

Eastern Green Link 5 (EGL5)

English Offshore Scheme Construction and Design Drawings

May 2026

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

nationalgrid

Contents

English Offshore Scheme Construction and Design Drawings





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Pre-Cable Installation Works

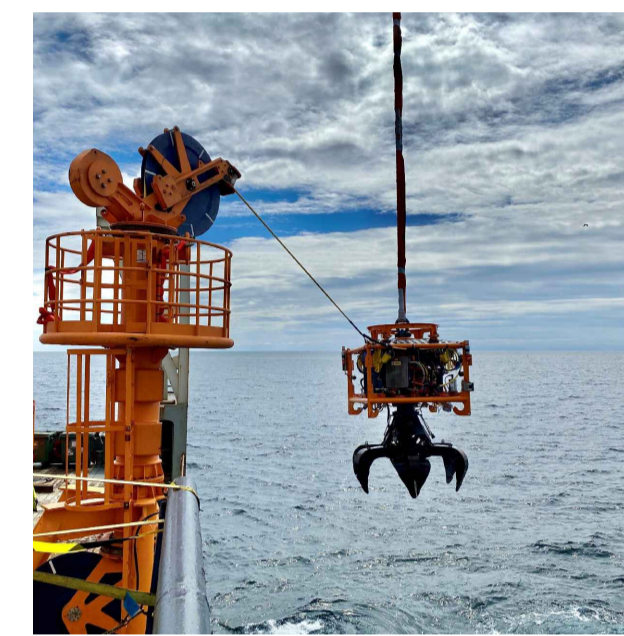
Drawing category	Drawing Reference
Illustration of Boulder Clearance	EGL5-NGET-MAR-XX-DR-YM-001
Illustration of Pre Lay Grapnel Run (PLGR)	EGL5-NGET-MAR-XX-DR-YM-002
Illustration of Pre-Sweeping and Mass Flow Excavation (MFE)	EGL5-NGET-MAR-XX-DR-YM-003
Illustration of Unexploded Ordance Identification, Removal and Detonation	EGL5-NGET-MAR-XX-DR-YM-004

EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF BOULDER CLEARANCE
 SHEET 01 OF 01

Legend:

-  Proposed HVDC Bundled Cable System
-  Water
-  Seabed Sediment
-  Boulder

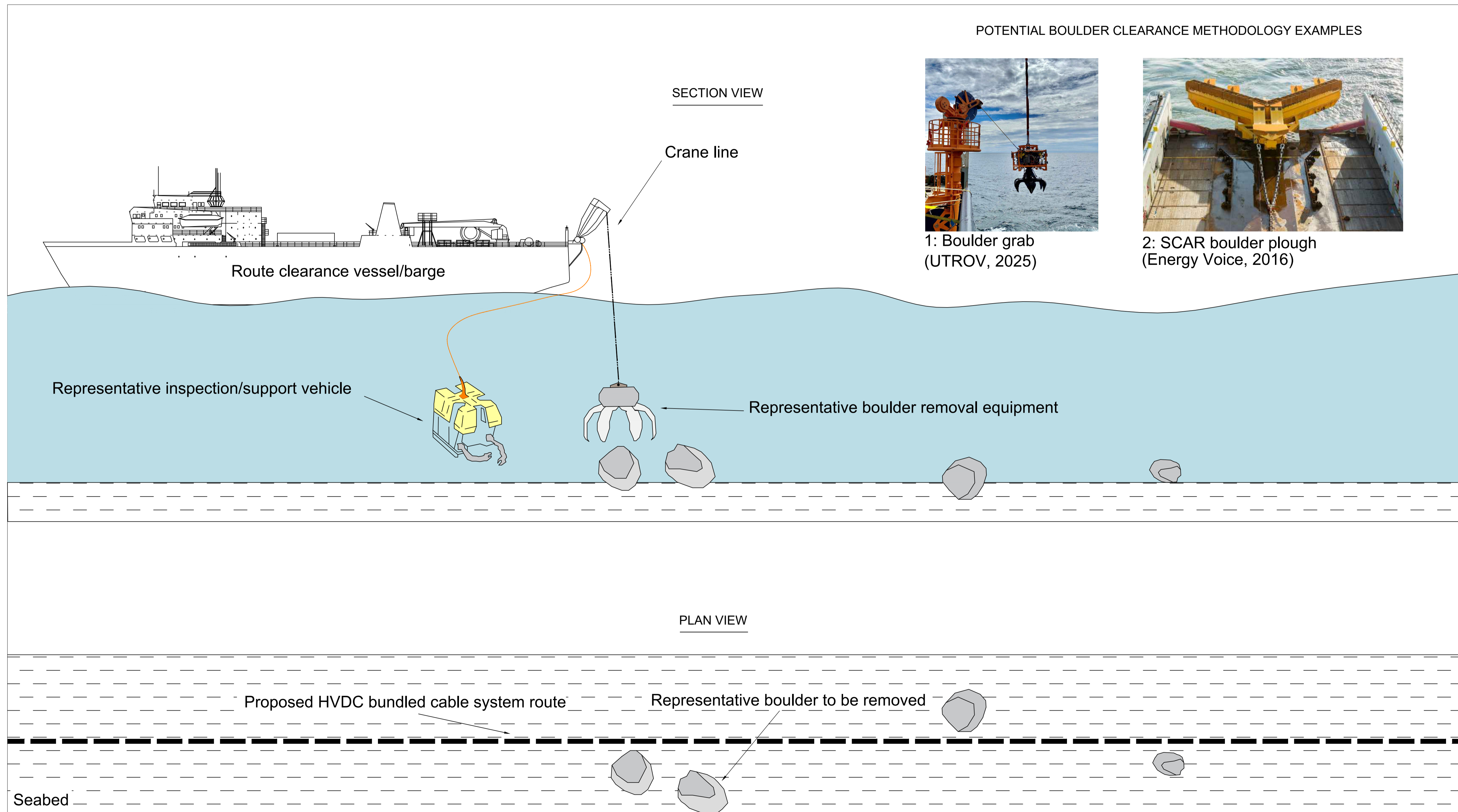
POTENTIAL BOULDER CLEARANCE METHODOLOGY EXAMPLES



1: Boulder grab
(UTROV, 2025)



2: SCAR boulder plough
(Energy Voice, 2016)



Notes:

1. Do not scale from this drawing - for visual representation purposes only.
2. No unauthorised disclosure, storage or copying.
3. NTS = Not To Scale.
4. HVDC = High Voltage Direct Current.
5. SCAR = boulder clearance tool, originally designed as a trenching tool, which was re-designed to remove boulders from the seabed by ploughing.
6. Boulder clearance is undertaken as part of the route preparation activities before cable installation.

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Issue	Date	Remarks	Drawn	Check	Approved
B	08/05/2026	Second Issue	CM	AP	AP
A	12/12/2025	First Issue	AG	AP	AP

Title

EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF
 BOULDER CLEARANCE
 FOR STATUTORY CONSULTATION
 SHEET 01 of 01

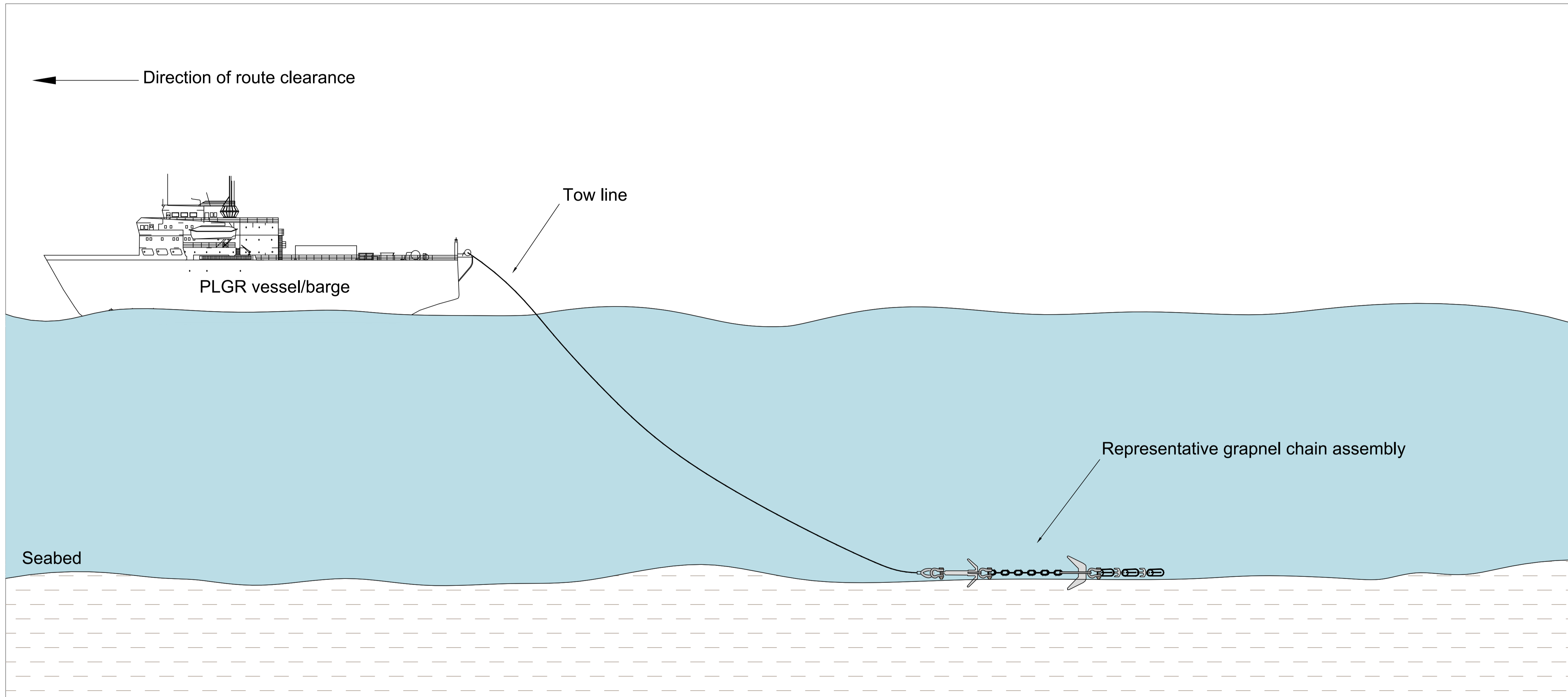
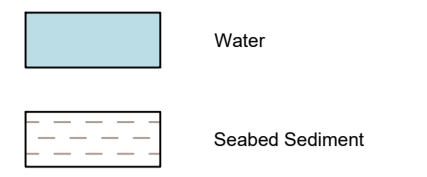


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EGL5-NGET-MAR-XX-DR-YM-001			
Scale	Sheet Size	Sheet	Issue
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 IMAGE REFERENCE 1: Utility ROV Services. Tine Grab, 2025. (Online) Available at: [HTTPS://WWW.UTROV.COM/TOOL/TINE-GRAB/](https://www.utrov.com/tool/tine-grab/) (Accessed 02/07/2025); 2: Energy Voice. Ecosse Subsea Systems doubles workload on Baltic wind farm project. 2016. Available from: <https://wpcluster.dctdigital.com/energyvoice/wp-content/uploads/sites/4/2016/08/Ecosse-Subsea-Systems-SCAR-Plough-1.jpg> (Accessed 10/12/2025).

EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF PRE-LAY GRAPNEL RUN (PLGR)
 SHEET 01 of 01

Legend:



Notes:

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3. NTS = Not To Scale.
4. PLGR = Pre-Lay Grapnel Run.
5. The PLGR is an operation that hooks debris from the seabed using grapnels to clear the seabed prior to installation.

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A	12/12/2025	First Issue	AG	AP	AP

Title



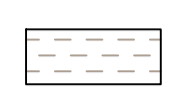
EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF
 PRE-LAY GRAPNEL RUN
 FOR STATUTORY CONSULTATION
 SHEET 01 of 01

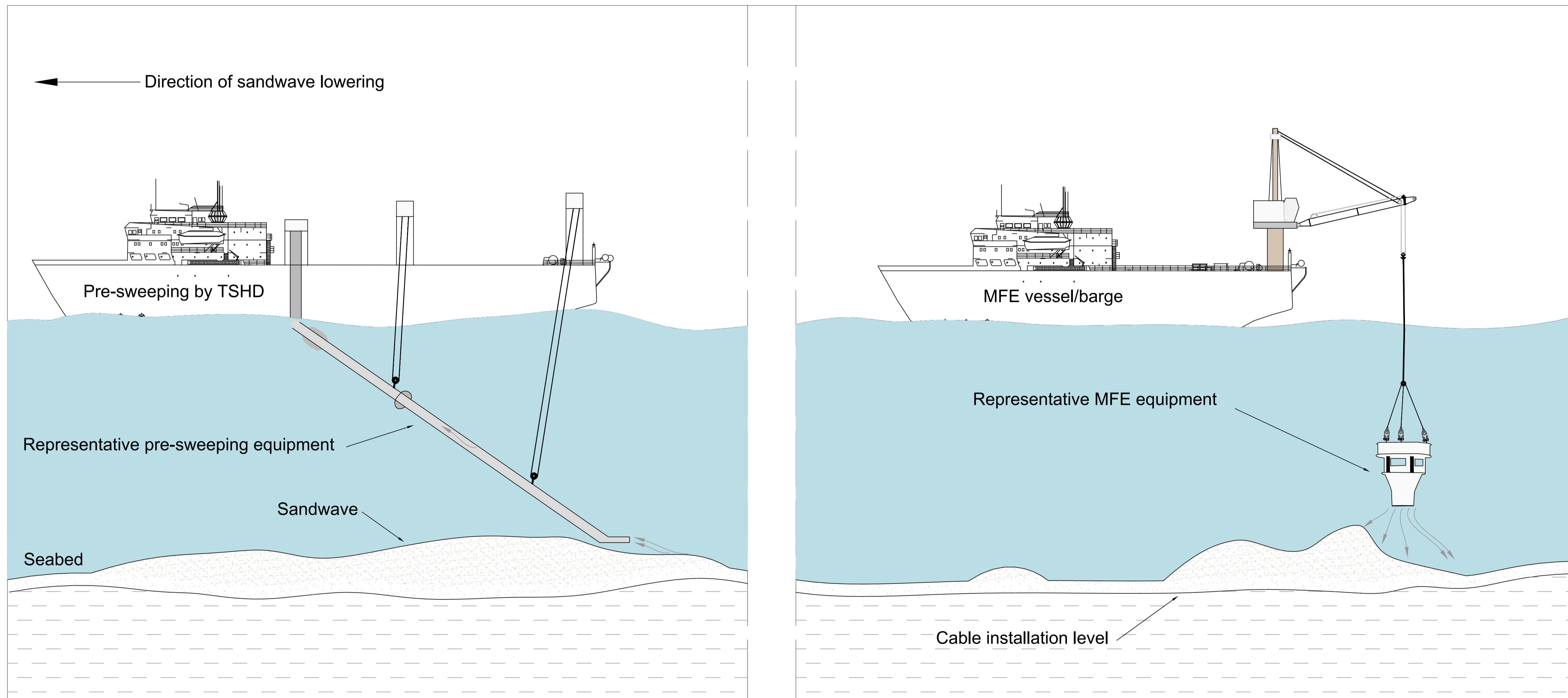


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NTS	A1	SHEET 01 OF 01	B

EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF PRE-SWEEPING AND MASS FLOW EXCAVATION (MFE)
 SHEET 01 of 01

Legend:

-  Water
-  Sandwave
-  Sub-seabed Sediment



Notes:

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3. NTS = Not To Scale.
4. MFE = Mass Flow Excavator.
5. TSHD = Trailing Suction Hopper Dredger.
6. Pre-sweeping = Leveling of the seabed by dredging to remove the peaks of seabed features in order to create a more uniform surface for installation.

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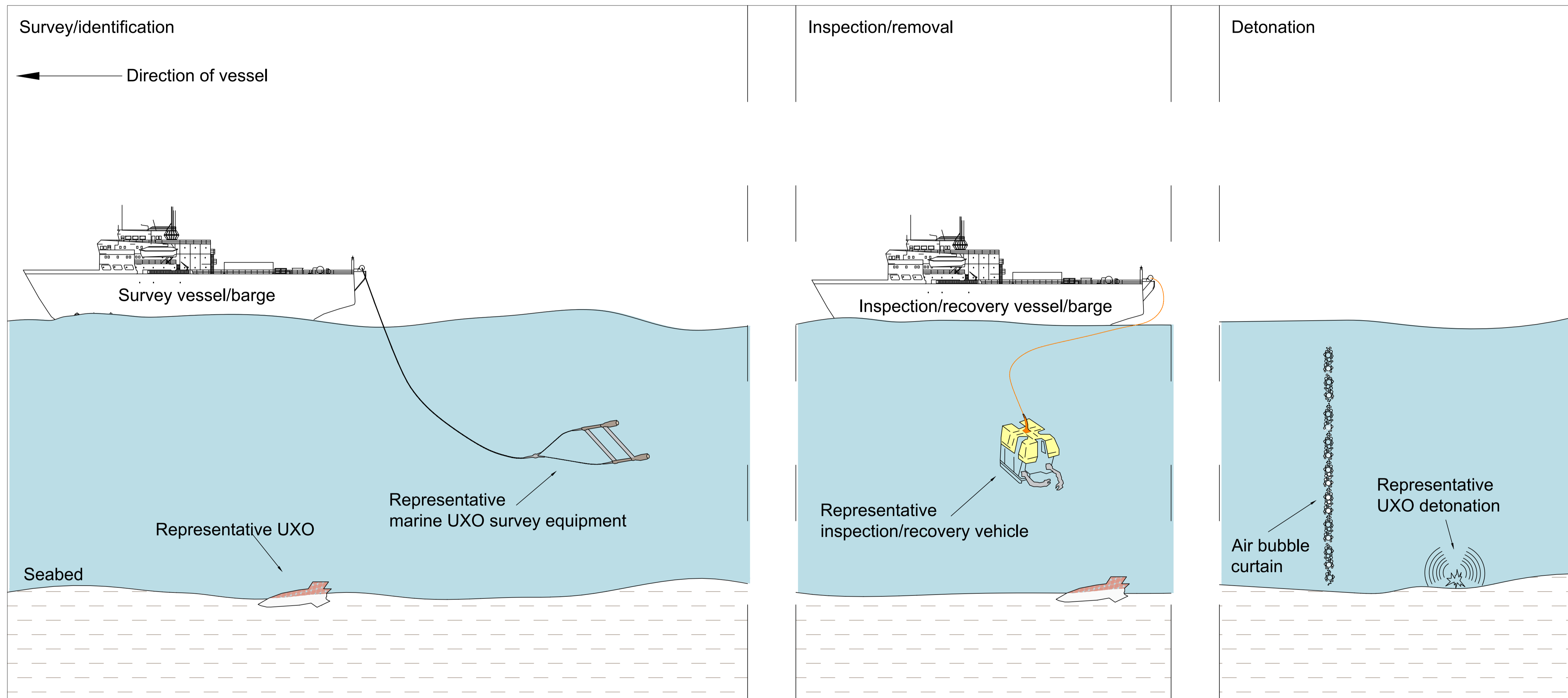
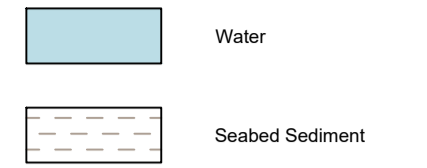
EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF
 PRE-SWEEPING AND MASS
 FLOW EXCAVATION (MFE)
 FOR STATUTORY CONSULTATION
 SHEET 01 of 01



Drawing Reference			
EGL5-NGET-MAR-XX-DR-YM-003			
Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 01 OF 01	B

EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF UNEXPLODED ORDNANCE IDENTIFICATION, REMOVAL AND DETONATION
 SHEET 01 of 01

Legend:



Notes:

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3. NTS = Not To Scale.
3. UXO = Unexploded Ordnance.
4. Air Bubble Curtain = System to mitigate underwater sound.

