SIZE A3	SCALE 1:50
DRAWING NUMBER XDC-CBL-STND-F-012		SHEET 004	REV 00

DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK

DRAWING IS NOT TO SCALE - IF IN DOUBT, ASK

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TABLE 1: JOINT BAY R.C. DETAIL - SECTION 1

* - SPECIFIED TO NEAREST 5mm + - SPECIFIED TO NEAREST 25mm							ALL BENDING DIMENSIONS ARE IN ACCORDANCE WITH B.S. 8666:2005						
MEMBER	BAR MARK	TYPE	SIZE (mm)	No. OF MBRS	No. IN EACH	TOTAL No.	LENGTH OF EACH BAR (mm)	SHAPE CODE	A* mm	B* mm	C* mm	D* mm	E/r* mm
SIDE WALLS	01	H	16	2	29	58	1675	00					
	02	H	12	2	14	28	1075	21	500	120			
	03	H	12	2	24	48	1900	00					
	07	H	12	2	12	24	930	14	350	85	560		
	09	H	12	2	12	24	1000	13	480	80			
BASE	04	H	16	1	30	30	2400	00					
	05	H	12	1	34	34	1900	00					
	06	H	12	1	17	17	1025	13	500	80			
	07	H	12	1	15	15	930	14	350	85	560		
	08	H	16	1	90	90	1600	11	960				
	10	H	16	1	1	1	2200	00					
	14	H	12	1	51	51	1250	11	950	300			
	15	H	10	1	24	24	800	24	200	400	200	285	
	16	H	12	1	4	4	800	00	BEND ON SITE				
Shear Links	21	H	8	1	140	140	350	22	115	120	50	115	
END WALL	01	H	16	1	8	8	1675	00					
	11	H	12	1	26	26	1050	21	475	120			
	12	H	12	1	22	22	2075	00					
	13	H	12	1	66	66	1375	11	700				
	17	H	12	1	8	8	1000	00					
	18	H	12	1	4	4	775	13	375	75			
	19	H	12	1	12	12	675	11	350				
	20	H	12	1	11	11	1175	21	550	120			

TABLE 2: JOINT BAY R.C. DETAIL - SECTION 2 & 3

* - SPECIFIED TO NEAREST 5mm + - SPECIFIED TO NEAREST 25mm							ALL BENDING DIMENSIONS ARE IN ACCORDANCE WITH B.S. 8666:2005						
MEMBER	BAR MARK	TYPE	SIZE (mm)	No. OF MBRS	No. IN EACH	TOTAL No.	LENGTH OF EACH BAR (mm)	SHAPE CODE	A* mm	B* mm	C* mm	D* mm	E/r* mm
SIDE WALLS	01	H	16	2	28	56	1675	00					
	02	H	12	2	14	28	1075	21	500	110			
	03	H	12	2	24	48	1900	00					
	07	H	12	2	24	48	930	14	350	85	560		
	09	H	12	2	24	48	1000	21	480	80			
BASE	04	H	16	1	27	27	2400	00					
	05	H	12	1	34	34	1900	00					
	06	H	12	1	34	34	1025	21	500	110			
	07	H	12	1	32	32	930	14	350	85	560		
	08	H	16	1	84	84	1600	11	960				
	10	H	16	1	1	1	2200	00					
	15	H	10	1	24	24	800	24	200	400	200	285	
	16	H	12	1	4	4	800	00	BEND ON SITE				
Shear Links	17	H	8	1	140	140	350	22	115	120	50	115	

TABLE 3: JOINT BAY R.C. DETAIL - SECTION 4

* - SPECIFIED TO NEAREST 5mm + - SPECIFIED TO NEAREST 25mm							ALL BENDING DIMENSIONS ARE IN ACCORDANCE WITH B.S. 8666:2005						
MEMBER	BAR MARK	TYPE	SIZE (mm)	No. OF MBRS	No. IN EACH	TOTAL No.	LENGTH OF EACH BAR (mm)	SHAPE CODE	A* mm	B* mm	C* mm	D* mm	E/r* mm
SIDE WALLS	01	H	16	2	29	58	1675	00					
	02	H	12	2	14	28	1075	21	500	120			
	03	H	12	2	24	48	1900	00					
	07	H	12	2	12	24	930	14	350	85	560		
	09	H	12	2	12	24	1000	13	480	80			
BASE	25	H	8	1	140	140	350	22	115	120	50	115	
	04	H	16	1	29	29	2400	00					
	05	H	12	1	34	34	1900	00					
	06	H	12	1	17	17	1025	13	500	80			
	07	H	12	1	17	17	930	14	350	85	560		
	08	H	16	1	90	90	1600	11	960				
	15	H	10	1	24	24	800	42	200	400	200	285	
	16	H	12	1	4	4	800	00	BEND ON SITE				
	18	H	12	1	51	51	1375	11	900				
END WALL	11	H	12	1	26	26	1050	21	475	120			
	12	H	12	1	22	22	2075	00	475	120			
	19	H	12	1	66	66	1375	11	700				
	17	H	12	1	8	8	1000	00	700				
	21	H	12	1	4	4	775	13	375	75			
	22	H	12	1	12	12	675	11	350	75			
	23	H	12	1	11	11	1175	21	550	120			
	24	H	16	1	8	8	1675	00					



