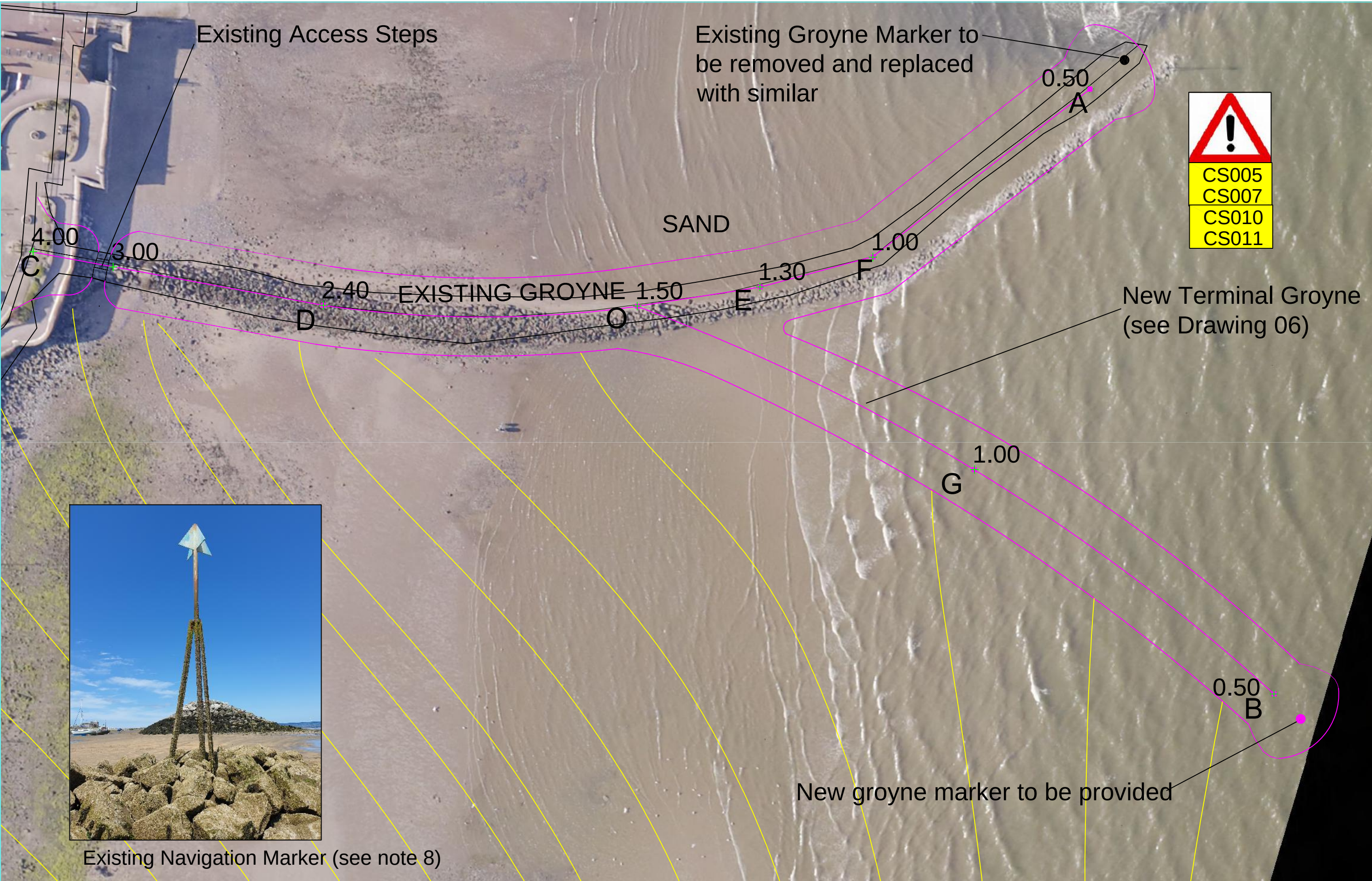
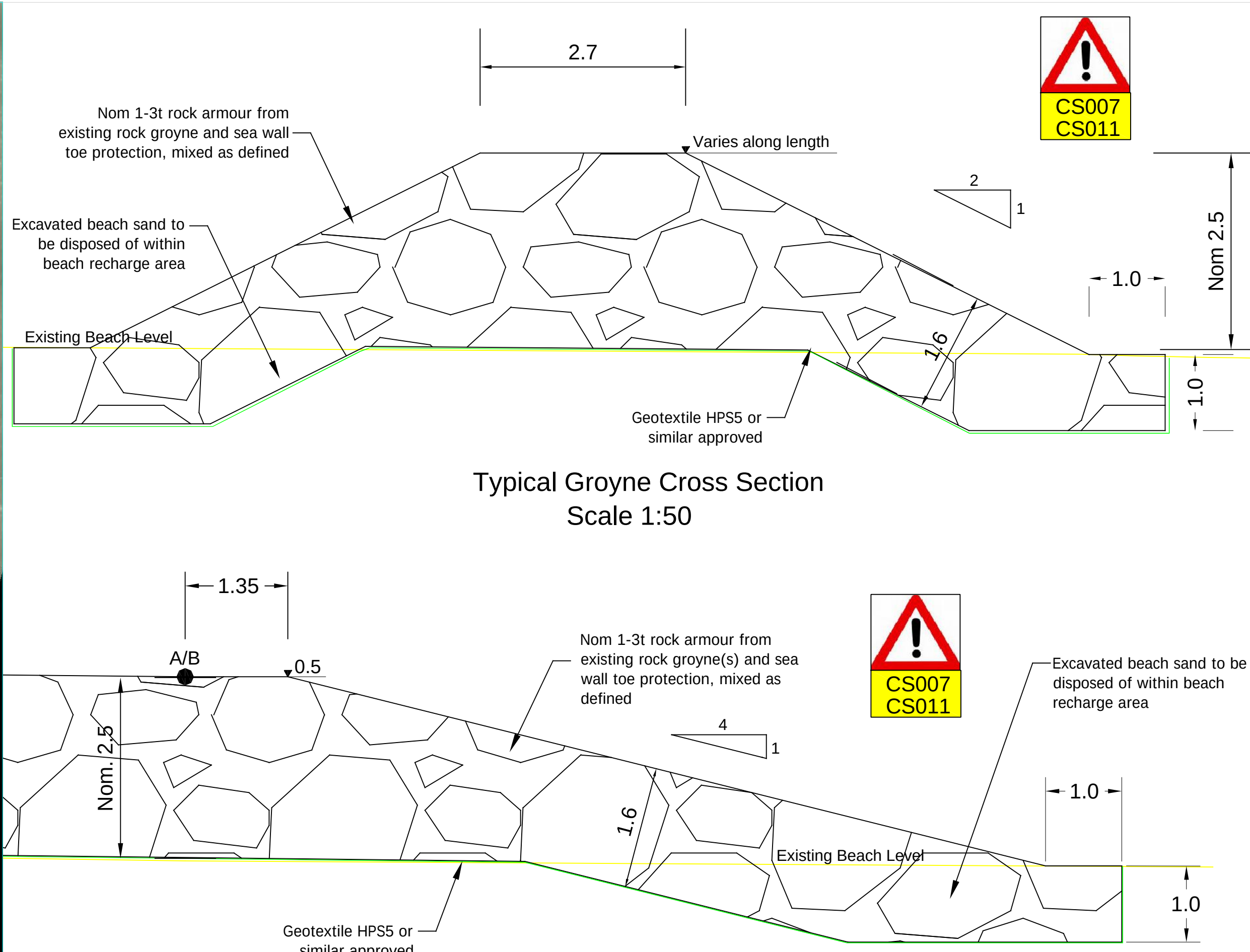
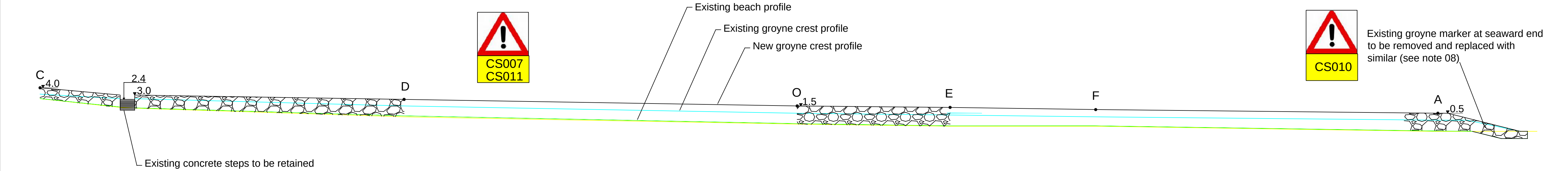




