

The background of the entire slide is a photograph of a green tractor plowing a brown, tilled field. In the distance, there are several large, leafy trees under a clear blue sky. The tractor is positioned in the middle ground, moving from left to right.

The Great Grid Upgrade

Eastern Green Link 3 (EGL 3) and
Eastern Green Link 4 (EGL 4)

English Onshore Scheme Construction and Design Drawings

May 2025

To assist with understanding these drawings
please see the **Guide to Consultation
Documents and Drawings**.

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A green tractor is working in a field, likely plowing or tilling the soil. The field is brown and appears to be recently tilled. In the background, there are several large, leafy trees and a clear blue sky. The tractor is positioned in the center-right of the frame, moving towards the left. The overall scene is a rural landscape.

The Great Grid Upgrade

Eastern Green Link 3 (EGL 3) and
Eastern Green Link 4 (EGL 4)

01. Typical HVAC Construction and Design Drawings

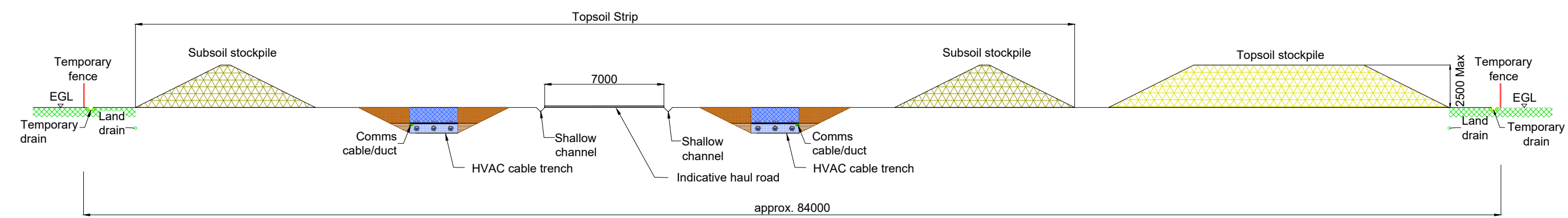
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01. Typical HVAC Construction and Design Drawings

Drawing Category	Plan Title	Drawing Reference
English Onshore Scheme Construction and Design Drawings		
Typical HVAC Construction and Design Drawings	Typical HVAC Construction Swathes	S42/TDD/SS/0002 Rev 01
	Typical HVAC Joint Bay	S42/TDD/SS/0005 Rev 01
	Typical HVAC Road Ducted Crossing	S42/TDD/SS/0008 Rev 01
	Typical HVAC Watercourse Ducted Crossing	S42/TDD/SS/0009 Rev 01
	Typical HVAC Trenchless Crossing Compound	S42/TDD/SS/0017 Rev 01

To assist with understanding these drawings please see the **Guide to Consultation Documents and Drawings**.

Notes
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The diagram illustrates a cross-section of a proposed road layout. Key features and dimensions include:

- Topsoil strip**: A horizontal strip at the top of the road profile.
- Subsoil stockpile**: A triangular area on the left side of the road.
- Topsoil stockpile**: A triangular area on the right side of the road.
- Temporary fence**: A dashed line on the far left and right sides.
- EGL**: Existing Ground Level, indicated by a dashed line.
- Land drain**: Two drains on the far left and right sides.
- Comms cable/duct**: Two sets of blue rectangular structures in the center.
- HVAC cable trench**: Two sets of blue rectangular structures in the center.
- Shallow channel**: Two channels in the center.
- Indicative haul road**: A central road section.
- Dimensions**:
 - 7000**: Width of the central road section.
 - 2500 Max**: Maximum width of the rightmost stockpile.
 - approx. 135000**: Total length of the road section.

The diagram illustrates a proposed road layout with two identical road sections. Each section includes a temporary fence, a temporary drain, a temporary stockpile, a subsoil stockpile, a commo cable/duct, an HVAC cable trench, a shallow channel, an indicative haul road, and a topsoil stockpile. The diagram is labeled with dimensions like 7000 and 1500, and a scale of approx. 1:68000.

SCALE BAR (METRES)

1:25 0 1.25m 2.5m

1:250 0 12.5m 25m

Legend

	Well-compacted thermally suitable backfill
	Well-compacted thermally suitable backfill (Played Excavation)
	Thermally suitable cable surround (e.g. Cement-bound sand)
	Thermally suitable cable surround (e.g. Cement-bound sand, Played Excavation)
	Cable protection tiles
	Cable warning tape
	Topsoil stockpile
	Subsoil stockpile
	Existing Ground
	Haul Road/ Temporary Footway

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EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL HVAC CONSTRUCTION SWATHES
SHEET 1 OF 1

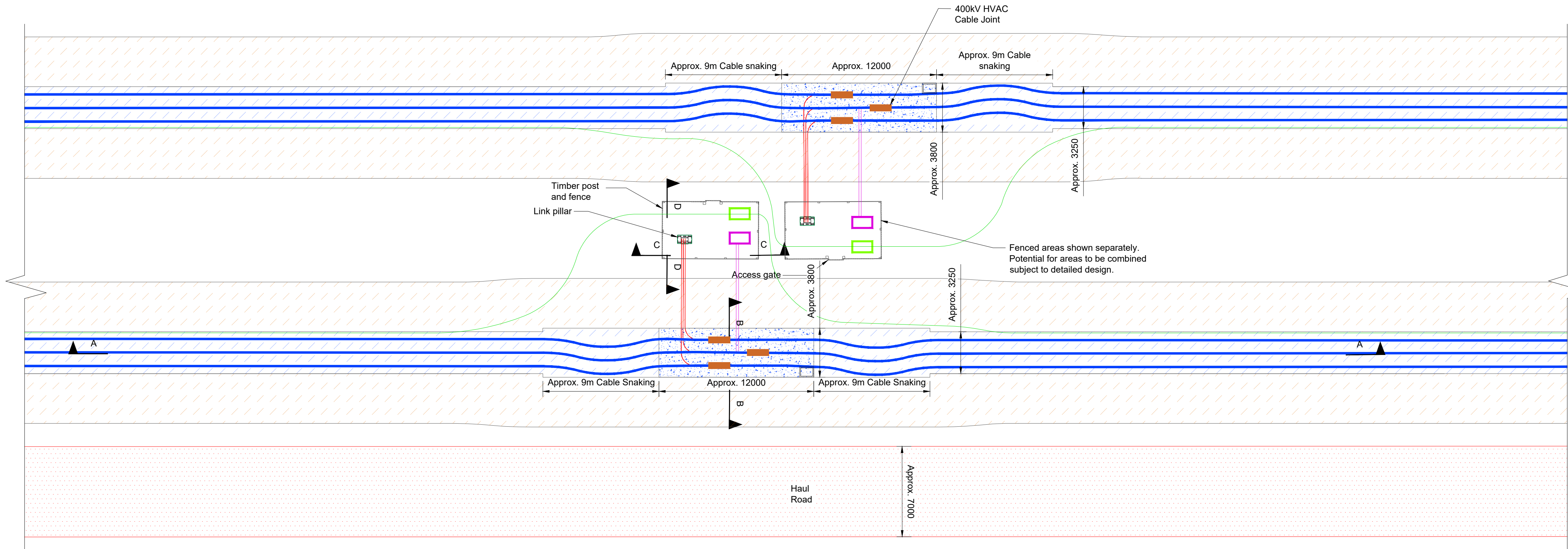
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Application Number			
EN0210003			
National Grid Drawing Reference			
S42/TDD/SS/0002			
File	Sheet Size	Sheet	Issue
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EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL HVAC JOINT BAY
SHEET 1 OF 1

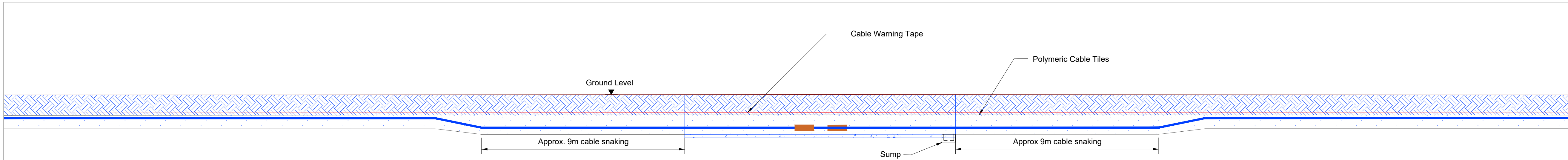
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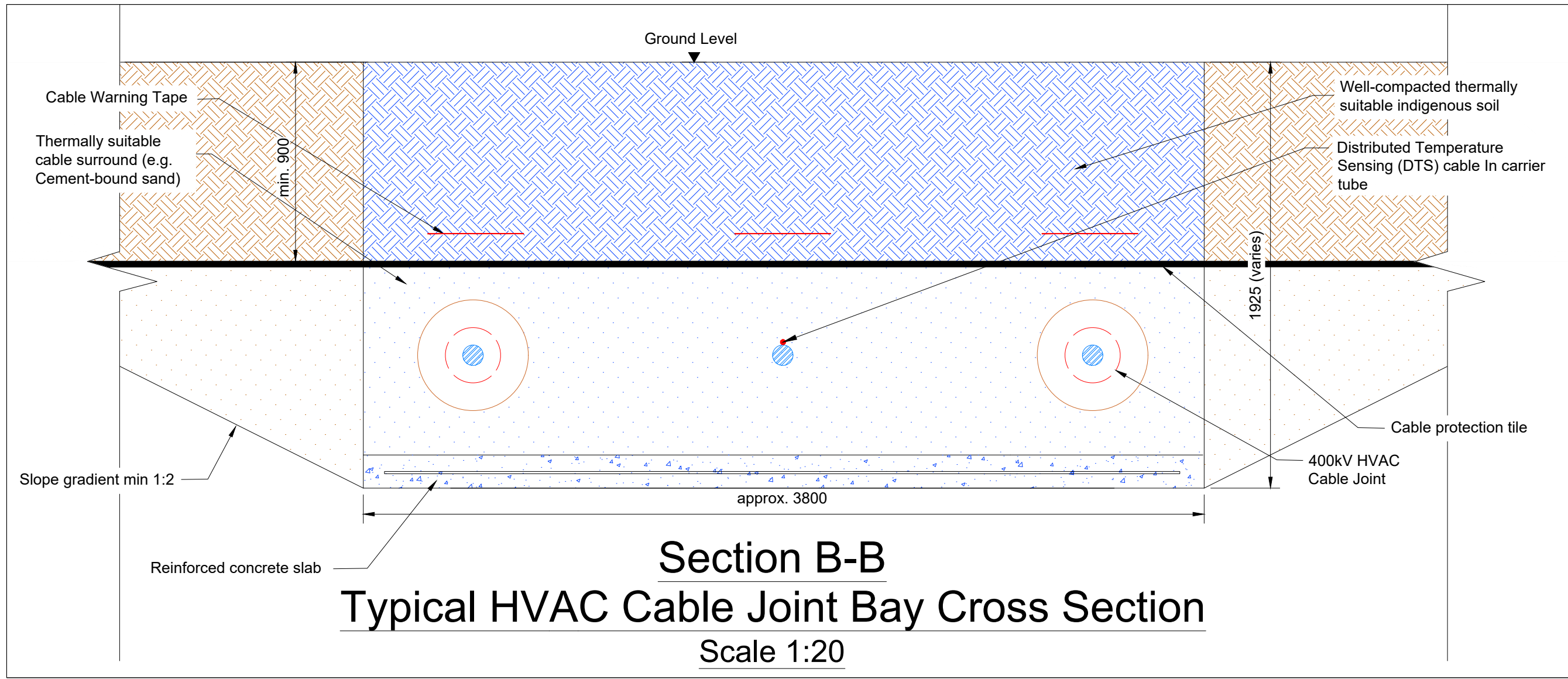


Additional joint bays will be required on this side of the haul road, likely at separate intervals. Locations will be defined at detailed design.

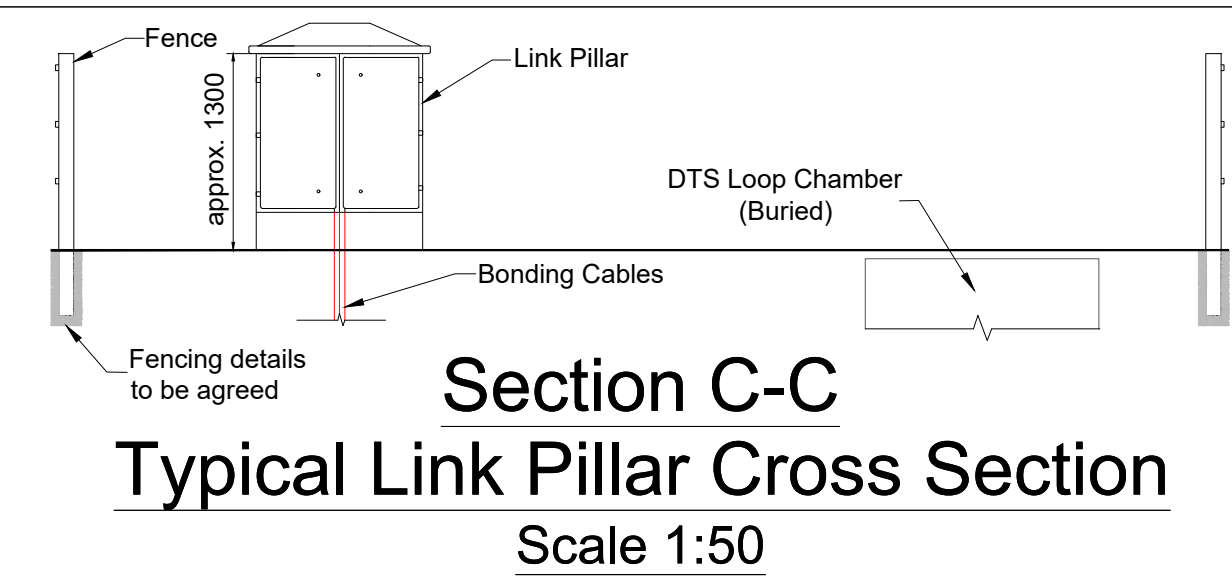
Typical HVAC Cable Joint Bay Layout
Scale 1:200



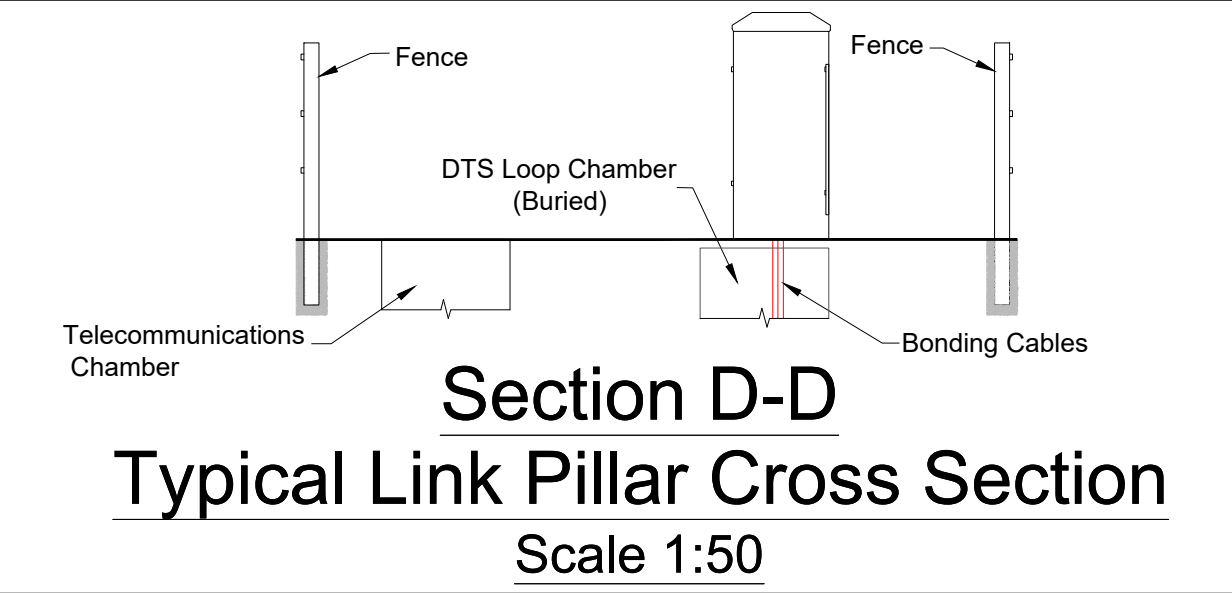
Section A-A
Typical HVAC Cable Joint Bay Long Section
Scale 1:100