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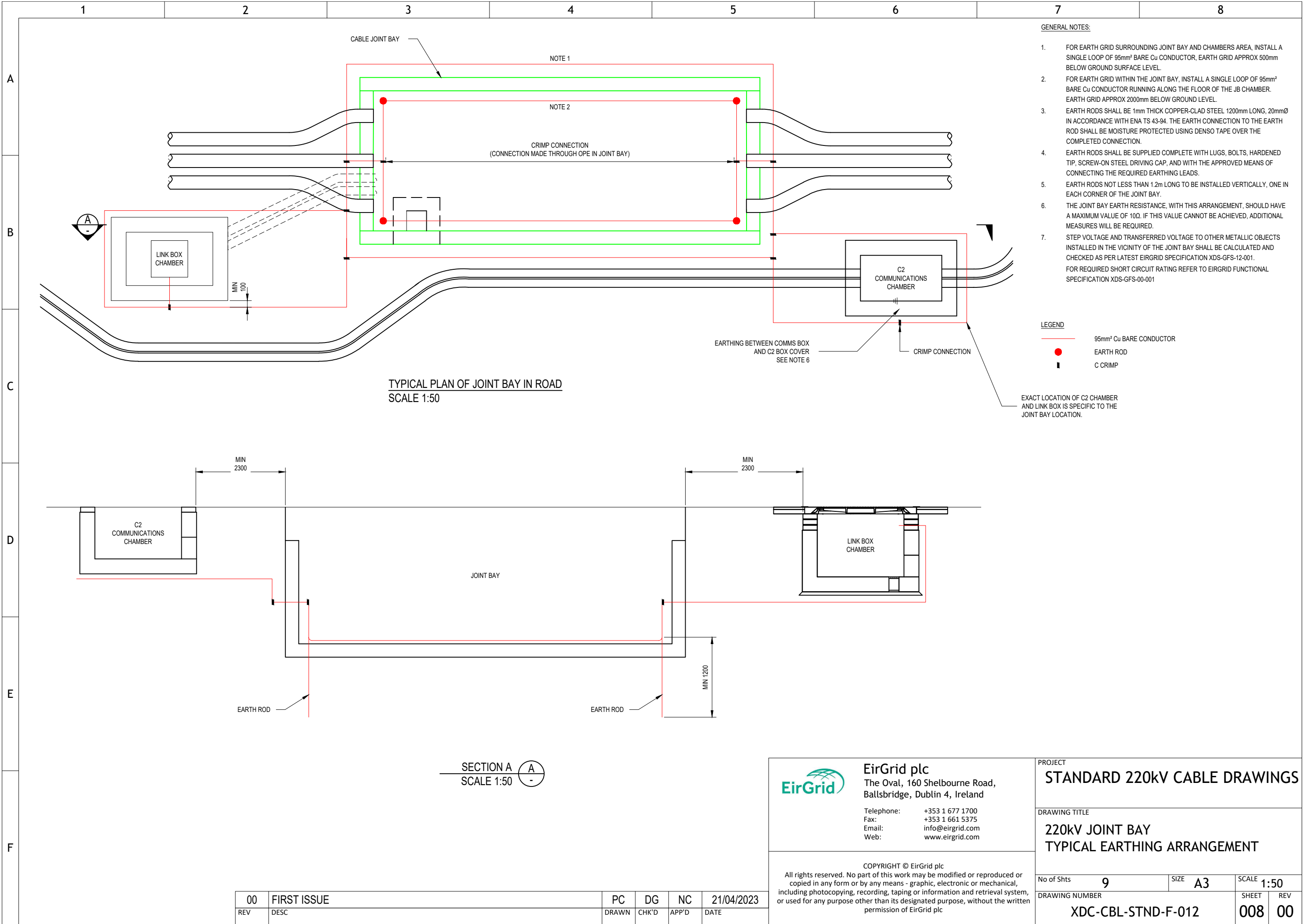
PROJECT
STANDARD 220kV CABLE DRAWINGS

