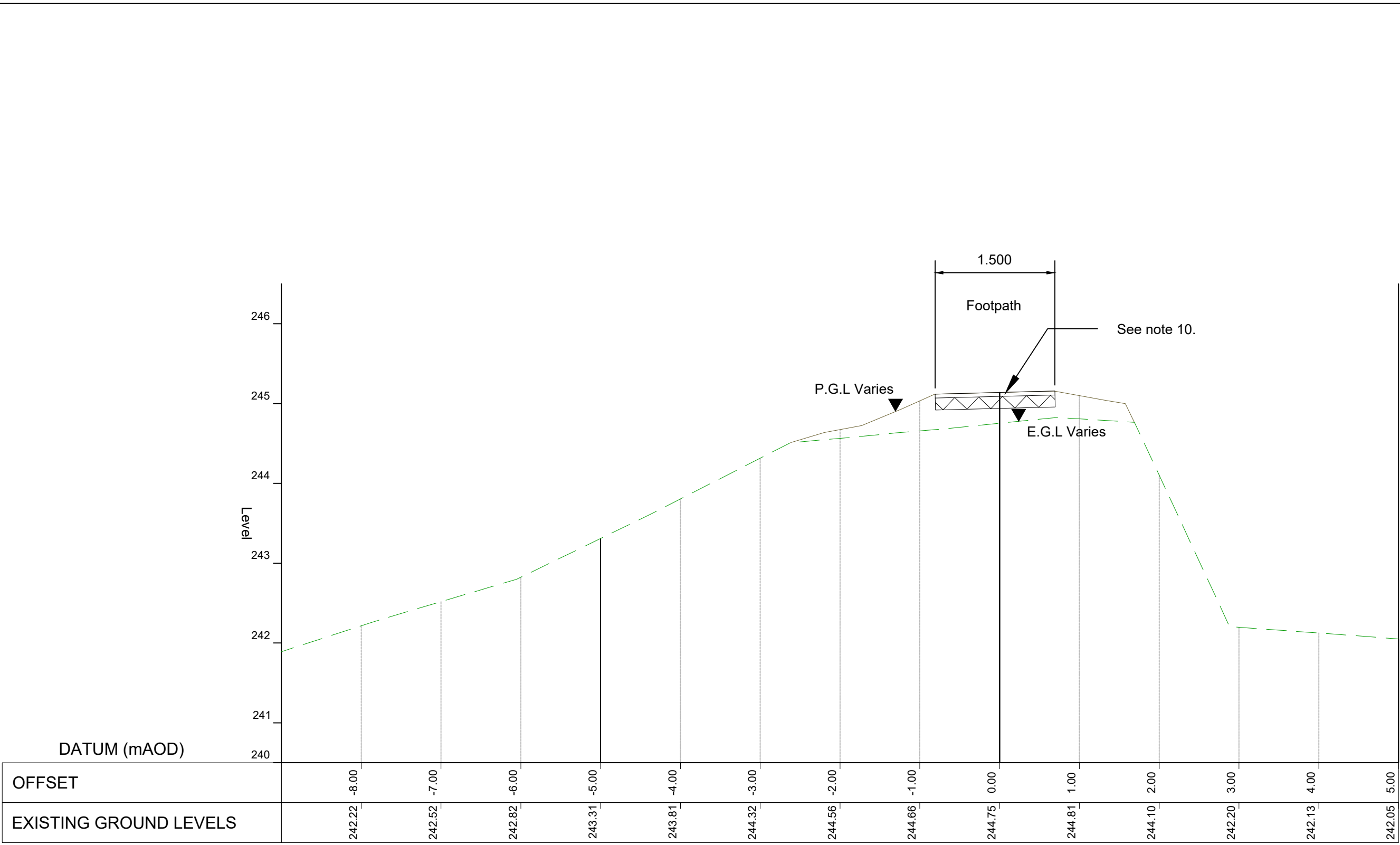