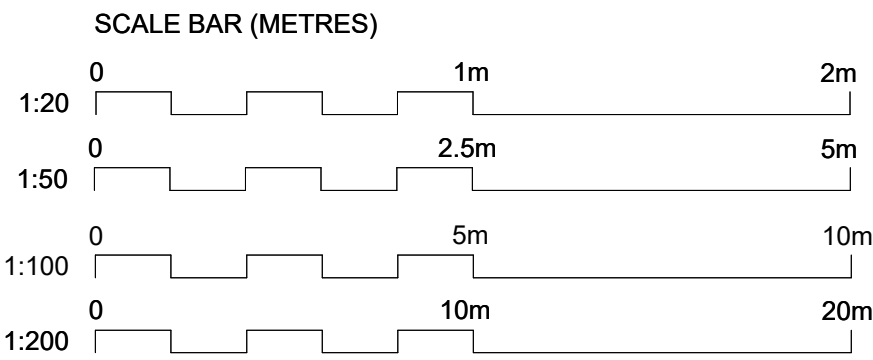
Section B-B
Typical HVAC Cable Joint Bay Cross Section
Scale 1:20



Section C-C
Typical Link Pillar Cross Section
Scale 1:50



Section D-D
Typical Link Pillar Cross Section
Scale 1:50



Legend

- Trench
- Spayed excavation
- Concrete
- Temporary Haul Road
- Well-compacted thermally suitable backfill (Trench)
- Thermally suitable cable surround (Trench)
- Well-compacted thermally suitable backfill (Spayed excavation)
- Thermally suitable cable surround (Spayed excavation)
- HVDC Cable
- Cable protection tiles
- Cable Warning Tape
- Bonding Cable
- Telecommunication Chamber
- DTS Loop
- DTS Cables
- Communication Cable Duct

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Issue	Date	Remarks	Drawn	Checked	Approved

Title

EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL HVAC JOINT BAY
SHEET 1 OF 1

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Application Number

EN0210003

National Grid Drawing Reference

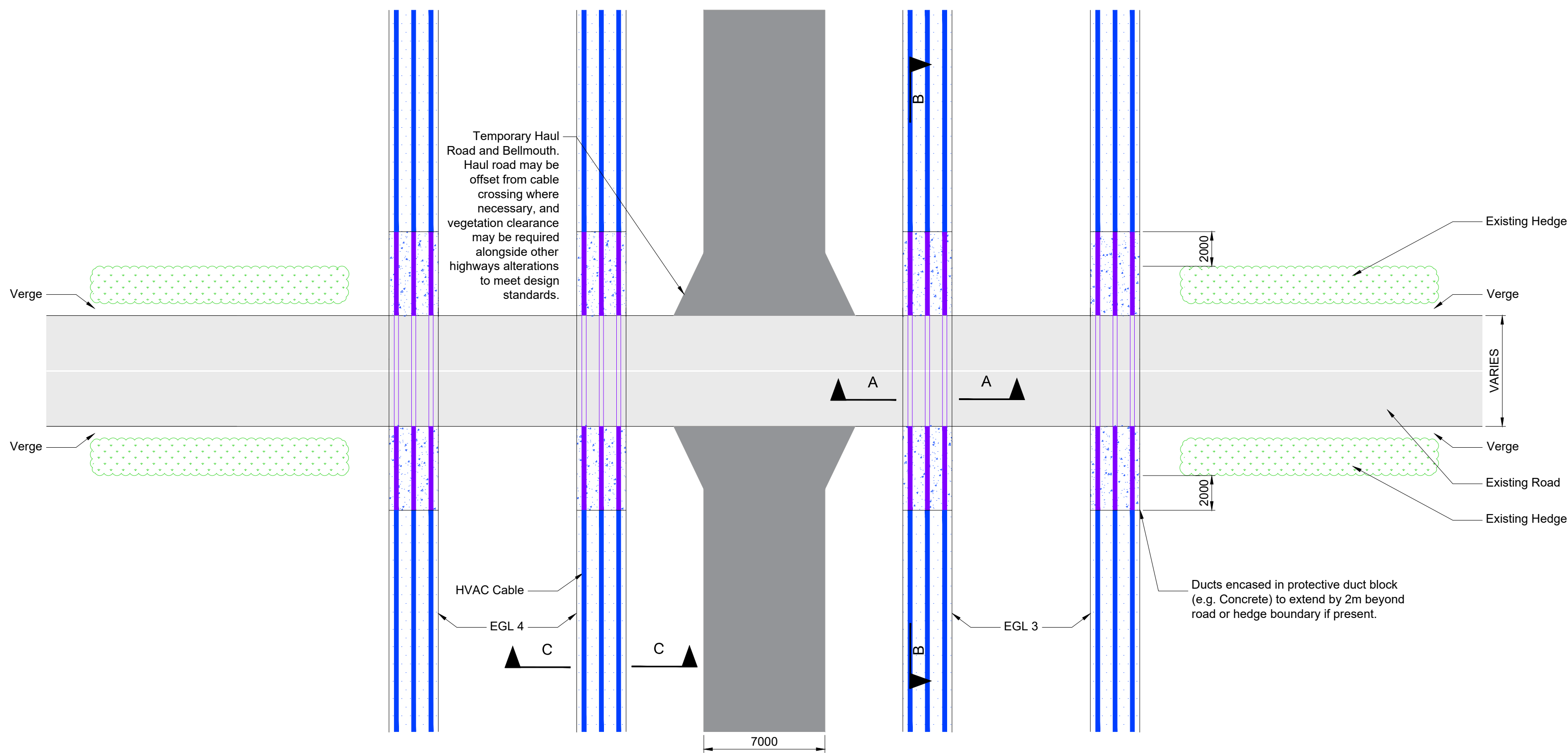
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Scale	Sheet Size	Sheet	Issue
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EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL DUCTED ROAD CROSSING - HVAC
SHEET 1 OF 1

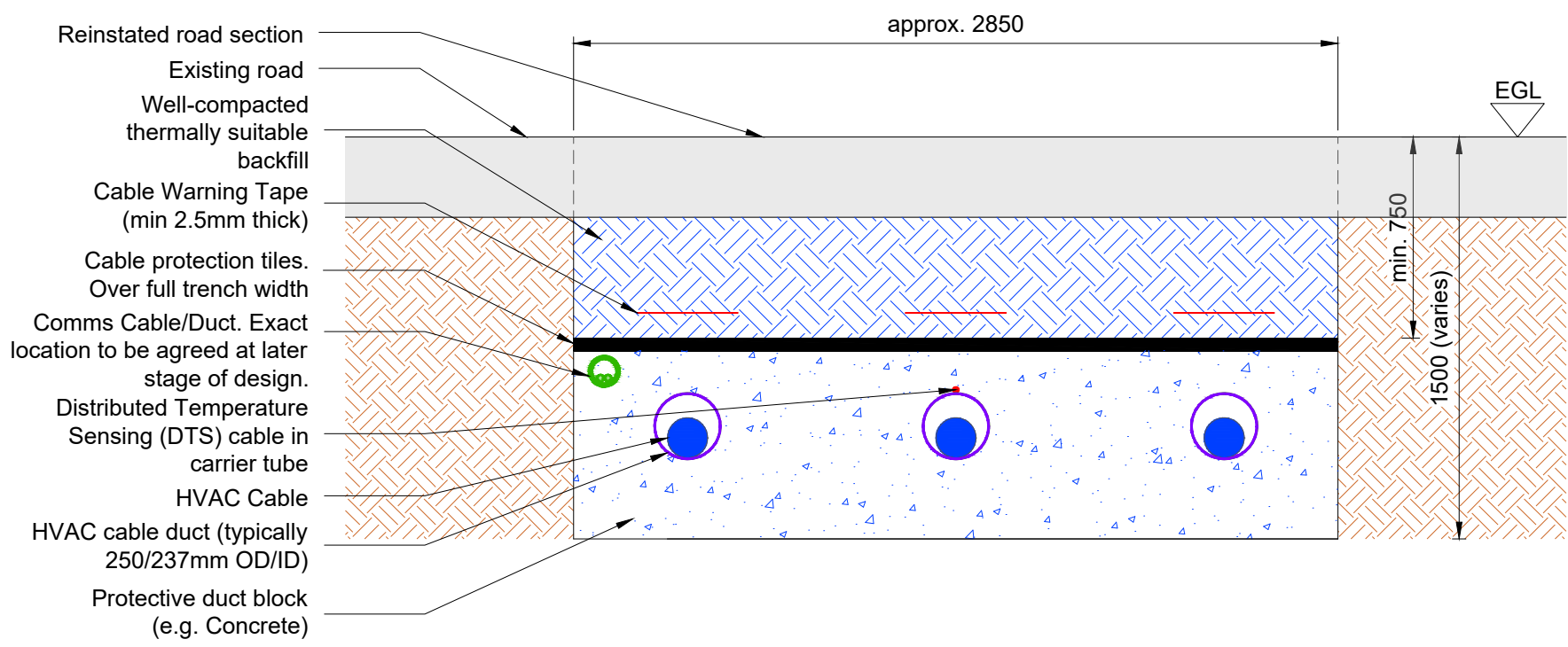
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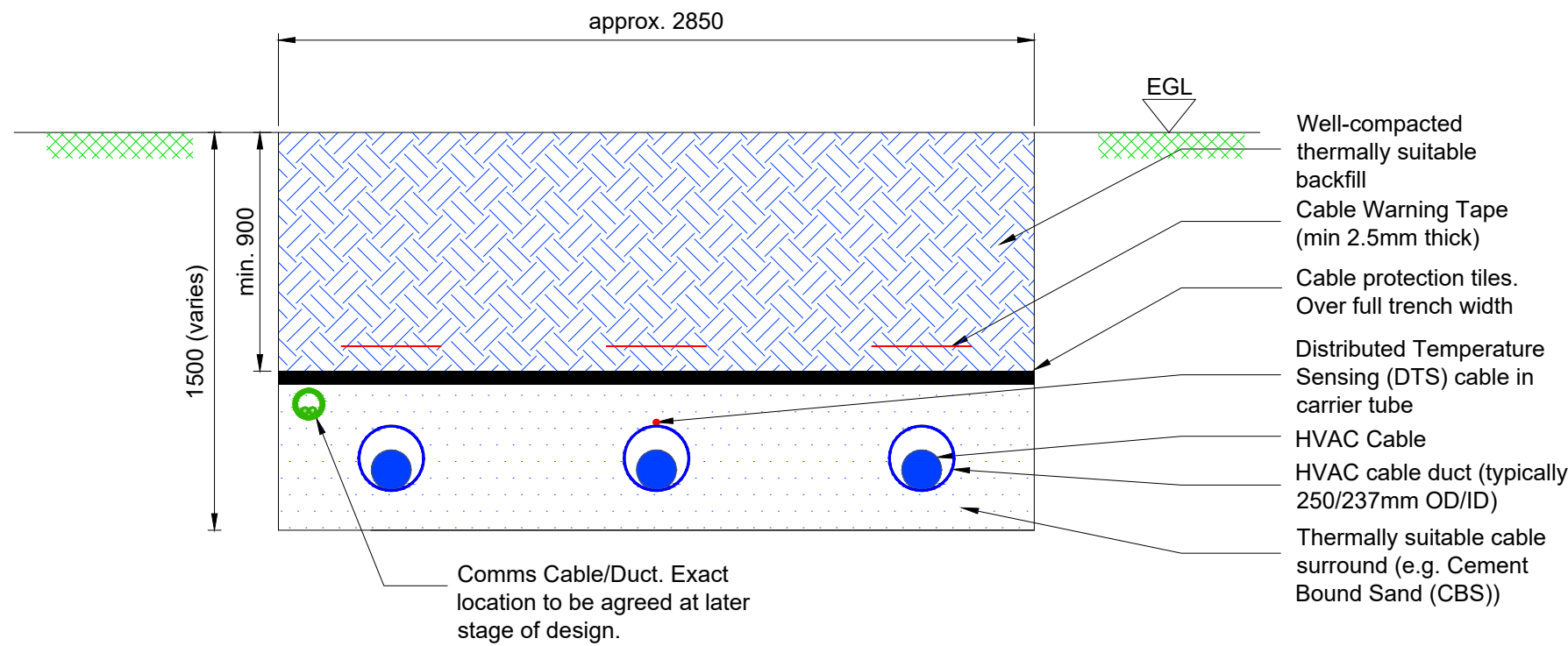
Typical Open Cut Road Crossing Plan View

Scale 1:200



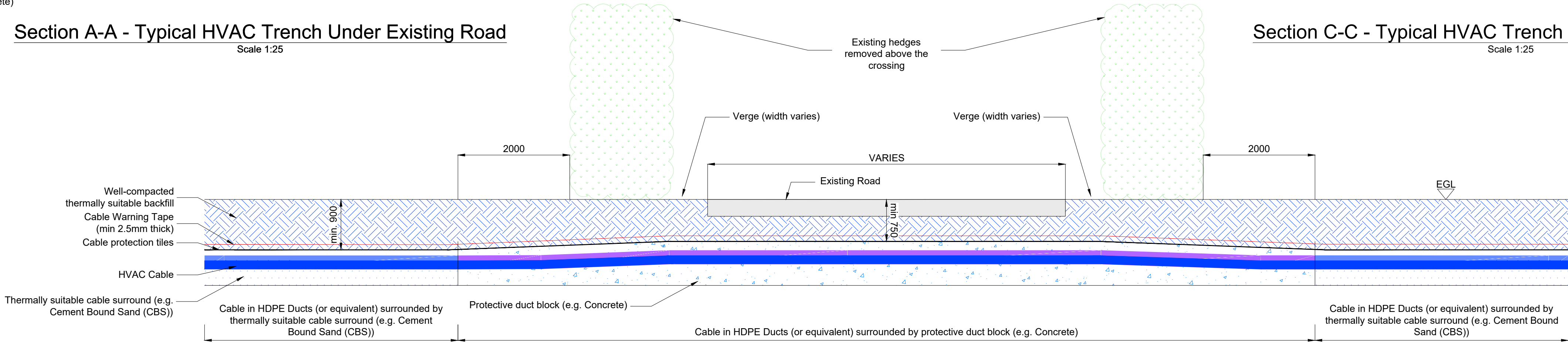
Section A-A - Typical HVAC Trench Under Existing Road

Scale 1:25



Section C-C - Typical HVAC Trench within Agricultural Field

Scale 1:25



Section B-B - Typical Ducted Road Crossing

Scale 1:50

Legend

- Well-compacted thermally suitable backfill
- Thermally suitable cable surround (e.g. Cement Bound Sand (CBS))
- Protective duct block (e.g. Concrete)
- Haul Road
- Existing Road
- High Voltage Alternating Current (HVAC) Cable
- HVAC Cable Duct
- HVAC Cable Crossing Duct surrounded by protective duct block
- Cable warning tape
- Existing Hedge
- Existing Ground
- Existing Carriageway Build-up