DRAWING TITLE
220kV JOINT BAY
REBAR SCHEDULE

No of Shts	9	SIZE	A3	SCALE	N/A
DRAWING NUMBER	XDC-CBL-STND-F-012			SHEET	REV
				006	00

00	FIRST ISSUE	PC	DG	NC	21/04/2023
REV	DESC	DRAWN	CHK'D	APP'D	DATE

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00	FIRST ISSUE	PC	DG	NC	21/04/2023
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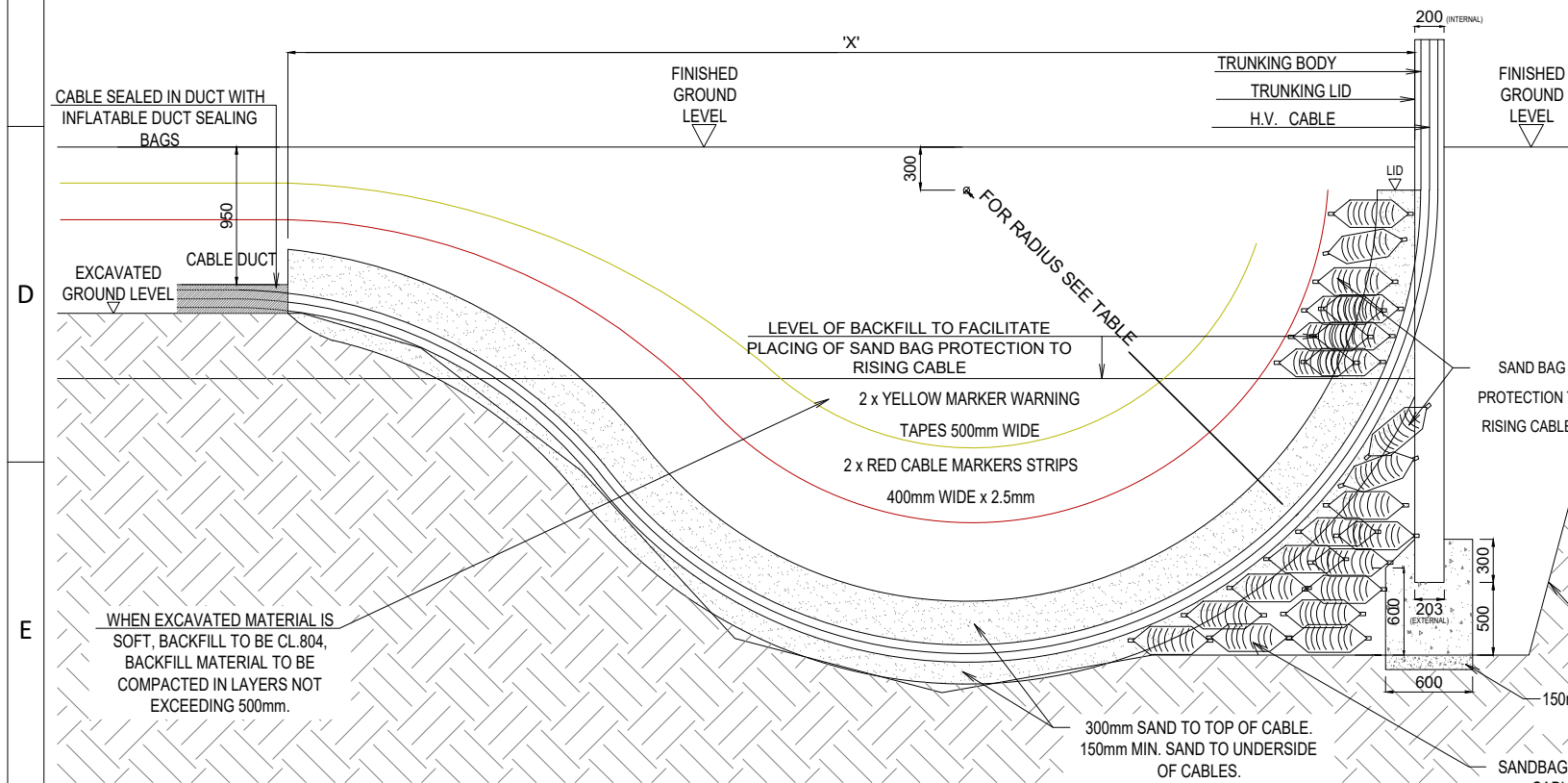
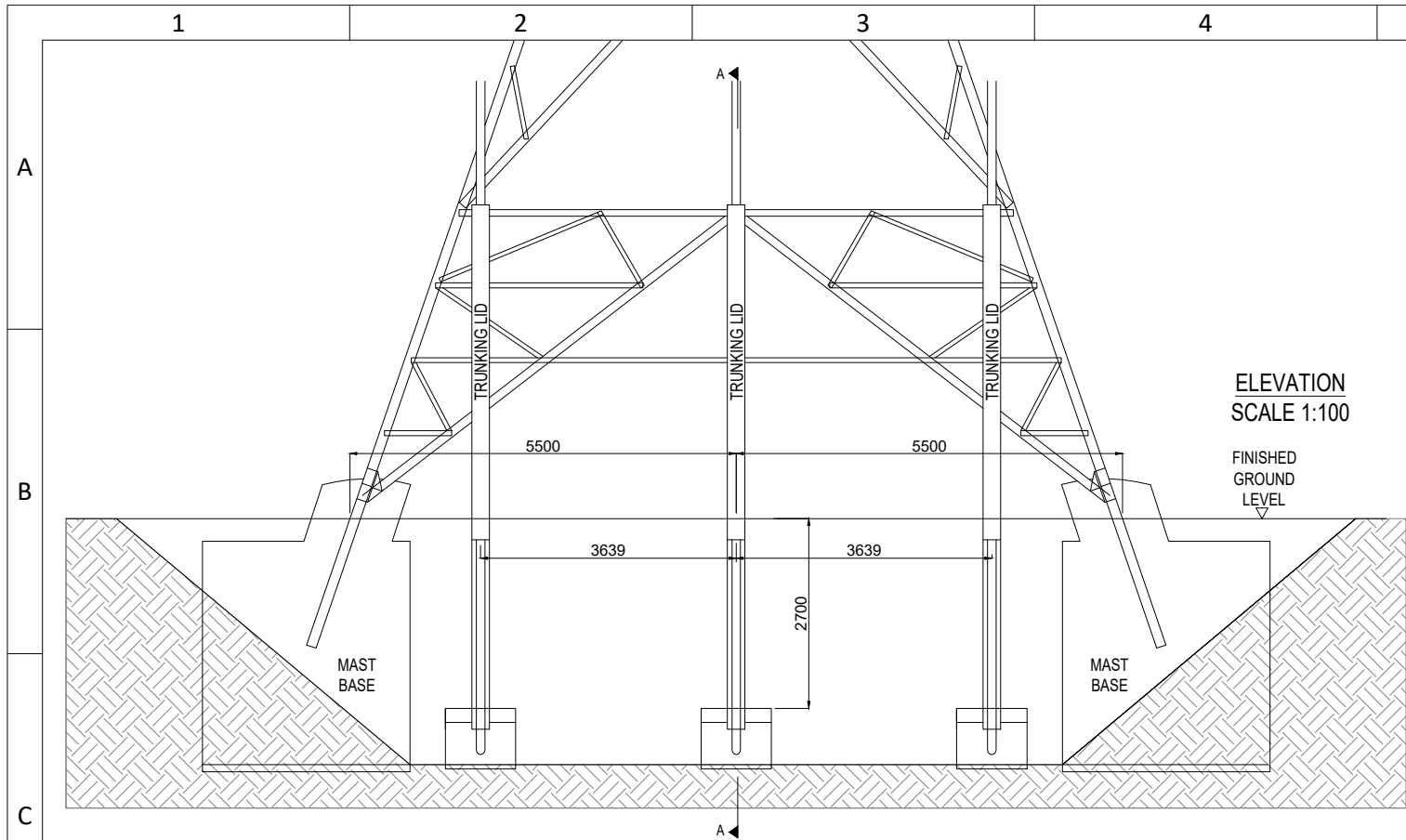
PROJECT STANDARD 220kV CABLE DRAWINGS			
DRAWING TITLE 220kV JOINT BAY TYPICAL EARTHING ARRANGEMENT			
No of Shts 9	SIZE A3	SCALE 1:50	
DRAWING NUMBER XDC-CBL-STND-F-012		SHEET 008	REV 00