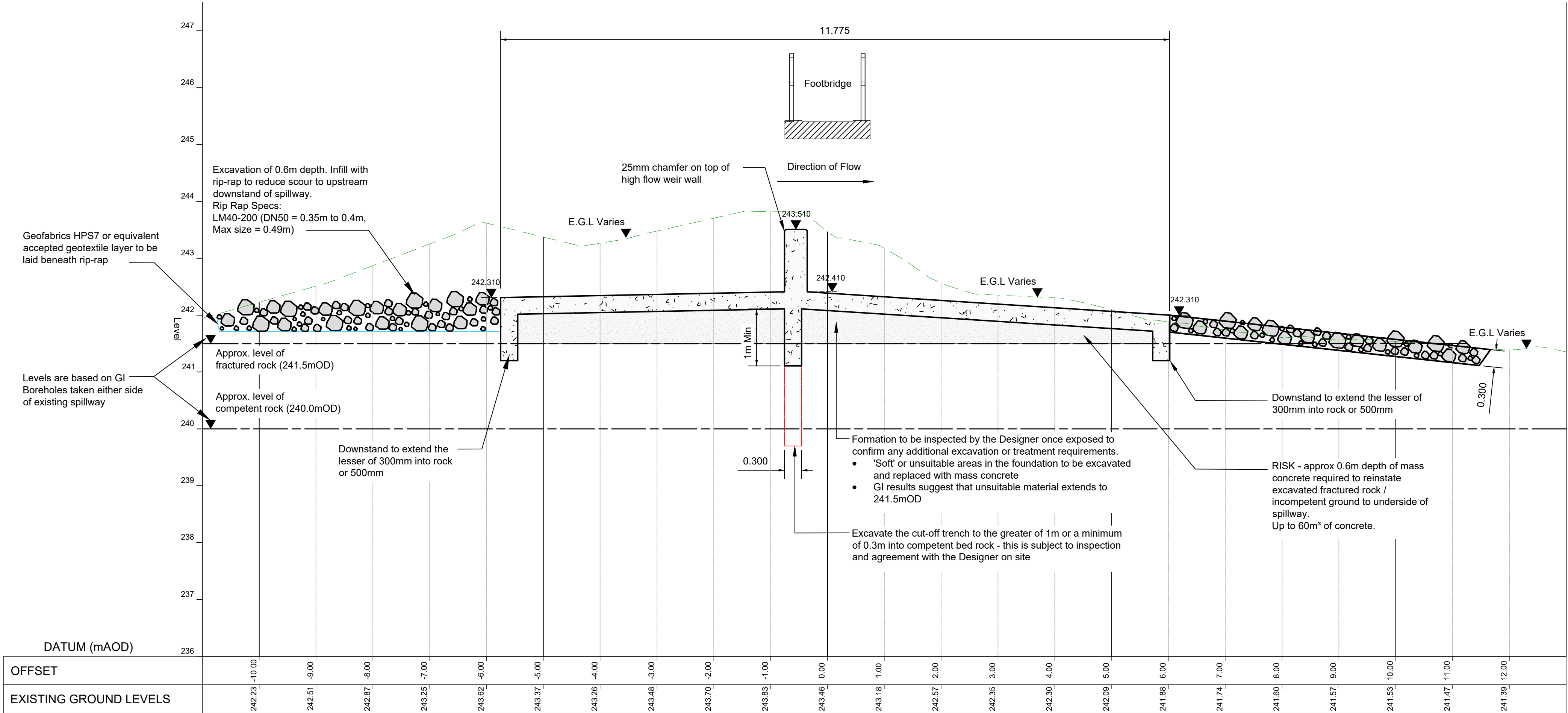