1ST	MAY 25	1ST ISSUE	OM	RM	LP
Issue	Date	Remarks	Drawn	Checked	Approved

Title

EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL DUCTED ROAD CROSSING - HVAC
SHEET 1 OF 1

nationalgrid

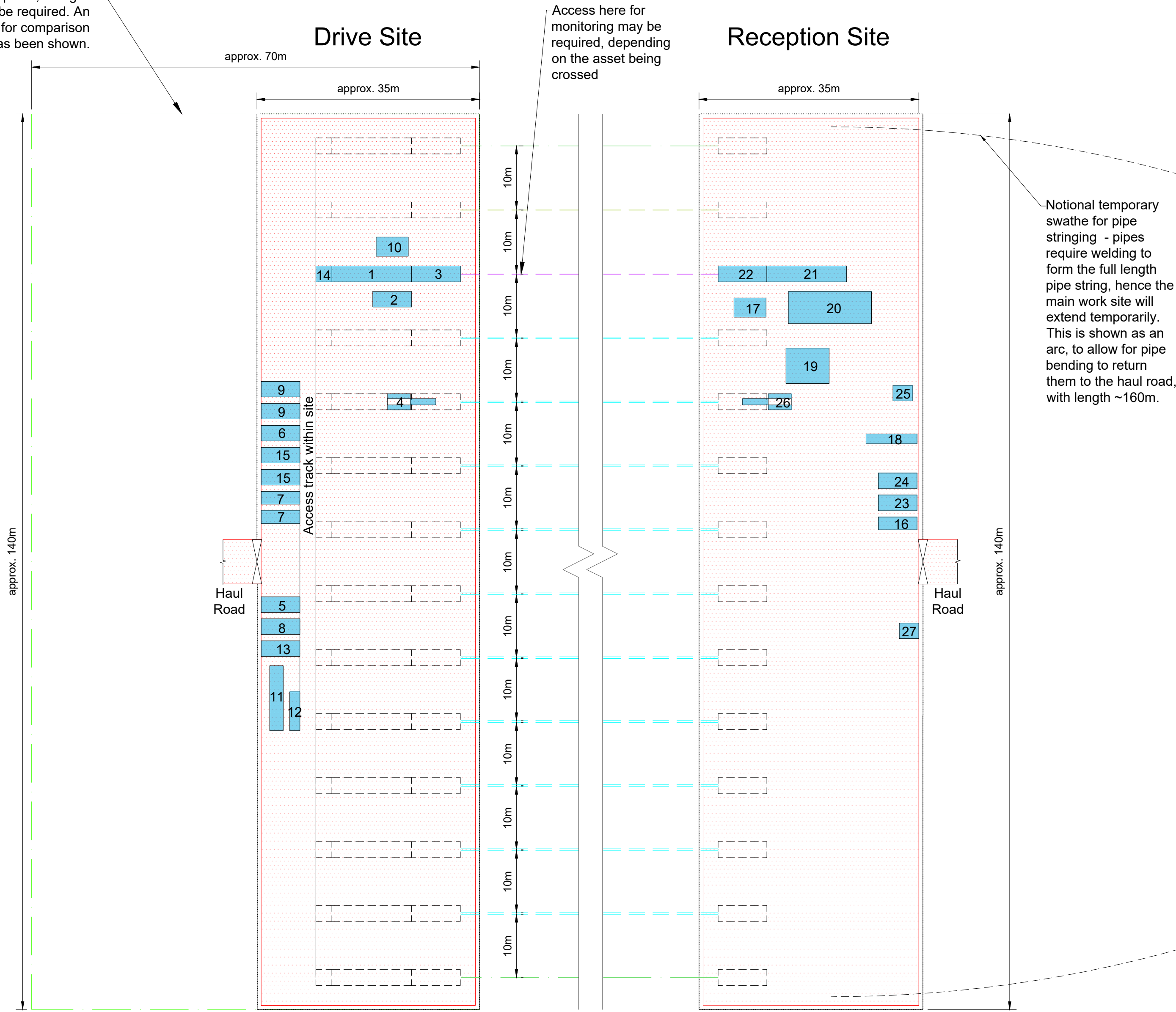
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S42/TDD/SS/0008			
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EASTERN GREEN LINK (EGL) 3 & EGL 4 ORDER
TYPICAL TRENCHLESS CROSSING COMPOUND - HVAC
SHEET 1 OF 1

Notes

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If alternative trenchless crossing methods are required, a larger drive site may be required. An indicative area for comparison has been shown.



Drive Site

1. Drilling Rig
2. Control Cabin
3. Launch Pit
4. Excavator
5. High Pressure Mud Pump
6. Slurry Separation Plant
7. Cuttings
8. Generator
9. Slurry Storage
10. Pipe Storage
11. Store
12. Skips
13. Office & Welfare
14. Working space
15. Slurry Mixing Tank

Reception Site

16. Cuttings
17. Drill Pipes
18. Spares Storage
19. Construction Equipment
20. Product Pipelines
21. Pipeline Rollers
22. Reception Pit
23. Slurry Treatment Plant
24. Slurry Tank
25. Generator
26. Excavator
27. Pump

Legend

- Hard Standing/ Gravel Surface
- Construction Equipment/ Area
- Cement-bound sand cable surround
- Fence
- Cable Duct (Being Installed)
- Cable Duct (Installed)
- Cable Duct (To Be Installed)
- Gate
- Comms Cable/Duct
- Alternative Trenchless Crossing Drive Site

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Title

EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL TRENCHLESS CROSSING
COMPOUND - HVAC
SHEET 1 OF 1

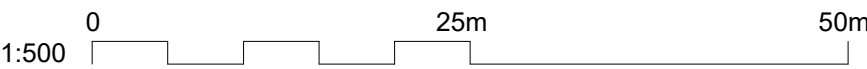
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National Grid Drawing Reference		S42/TDD/SS/0017			
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Typical Trenchless Crossing Compound

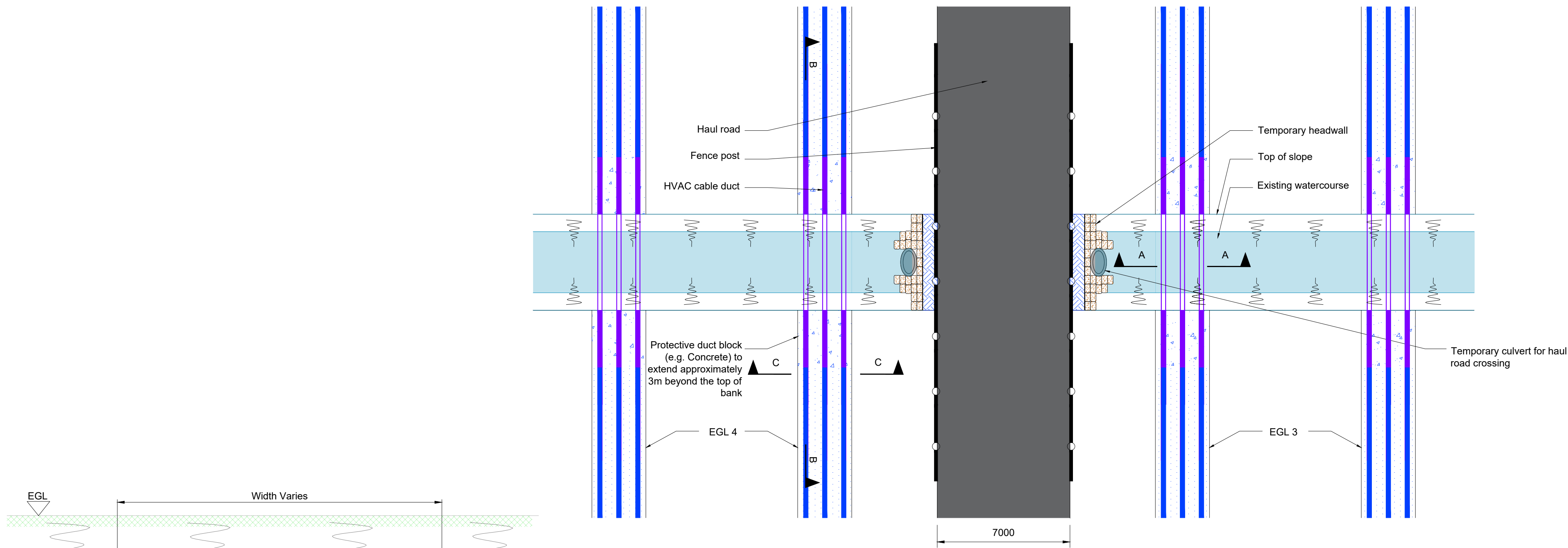
Scale 1:500

SCALE BAR (METRES)

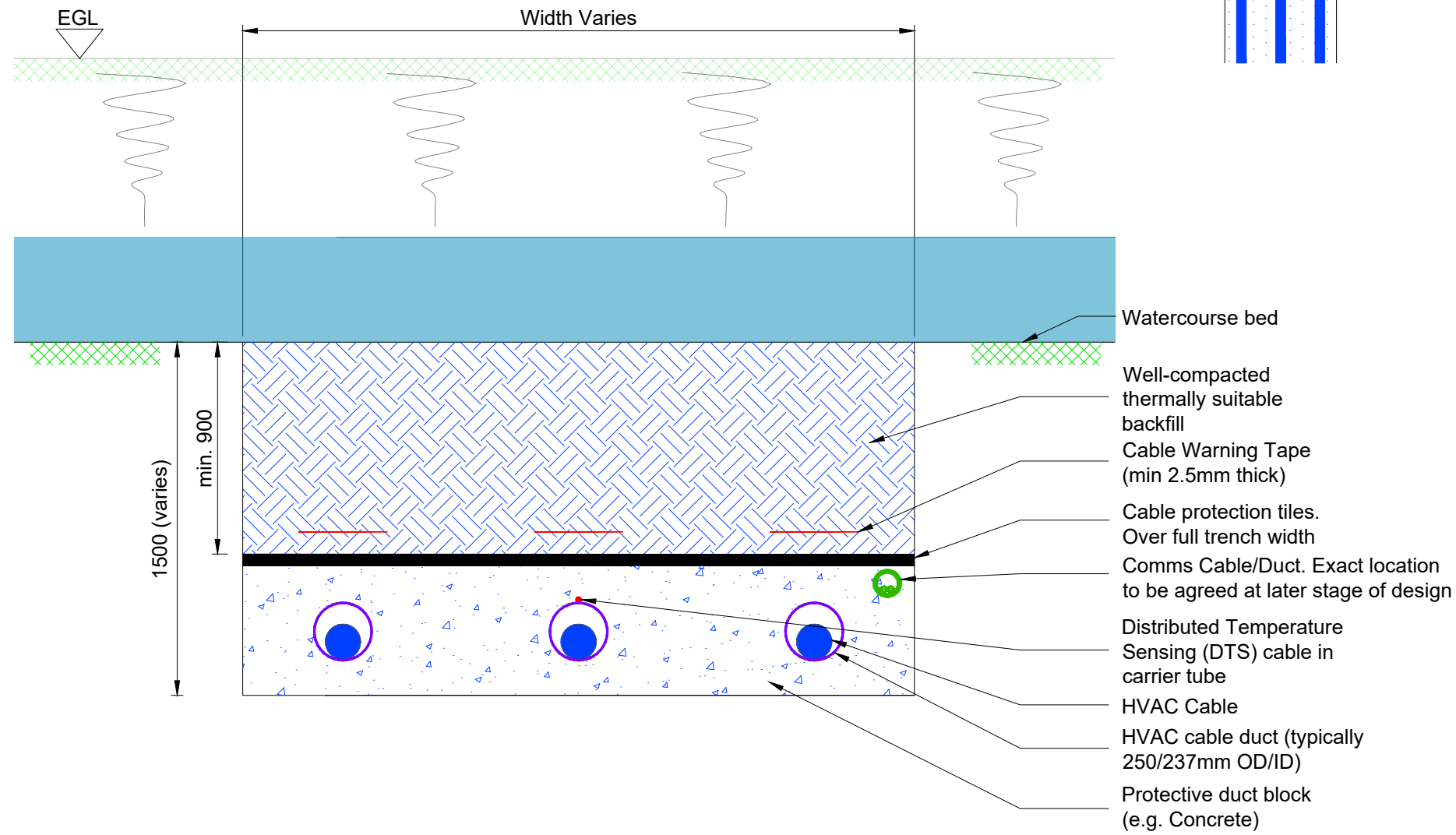


EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL DUCTED WATERCOURSE CROSSING - HVAC
SHEET 1 OF 1

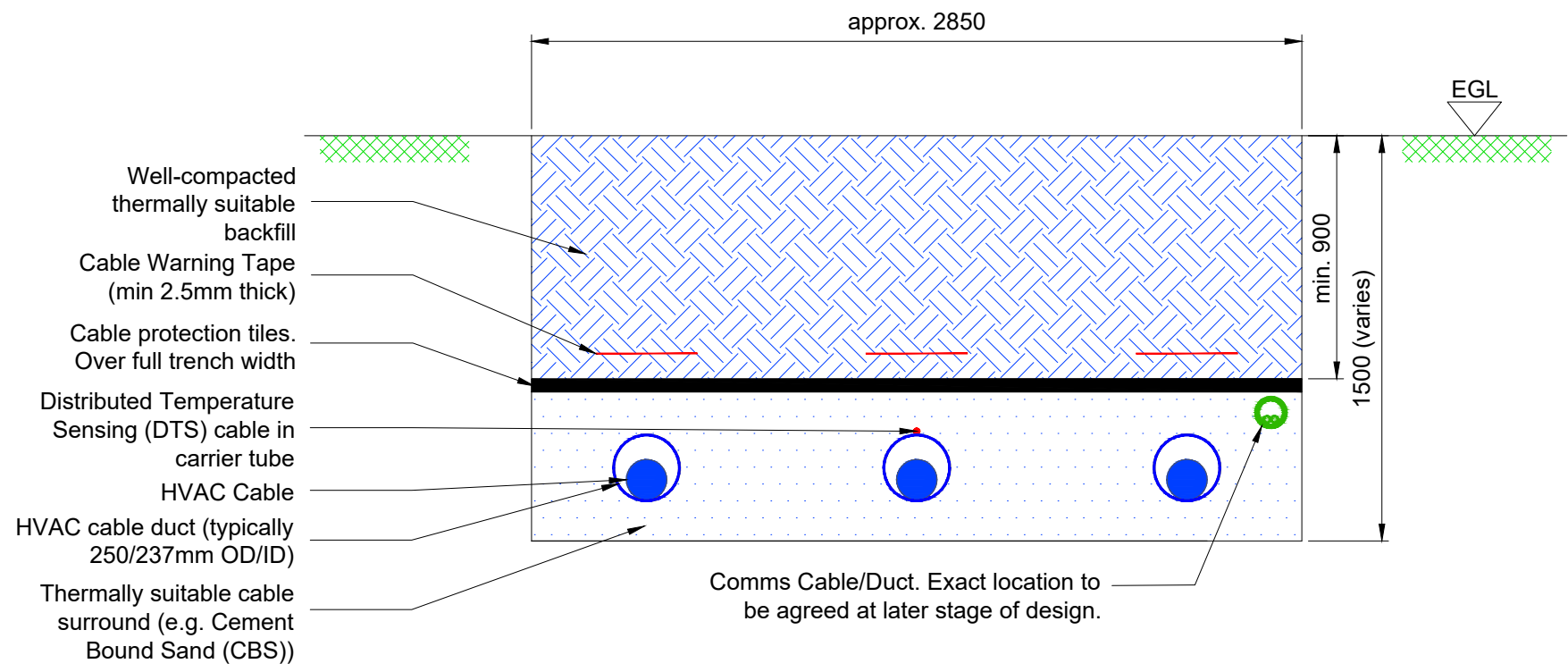
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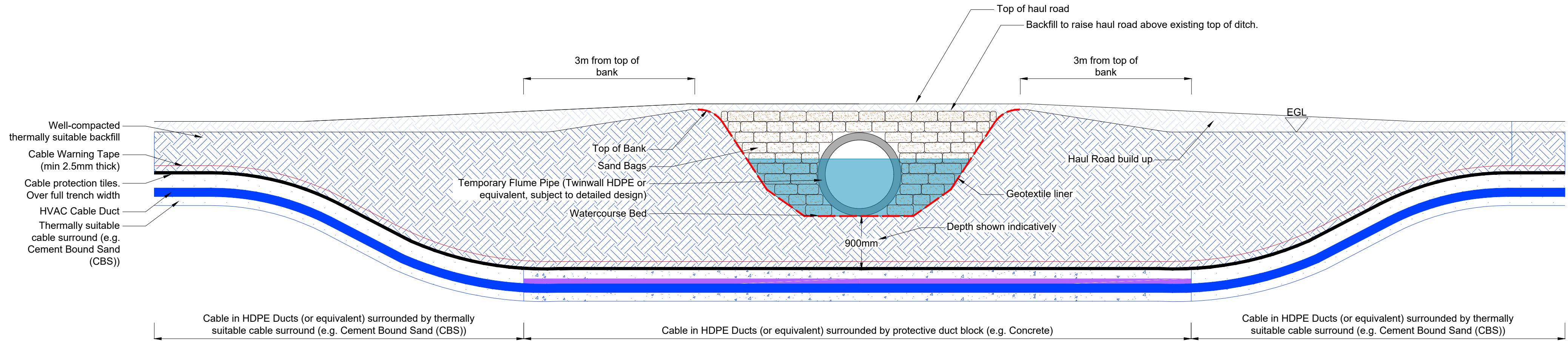
Typical Open Cut Watercourse Crossing Plan View
Scale 1:150



Section A-A - Typical HVAC Trench Under Watercourse
Scale 1:25



Section C-C - Typical HVAC Trench Within Agricultural Field
Scale 1:25



Section B-B - Typical Ducted Watercourse Crossing
Scale 1:50

Legend					
	Well-compacted thermally suitable backfill				
	Thermally suitable cable surround (e.g. Cement Bound Sand (CBS))				
	Protective duct block (e.g. Concrete)				
	Haul Road				
	Temporary culvert for haul road crossing				
	High Voltage Alternating Current (HVAC) Cable				
	HVAC Cable Duct				
	HVAC Cable Duct surrounded in protective duct block				
	Cable warning tape				
	Cable protection tiles				
	Existing Ground				
	Existing Watercourse				
	Sand Bag				
	Geotextile Liner				

1ST	MAY 25	1ST ISSUE	OM	RM	LP
Issue	Date	Remarks	Drawn	Checked	Approved
Title					

EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL DUCTED WATERCOURSE
CROSSING - HVAC
SHEET 1 OF 1

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Application Number					
EN0210003					
National Grid Drawing Reference					
S42/TDD/SS/0009					
Scale	Sheet Size	Sheet	Issue		
AS SHOWN	A1	SHEET 1 OF 1	1ST		

A green tractor is plowing a field, kicking up dust. In the background, there are trees and a clear sky. The scene is rural and agricultural.

