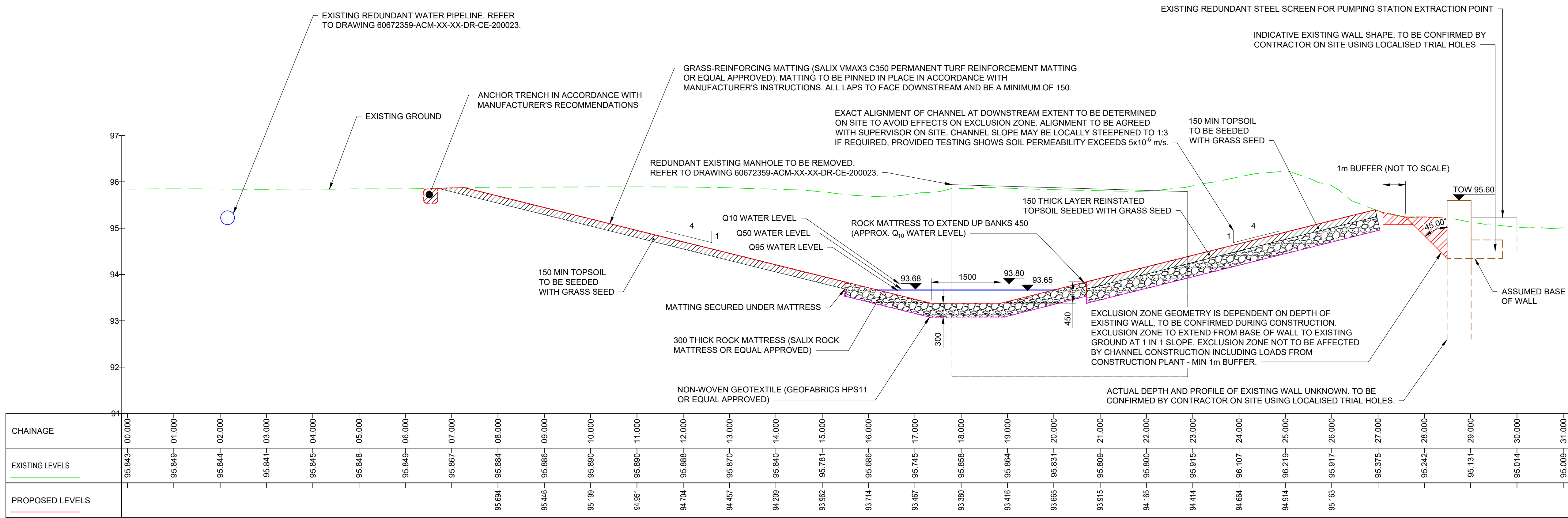
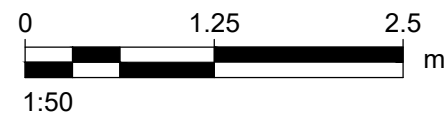


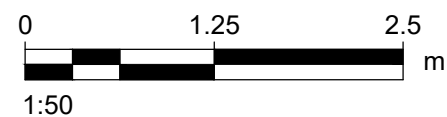
HEAVY BOULDERS
APPROX. MASS 150kg

HEAVY ROCK MATTRESSES
APPROX. MASS 640kg, LENGTH 2m

CHANNEL OUTFALL LONG SECTION
200024 1:50



CHANNEL OUTFALL CROSS SECTION
200024 1:50



PROJECT
HORSESHOE FALLS FISH PASS

CLIENT
NATURAL RESOURCES WALES

CONSULTANT
AECOM
2 City Walk
Leeds, LS11 9AR
+44 (0)113 301 8400 tel
www.aecom.com

- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES ABOVE ORDNANCE DATUM NEWLYN UNLESS STATED OTHERWISE. DO NOT SCALE.
 - LEVELS AND TOPOGRAPHICAL SURVEY DATA ARE BASED A MIXTURE OF SOURCES WITH VARYING LEVELS OF ACCURACY / DETAIL. REFER TO SITE INFORMATION FOR DETAILS. CHANGES MAY HAVE OCCURRED SINCE SURVEYS UNDERTAKEN.
 - FOR PROPOSED GENERAL ARRANGEMENT REFER TO DRAWING 60672359-ACM-XX-XX-DR-CE-200004.
 - DRAWINGS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION FOR HIGHWAY WORKS (S.H.W.) SUPPLEMENTED WITH PROJECT SPECIFIC APPENDICES.
 - CUT FACES AND BASE OF OPEN CHANNEL ARE TO BE INSPECTED BY A COMPETENT GEOTECHNICAL ENGINEER. ANY LOOSE SOILS AND SOFT SPOTS (UNDRAINED SHEAR STRENGTH $c_u < 40kPa$) ON THE FORMATION ARE TO BE REMOVED AND REPLACED WITH COMPACTED CLASS 1A/6N/6P FILL. SOFT SPOTS AND VERY LOOSE SOILS ON THE CHANNEL BANK TO BE TREATED IN THE SAME WAY.
 - AEP = ANNUAL EXCEEDANCE PROBABILITY. CC = ALLOWANCE FOR FLOW INCREASE DUE TO CLIMATE CHANGE. FWL = FLOOD WATER LEVEL. Q10 = THE FLOW EXCEEDED 10% OF THE TIME OVER AN AVERAGE YEAR. Q95 = THE FLOW EXCEEDED 95% OF THE TIME OVER AN AVERAGE YEAR.
 - EXPECTED GROUND CONDITIONS AT THE CULVERT AND CHANNEL LOCATIONS ARE SHOWN ON DRAWINGS 60672359-ACM-XX-XX-DR-GT-200041 AND 200042. DESIGN ASSUMPTIONS ARE SPECIFIED IN THE GEOTECHNICAL DESIGN REPORT. IF GROUND CONDITIONS VARY SIGNIFICANTLY FROM DESIGN ASSUMPTIONS, THE DESIGNER SHOULD BE NOTIFIED PRIOR TO CONTINUING CONSTRUCTION.

KEY

---	EXISTING GROUND
---	CHANNEL INVERT
---	SEPARATION GEOTEXTILE
---	ROCK MATTRESS
---	BOULDERS
---	EXTENT OF GRASS REINFORCING MATTING

ISSUE/REVISION

NO	DATE	DESCRIPTION
C01	01/11/2022	FOR CONSTRUCTION
P01	09/09/2022	WORKING DRAFT FOR INFO
I/R	DATE	DESCRIPTION

PROJECT NUMBER
60672359

SHEET TITLE
HORSESHOE FALLS FISH PASS
OUTLET SECTIONS

SHEET NUMBER
60672359-ACM-XX-XX-DR-CE-200025