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1	2	3	4	5	6	7	8																																		
A	STANDARD 220 kV CABLE DRAWINGS LINE CABLE INTERFACE MAST TYPE 2693ET LC																																								
B																																									
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D	<table><tr><th>DRAWING No.</th><th>SHEET No.</th><th>DESCRIPTION</th><th>REVISION No.</th></tr><tr><td>XDC-CBL-STND-F-014</td><td>001</td><td>STANDARD 220 kV CABLE DRAWINGS LINE CABLE INTERFACE MAST TYPE 2693ET LC INDEX SHEET</td><td>00</td></tr><tr><td>XDC-CBL-STND-F-014</td><td>002</td><td>STANDARD 220 kV CABLE DRAWINGS LINE CABLE INTERFACE MAST TYPE 2693ET LC SECTIONS AND DETAILS</td><td>00</td></tr></table>							DRAWING No.	SHEET No.	DESCRIPTION	REVISION No.	XDC-CBL-STND-F-014	001	STANDARD 220 kV CABLE DRAWINGS LINE CABLE INTERFACE MAST TYPE 2693ET LC INDEX SHEET	00	XDC-CBL-STND-F-014	002	STANDARD 220 kV CABLE DRAWINGS LINE CABLE INTERFACE MAST TYPE 2693ET LC SECTIONS AND DETAILS	00																						
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F	<table><tr><td>00</td><td>FIRST ISSUE</td><td>PC</td><td>DG</td><td>NC</td><td>21/04/2023</td></tr><tr><td>REV</td><td>DESC</td><td>DRAWN</td><td>CHK'D</td><td>APP'D</td><td>DATE</td></tr></table> EirGrid plc The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland Telephone: +353 1 677 1700 Fax: +353 1 661 5375 Email: info@eirgrid.com Web: www.eirgrid.com COPYRIGHT © EirGrid plc All rights reserved. No part of this work may be modified or reproduced or copied in any form or by any means - graphic, electronic or mechanical, including photocopying, recording, taping or information and retrieval system, or used for any purpose other than its designated purpose, without the written permission of EirGrid plc <table><tr><td colspan="2">PROJECT</td></tr><tr><td colspan="2">STANDARD 220kV CABLE DRAWINGS</td></tr><tr><td colspan="2">DRAWING TITLE</td></tr><tr><td colspan="2">LINE CABLE INTERFACE MAST TYPE 2693ET LC INDEX SHEET</td></tr><tr><td>No of Shts</td><td>2</td></tr><tr><td>SIZE</td><td>A3</td></tr><tr><td>SCALE</td><td>N/A</td></tr><tr><td colspan="2">DRAWING NUMBER</td></tr><tr><td colspan="2">XDC-CBL-STND-F-014</td></tr><tr><td>SHEET</td><td>001</td></tr><tr><td>REV</td><td>00</td></tr></table>							00	FIRST ISSUE	PC	DG	NC	21/04/2023	REV	DESC	DRAWN	CHK'D	APP'D	DATE	PROJECT		STANDARD 220kV CABLE DRAWINGS		DRAWING TITLE		LINE CABLE INTERFACE MAST TYPE 2693ET LC INDEX SHEET		No of Shts	2	SIZE	A3	SCALE	N/A	DRAWING NUMBER		XDC-CBL-STND-F-014		SHEET	001	REV	00
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SECTION A-A
SCALE 1:50

CABLE TYPE	BENDING RADIUS	MIN. EXCAVATION DEPTH	"X"
220 kV NKT 1600 mm² CU CABLE	DRAFT 3.0 m	3.4 m	8.5 m MIN.
220 kV LS 1600 mm² CU CABLE	2.4 m	2.8 m	7.0 m MIN
220 kV NKT 2500 mm² CU CABLE	3.2 m	3.6 m	9.0 m MIN
220 kV LS 2500 mm² CU CABLE	2.7 m	3.1 m	7.8 m MIN
220 kV LS 1600 mm² AL CABLE	2.8 m	3.0 m	7.5 m MIN

* 1.0m HAS BEEN ADDED TO THE CALCULATED DIMENSION

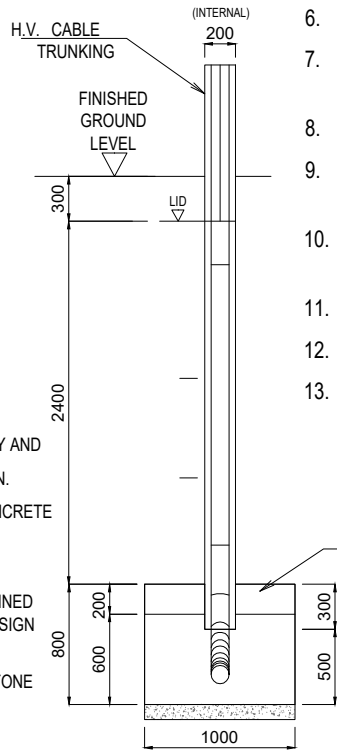
CABLE MINIMUM BENDING RADIUS, RELATIVE MINIMUM EXCAVATION DEPTH AND X DIMENSION DEPENDS ON THE PROJECT SPECIFIC CABLE. THE CUSTOMER SHALL CONFIRM THE MINIMUM REQUIREMENT WITH THE CABLE MANUFACTURER.

MAST EARTH GRID TO BE REMOVED TO FACILITATE THE WORKS AND REINSTATED WHEN WORKS ARE COMPLETE.