The Great Grid Upgrade

Eastern Green Link 3 (EGL 3) and
Eastern Green Link 4 (EGL 4)

02. Typical HVDC Construction and Design Drawings

02. Typical HVDC Construction and Design Drawings

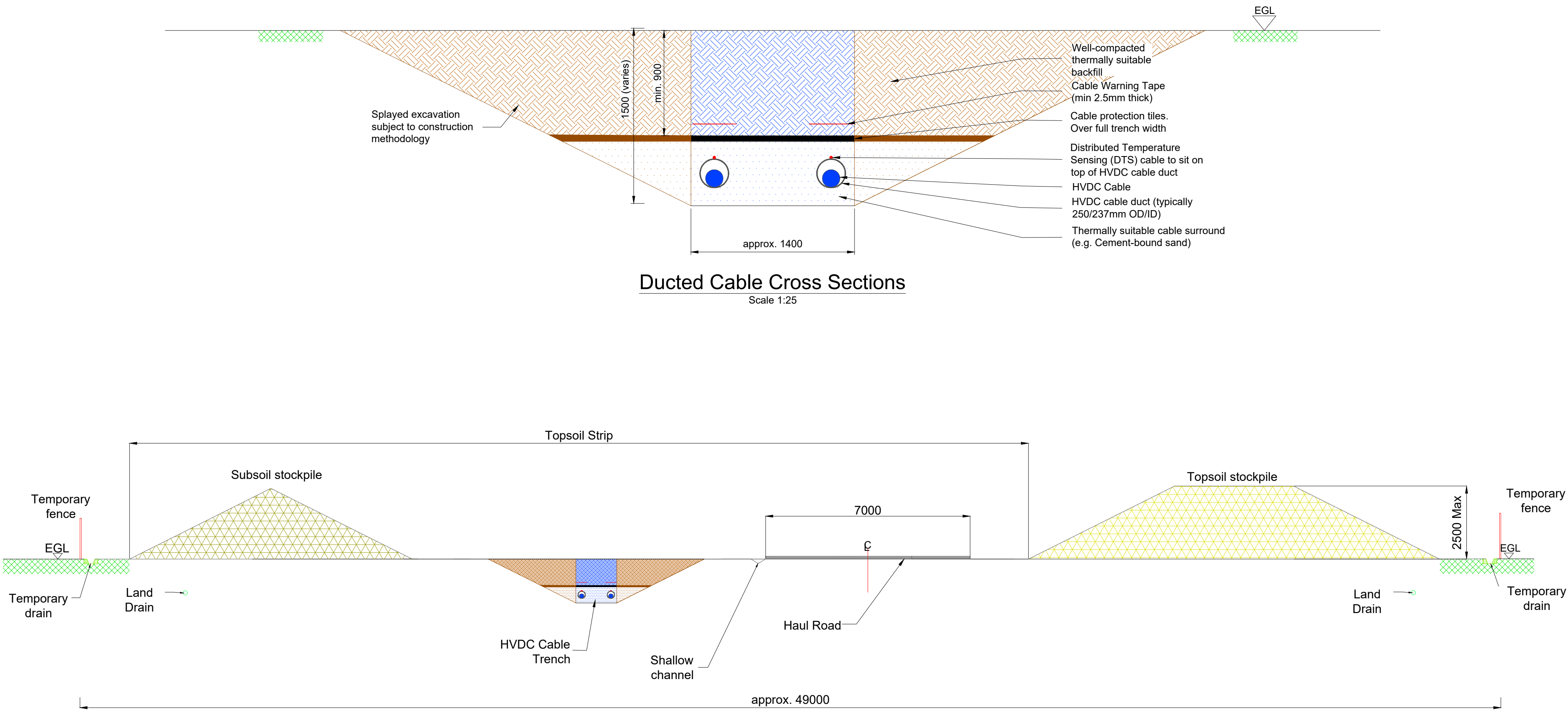
Drawing Category	Plan Title	Drawing Reference
English Onshore Scheme Construction and Design Drawings		
Typical HVDC Construction and Design Drawings	Typical HVDC Construction Swathes	S42/TDD/SS/0001 Rev 01
	Typical HVDC Joint Bay	S42/TDD/SS/0003 Rev 01
	Typical HVDC Transition Joint Bay	S42/TDD/SS/0004 Rev 01
	Typical HVDC Road Ducted Crossing	S42/TDD/SS/0006 Rev 01
	Typical HVDC Watercourse Ducted Crossing	S42/TDD/SS/0007 Rev 01
	Typical HVDC Trenchless Crossing Compound	S42/TDD/SS/0016 Rev 01

To assist with understanding these drawings please see the **[Guide to Consultation Documents and Drawings](#)**.

EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL HVDC CONSTRUCTION SWATHES
SHEET 1 OF 1

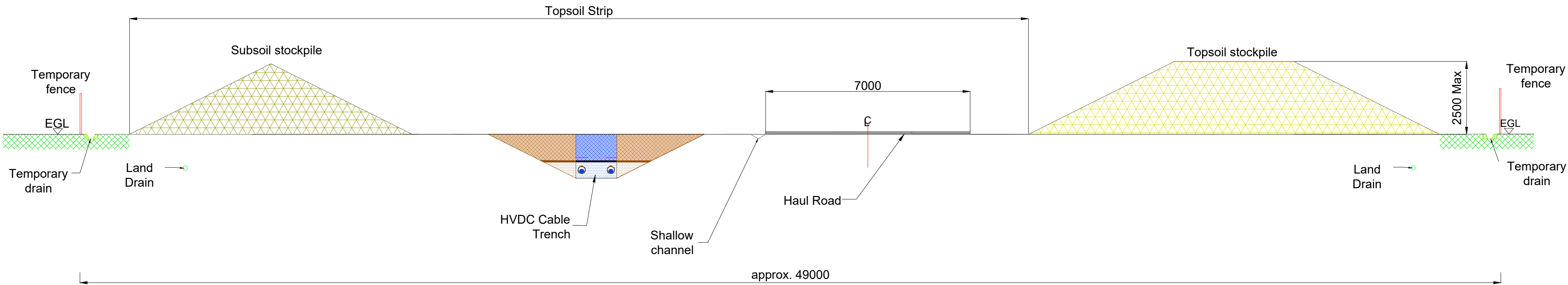
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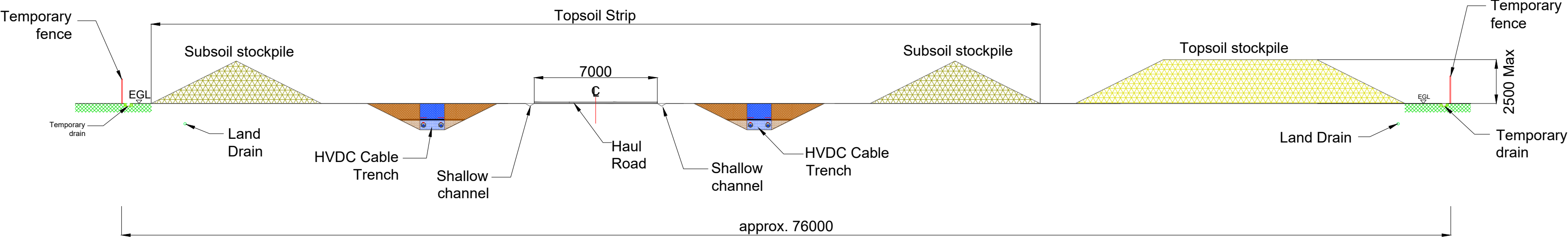
Ducted Cable Cross Sections

Scale 1:25



Typical Construction Swathe - One Trench

Scale 1:100



Typical Construction Swathe - Two Trenches (Combined Corridor)

Scale 1:200

Legend

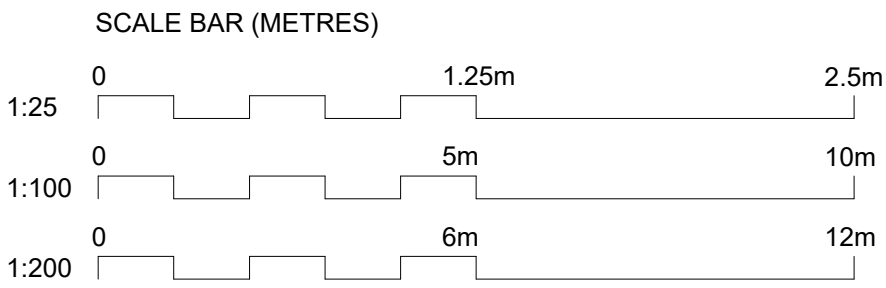
- Well-compacted thermally suitable backfill
- Well-compacted thermally suitable backfill (Splayed Excavation)
- Thermally suitable cable surround (e.g. Cement-bound sand)
- Thermally suitable cable surround (e.g. Cement-bound sand, Splayed Excavation)
- Cable protection tiles
- Cable warning tape
- Topsoil stockpile
- Subsoil stockpile
- Existing Ground
- Haul Road/ Temporary Footway

1ST	MAY 25	1ST ISSUE	OM	RM	LP
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Title

EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL HVDC CONSTRUCTION SWATHES
SHEET 1 OF 1

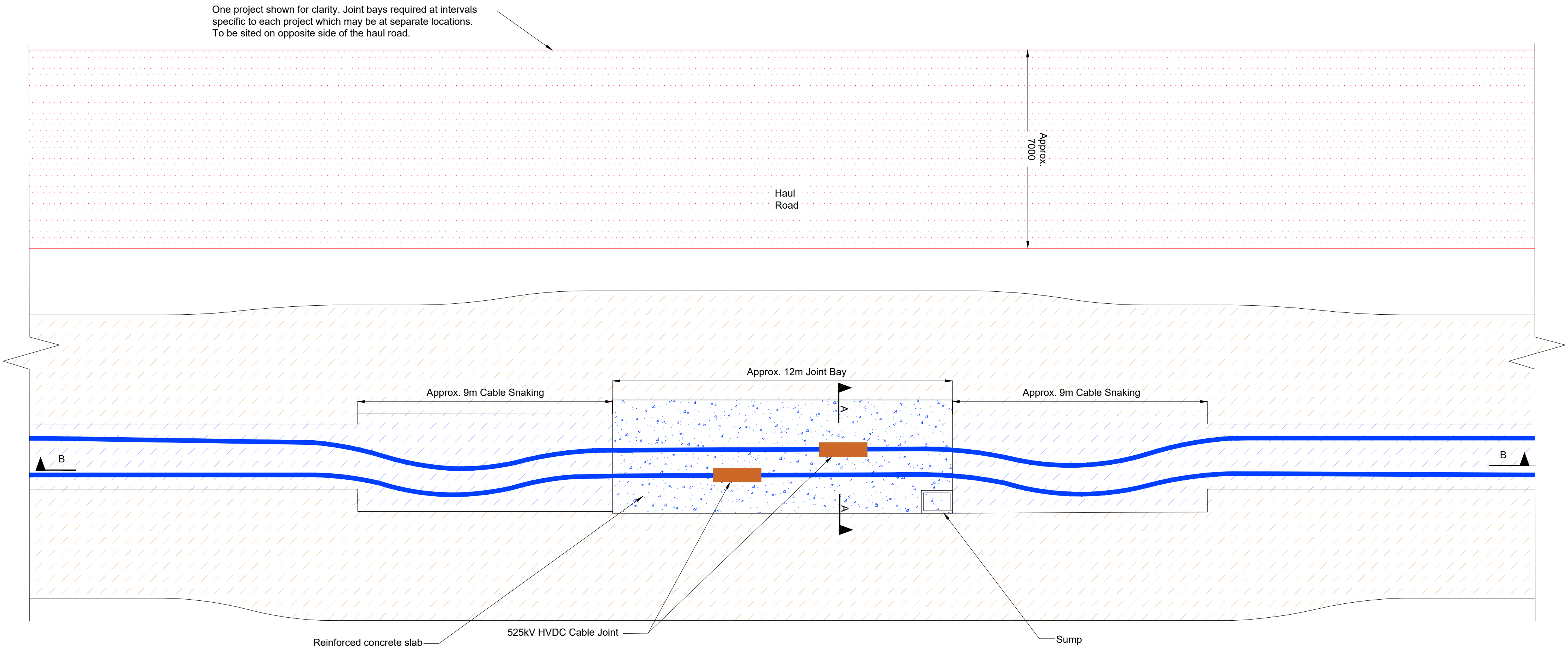
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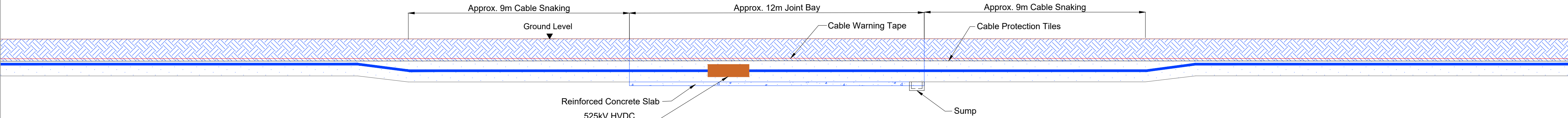
EASTERN GREEN LINK (EGL) 3 & EGL 4 ORDER
HVDC TYPICAL JOINT BAY
SHEET 1 OF 1