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EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF
 UNEXPLODED ORDNANCE IDENTIFICATION,
 REMOVAL AND DETONATION
 FOR STATUTORY CONSULTATION
 SHEET 01 of 01








Drawing Reference			
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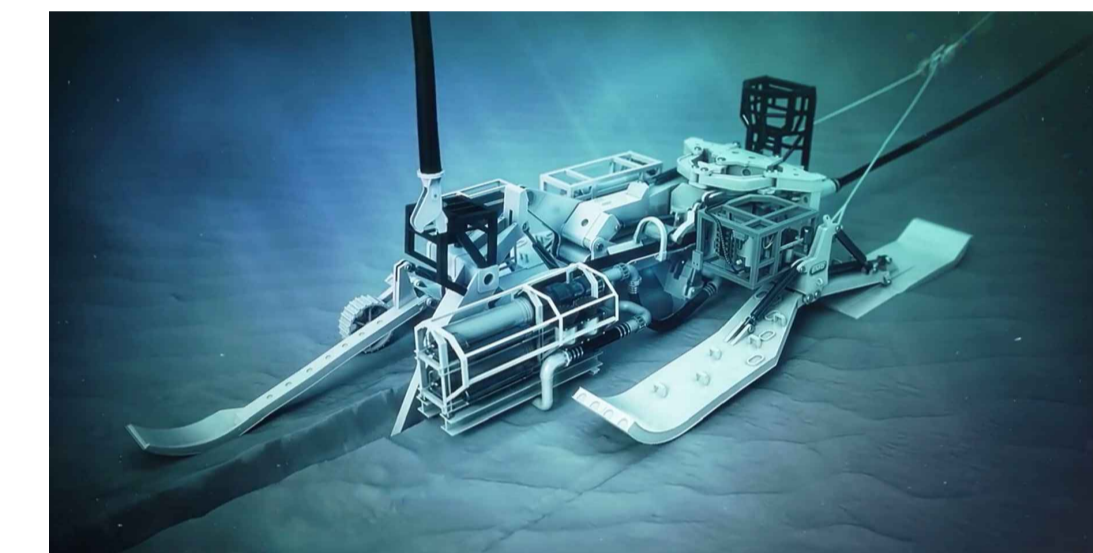
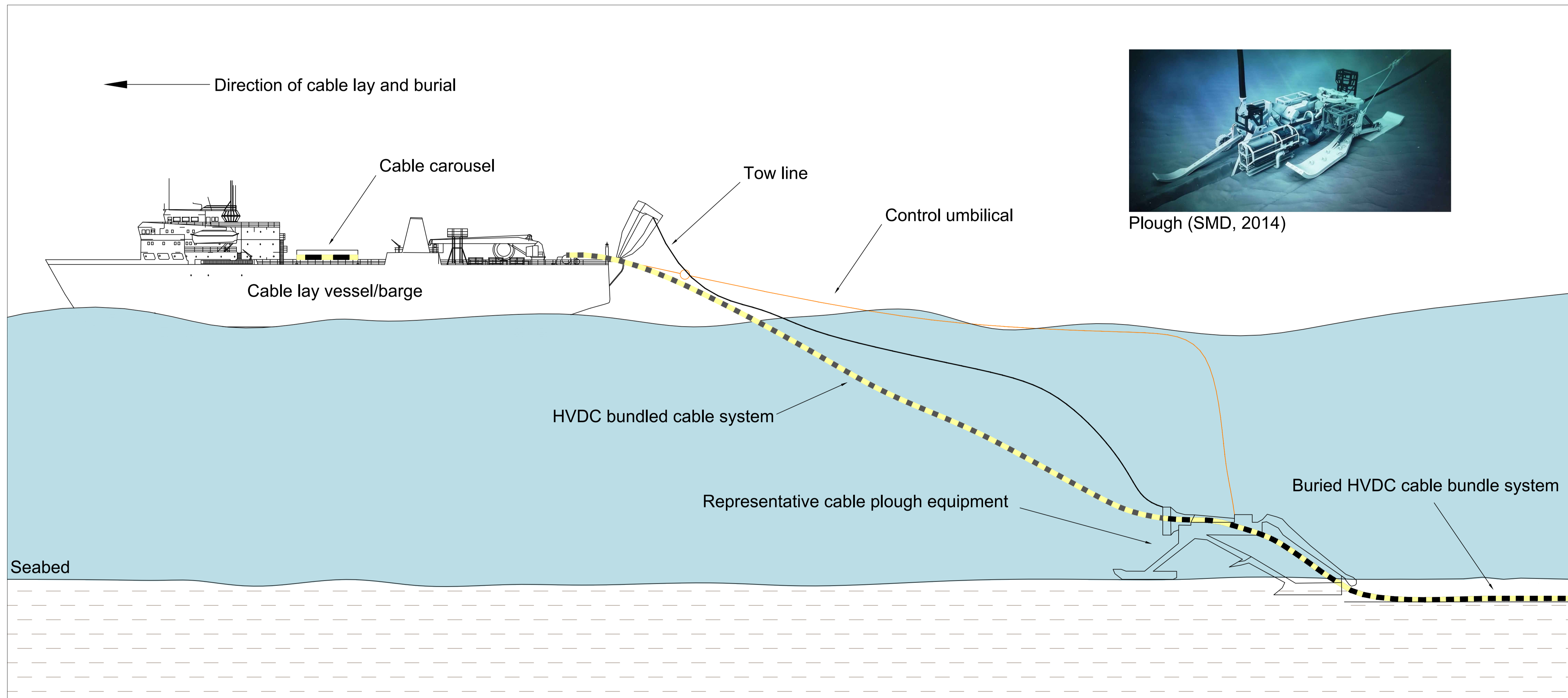
Cable Installation Works

Drawing category	Drawing Reference
Illustration of Simultaneous Cable Lay and Burial	EGL5-NGET-MAR-XX-DR-YM-005
Illustration of Cable Lay and Post-Lay Burial	EGL5-NGET-MAR-XX-DR-YM-006
Illustration of Omega and Inline Joints	EGL5-NGET-MAR-XX-DR-YM-007

EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF SIMULTANEOUS CABLE LAY AND BURIAL
 SHEET 01 of 01

Legend:

-  Control Umbilical of Burial Equipment
-  Tow Line of Burial Equipment
-  HVDC Bundled Cable System
-  Water
-  Seabed Sediment



Plough (SMD, 2014)

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4. HVDC = High Voltage Direct Current.

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EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF
 SIMULTANEOUS CABLE LAY AND BURIAL
 FOR STATUTORY CONSULTATION
 SHEET 01 of 01

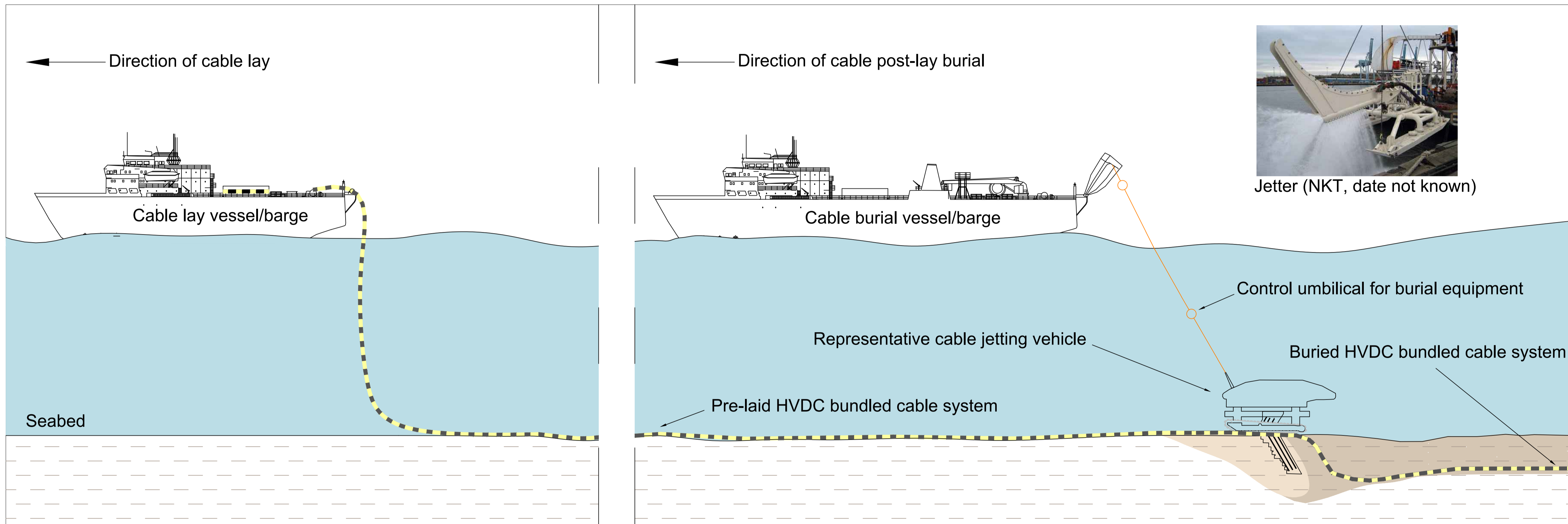


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EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF CABLE LAY AND CABLE POST-LAY BURIAL
 SHEET 01 of 01

Legend:

-  Control Umbilical of Burial Equipment
-  HVDC Bundled Cable System
-  Water
-  Seabed Sediment
-  Fluidisation Area
-  Sedimentation Area



Jetter (NKT, date not known)

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3. NTS = Not To Scale.
4. HVDC = High Voltage Direct Current.
5. Fluidisation area = Zone of loosened sediment due to high pressure water.
6. Sedimentation area = Zone of disturbed sediments that settle on the seabed after fluidisation.

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B	08/05/2026	Second Issue	CM	AP	AP
A	12/12/2025	First Issue	AG	AP	AP

Title

EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF
 CABLE LAY AND POST-CABLE LAY BURIAL
 FOR STATUTORY CONSULTATION




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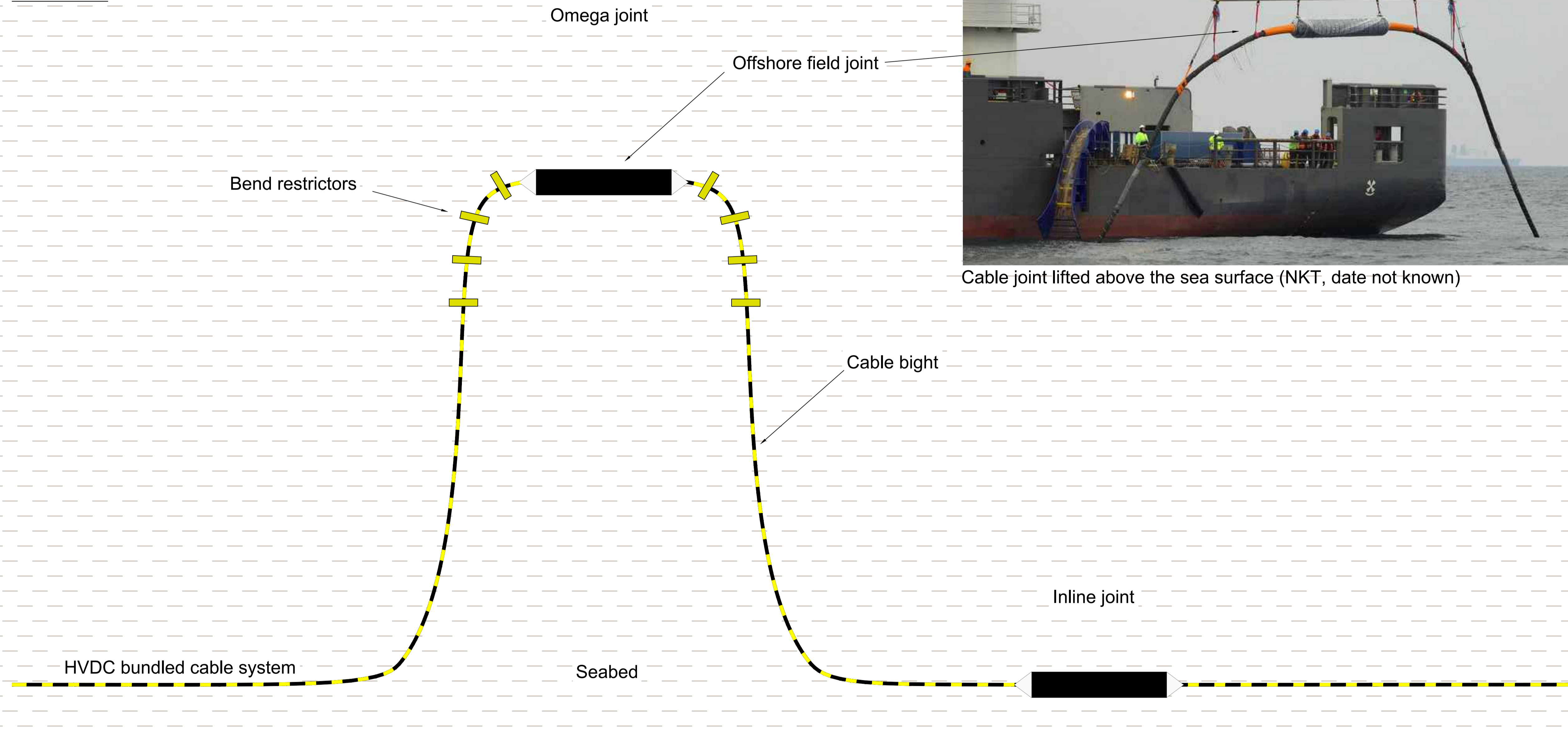
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NTS	A1	SHEET 01 OF 01	B

EASTERN GREEN LINK (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF OMEGA AND INLINE JOINTS
 FOR STATUTORY CONSULTATION
 SHEET 01 of 01

Legend:

-  HVDC Bundled Cable System
-  Inline/Omega Joint
-  Seabed Sediment

PLAN VIEW



Cable joint lifted above the sea surface (NKT, date not known)

Notes:

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3. NTS = Not To Scale.
4. HVDC = High Voltage Direct Current.
5. Cable bight = A loop of cable that does not cross itself.
6. Inline joint = A joint made on-board a cable laying vessel or barge, or in the beach areas, between cable lengths which have been armoured. They are generally used to connect two sections of cable offshore, creating a continuous linear 'inline' asset.
7. Omega joint = A joint made during cable lay or during a cable repair. The joint got its name because it results in a bight of cable laid to the side of the main cable route and looks like an 'Ω' when viewed from above.

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EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF
 OMEGA AND INLINE JOINTS
 FOR STATUTORY CONSULTATION
 SHEET 01 of 01

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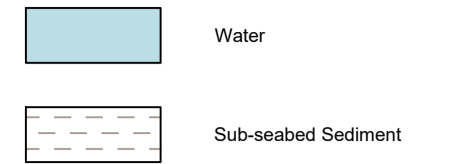
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Cable Configuration and Trench Profiles

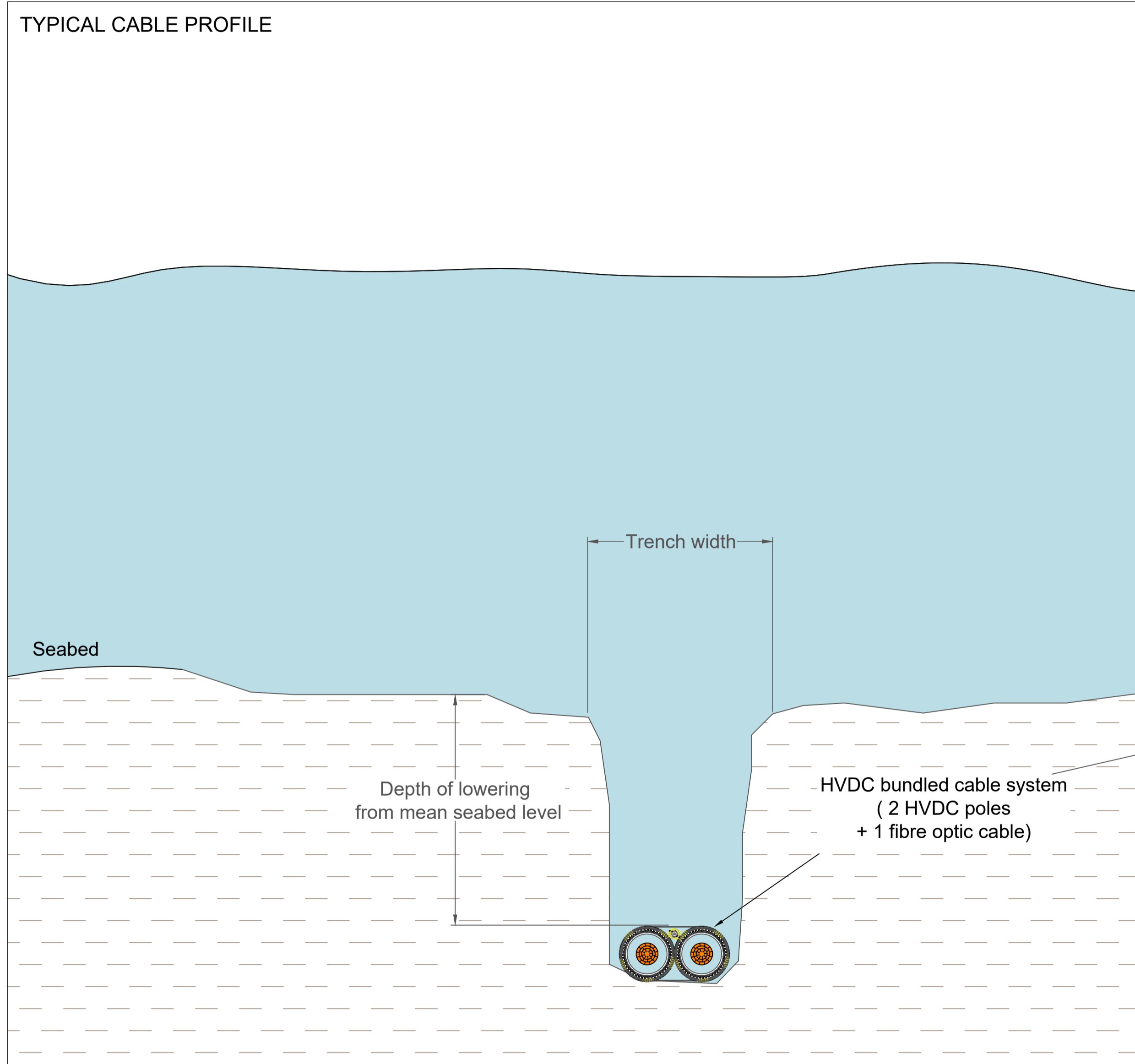
Drawing category	Drawing Reference
Illustration of HVDC Bundled Cable System Profile / Configuration	EGL5-NGET-MAR-XX-DR-YM-008
Illustration of Typical Marine Trench Profiles	EGL5-NGET-MAR-XX-DG-YM-009