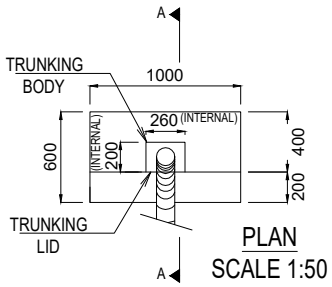
ELEVATION
SCALE 1:100

NOTES

- TEMPORARY WORKS:
 - ANY ENTITY CARRYING OUT EXCAVATION IS RESPONSIBLE FOR ENSURING ADEQUATE PRECAUTIONS ARE TAKEN TO GUARD AGAINST DISLODGE MENT OR COLLAPSE AND MUST, BY LAW, CARRY OUT A RISK ASSESSMENT FOR THAT EXCAVATION. THE RISK ASSESSMENT SHALL DETERMINE THE NECESSARY CONTROLS TO ENSURE THE SAFETY OF THE EXCAVATION.
 - IN ORDER TO ESTABLISH GROUND AND GROUND WATER CONDITIONS AND TO ALLOW INSPECTION, A TRIAL PIT IS TO BE EXCAVATED (WITHIN THE FOOT PRINT OF THE CABLE EXCAVATION) AND LEFT OPEN OVERNIGHT. THE DEPTH OF THE TRIAL PIT SHOULD MATCH THE DEPTH OF THE CABLE EXCAVATION. IN THE EVENT OF SIDE WALL FAILURE, A GEOTECHNICAL ENGINEER SHOULD BE CONSULTED. ALTERNATIVELY, TOWER FOUNDATION RECORDS TO BE INSPECTED FOR GROUND CONDITIONS.
- OPEN CABLE EXCAVATION TO BE PROTECTED FROM GROUND WATER INGRESS AND FROM WATER INGRESS VIA OVERLAND FLOW INTO THE EXCAVATION. RISK OF OVERLAND FLOW ENTERING THE EXCAVATION IS HIGH WHEN SURROUNDING GROUND SLOPES TOWARDS THE EXCAVATION.
- TOP SOIL TO BE STRIPPED PRIOR TO EXCAVATION & REPLACED AS LAST LAYER OF BACK FILLING.
- PRIOR TO PLACING OF CONCRETE THE EXCAVATION SHALL BE CLEAR OF ALL SURPLUS MATERIAL AND DEBRIS. ALL CONCRETE SURFACES AT JOINTS SHALL BE WIRE BRUSHED TO REMOVE ANY LOOSE MATERIAL BEFORE POURING OF NEW CONCRETE.
- ANY WATER IN THE EXCAVATION SHALL BE REMOVED BEFORE NEW CONCRETE IS PLACED.
- SUB BASE MAY BE CONCRETE OR GRADED GRANULAR MATERIAL.
- THE CONCRETE SHALL HAVE A MINIMUM CHARACTERISTIC CUBE STRENGTH OF 35NM/mm.
- ALL CONCRETE SHALL BE WELL VIBRATED INTO PLACE.
- ALL BACKFILL SHOULD BE WELL COMPACTED IN LAYERS OF NO MORE THAN 500mm.
- THE INSTALLATION OR REMOVAL OF TEMPORARY WORKS MUST NOT DAMAGE OR DISTURB THE FOUNDATION.
- ALL EXPOSED CORNERS TO HAVE A 25mm CHAMFER.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- FOR TYPICAL TRENCH CROSS SECTION DRAWING NUMBER PLEASE REFER TO XDC-CBL-STND-F-008 DRAWING.



FRONT ELEVATION
SCALE 1:50



PLAN
SCALE 1:50



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PROJECT
STANDARD 220kV CABLE DRAWINGS

DRAWING TITLE
**LINE CABLE INTERFACE MAST
TYPE 2693ET LC
SECTION AND DETAILS**

No of Shts	2	SIZE	A3	SCALE	AS SHOWN
DRAWING NUMBER	XDC-CBL-STND-F-014	SHEET	002	REV	00

1

2

3

4

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A

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C

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E

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STANDARD 220 kV CABLE DRAWINGS
STANDARD TRENCH CROSS SECTION FOR CABLES
INSTALLED IN FARMLAND

DRAWING No.	SHEET No.	DESCRIPTION	REVISION No.
XDC-CBL-STND-F-016	001	STANDARD FARMLAND TRENCH CROSS SECTIONS INDEX SHEET	00
XDC-CBL-STND-F-016	002	STANDARD FARMLAND TRENCH CROSS SECTION 220 kV TREFOIL FORMATION	00
XDC-CBL-STND-F-016	003	STANDARD FARMLAND TRENCH CROSS SECTION 220 kV FLAT FORMATION	00
XDC-CBL-STND-F-016	004	STANDARD FARMLAND TRENCH CROSS SECTION 220 kV FULL FLAT FORMATION	00
XDC-CBL-STND-F-016	005	STANDARD FARMLAND TRENCH CROSS SECTION 220 kV TREFOIL FORMATION WITH ECC DUCT	00
XDC-CBL-STND-F-016	006	STANDARD FARMLAND TRENCH CROSS SECTION 220 kV FLAT FORMATION WITH ECC DUCT	00
XDC-CBL-STND-F-016	007	STANDARD FARMLAND TRENCH CROSS SECTION 220 kV FULL FLAT FORMATION WITH ECC DUCT	00