Notes

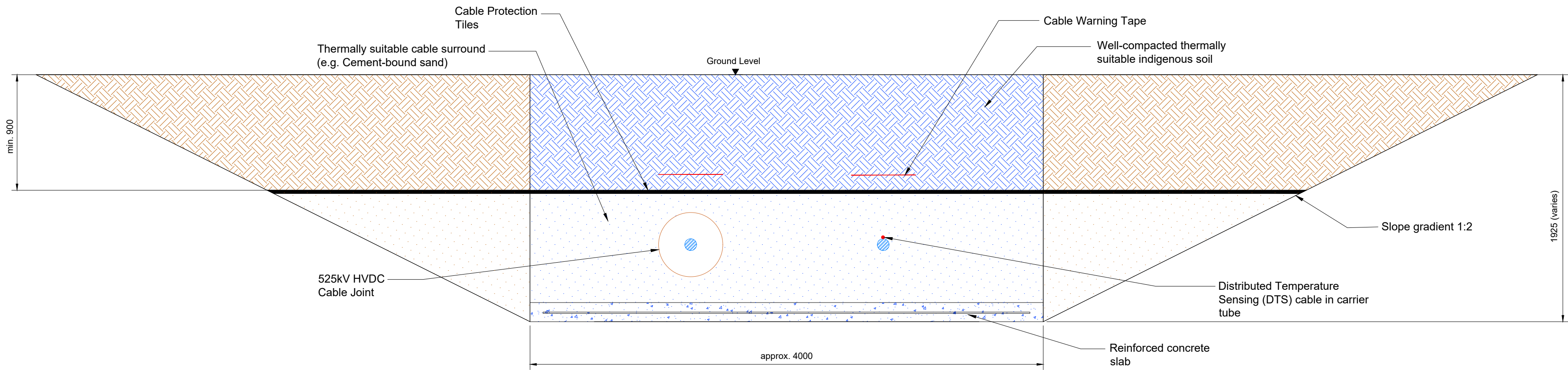
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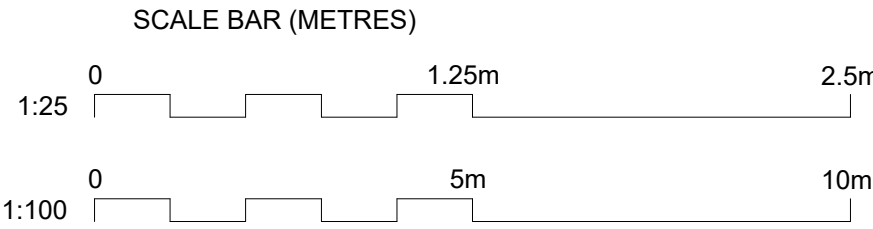
Typical HVDC Cable Joint Bay Layout
Scale 1:100



Section B-B
Typical HVDC Cable Joint Bay Long Section
Scale 1:100



Section A-A
Typical HVDC Cable Joint Bay Cross Section
Scale 1:25



Legend

- Trench
- Splayed excavation
- Concrete
- Temporary Haul Road
- Well-compacted thermally suitable backfill (Trench)
- Thermally suitable cable surround (Trench)
- Well-compacted thermally suitable backfill (Splayed excavation)
- Thermally suitable cable surround (Splayed excavation)
- HVDC Cable
- Cable protection tiles
- Cable Warning Tape

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Issue	Date	Remarks	Drawn	Checked	Approved

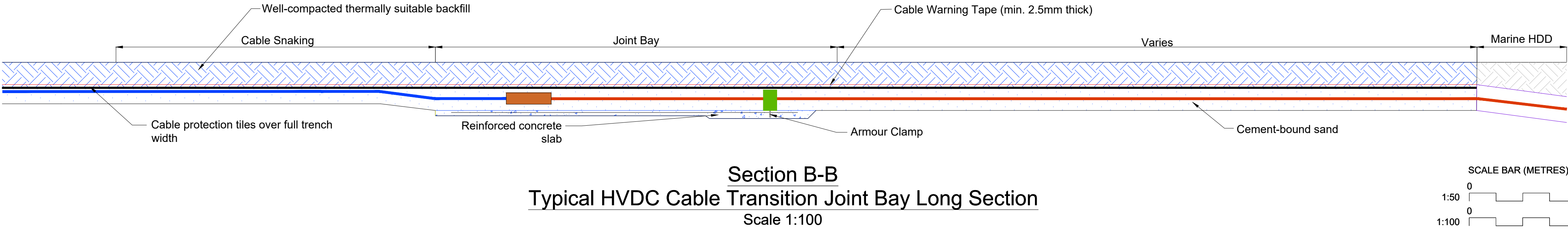
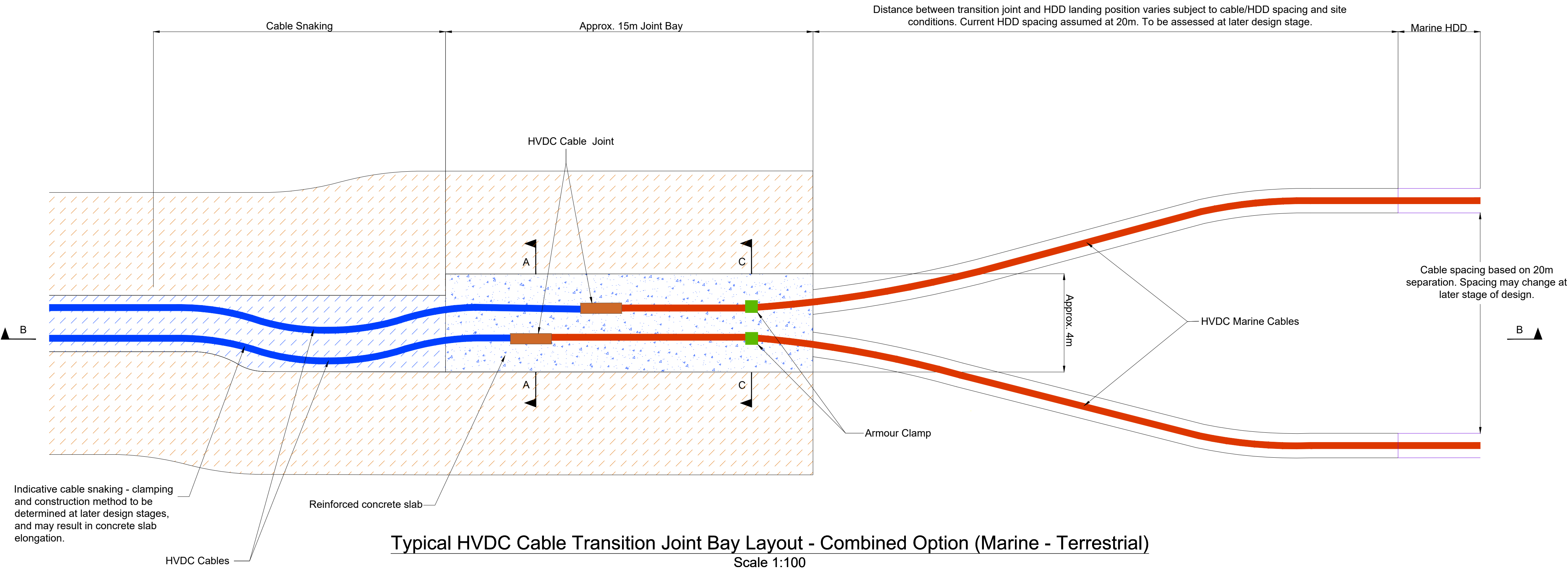
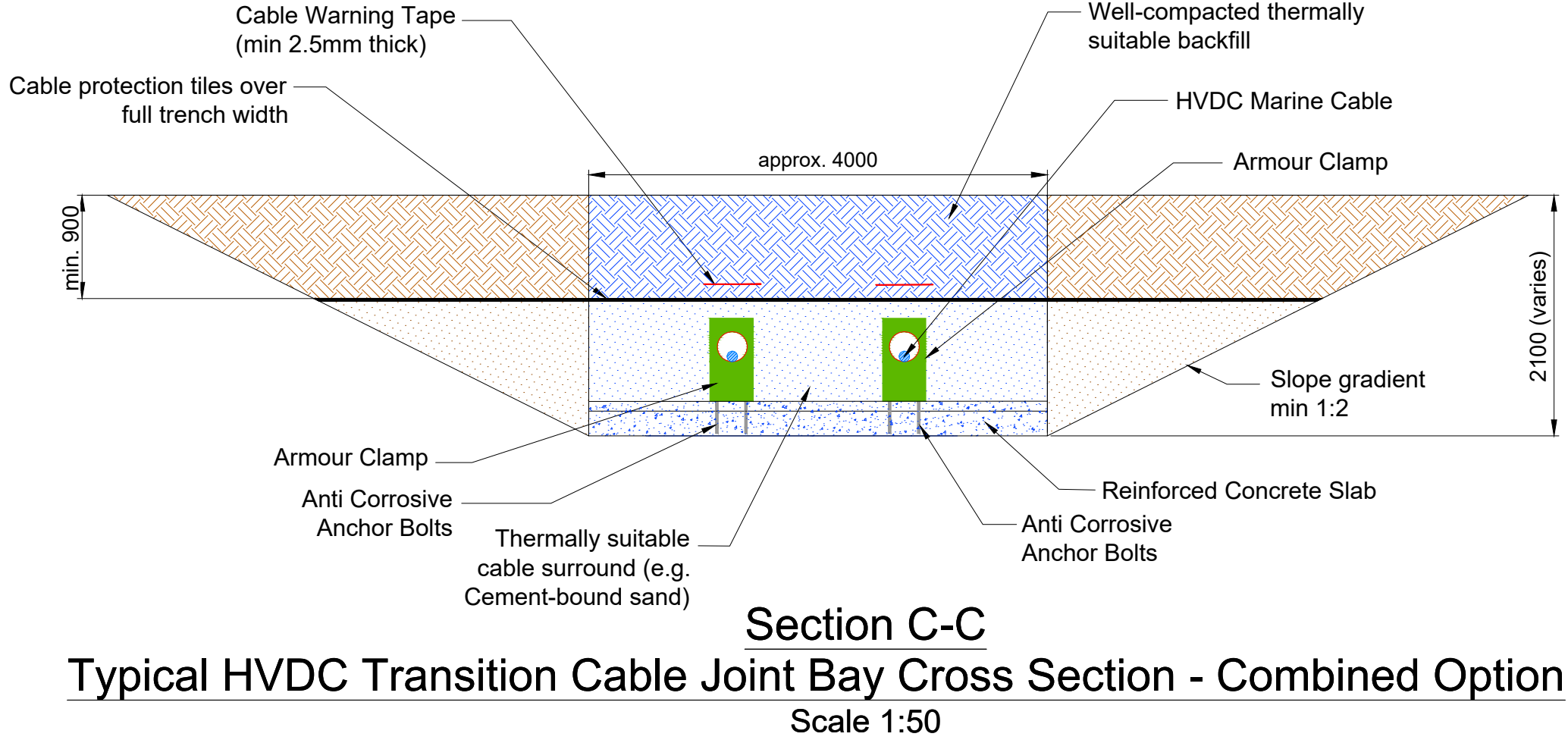
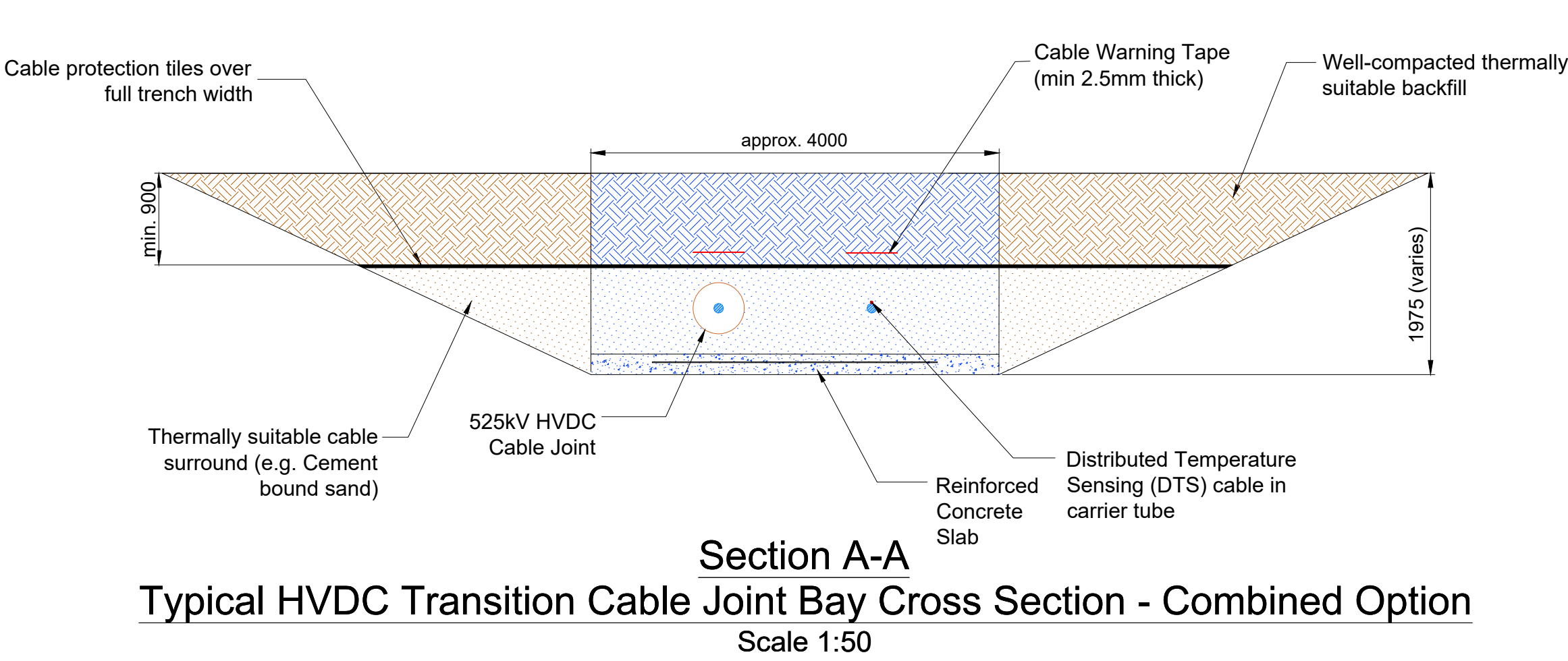
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EASTERN GREEN LINK (EGL) 3 & EGL 4
HVDC TYPICAL JOINT BAY
SHEET 1 OF 1

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Application Number		EN0210003			
National Grid Drawing Reference		S42/TDD/SS/0003			
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EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL HVDC TRANSITION JOINT BAY ARRANGEMENT - COMBINED OPTION
SHEET 1 OF 1

Notes
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Legend

—	Cable protection tiles
—	HVDC cable
—	HVDC marine cable
—	Cable warning tape
—	HVDC cable joint
—	Trench
—	Played excavation
—	Concrete
—	Well-compacted thermally suitable backfill (Trench)
—	Thermally suitable cable surround (Trench)
—	Well-compacted thermally suitable backfill (Played excavation)
—	Thermally suitable cable surround (Played excavation)
—	Existing ground
—	Armour clamp
—	Horizontal Directional Drill (HDD)

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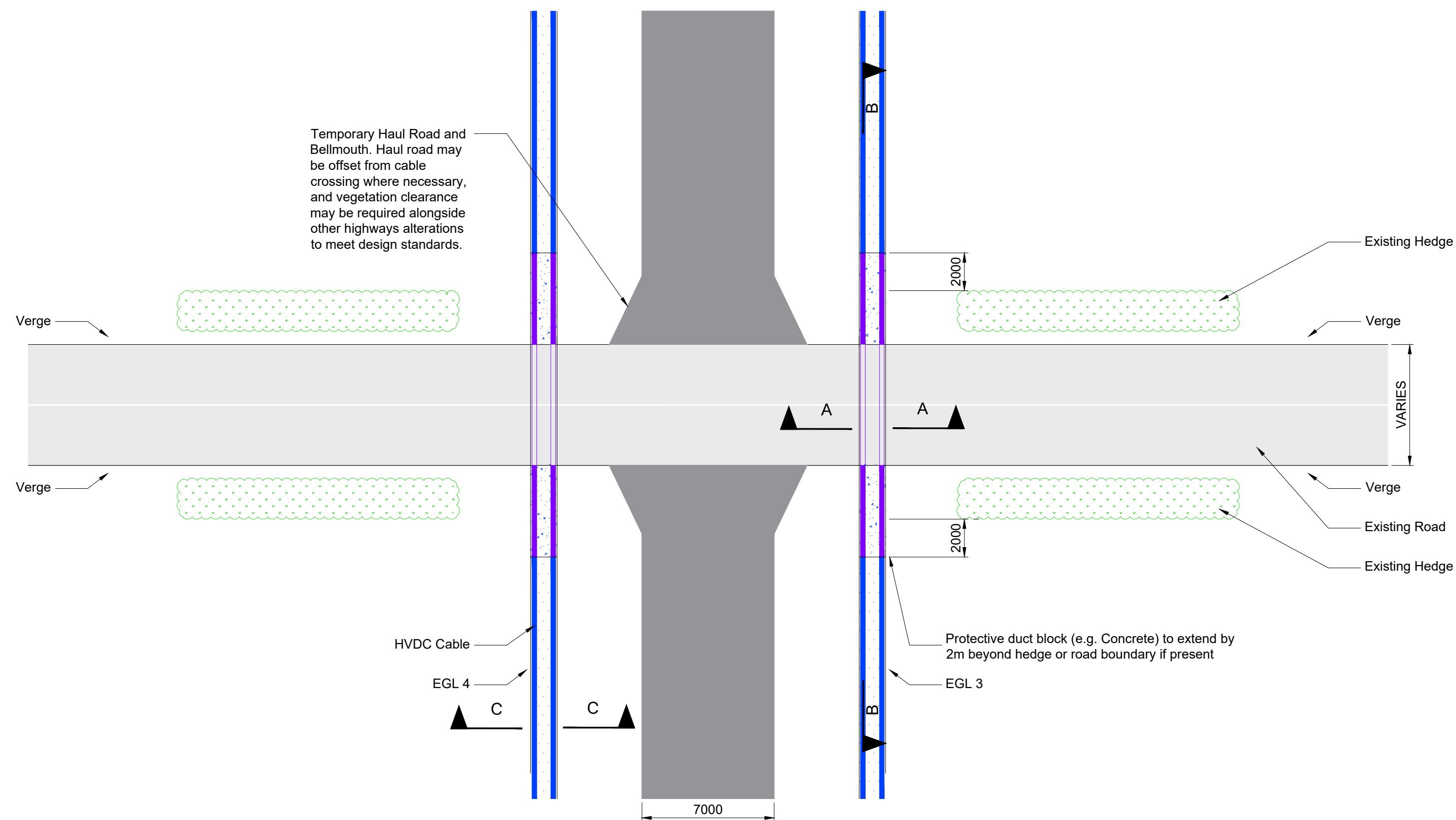
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EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL HVDC TRANSITION JOINT BAY
ARRANGEMENT - COMBINED OPTION
SHEET 1 OF 1