EASTERN GREEN LINK (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF HVDC BUNDLED CABLE SYSTEM PROFILE / CONFIGURATION
 SHEET 01 of 01

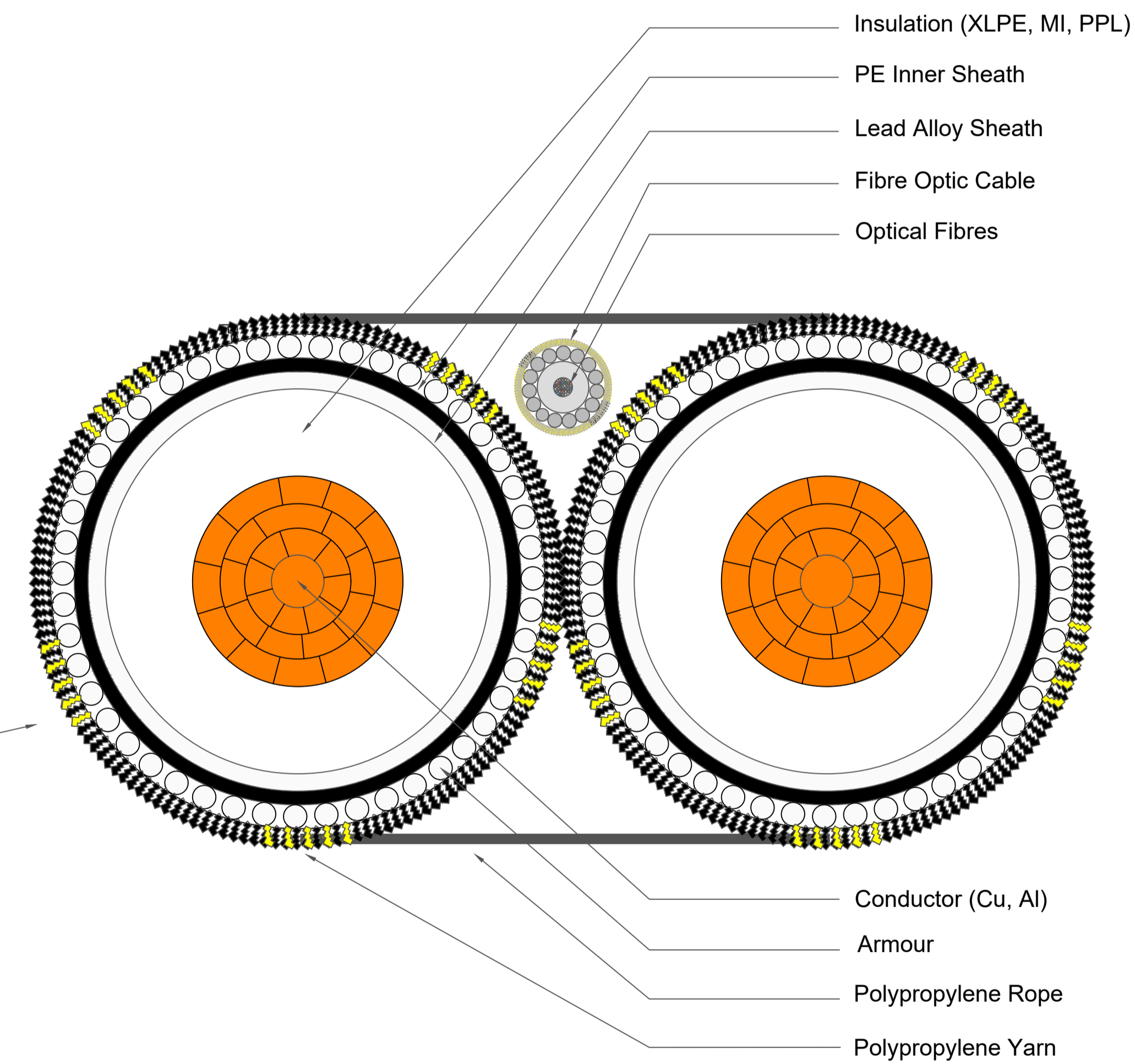
Legend:



TYPICAL CABLE PROFILE



BIPOLE HVDC BUNDLE CABLE SYSTEM



Notes:

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3. NTS = Not To Scale.
4. HVDC = High Voltage Direct Current.
5. XLPE = Cross Linked Polyethylene.
6. MI = Mass Impregnated.
7. PPL = Polypropylene Laminated Papers.
8. DMR = Dedicated Metallic Return.
9. The possibility of 'V' shaped trench due to shallow soil types and/or trench collapse cannot be ruled out.

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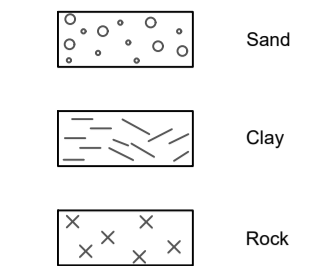
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EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF HVDC
 BUNDLED CABLE SYSTEM
 PROFILE / CONFIGURATION
 FOR STATUTORY CONSULTATION
 SHEET 01 of 01

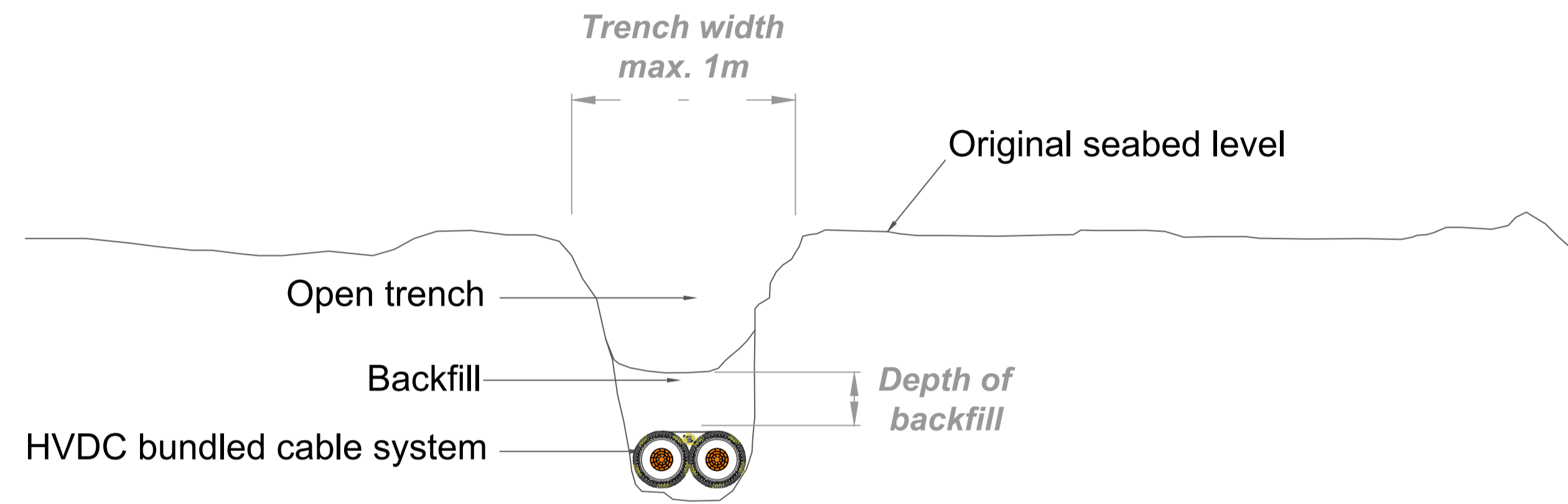


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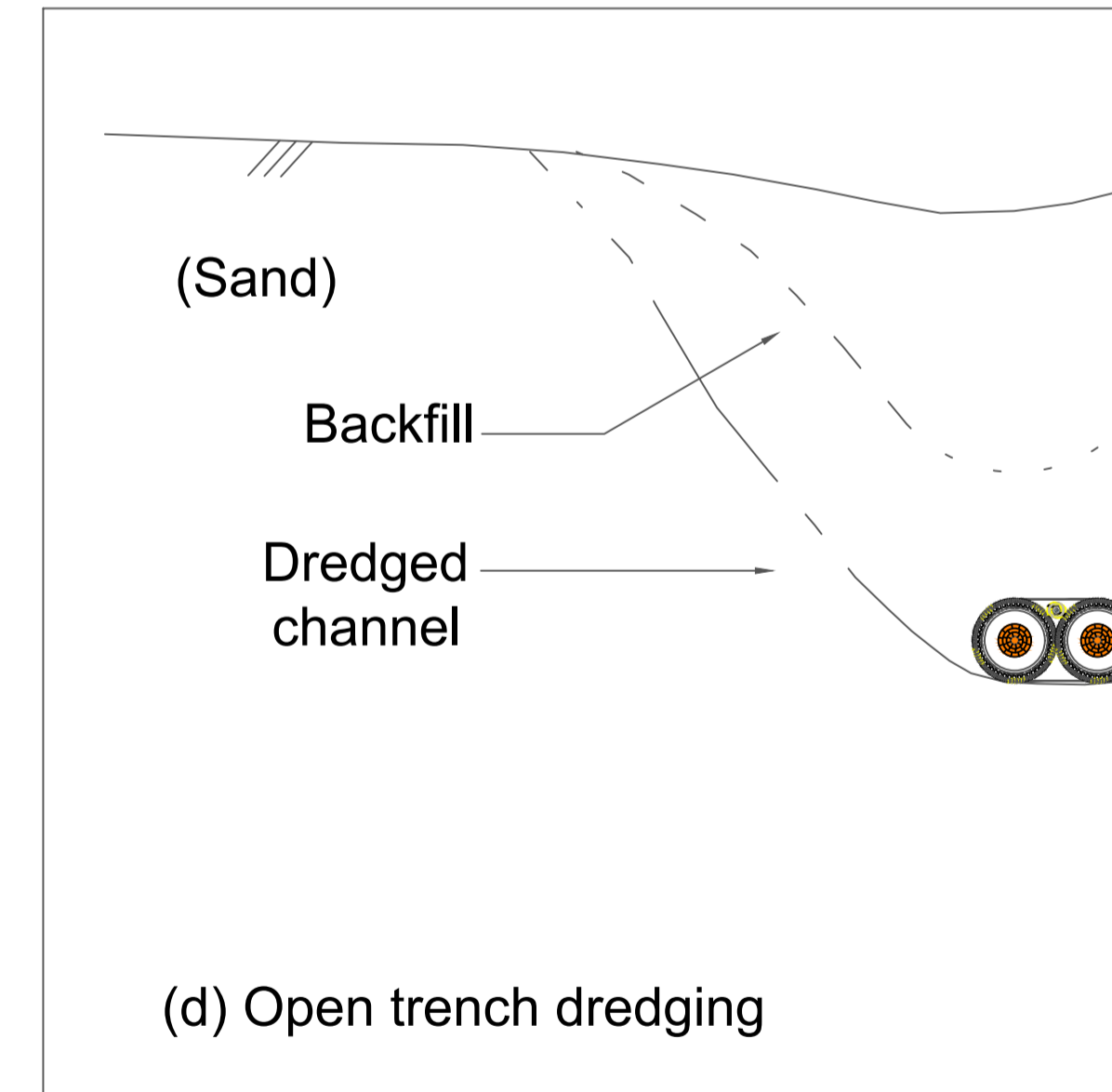
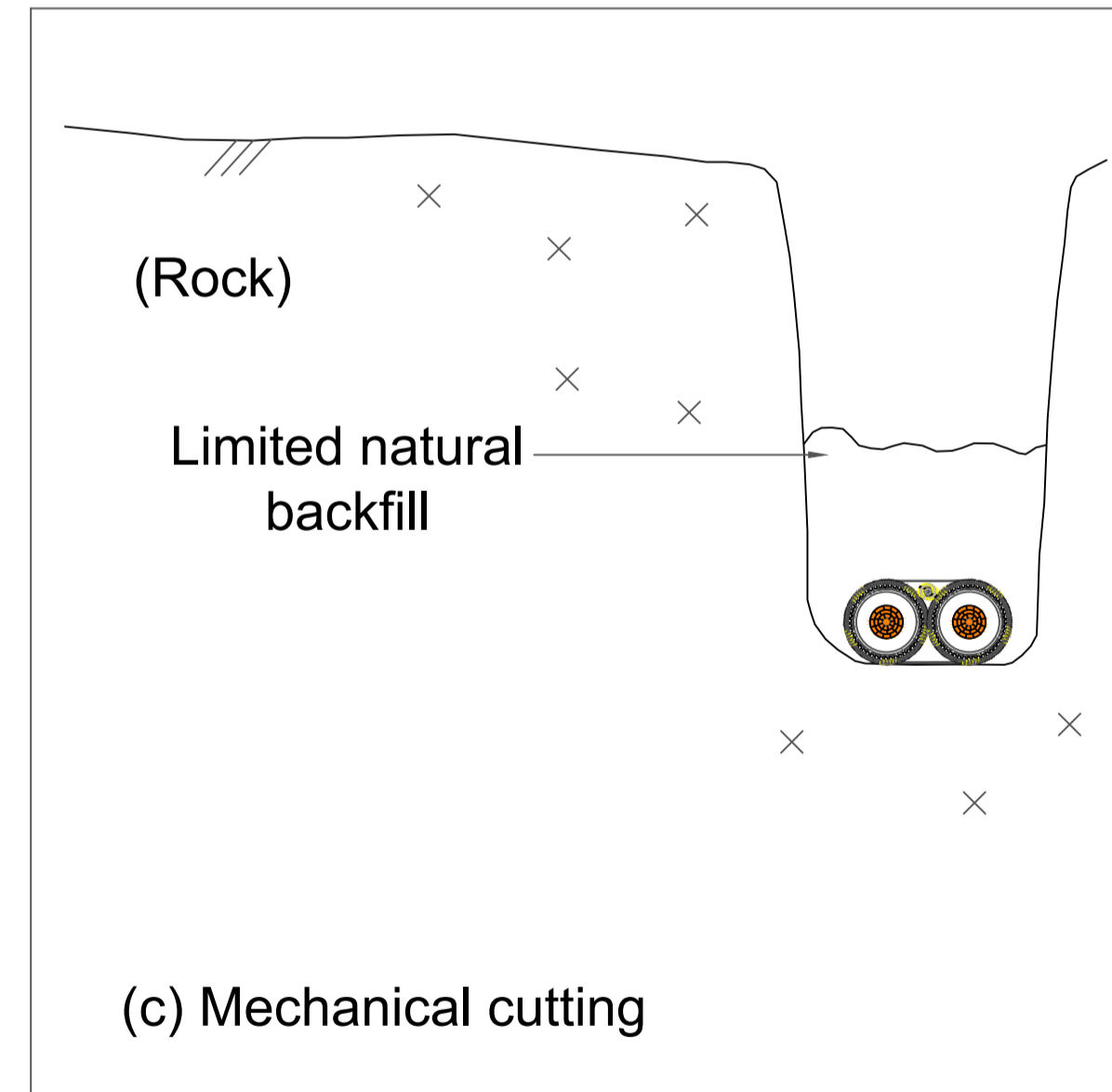
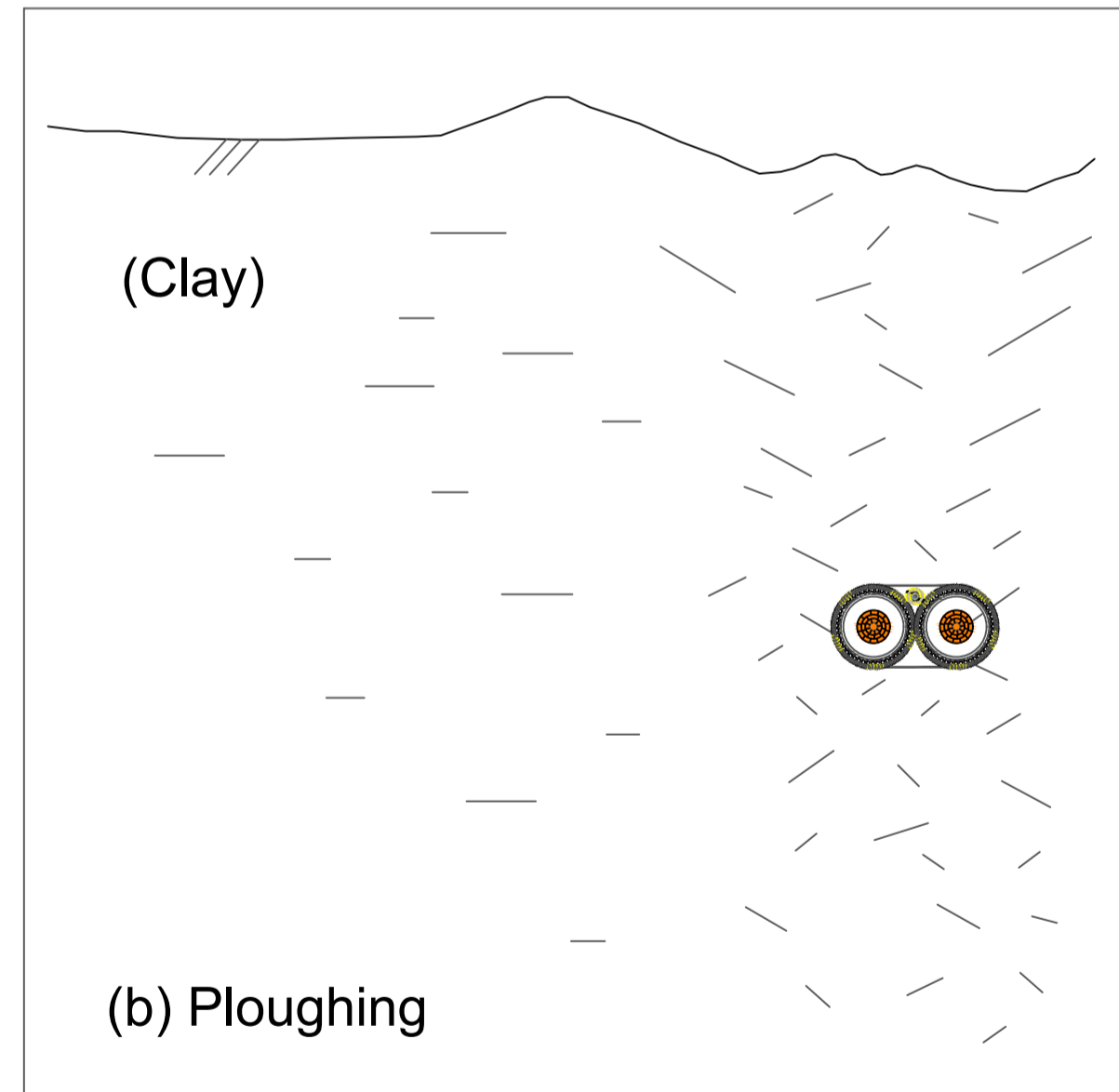
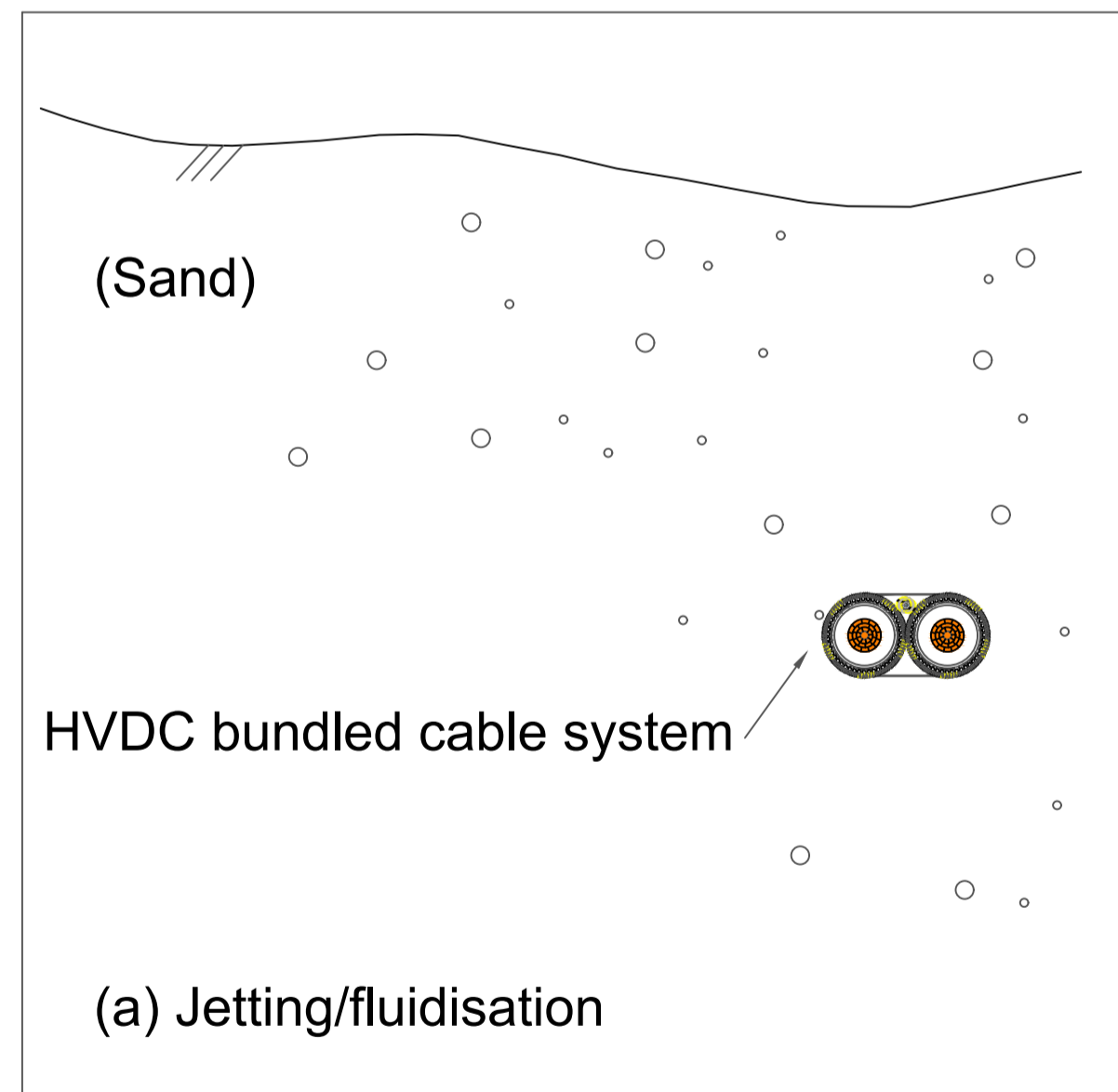
Legend:



Typical trench profile



Trench profiles from different installation methodology examples



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3. NTS = Not To Scale.
4. Trenching methodologies are dependent on the ground conditions (for example, whether the cable will be trenched in sands / clays / rock) and the capabilities of the equipment. This drawing indicates typical trenching methodologies as examples.
5. The possibility of 'V' shaped trench due to shallow soil types and/or trench collapse cannot be ruled out.

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Title

EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF
 TYPICAL MARINE TRENCH PROFILES
 FOR STATUTORY CONSULTATION
 SHEET 01 of 01










Scale	Sheet Size	Sheet	Issue
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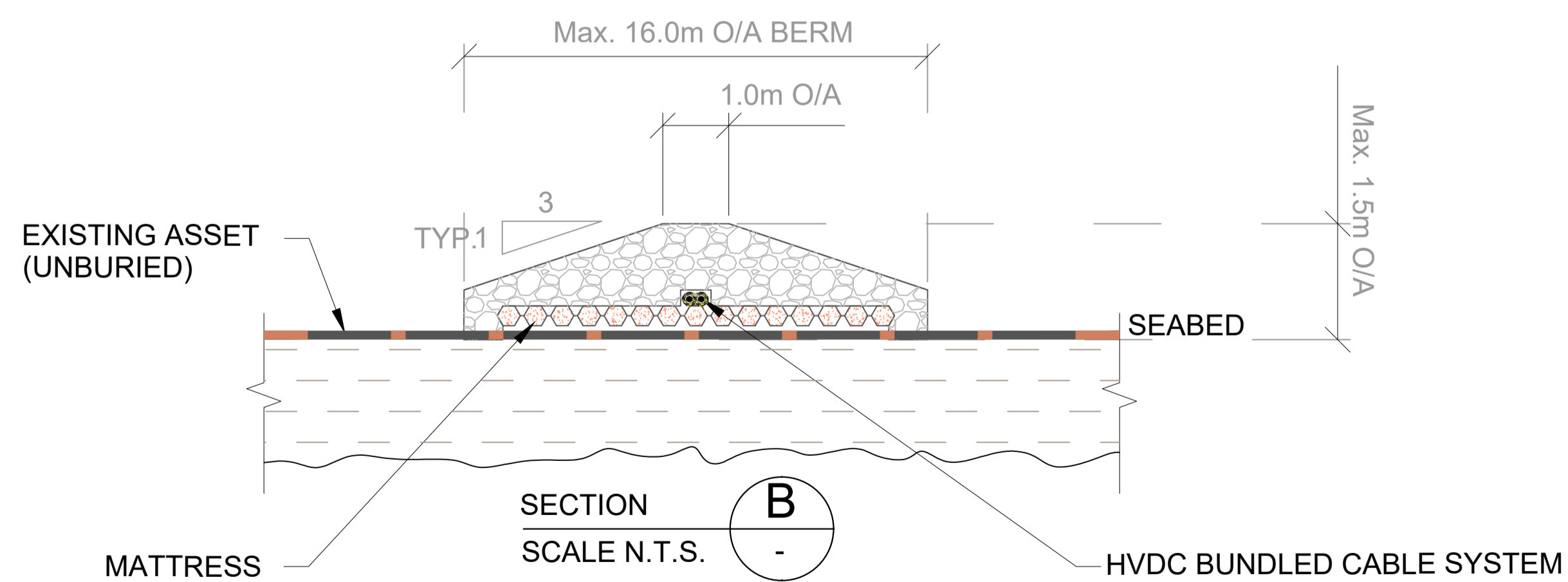
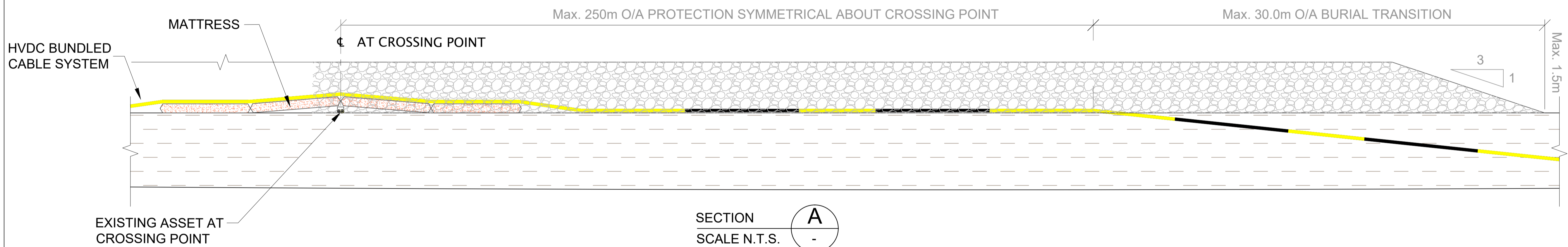
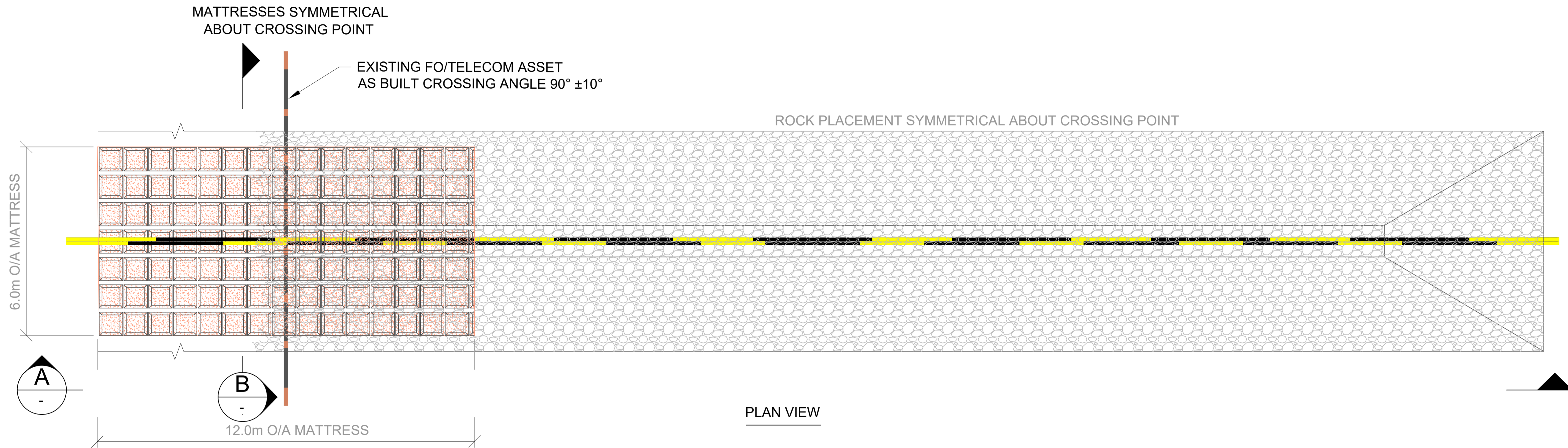
Cable Crossings and Protection

Drawing category	Drawing Reference
Indicative HVDC Bundled Cable System Crossing Over Unburied Fibre Optic / Telecoms Asset	EGL5-NGET-MAR-XX-DR-YM-010
Indicative HVDC Bundled Cable System Crossing Over Buried Fibre Optic / Telecoms Asset	EGL5-NGET-MAR-XX-DR-YM-011
Indicative HVDC Bundled Cable System Crossing Over Buried Power Cable Asset	EGL5-NGET-MAR-XX-DR-YM-012
Indicative HVDC Bundled Cable System Crossing Pre Lay Berm	EGL5-NGET-MAR-XX-DR-YM-013
Indicative Post Lay Rock Berm Schematics	EGL5-NGET-MAR-XX-DR-YM-014
Illustration of Cable Protection Methodologies	EGL5-NGET-MAR-XX-DR-YM-015
Illustration of Rock Placement Sections	EGL5-NGET-MAR-XX-DR-YM-016

EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 INDICATIVE HVDC BUNDLED CABLE SYSTEM CROSSING OVER
 UNBURIED FIBRE OPTIC/TELECOMS ASSET
 SHEET 01 of 01

Legend:

-  Existing Asset (Plan View)
-  HVDC Bundled Cable System
-  Mattress (Section A)
-  Mattress (Section B)
-  Mattress (Plan View)
-  Seabed Sediment
-  Post Lay Rock Berm



Notes:

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3. NTS = Not To Scale.
4. HVDC = High Voltage Direct Current.
5. FO = Fibre Optic.
6. O/A = On / About.
7. Mattresses are used to protect unburied third-party assets.

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EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 INDICATIVE BUNDLED CABLE CROSSING
 OVER UNBURIED FIBRE OPTIC/TELECOMS ASSET
 FOR STATUTORY CONSULTATION





SHEET 01 of 01

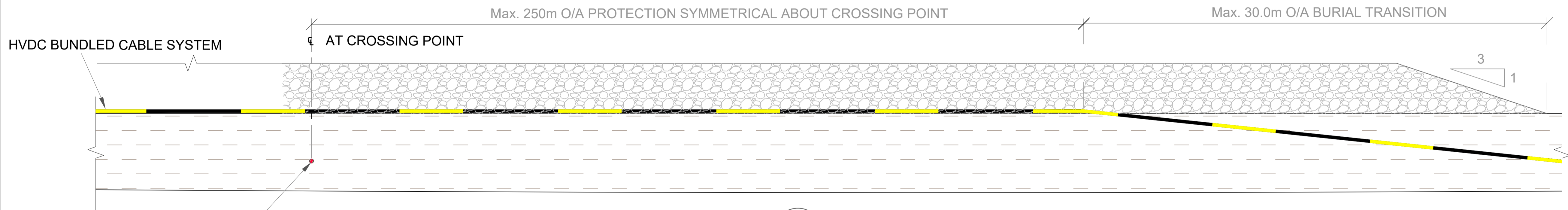
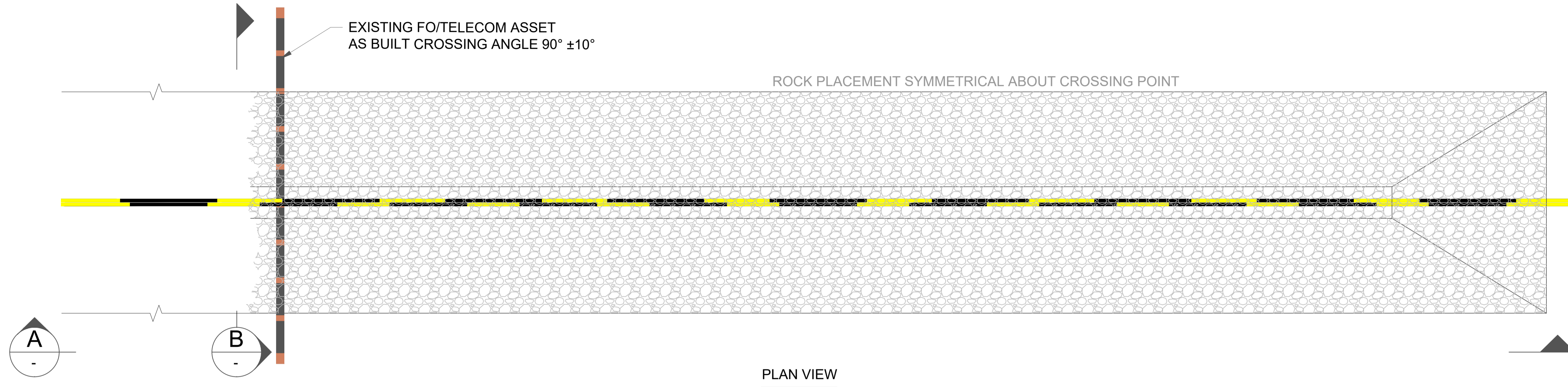
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Scale	Sheet Size	Sheet	Issue
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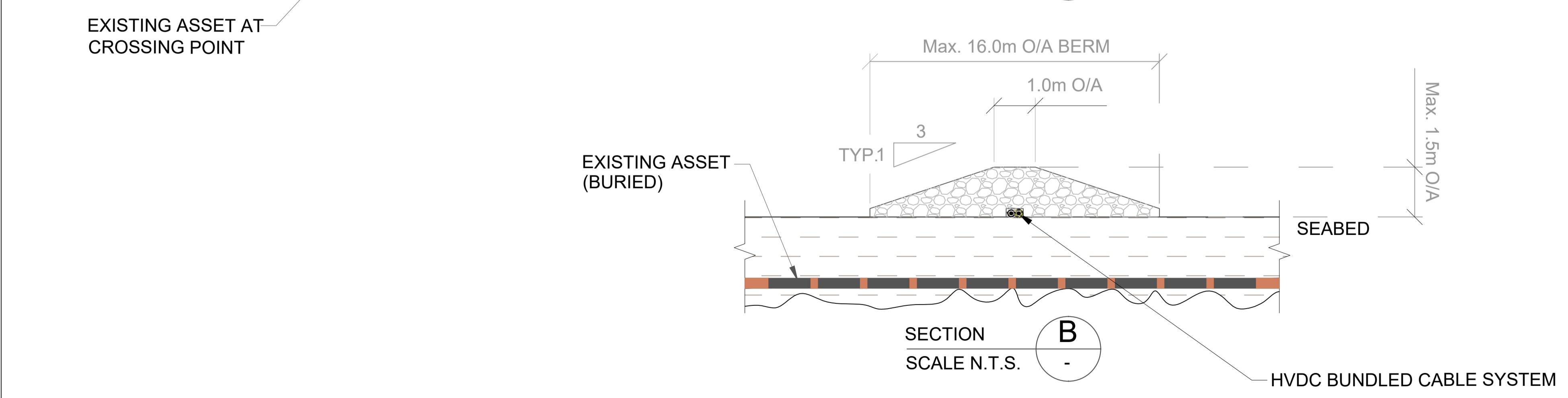
EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF HVDC BUNDLED CABLE SYSTEM CROSSING OVER BURIED FIBRE OPTIC/TELECOMS ASSET
 SHEET 01 of 01

Legend:

-  Existing Asset
-  HVDC Bundled Cable System
-  Seabed Sediment
-  Post Lay Rock Berm



SECTION A
 SCALE N.T.S.