00	FIRST ISSUE	AECOM	DG	NC	29/01/2024
REV	DESC	DRAWN	CHK'D	APP'D	DATE

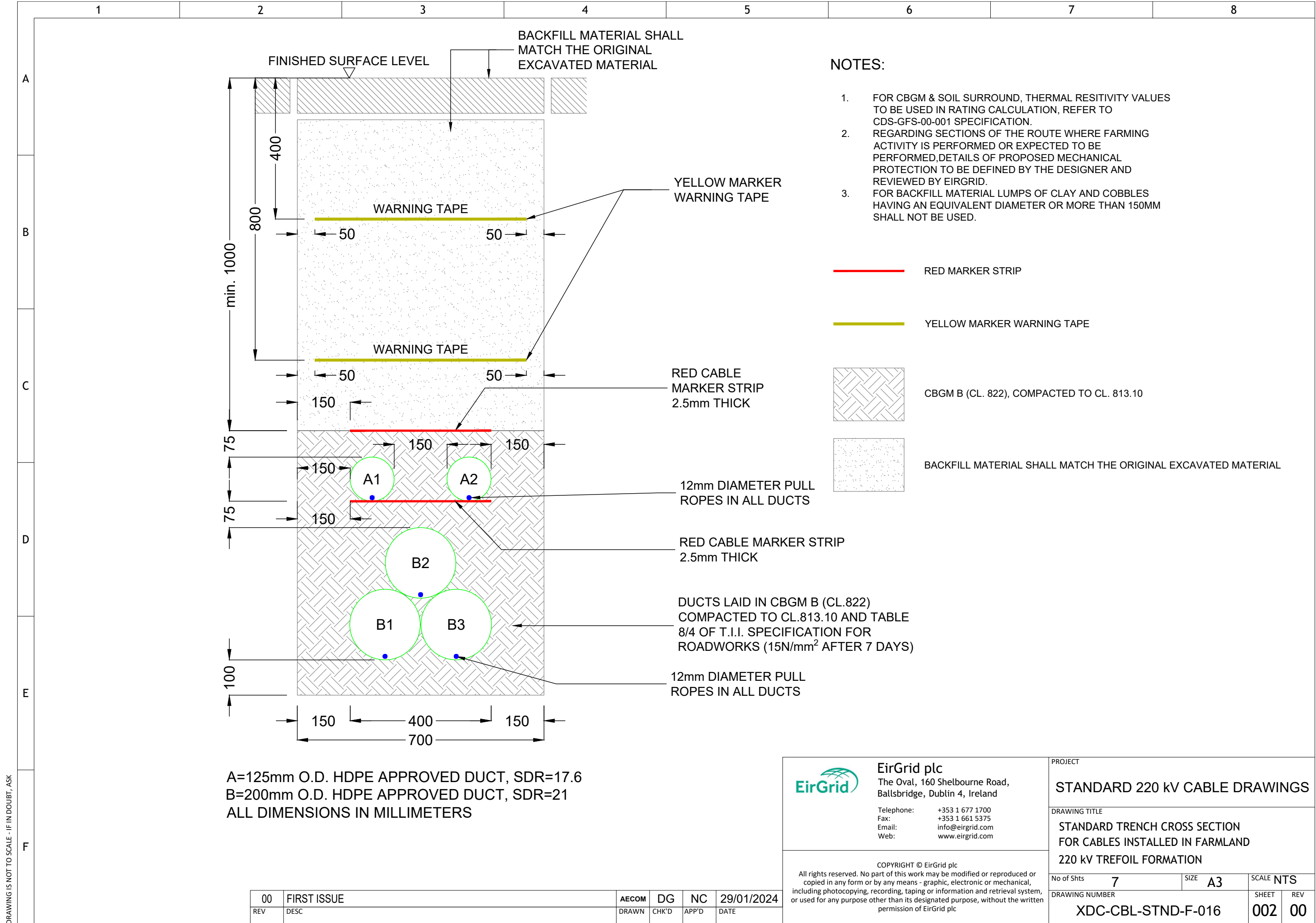


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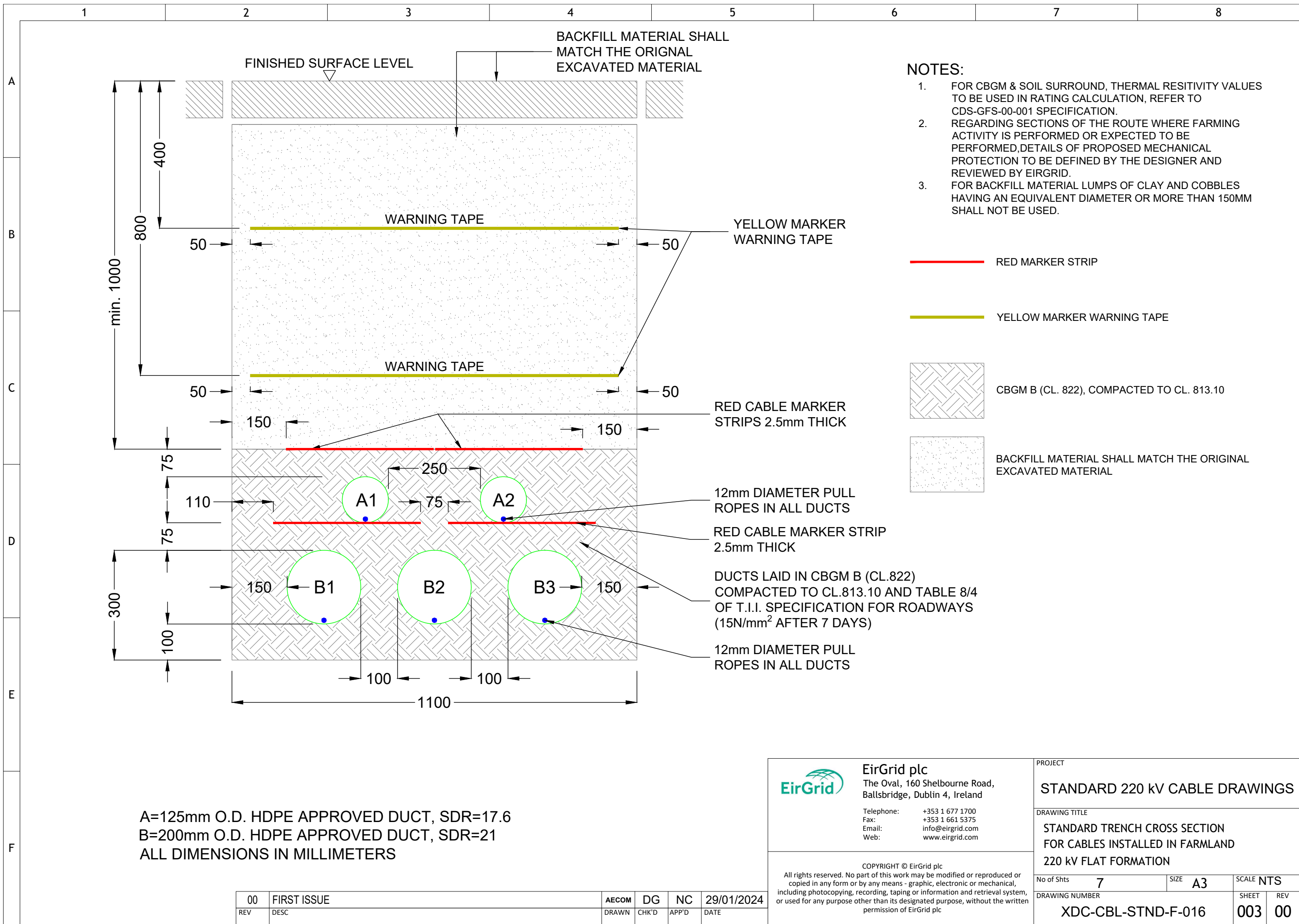
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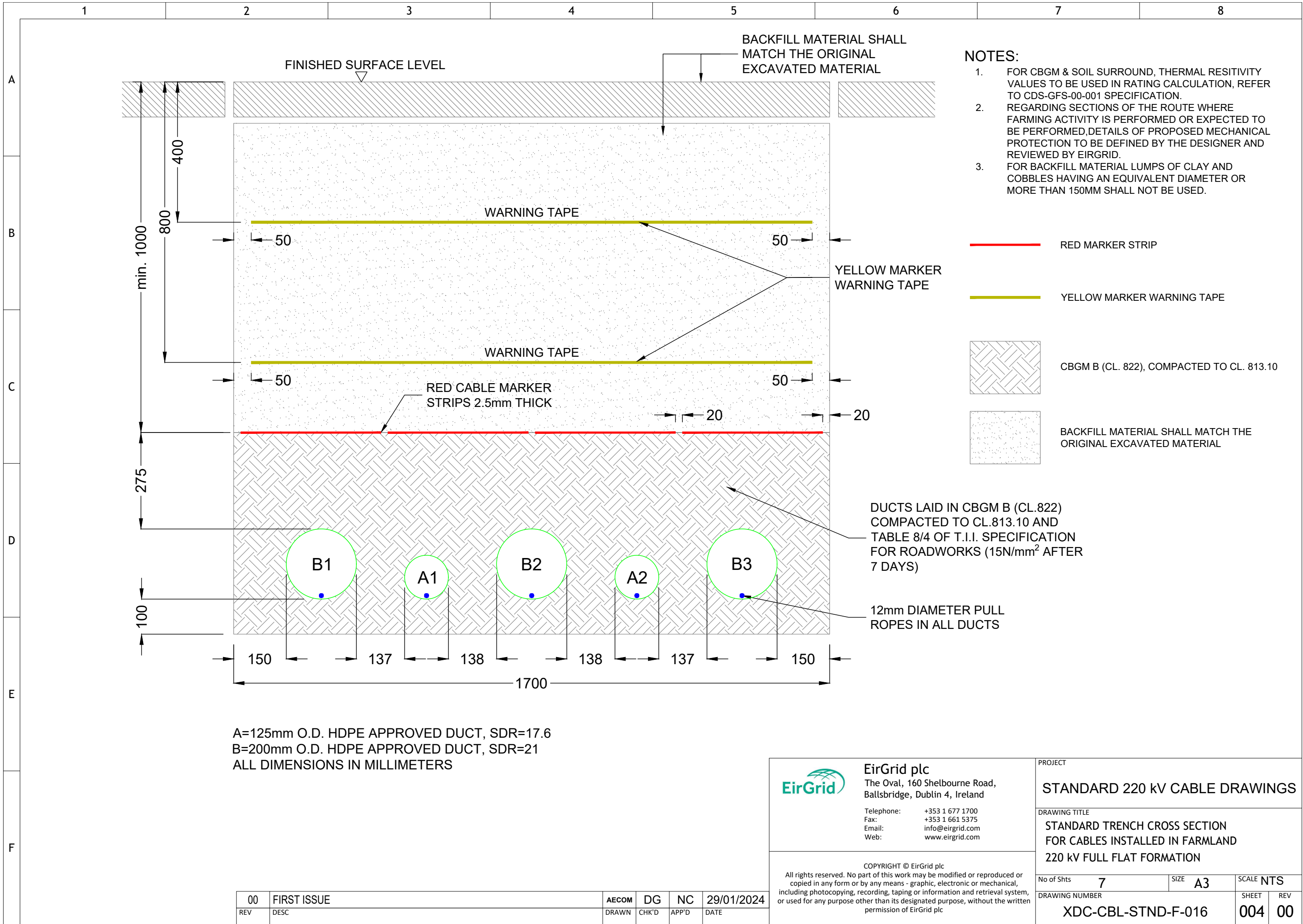
PROJECT STANDARD 220 kV CABLE DRAWINGS			
DRAWING TITLE STANDARD TRENCH CROSS SECTION FOR CABLES INSTALLED IN FARMLAND INDEX SHEET			
No of Shts	7	SIZE	A3
SCALE	NTS	DRAWING NUMBER	XDC-CBL-STND-F-016
SHEET	001	REV	00



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NOTES:

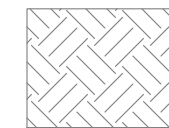
1. FOR CBGM & SOIL SURROUND, THERMAL RESISTIVITY VALUES TO BE USED IN RATING CALCULATION, REFER TO CDS-GFS-00-001 SPECIFICATION.
2. REGARDING SECTIONS OF THE ROUTE WHERE FARMING ACTIVITY IS PERFORMED OR EXPECTED TO BE PERFORMED, DETAILS OF PROPOSED MECHANICAL PROTECTION TO BE DEFINED BY THE DESIGNER AND REVIEWED BY EIRGRID.
3. FOR BACKFILL MATERIAL LUMPS OF CLAY AND COBBLES HAVING AN EQUIVALENT DIAMETER OR MORE THAN 150MM SHALL NOT BE USED.
4. FOR ECC INSTALLATION PURPOSES, A 63mm OD DUCT IS REQUIRED. IF A DEROGATION IS PROVIDED BY EIRGRID TO USE A BIGGER DUCT THEN 75mm DISTANCE BETWEEN THIS ECC DUCT AND ANY OTHER DUCT SHALL BE CONSIDERED IN THE DRAWING AND THIS MAY INCREASE THE TOTAL TRENCH WIDTH.