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Application Number	EN0210003		
National Grid Drawing Reference	S42/TDD/SS/0004		
Scale	Sheet Size	Sheet	Issue
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EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL DUCTED ROAD CROSSING - HVDC
SHEET 1 OF 1

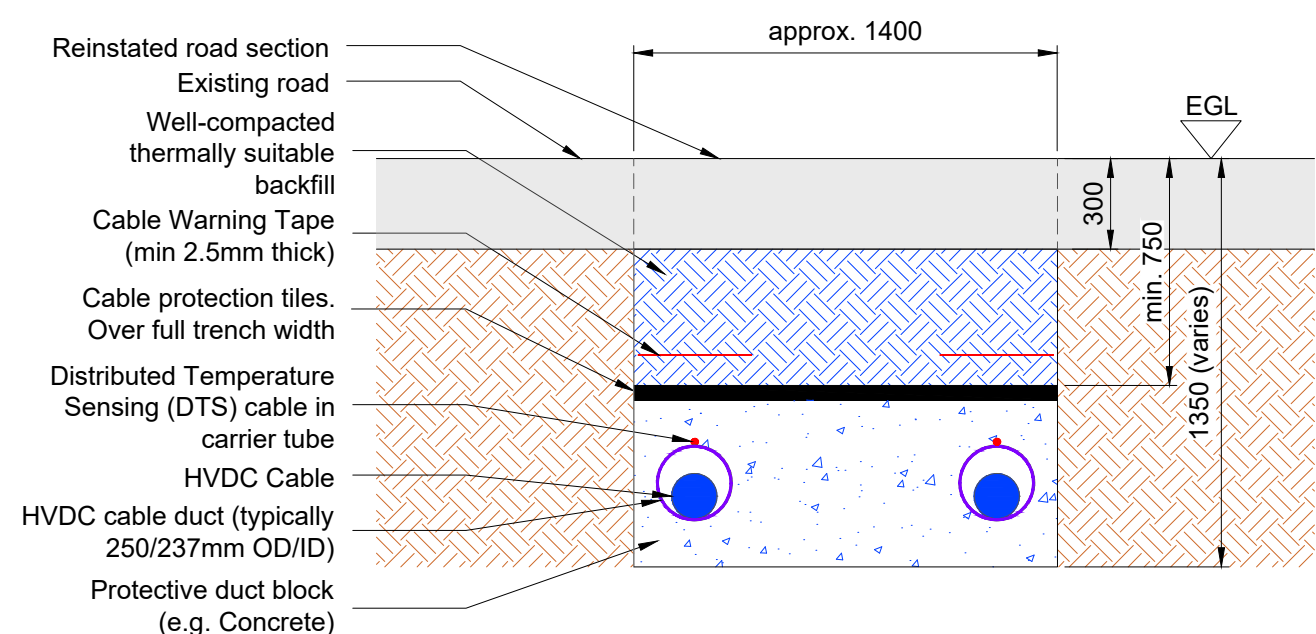
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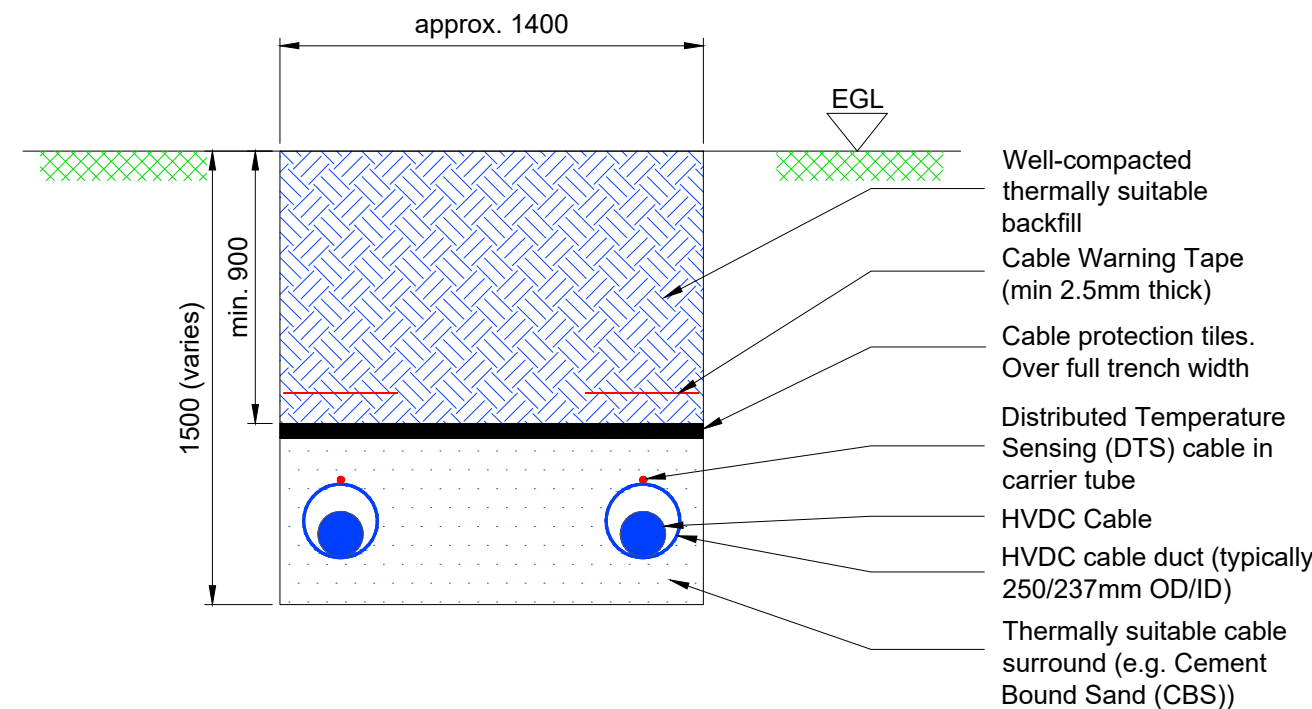
Typical Open Cut Road Crossing Plan View

Scale 1:200



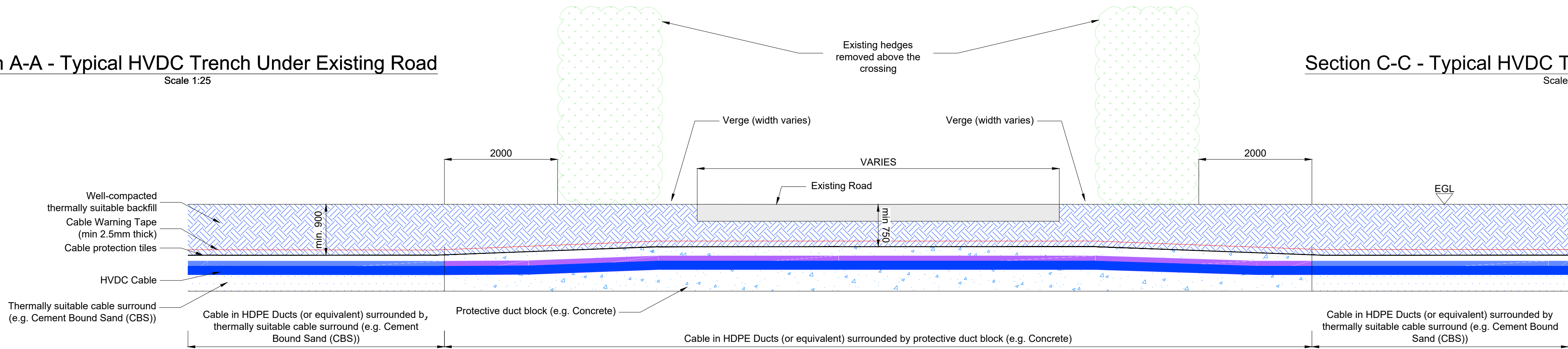
Section A-A - Typical HVDC Trench Under Existing Road

Scale 1:25



Section C-C - Typical HVDC Trench within Agricultural Field

Scale 1:25



Section B-B - Typical Ducted Road Crossing

Scale 1:50

Legend

- Well-compacted thermally suitable backfill
- Thermally suitable cable surround (e.g. Cement Bound Sand (CBS))
- Protective duct block (e.g. Concrete)
- Haul Road
- Existing Road
- High Voltage Direct Current (HVDC) Cable
- HVDC Cable Duct
- HVDC Cable Crossing Duct surrounded by protective duct block
- Cable warning tape
- Existing Hedge
- Existing Ground
- Existing Carriageway Build-up

1ST	MAY 25	1ST ISSUE	OM	RM	LP
Issue	Date	Remarks	Drawn	Checked	Approved

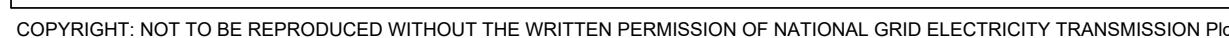
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EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL DUCTED ROAD CROSSING - HVDC
SHEET 1 OF 1

nationalgrid

<u>Application Number</u>	
EN0210003	
<u>National Grid Drawing Reference</u>	
S42/TDD/SS/0006	
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<u>Sheet</u>	<u>Issue</u>
SHEET 1 OF 1	1ST

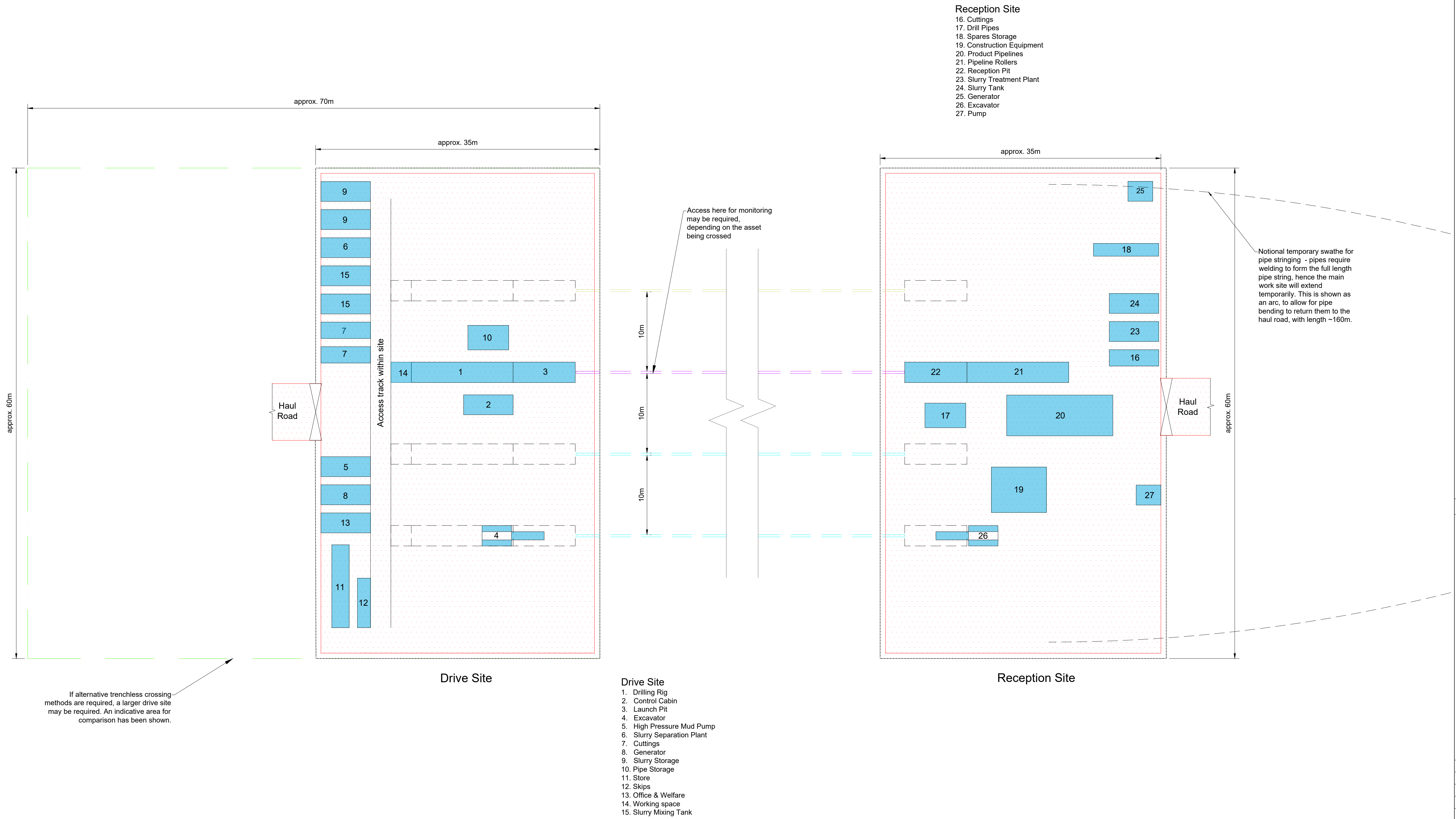
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Issue	Date	Remarks	Drawn	Checked	Approved				
<u>Title</u> EASTERN GREEN LINK (EGL) 3 & EGL 4 TYPICAL DUCTED WATERCOURSE CROSSING - HVDC SHEET 1 OF 1									
									
Application Number E0210003									
National Grid Drawing Reference S42/TDD/SS/0007									
Scale	Sheet Size		Sheet		Issue				
A5 SHOWN	A1		SHEET 1 OF 1		1ST				

EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL TRENCHLESS CROSSING COMPOUND - HVDC
SHEET 1 OF 1

Notes
For statutory consultation purposes only.



Typical Trenchless Crossing Compound
Scale 1:250

Legend

- Hard Standing/ Gravel Surface
- Construction Equipment/ Area
- Fence
- Cable Duct (Being Installed)
- Cable Duct (Installed)
- Cable Duct (To Be Installed)
- Gate
- Alternative Trenchless Crossing Drive Site

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Title

EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL TRENCHLESS CROSSING
COMPOUND - HVDC
SHEET 1 OF 1

nationalgrid

Application Number: EN0210003
National Grid Drawing Reference: S42/TDD/SS/0016

Scale	Sheet Size	Sheet	Issue
1:250	A1	SHEET 1 OF 1	1ST

A green tractor is plowing a brown, tilled field. In the background, there is a line of green trees under a clear blue sky. The tractor is moving from left to right, leaving a furrow in the soil.