SECTION B
 SCALE N.T.S.

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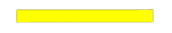

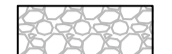
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 DESIGN AND LAYOUT PLANS - OFFSHORE
 INDICATIVE HVDC BUNDLED CABLE SYSTEM
 CROSSING OVER BURIED FIBRE
 OPTIC/TELECOMS ASSET
 FOR STATUTORY CONSULTATION
 SHEET 01 of 01

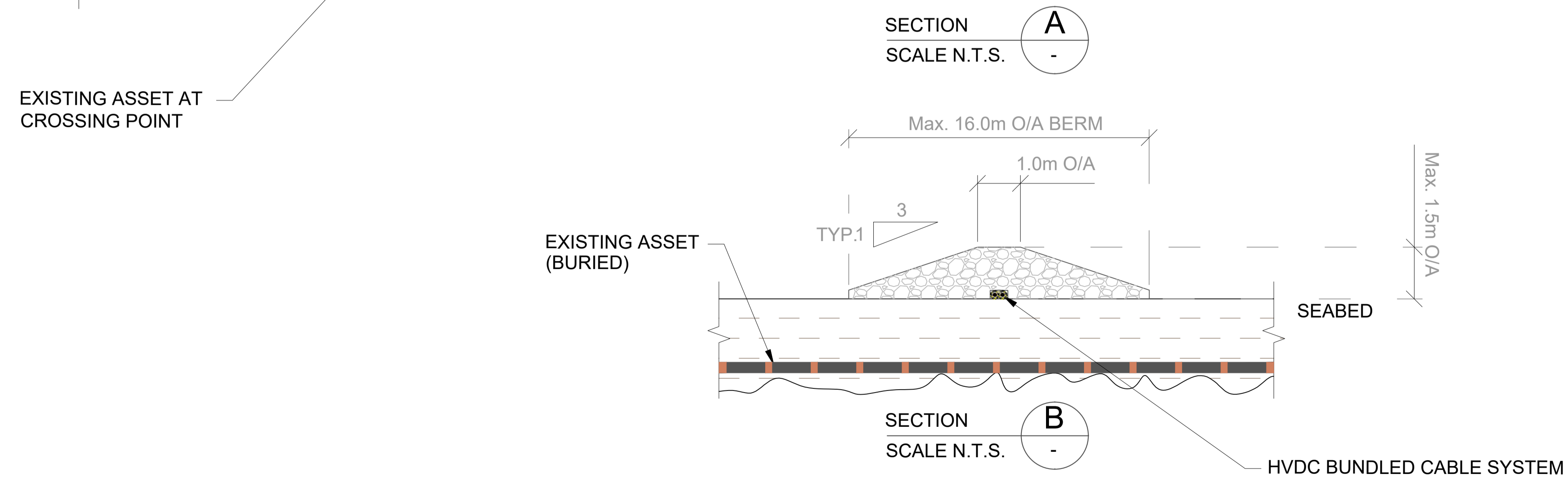
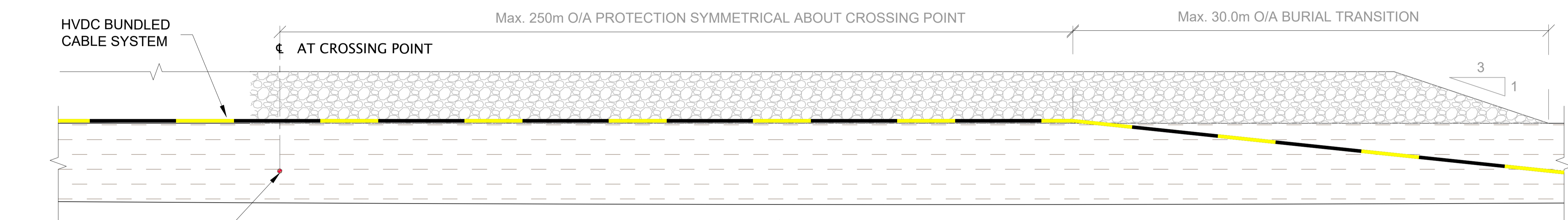
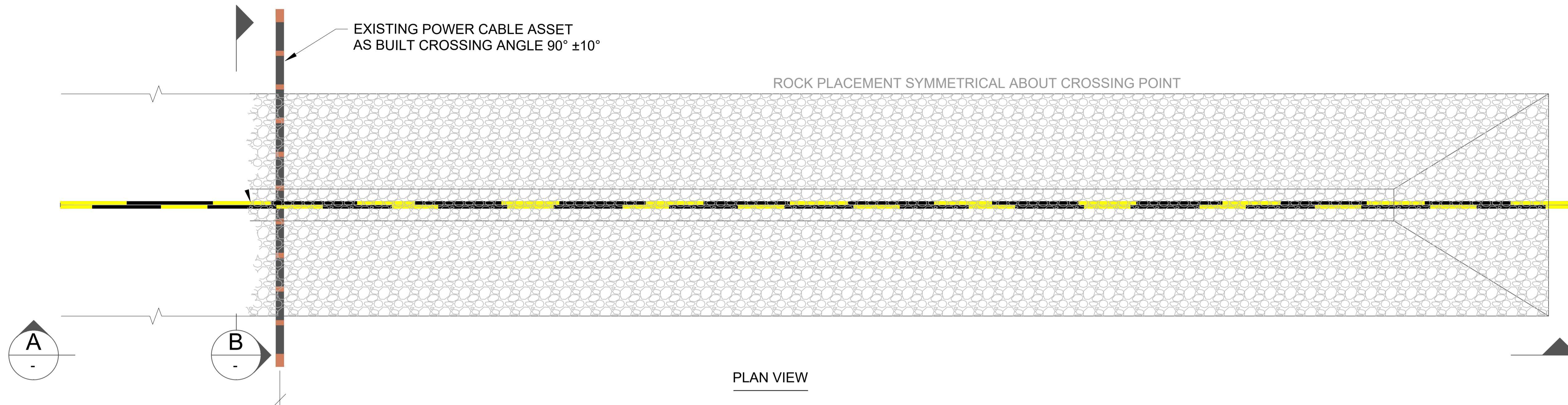


Drawing Reference			
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Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 01 OF 01	B

EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF HVDC BUNDLED CABLE SYSTEM CROSSING OVER BURIED POWER CABLE ASSET
 SHEET 01 of 01

Legend:

-  Existing Asset
-  HVDC Bundled Cable System
-  Seabed Sediment
-  Post Lay Rock Berm



Notes:

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2. No unauthorised disclosure, storage or copying.
3. NTS = Not To Scale.
4. HVDC = High Voltage Direct Current.
5. O/A = On / About.
6. Minimum vertical offset between the crossing power cables to be agreed as part of crossing agreement.

FOR STATUTORY CONSULTATION PURPOSES ONLY

Issue	Date	Remarks	Drawn	Check	Approved
B	08/05/2026	Second Issue	CM	AP	AP
A	12/12/2025	First Issue	AG	AP	AP



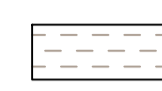
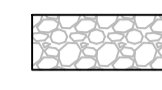
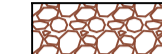
EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 INDICATIVE HVDC BUNDLED CABLE
 SYSTEM CROSSING
 OVER BURIED POWER CABLE ASSET
 FOR STATUTORY CONSULTATION
 SHEET 01 of 01

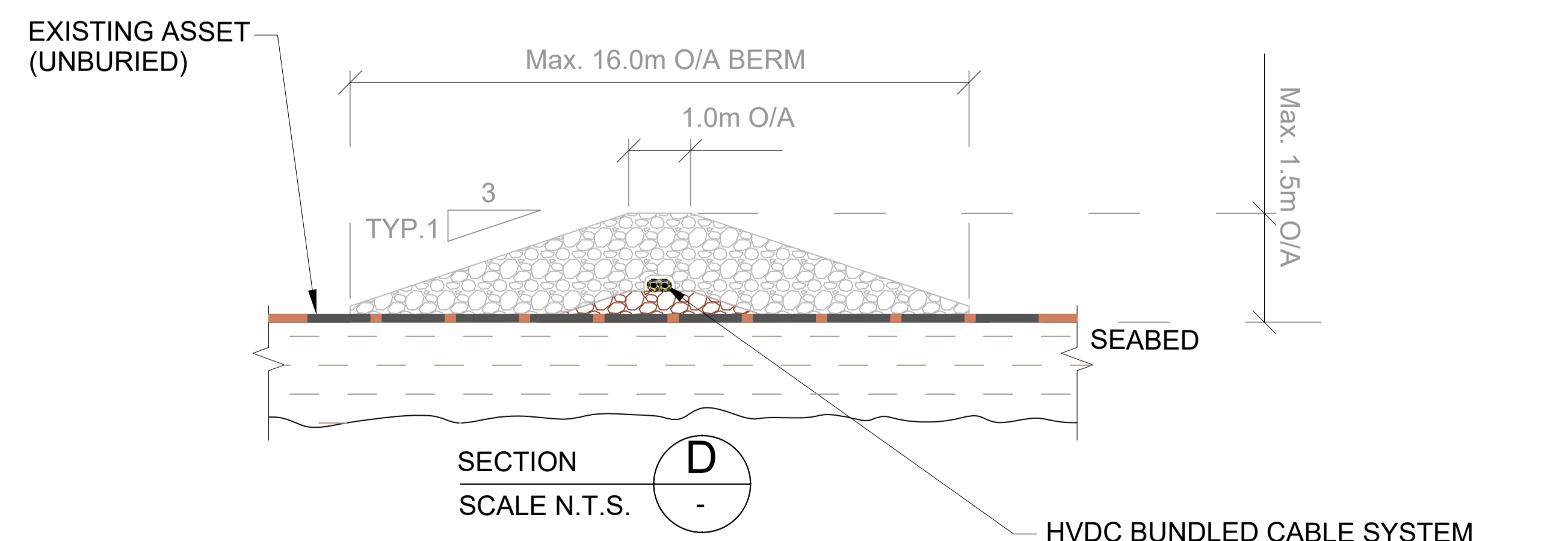
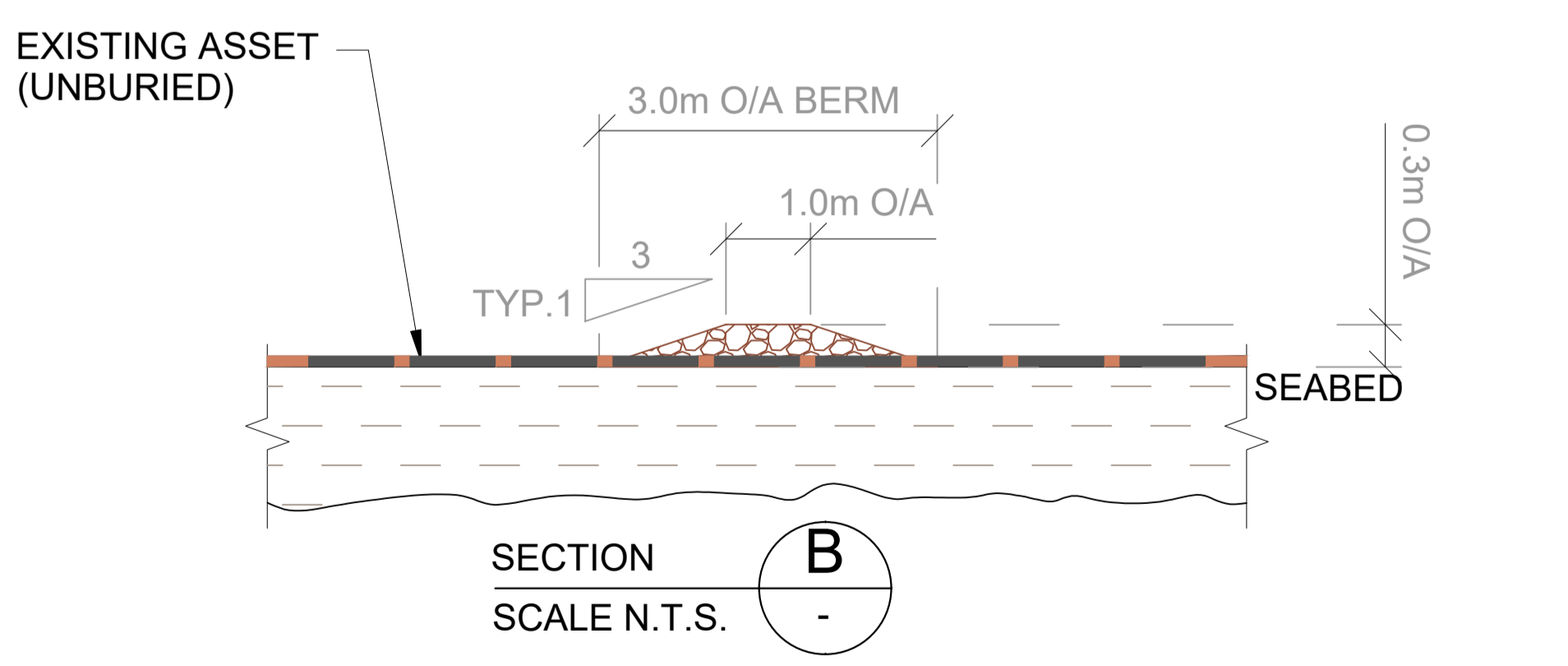
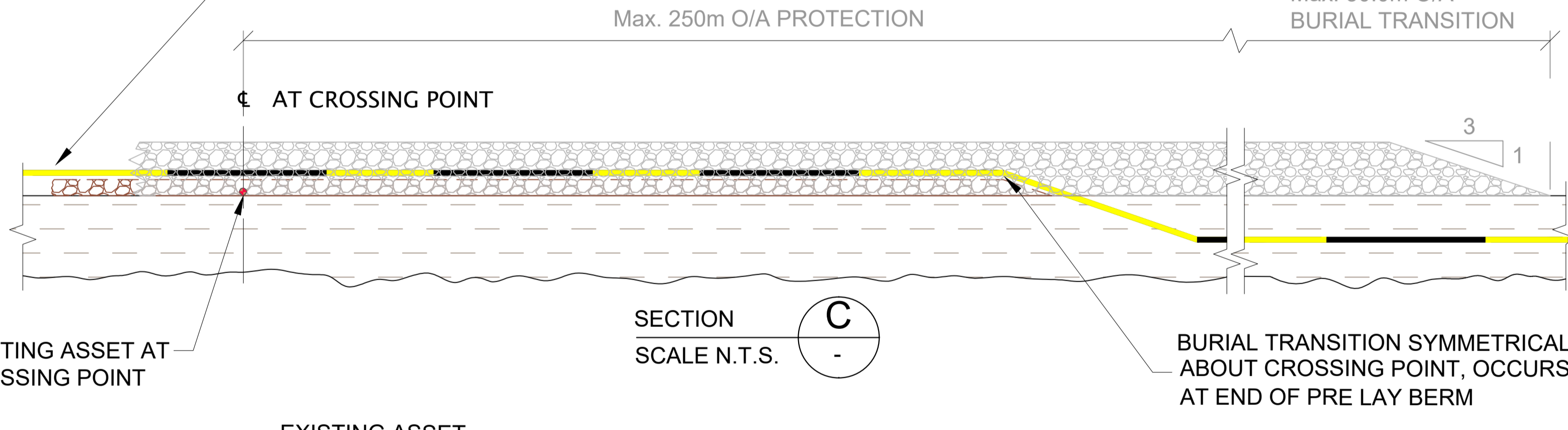
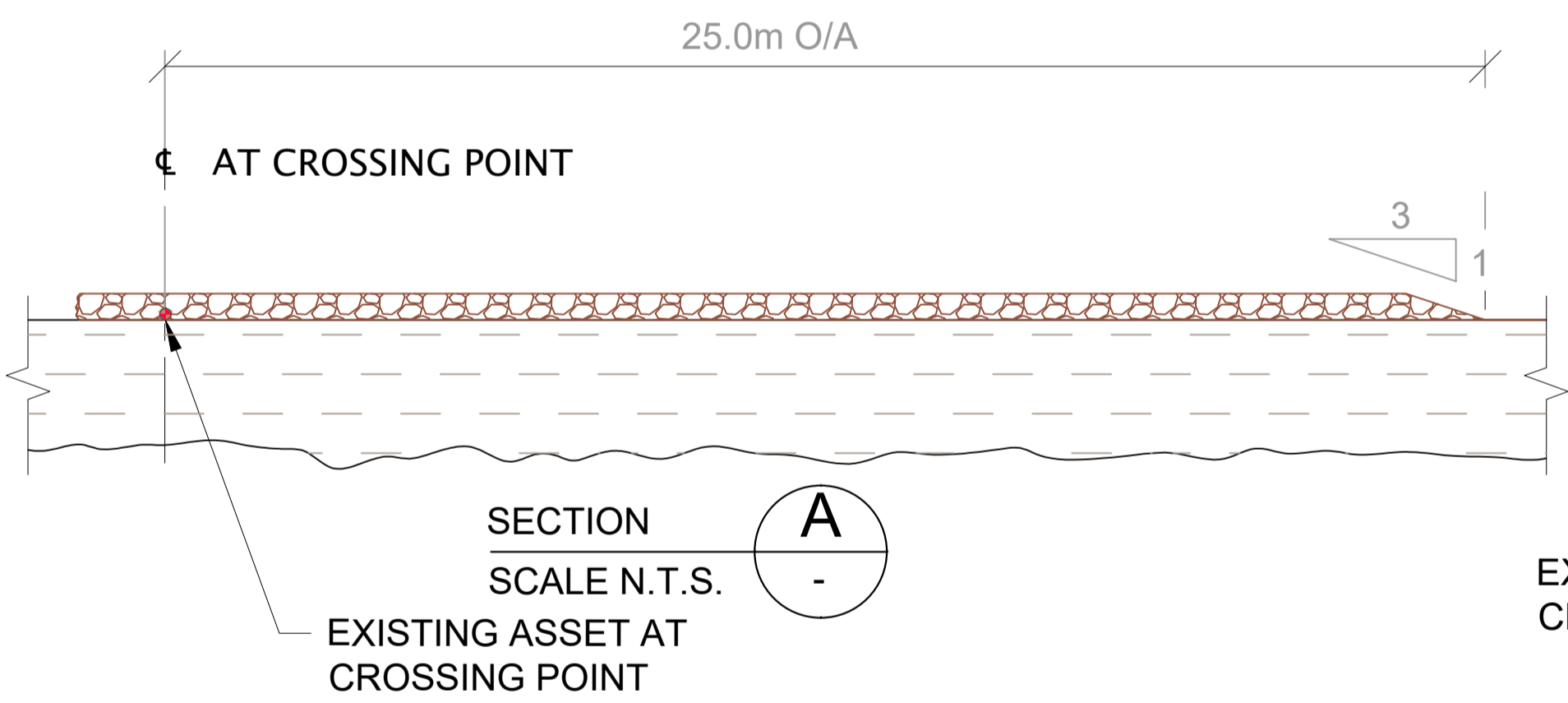
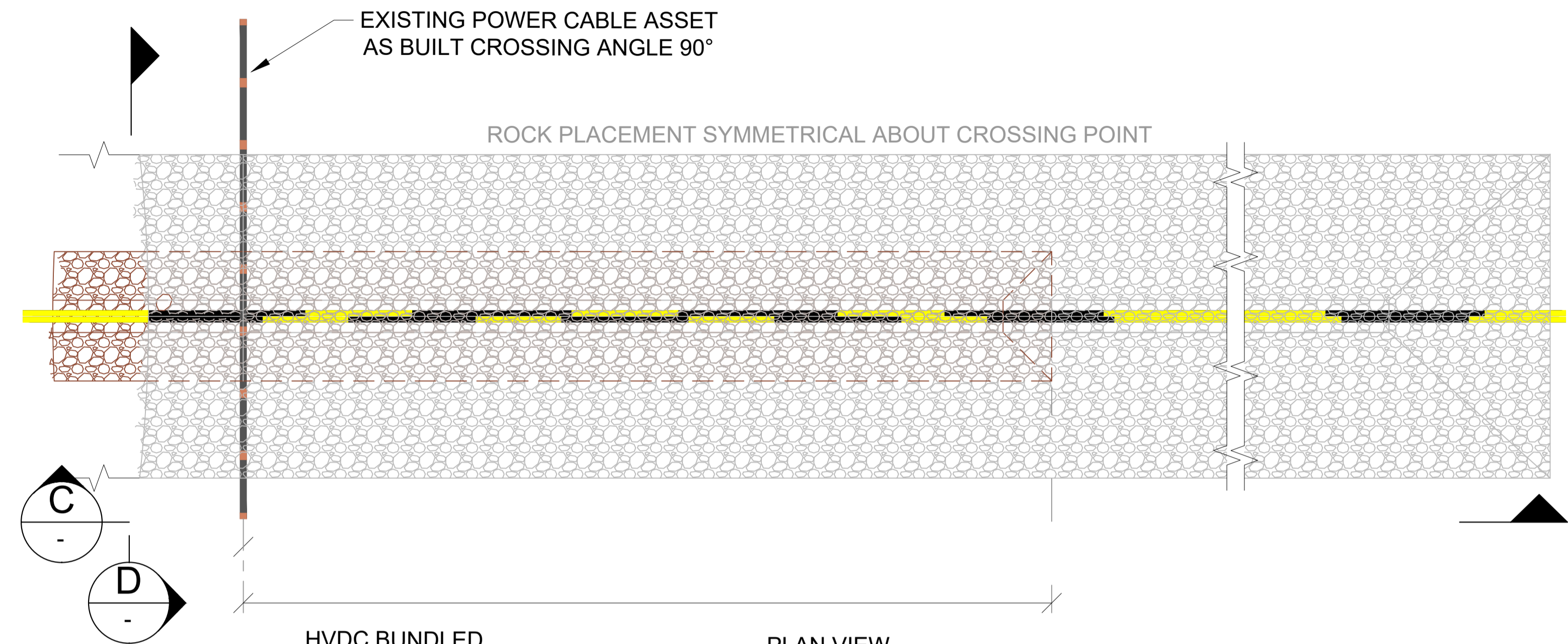
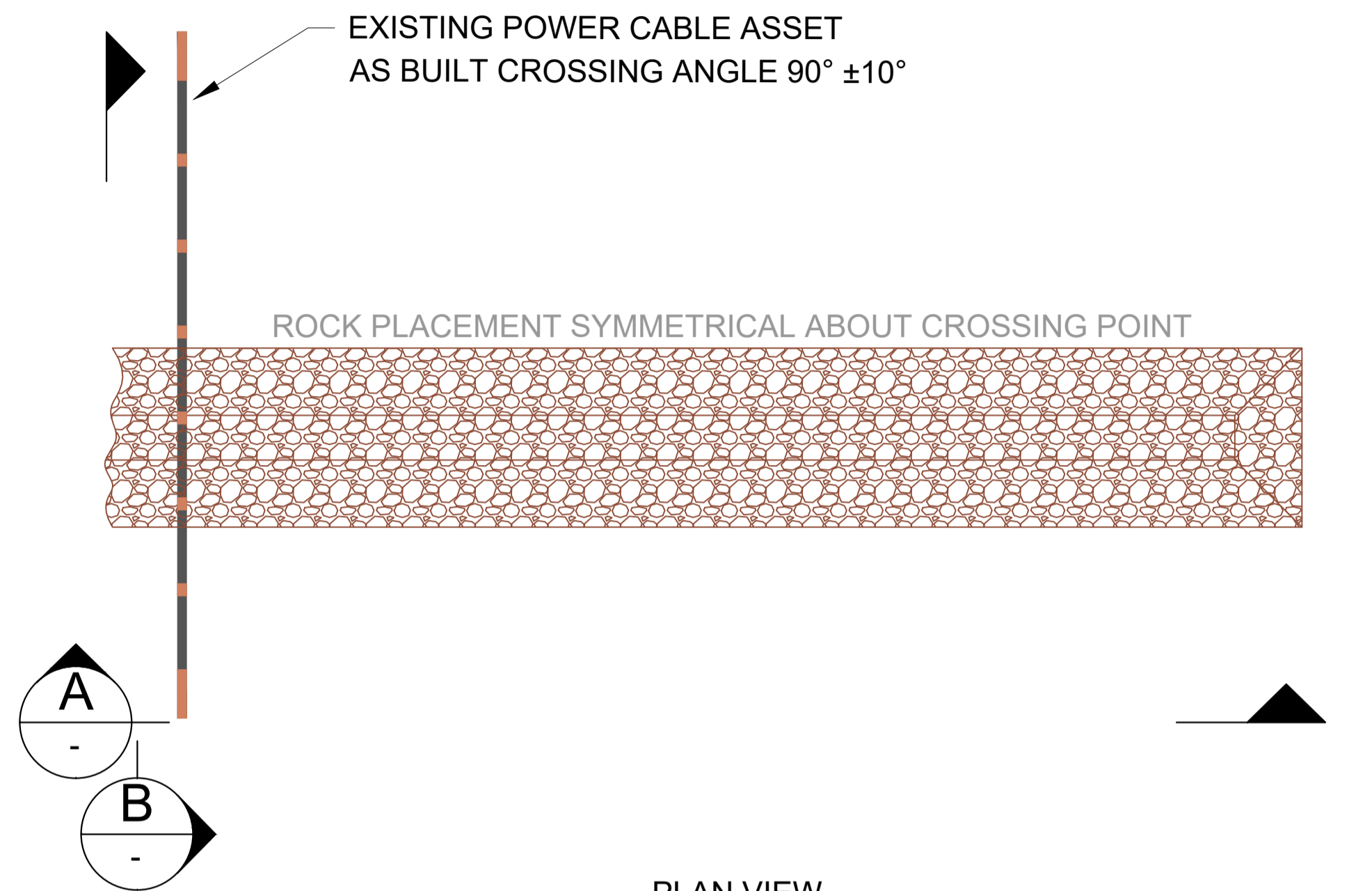
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Drawing Reference			
Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 01 OF 01	B

EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF HVDC BUNDLED CABLE SYSTEM CROSSING OVER PRE LAY BERM
 SHEET 01 of 01

Legend:

-  Existing Asset
-  HVDC Bundled Cable System
-  Seabed Sediment
-  Post Lay Rock Berm
-  Pre Lay Rock Berm



Notes:

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4. HVDC = High Voltage Direct Current.
5. O/A = On / About.
6. Pre-lay rock berm = rock protection before cable lay, typically for planned asset crossings.

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Issue	Date	Remarks	Drawn	Check	Approved
B	08/05/2026	Second Issue	CM	AP	AP
A	12/12/2025	First Issue	AG	AP	AP

EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF HVDC BUNDLED CABLE SYSTEM CROSSING OVER PRE LAY BERM
 FOR STATUTORY CONSULTATION


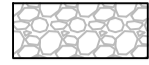
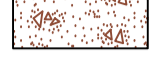

SHEET 01 of 01

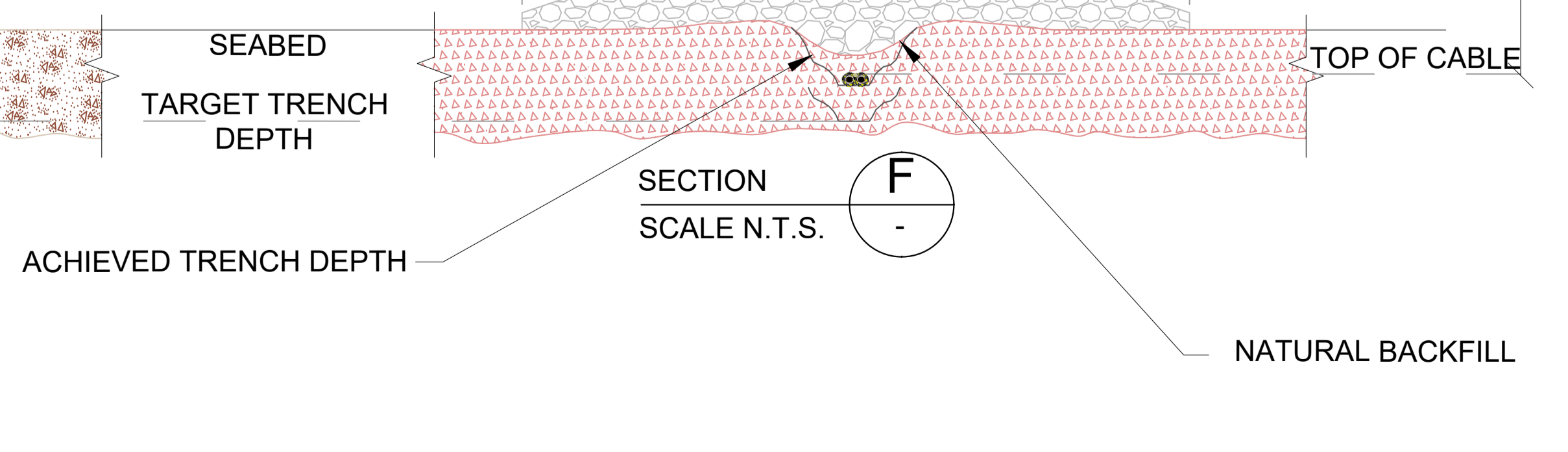
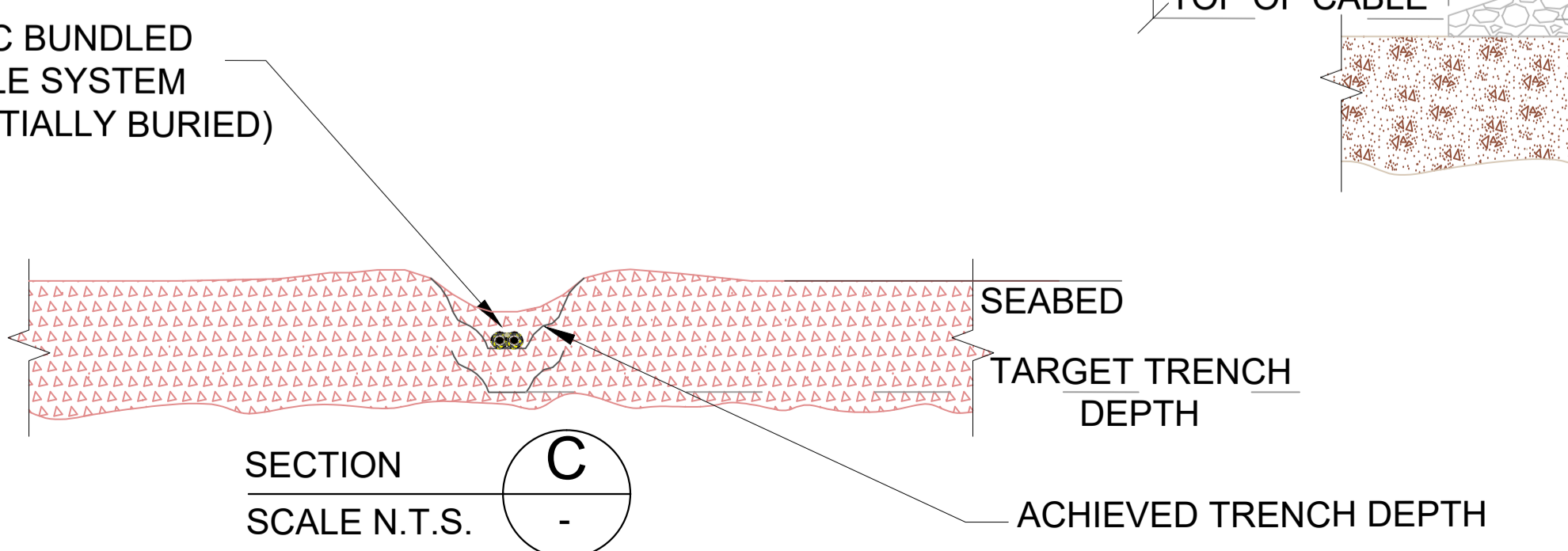
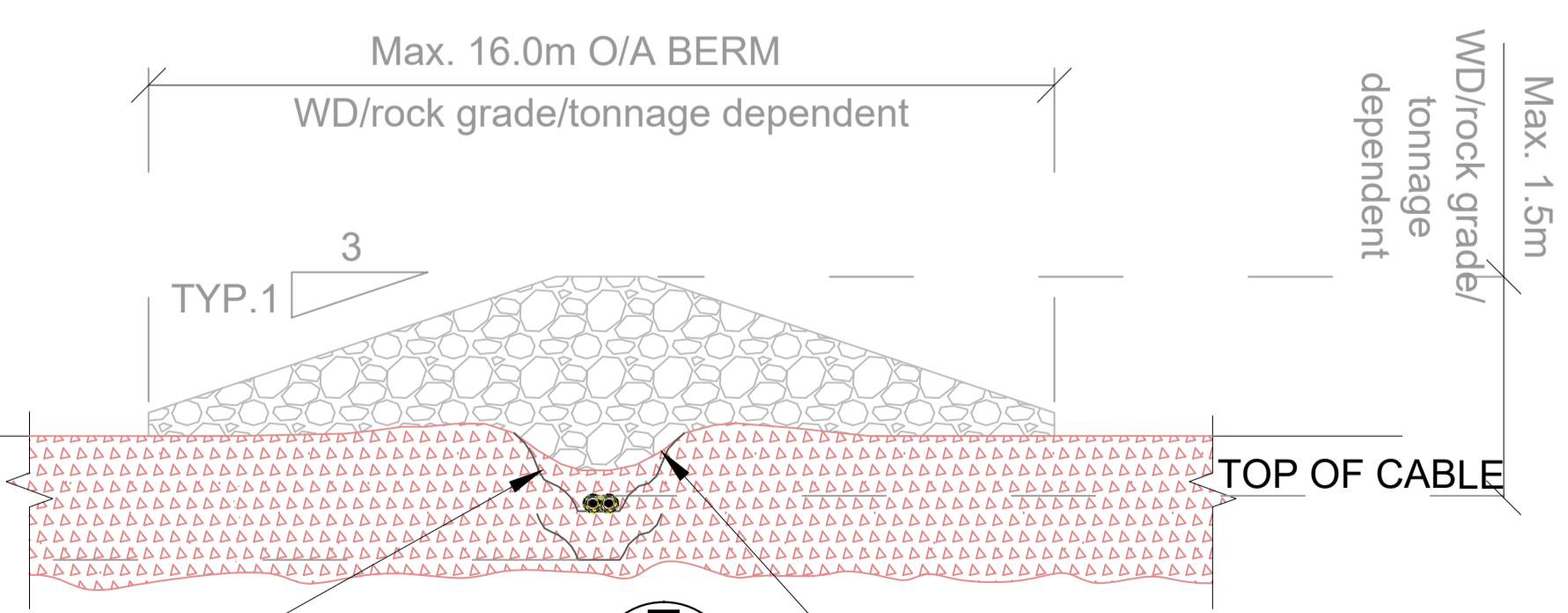
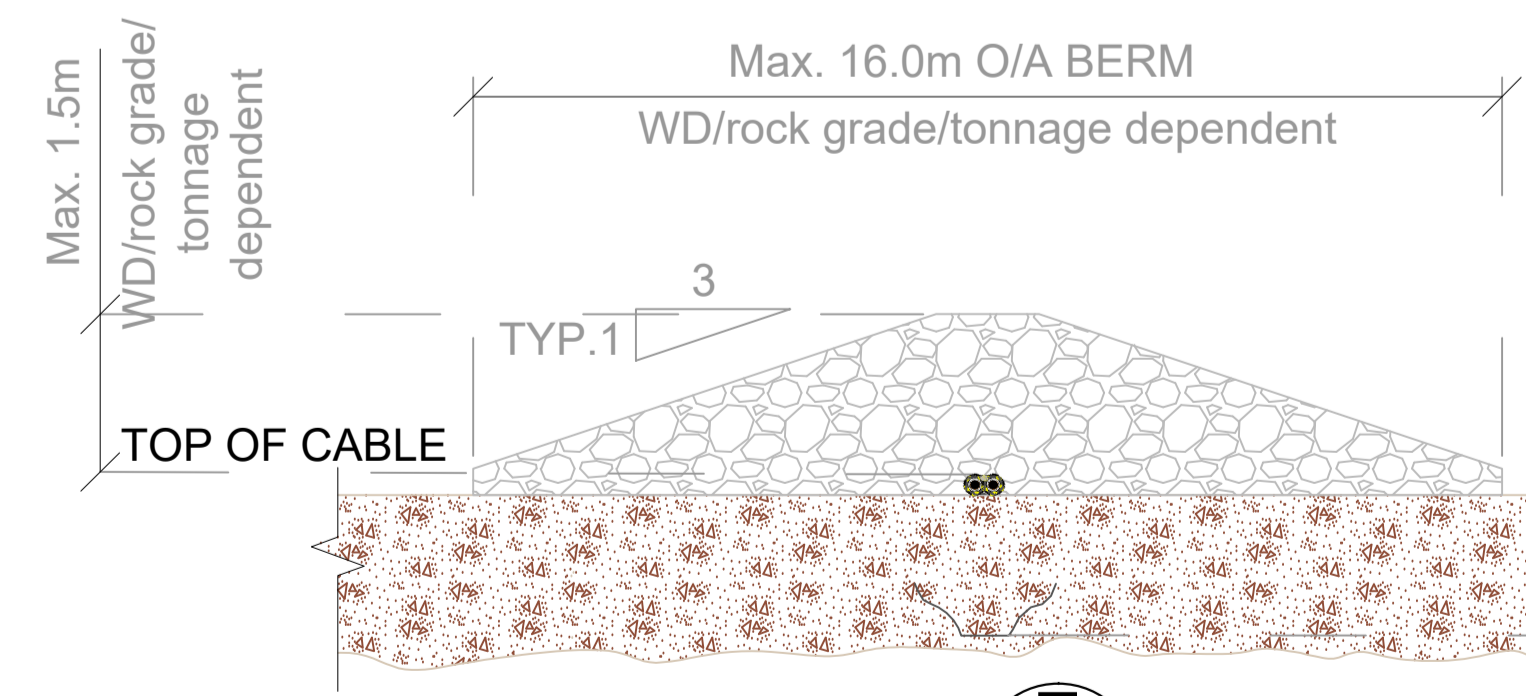