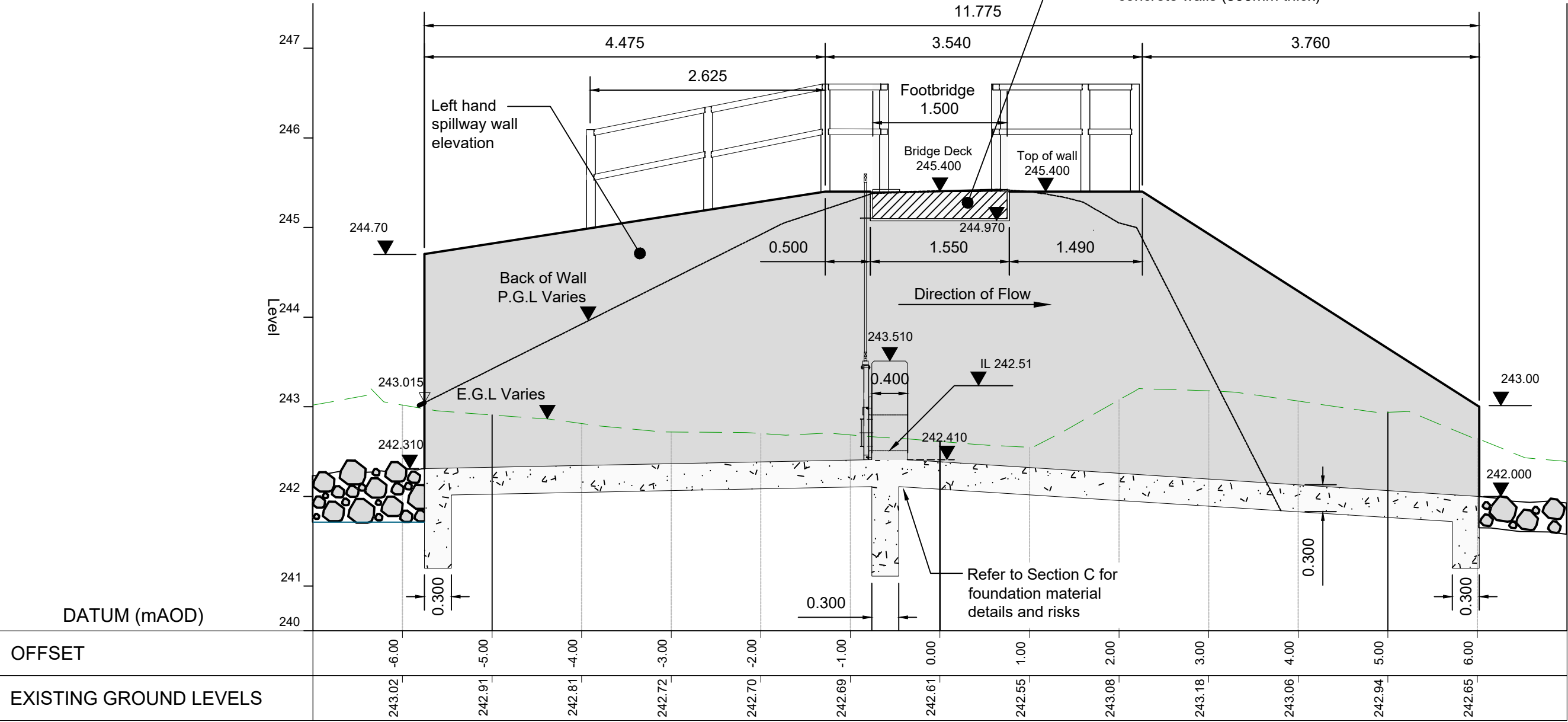
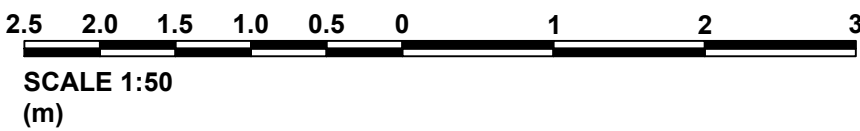
Spillway Path Section A