The Great Grid Upgrade

Eastern Green Link 3 (EGL 3) and
Eastern Green Link 4 (EGL 4)

03. General Construction and Design Drawings

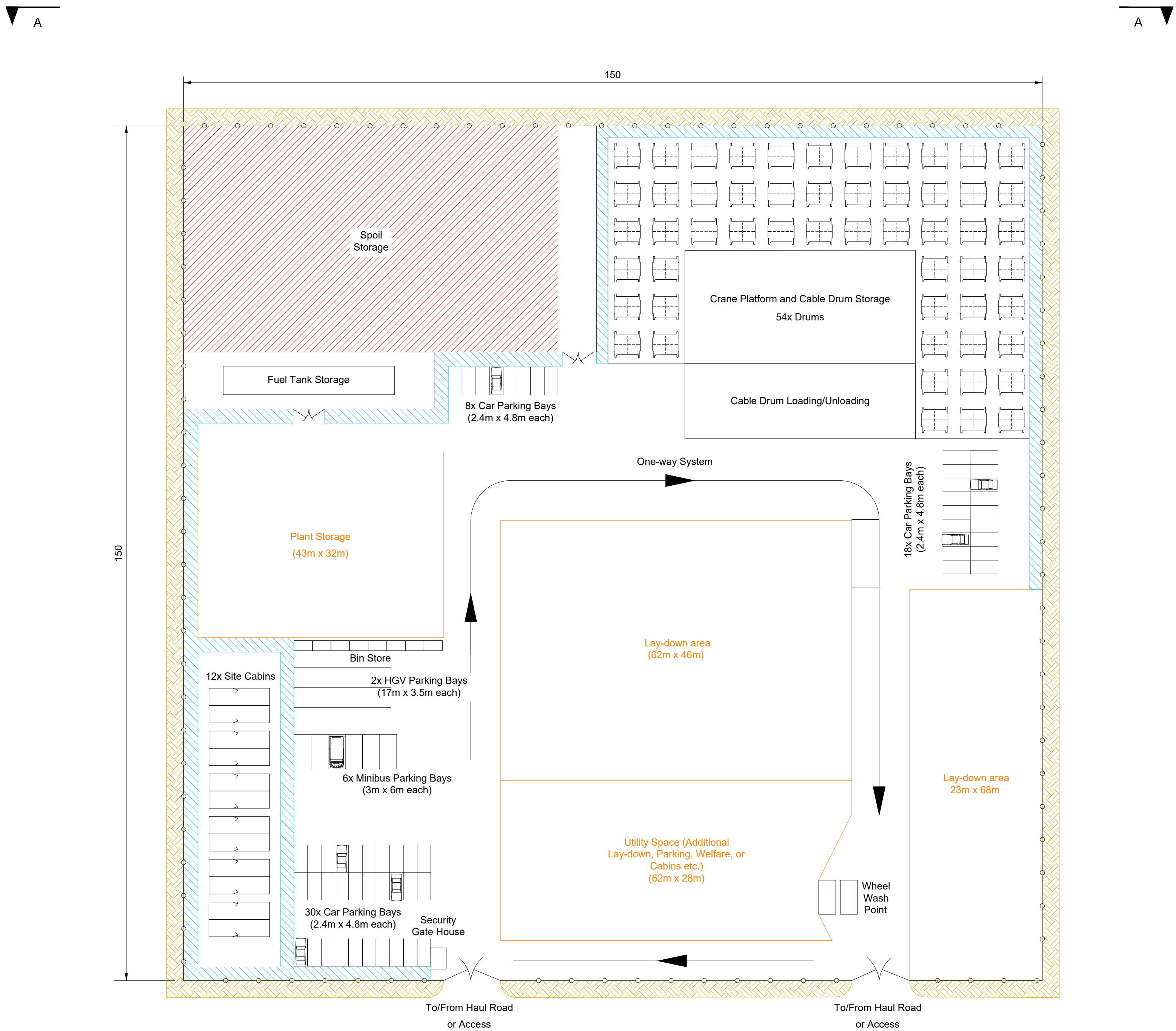
03. General Construction and Design Drawings

Drawing Category	Plan Title	Drawing Reference
English Onshore Scheme Construction and Design Drawings		
General Construction and Design Drawings	Typical Cable Construction Compound	S42/TDD/SS/0014 Rev 01
	Typical Circular Culvert	S42/TDD/SS/0011 Rev 01
	Typical Bridge Crossing	S42/TDD/SS/0012 Rev 01
	Typical Box Culvert	S42/TDD/SS/0010 Rev 01
	Typical Bellmouth and Visibility Splay	S42/TDD/SS/0013 Rev 01

To assist with understanding these drawings please see the [Guide to Consultation Documents and Drawings](#).

EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL CABLE CONSTRUCTION COMPOUND
SHEET 1 OF 1

Notes
For statutory consultation purposes only.



Layout Plan
1:500



Elevation View A-A
1:500

Legend

- Pedestrian Access
- Spoil
- Security Fenceline
- Cable Drum
- Lay-down / Storage Area
- Soil Bund

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MAY 25
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LP

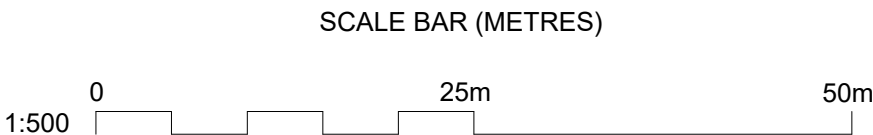
EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL CABLE CONSTRUCTION
COMPOUND
SHEET 1 OF 1

nationalgrid

Application Number
EN0210003

National Grid Drawing Reference
S42/TDD/SS/0014

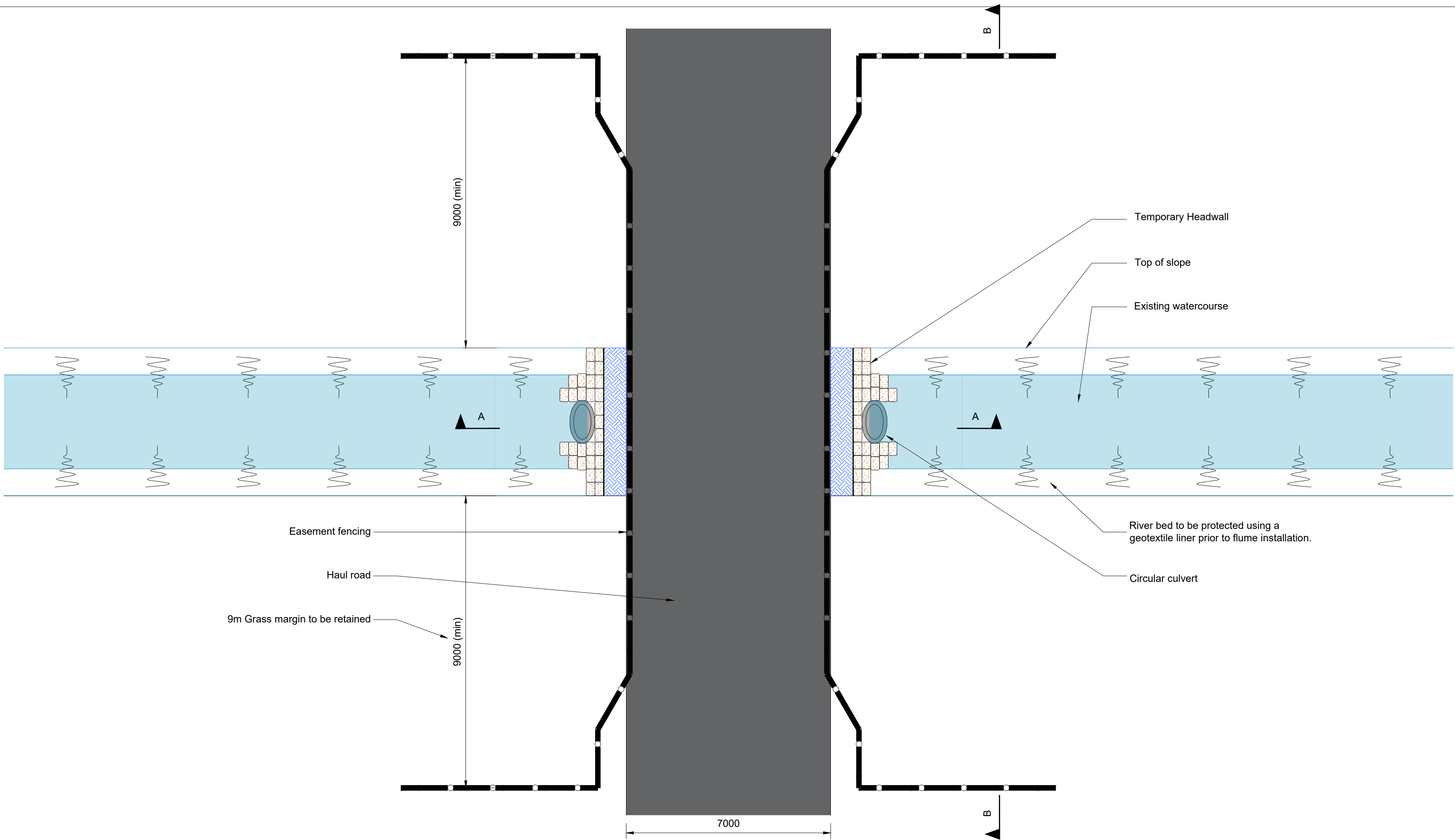
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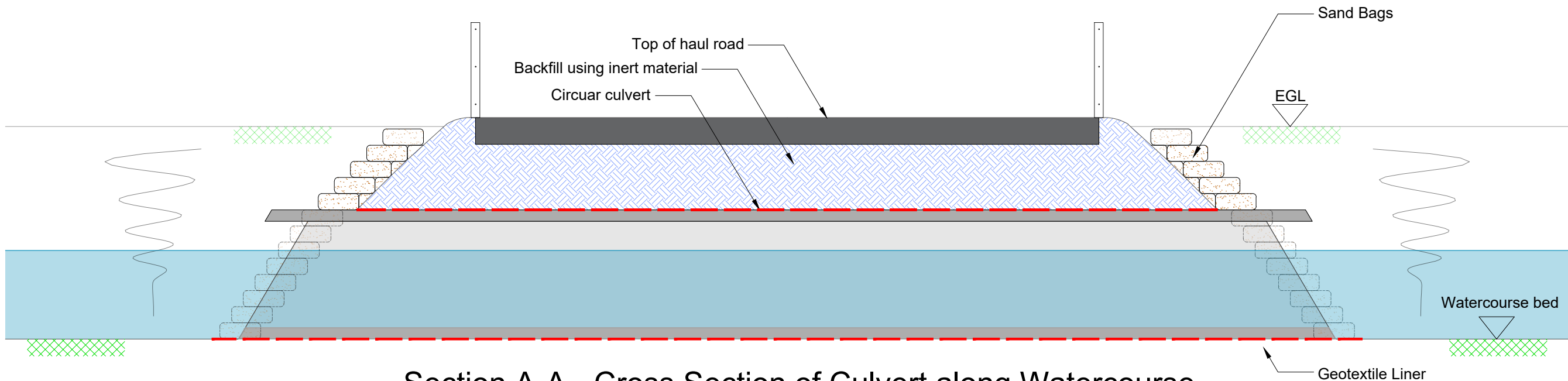
EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL CIRCULAR CULVERT
SHEET 1 OF 1

Notes

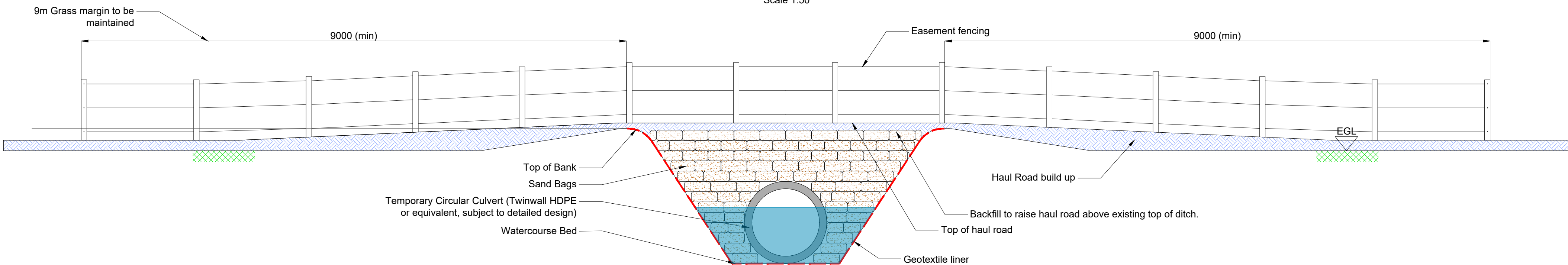
For statutory consultation purposes only.



Typical Circular Culvert Plan View
Scale 1:100



Section A-A - Cross Section of Culvert along Watercourse
Scale 1:50



Section B-B - Front View of Headwall
Scale 1:50

Legend

- Well-compacted fill
- Circular culvert
- Haul road
- Sand bag
- Existing ground
- Existing watercourse
- Easement fencing
- Geotextile liner

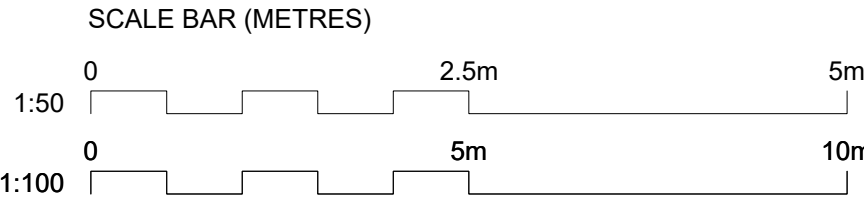
1ST	MAY 25	1ST ISSUE	OM	RM	LP
Issue	Date	Remarks	Drawn	Checked	Approved

Title

EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL CIRCULAR CULVERT
SHEET 1 OF 1

nationalgrid

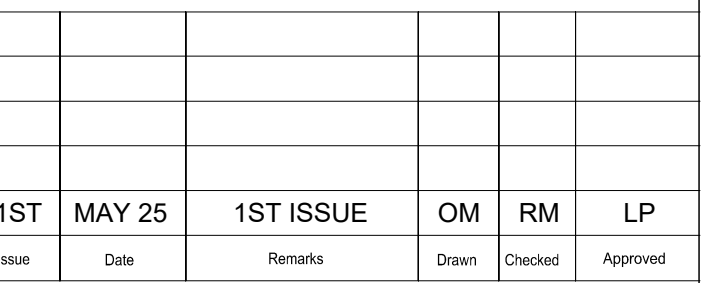
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National Grid Drawing Reference		S42/TDD/SS/0011			
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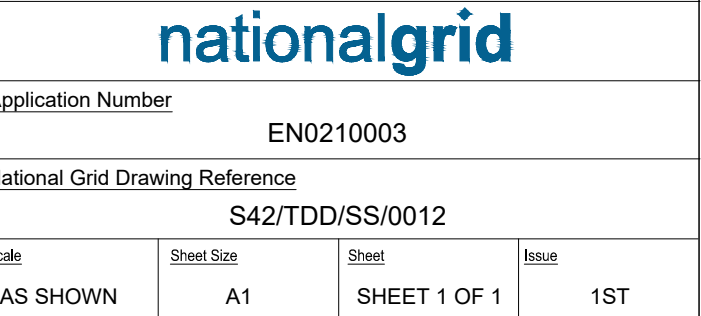
Notes
for statutory consultation purposes only.