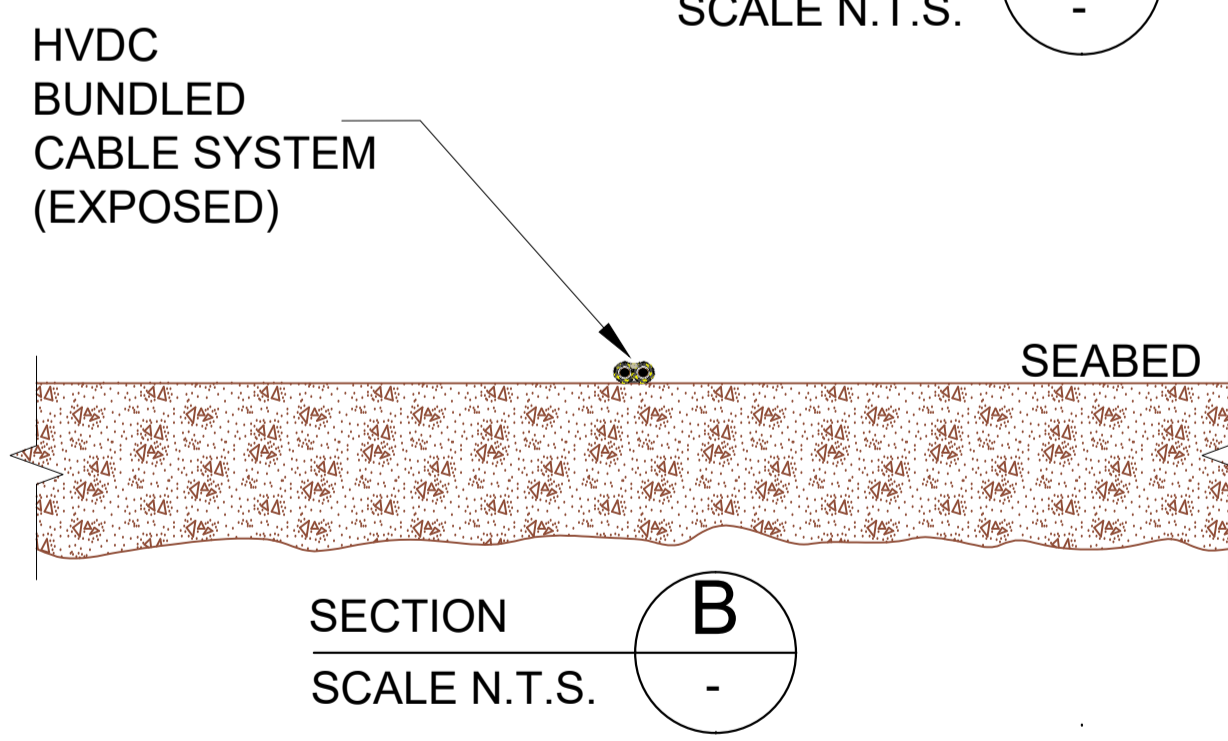
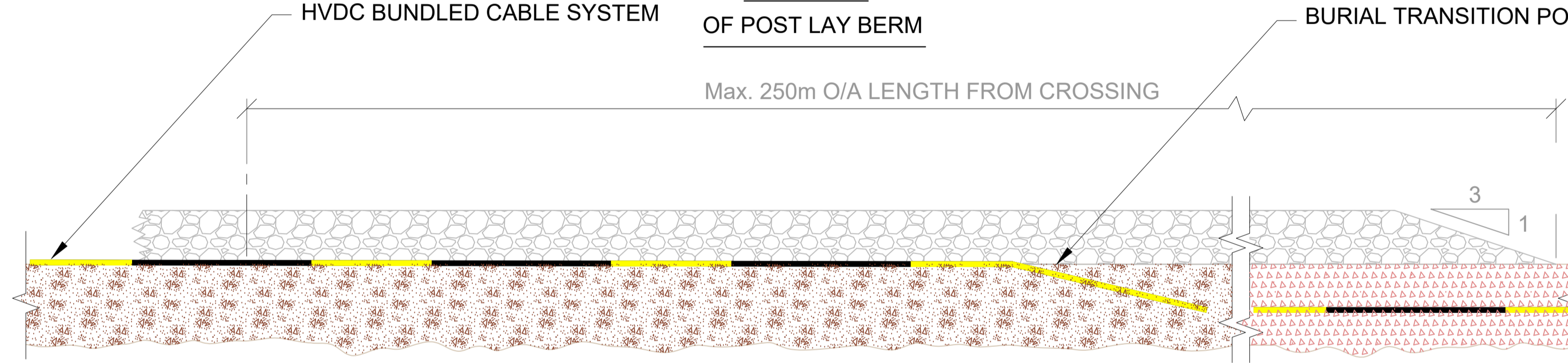
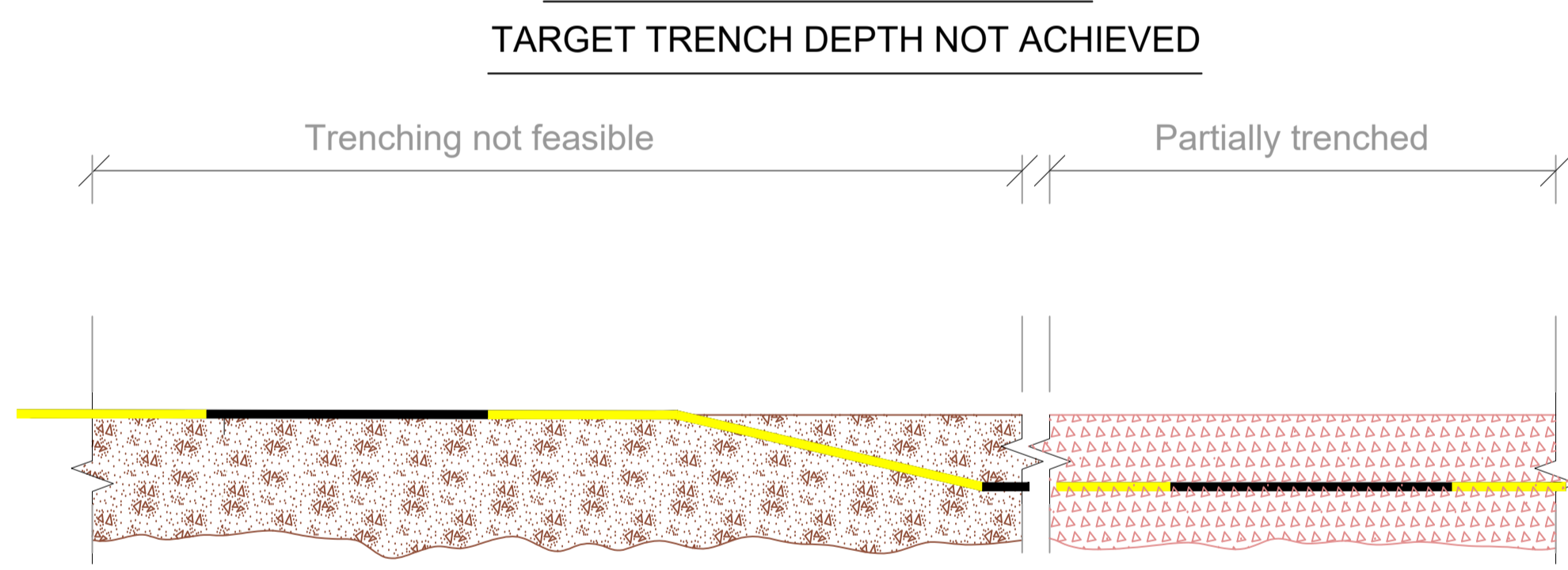
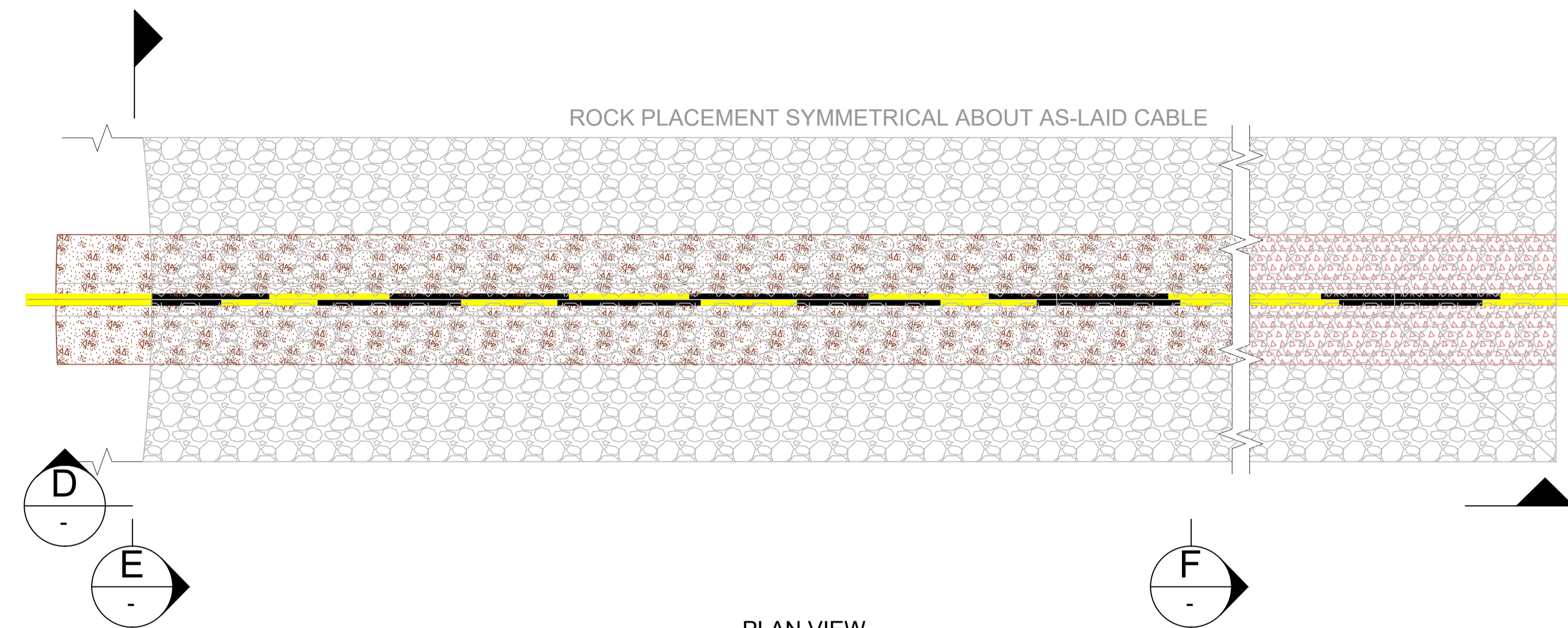
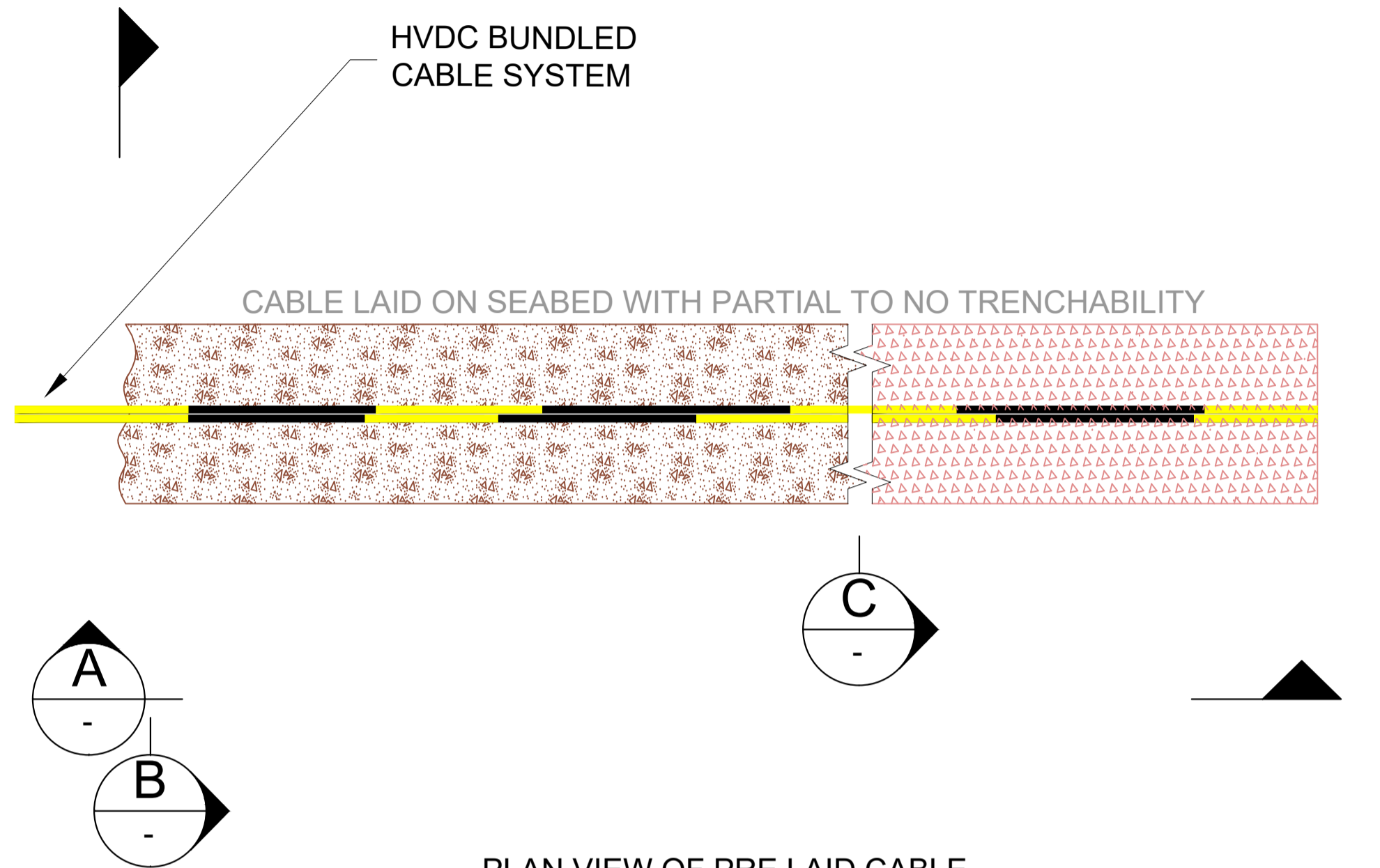
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Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 01 OF 01	B

EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF POST LAY ROCK BERM SCHEMATICS
 SHEET 01 of 01

Legend:

-  HVDC Bundled Cable System
-  Post Lay Rock Berm
-  Non-Trenchable Soil
-  Semi-Trenchable Soil



Notes:

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3. NTS = Not To Scale.
4. HVDC = High Voltage Direct Current.
5. FO = Fibre Optic.
6. O/A = On / About.
7. WD = Water Depth.
8. Pre-lay rock berm = rock protection before cable lay, typically for planned asset crossings.
9. Post-lay rock berm = rock protection after cable lay. Dimensions of berms are dependent on water depth, grade of rock & tonnage of rock required for protection.
- 10.