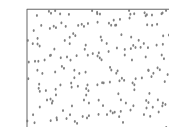
RED MARKER STRIP



YELLOW MARKER WARNING TAPE



CBGM B (CL. 822), COMPACTED TO CL. 813.10



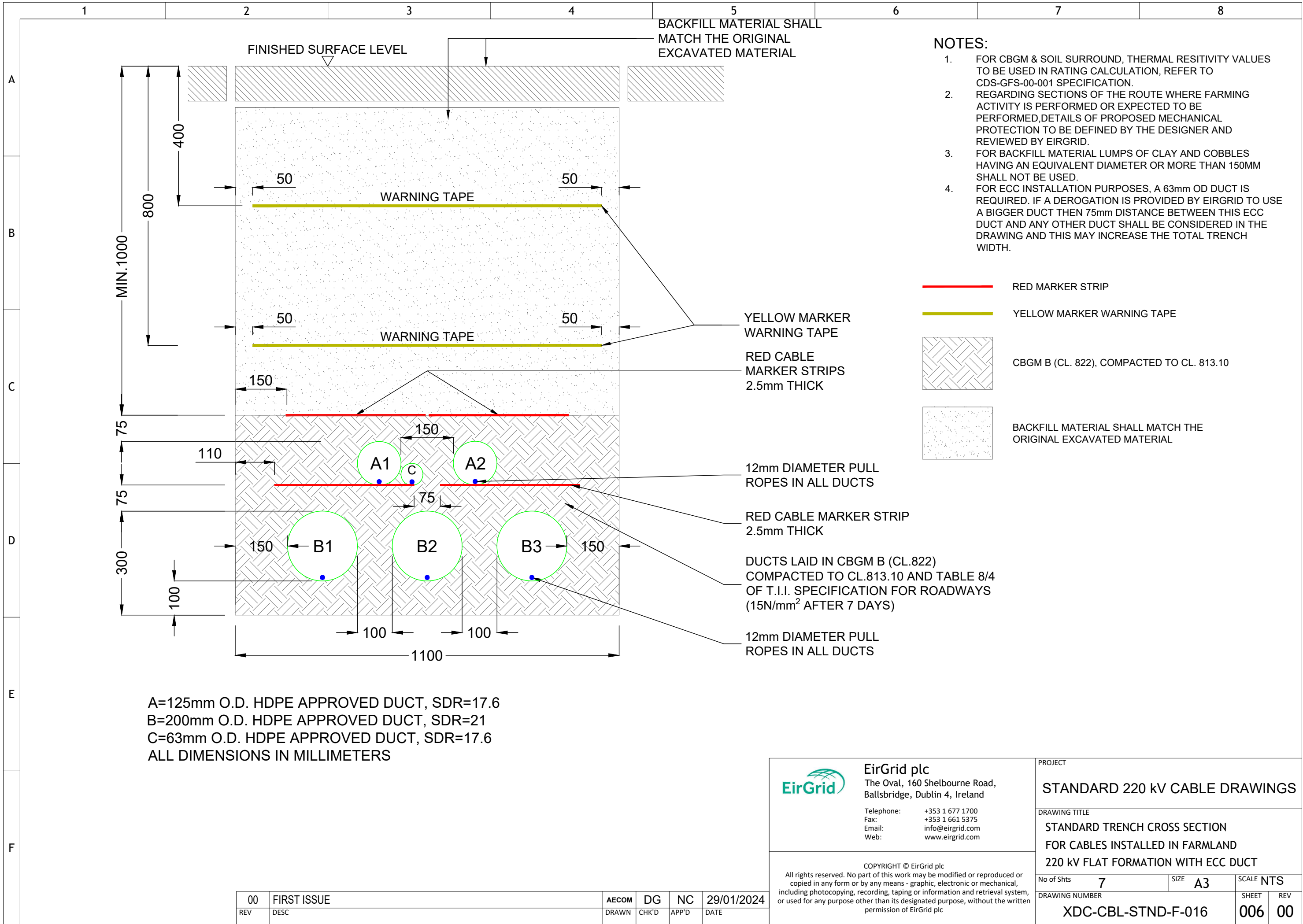
BACKFILL MATERIAL SHALL MATCH THE ORIGINAL EXCAVATED MATERIAL

A=125mm O.D. HDPE APPROVED DUCT, SDR=17.6
B=200mm O.D. HDPE APPROVED DUCT, SDR=21
C=63mm O.D. HDPE APPROVED DUCT, SDR=17.6
ALL DIMENSIONS IN MILLIMETERS

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 EirGrid plc The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland Telephone: +353 1 677 1700 Fax: +353 1 661 5375 Email: info@eirgrid.com Web: www.eirgrid.com	PROJECT STANDARD 220 kV CABLE DRAWINGS			
	DRAWING TITLE STANDARDTRECNC CROSS SECTION FOR CABLES INSTALLED IN FARMLAND 220 kV TREFOIL FORMATION WITH ECC DUCT			
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	DRAWING NUMBER XDC-CBL-STND-F-016		SHEET 005	REV 00

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