Legend

	Well-compacted fill
	Existing Ground
	Existing Watercourse
	Easement fencing



EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL BRIDGE CROSSING
SHEET 1 OF 1



SCALE BAR (METRES)

1:50 0 2.5m 5m

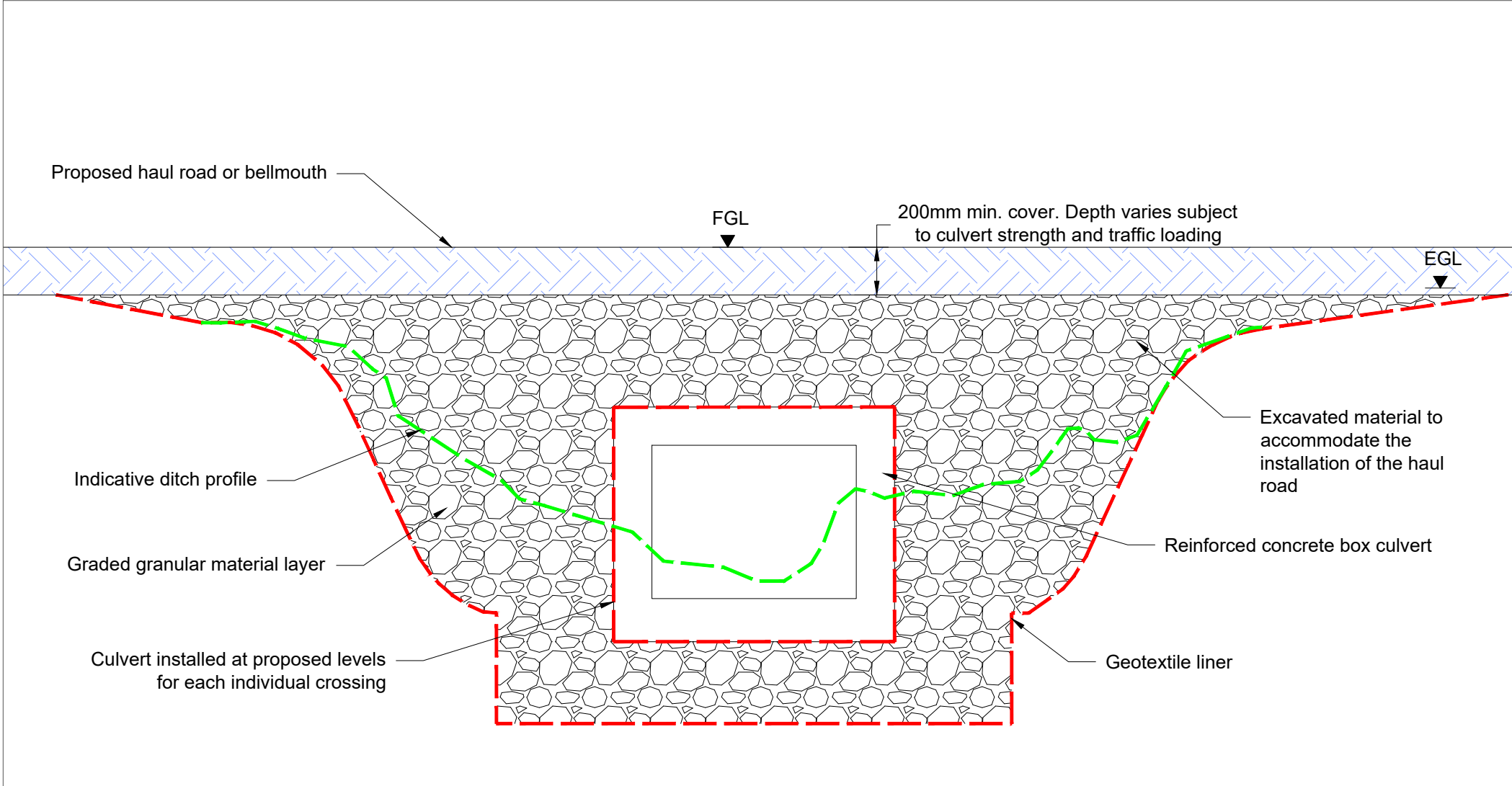
1:100 0 5m 10m

1:200 0 10m 20m

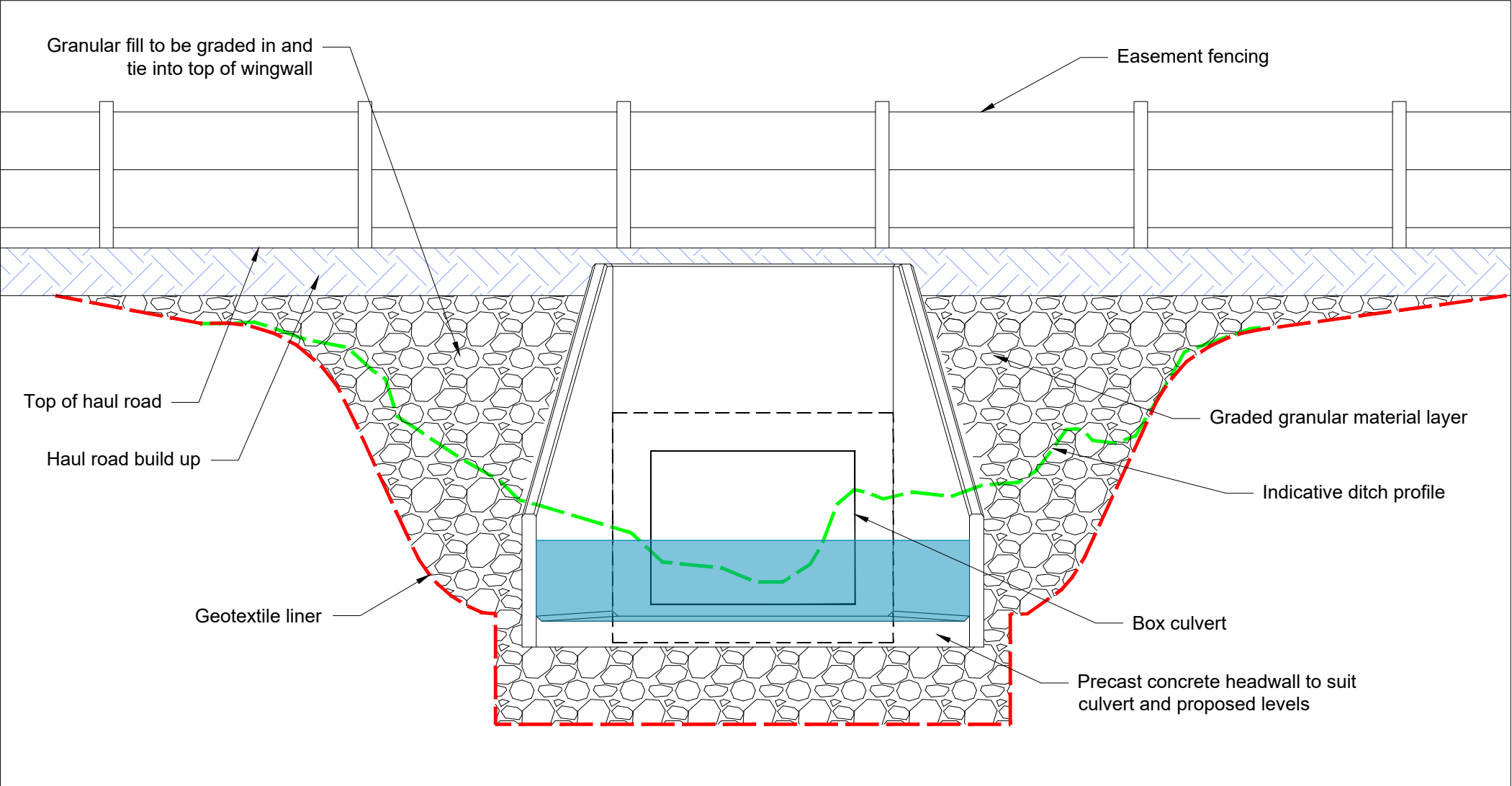
EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL BOX CULVERT
SHEET 1 OF 1

Notes

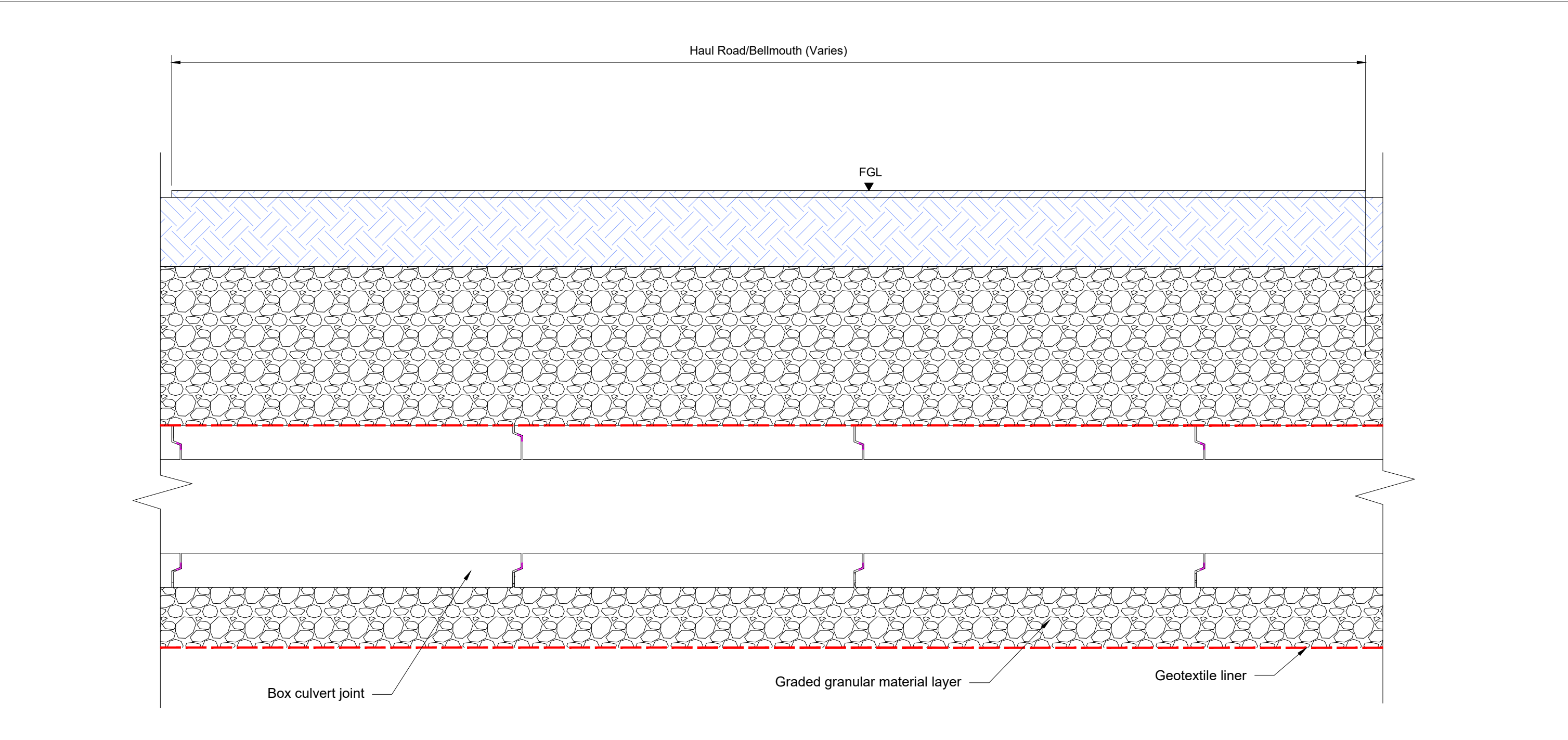
For statutory consultation purposes only.



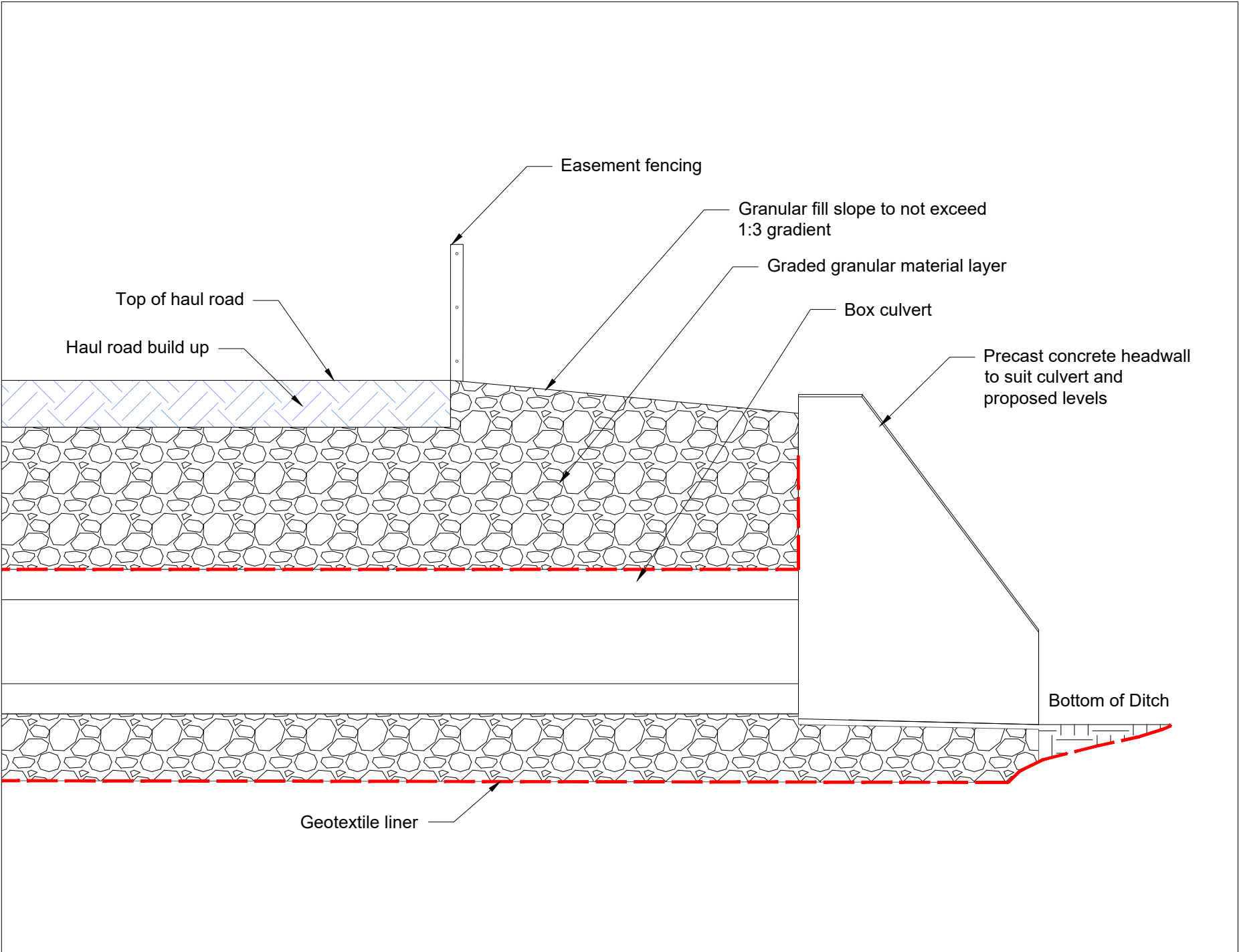
Typical Box Culvert Cross Section
NTS



Front View of Culvert Crossing
NTS



Typical Box Culvert Long Section
NTS



Typical Box Culvert Headwall Long Section
NTS

Legend

- Well-compacted fill
- Graded granular material
- Existing Watercourse
- Indicative ditch profile
- Geotextile Liner

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Issue	Date	Remarks	Drawn	Checked	Approved

Title

EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL BOX CULVERT
SHEET 1 OF 1

nationalgrid

<u>Application Number</u>		EN0210003	
<u>National Grid Drawing Reference</u>			
S42/TDD/SS/0010			
<u>Scale</u>	<u>Sheet Size</u>	<u>Sheet</u>	<u>Issue</u>
NTS	A1	SHEET 1 OF 1	1ST

EASTERN GREEN LINK (EGL) 3 & EGL 4
TYPICAL BELLMOUTH
SHEET 1 OF 1

Notes

For statutory consultation purposes only.

Legend

Cable trench

Subsoil stockpile

Topsoil stockpile

Existing highway

Asphalt or similar blacktop surfacing,
subject to discussion with Local Highway
Authority

Haul road

Boundary fence

Attenuation basin

Outfall pipe

Junction line of sight

1ST	MAY 25	1ST ISSUE	OM	RM	LP
Issue	Date	Remarks	Drawn	Checked	Approved
Title					
EASTERN GREEN LINK (EGL) 3 & EGL 4 TYPICAL BELLMOUTH SHEET 1 OF 1					
nationalgrid					
Application Number			EN0210003		
National Grid Drawing Reference			S42/TDD/SS/0013		
Scale	Sheet Size	Sheet	Issue		
1:250	A1	SHEET 1 OF 1	1ST		