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B	08/05/2026	Second Issue	CM	AP	AP
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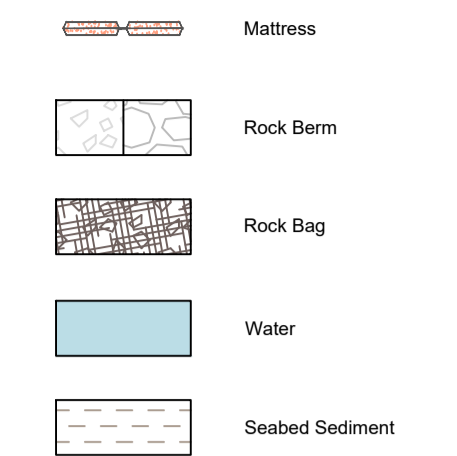
EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF ROCK BERM
 SCHEMATICS PRE LAY AND POST LAY
 FOR STATUTORY CONSULTATION
 SHEET 01 of 01

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Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 01 OF 01	B

EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF CABLE PROTECTION METHODOLOGIES
 SHEET 01 of 01

Legend:



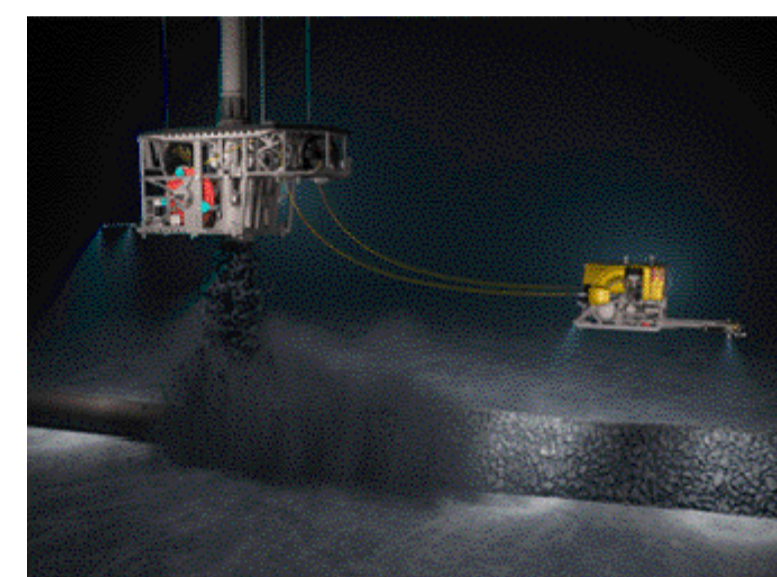
Representative images of various cable protection methodologies



1: Uraduct (AIS Ltd., 2024)



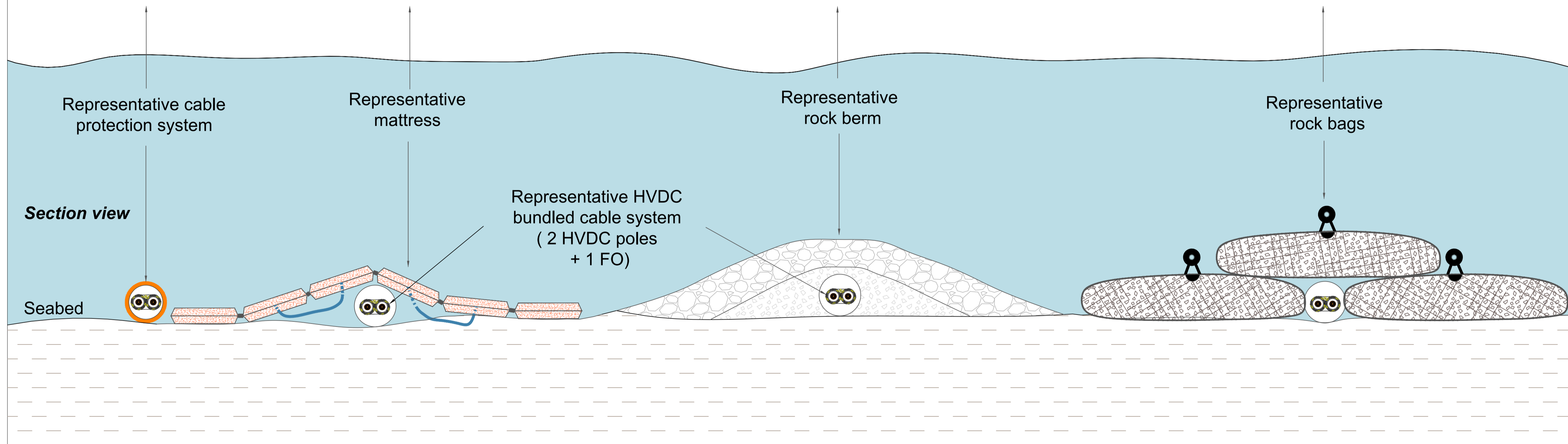
2: Mattress (Subsea Protection Systems, No Date)



3: Rock dumping (Seatools, 2016)



4: Rock bags (UTROV, 2018)



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5. FO = Fibre Optic.

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Issue	Date	Remarks	Drawn	Check	Approved
B	08/05/2026	Second Issue	CM	AP	AP
A	11/12/2025	First Issue	AG	AP	AP

Title









EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF
 CABLE PROTECTION METHODOLOGIES
 FOR STATUTORY CONSULTATION
 SHEET 01 of 01



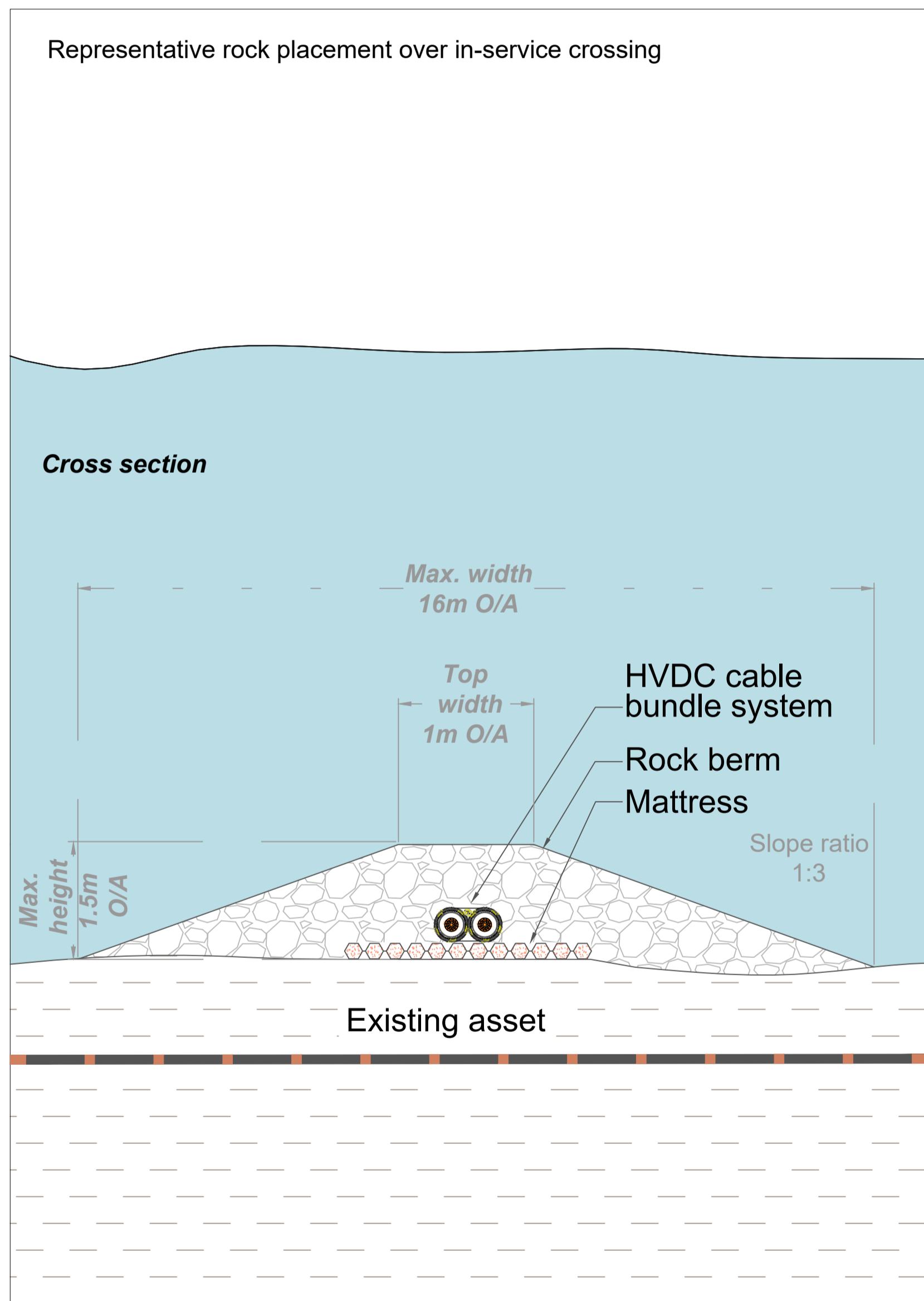
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EGL5-NGET-MAR-XX-DR-YM-0015			
Scale	Sheet Size	Sheet	Issue
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EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF ROCK PLACEMENT SECTIONS
 SHEET 01 of 01

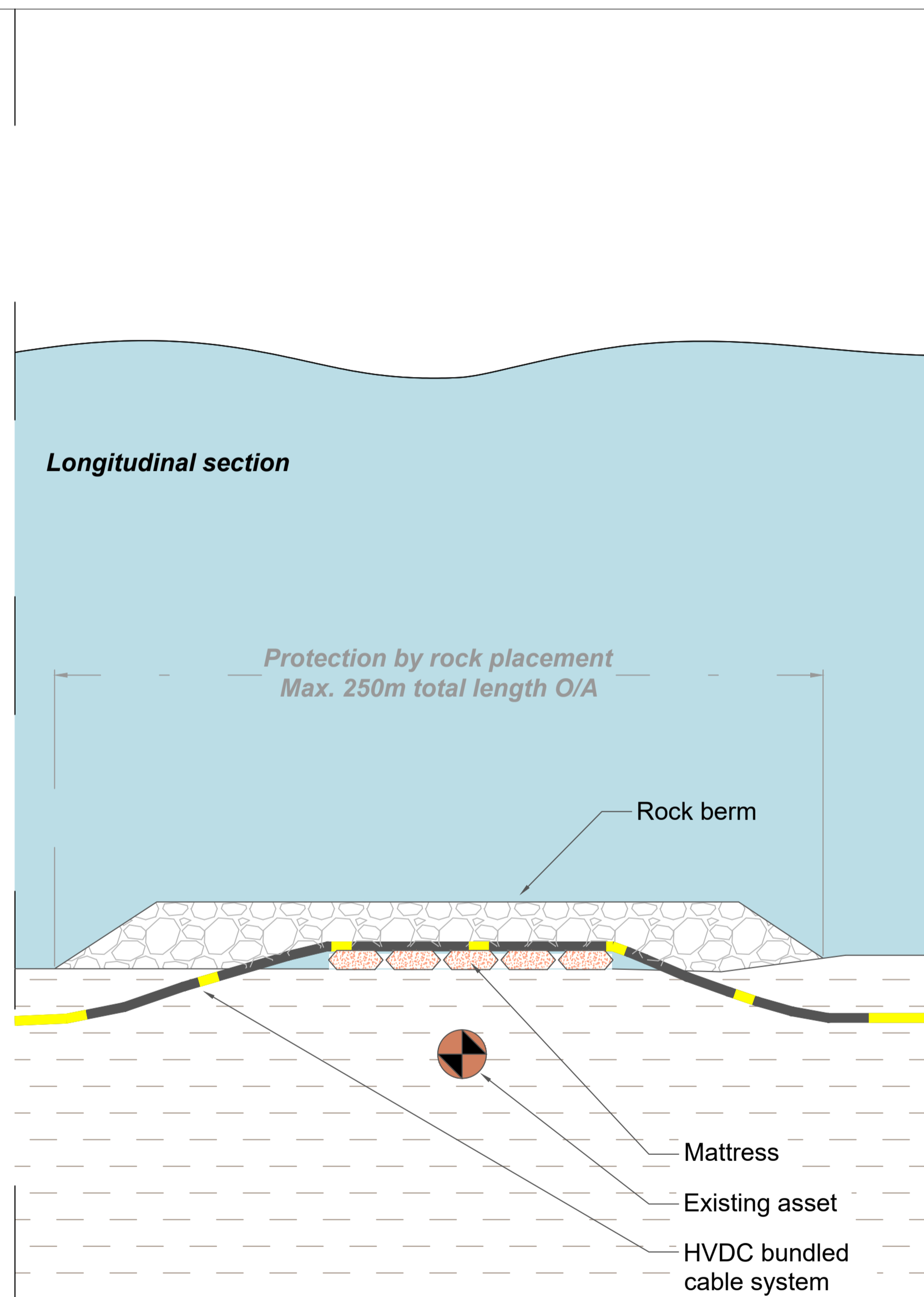
Legend:

-  Existing Asset
-  HVDC Bundled Cable Systems
-  Mattress (Longitudinal Section)
-  Mattress (Cross Section)
-  Mattress (Plan View)
-  Rock Berm
-  Water
-  Seabed Sediment

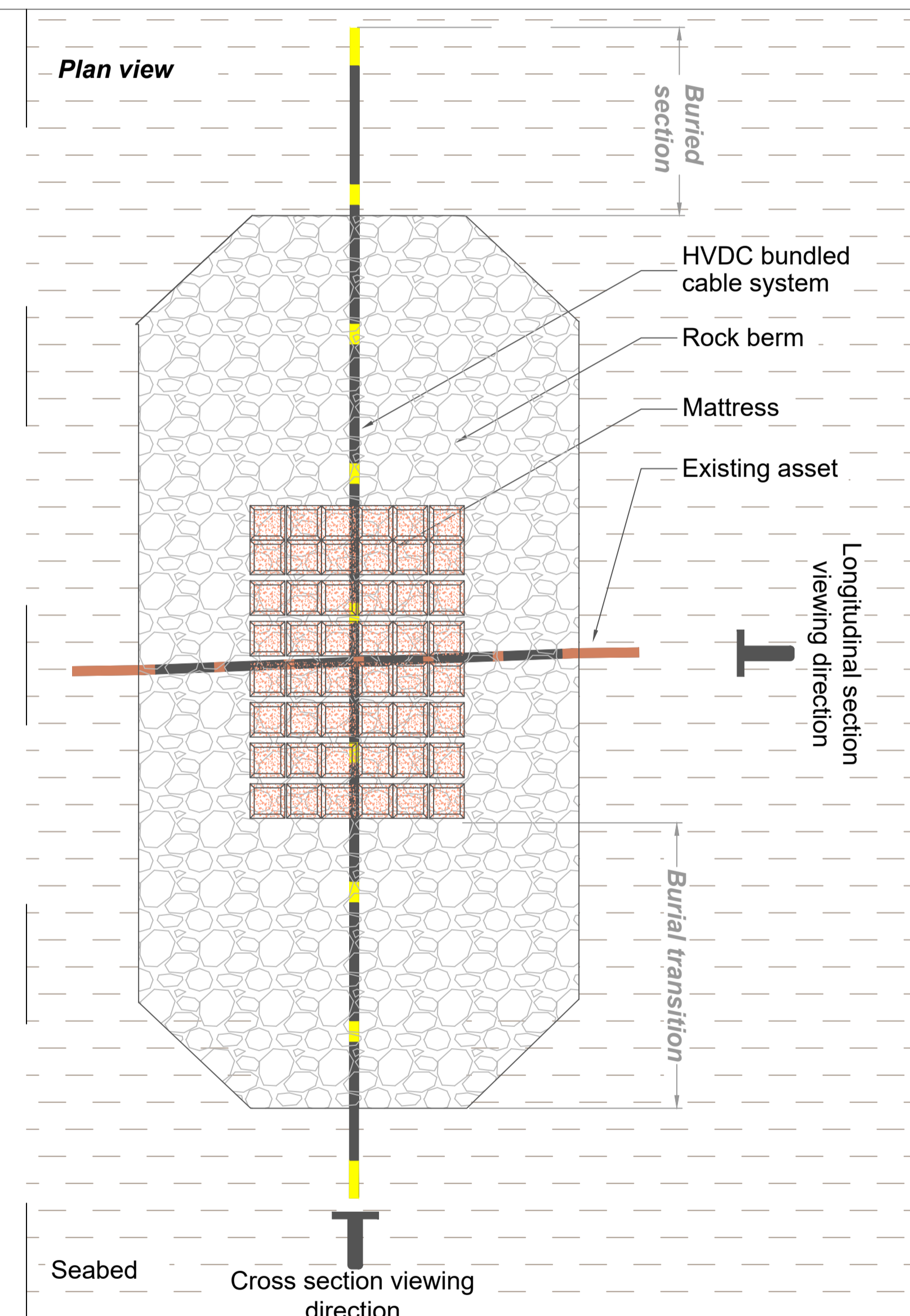
Representative rock placement over in-service crossing



Longitudinal section



Plan view



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EASTERN GREEN LINK (EGL 5)
 DESIGN AND LAYOUT PLANS - OFFSHORE
 ILLUSTRATIVE DRAWING OF
 ROCK PLACEMENT SECTIONS
 FOR STATUTORY CONSULTATION
 SHEET 01 of 01

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Drawing Reference

EGL5-NGET-MAR-XX-DR-YM-0016




Scale	Sheet Size	Sheet	Issue
NTS	A1	SHEET 01 OF 01	B

Landfall Trenchless Installation Technique

Drawing category	Drawing Reference
Illustration of Typical Trenchless Method Landfall	EGL5-NGET-MAR-XX-DG-YM-017

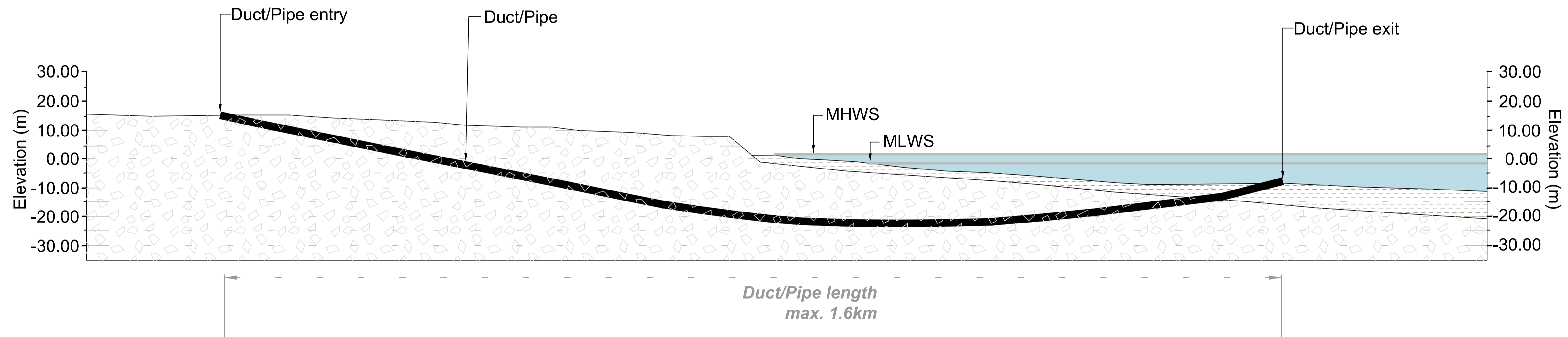
EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - ONSHORE
 ILLUSTRATIVE DRAWING OF TYPICAL TRENCHLESS METHOD LANDFALL
 SHEET 01 of 01

Legend:

-  Water
-  Seabed Sediment
-  Bedrock



Example of a Trenchless Method Landfall Site (Triton Knoll, 2024)



ILLUSTRATIVE SECTION

Notes:

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2. No unauthorised disclosure, storage or copying.
3. NTS = Not To Scale.
4. MHWS = Mean High Water Springs.
5. MLWS = Mean Low Water Springs.
6. LAT = Lowest Astronomical Tide (water depth reference level).
7. Duct/Pipe length is dependent on the local geological ground conditions, up to 1.6km.
8. Duct/Pipe Punch-out (exit) will depend on further technical studies and design.

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EASTERN GREEN LINK 5 (EGL 5)
 DESIGN AND LAYOUT PLANS - ONSHORE
 ILLUSTRATIVE DRAWING OF
 TYPICAL TRENCHLESS
 METHOD LANDFALL
 FOR STATUTORY CONSULTATION
 SHEET 01 of 01



Drawing Reference			
EGL5-NGET-MAR-XX-DR-YM-0017			
Scale	Sheet Size	Sheet	Issue
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