Scale 1:50



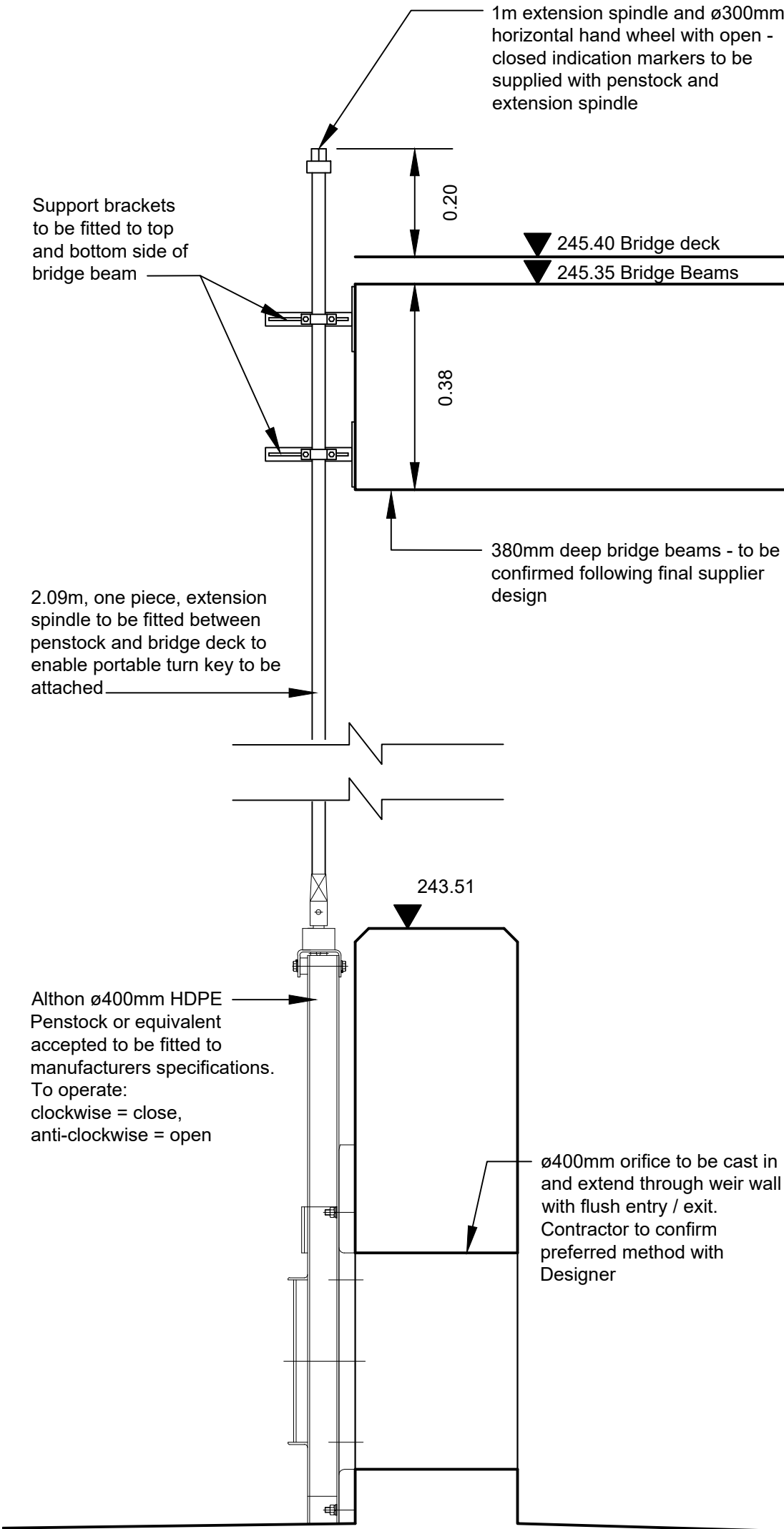
Spillway Long Section C

Scale 1:50



Spillway Section B & Left Hand Wall Elevation

Scale 1:50



Penstock Detail Section

Scale 1:10

- A1**
- Nodiadau / Notes
1. This drawing is to be read in conjunction with all other drawings, specifications and contract documents. Notify the *Project Manager* of any discrepancies.
  2. All dimensions are in metres (m) and Levels are in metres above ordnance datum (mAOD), unless noted otherwise.
  3. Do not scale from drawing, use noted dimensions only.
  4. Existing ground and bathymetric levels are derived from a combination of surveys. Contractor to confirm levels and report any significant disparity to the designer at the start of works.
  5. Concrete grade - C40/50. Assume 100kg/m³ of reinforcement
  6. A minimum of 50mm blinding concrete is to be lain below formation level, ensuring compaction in accordance with Concrete Specifications.
  7. All visible concrete faces to have Exposed Aggregate finish
  8. Bridge to be supplier designed to meet the following specifications:
    - 100% FSC Approved Hardwood
    - Top of handrail 1100mm
    - Load capacity designed to BS EN 1991-2:2003 Section 5
    - Unobstructed internal clear width of 1200mm
  9. Reinstatement of embankment to be well compacted in accordance with Earthworks Specification (maximum 150mm layers) against sloping back of walls
  10. Footpath specification: 150mm 6F1 / Sub base and 50mm thick 6mm to dust layer

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING:

**CONSTRUCTION**

- ⚠️ Dam crest edges are unprotected from falls
- ⚠️ Working near water
- ⚠️ Falls from height
- ⚠️ Works subject to construction flood plan
- ⚠️ Methodology for protecting dam during construction to be agreed with QCE

**MAINTENANCE / CLEANING / OPERATION**

**DECOMMISSIONING / DEMOLITION**

REFER TO THE DESIGNERS RISK REGISTER FOR FURTHER DETAILS. IT IS ASSUMED THAT ALL THE WORKS ON THIS DRAWING WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WHO HAS CARRIED OUT A COMPREHENSIVE RISK ASSESSMENT.

Hanes Fersiwn / Version History

| Issued for Information |            |     |      |      |
|------------------------|------------|-----|------|------|
| Issued for Information | 22-07-2022 | PDH | JF   | DJS  |
| Rev                    | Date       | By  | Chkd | Appd |

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Cleient / Client

**Cyfoeth Naturiol Cymru**  
**Natural Resources Wales**

Enw a Rhif y Proiect CNC / NRW Project Name and Number

**NGCCF-5-000015**

**Llyn Llywelyn Outline and Detailed Design**

Telll Lliniad / Drawing Title

**Proposed Spillway Sections**  
**Sheet 1 of 3**

Graddfa yn A1 / Scale at A1

1:50

Rhan / Role

General

Addaswydd / Suitability

For Information

Rhif y Proiect Arup / Arup Project Number

290007

Rhif y Lliniad / Drawing Number

**290007-ARP-XX-XX-DR-CX-4001**

Status / Status

S2

Adolygiad / Rev

P01