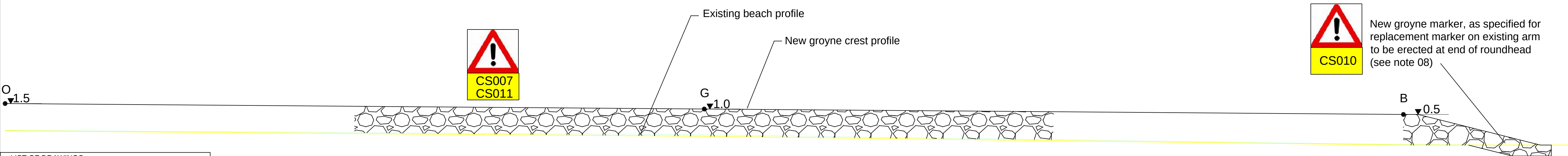
Groyne Layout Plan
Scale 1:600



Groyne Roundhead Detail
Scale 1:50



Groyne Long Section - Existing Arm
Scale 1:300



Groyne Long Section - New Arm
Scale 1:200

LIST OF DRAWINGS	
66-2010-01: Phase 2b - Existing Beach Arrangements	
66-2010-02: Phase 1 - Existing Beach Arrangements	
66-2010-03: Phase 2b - Proposed Beach Arrangements	
66-2010-04: Phase 1 - Proposed Beach Arrangements	
66-2010-05: Typical Beach Recharge Cross Section	
66-2010-06: Rhos-on-Sea Terminal Groyne Modifications	

Notes

- All levels are in metres and are relative to OD (Ordnance Datum). All dimensions in metres unless otherwise stated. Horizontal Control points are relative to the National Grid OSGB36;
- Do not scale from this drawing;
- Existing foreshore levels applying across the frontage vary and those shown, taken from a survey recorded July 2020, are provided for guidance only;
- Representation of Armour Stone Blocks shown are schematic and do not specify or imply exact sizes, shapes or layers of stone to be excavated or placed;
- Structure setting out lines and levels to be established on site, following pre-commencement survey, as Appendix 11/2;
- Existing groyne to be removed and re-constructed in sections, as note 7 below and material stockpiled for re-use prior to new sections of groyne being constructed;
- New groyne construction to be carried out sequentially as follows:
 - New wave arm OB;
 - Existing arm OA;
 - Shore link arm OC.Construction shall commence at the seaward end of each section and proceed in a single working face to completion
- The existing navigation marker comprises a 125mm dia CHS, supported by twin 100mm x 100mm x 6mm steel angle section with bolted connections. The structure is founded on a concrete block located within the exiting armour stone. The existing marker is to be replaced with a similar beacon in the same location and a new marker is to be provided at the seaward end of the new arm. The top mark is to be replaced with a prefabricated Seallite Starboard Hand Top Mark Ref SI-TM1-SH-A. The underside of the topmark shall be set at a minimum level of +6.60m ODN.

SAFETY, HEALTH and ENVIRONMENTAL INFORMATION

The following residual hazards have been identified in the Designer's Hazard Register (ref Works Information)

CS001: Requirement for Regular Beach Management to limit wave overtopping of sea wall to acceptable levels;

CS002: Potential for soft sand impeding access for disabled persons;

CS003: Potential for trip hazards arising from buried railings at access points;

CS005: Potential for siltation at harbour mouth requiring monitoring and clearance;

CS007: Requirement to warn public of dangers of gaining access on/over rock structures;

CS010: Maintenance of Navigation markers;

CS011: Movement of rocks to be monitored and moved/replaced as necessary

2	Drawing List Added	AJW	AD	8/7/21		
1	Notes amended; SHE information added	AJW	AD	6/7/21		
REV	DETAIL	DRAWN	CHECKED	DATE		
PROJECT						
Colwyn Bay Waterfront Phase 2b Coastal Defences						
TITLE						
Rhos-on- Sea Terminal Groyne Modifications						
Coastal Engineering UK Ltd 26 Rhodesway, Wirral, CH61 0HG						
Email: ceuk@coasteng.co.uk Tel: (0151) 558 1956						
DRAWN BY: AJW	CHECKED BY: AD	APPROVED BY: NH	APPROVAL DATE: 08/07/21			
SCALE @ A1: As Shown		CAD File Ref: File: Phase 2b Layout.dwg Layout: 06 Rock Groyne Arrangements				
 						
PROJECT Ref: 100374-CEUK		DRAWING No: 66-2010-06-02-T		REV 2		

File: \\USKSTATION\My Documents\CEUK\Clients\Mott MacDonald\2010 Colwyn Bay Phase 2b\Output\Phase 2b Layout.dwg Layout: 06 Rock Groyne Arrangements Date: Jul 08, 2021 17:30 User: alan