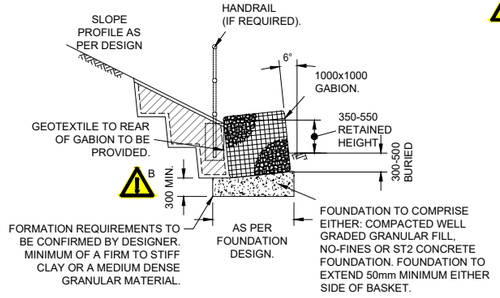
At Original Drawing Size This Line Measures 100mm

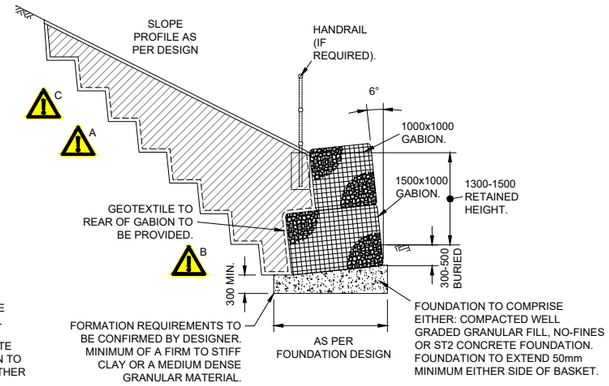
Original Drawing Size A3



GABION RETAINING WALL FOR GRANULAR MATERIALS EMBANKMENT

(RETAINED HEIGHT <540)

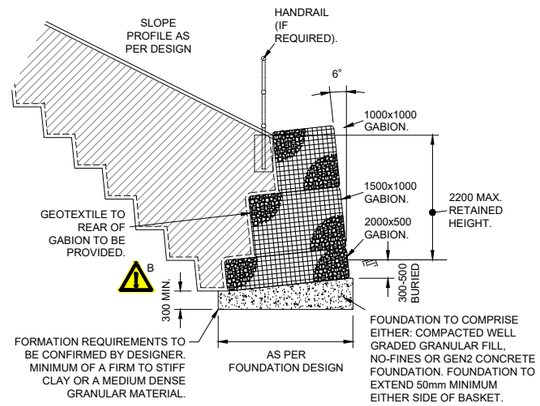
SCALE 1:50



GABION RETAINING WALL FOR GRANULAR MATERIALS EMBANKMENT

(MAXIMUM RETAINED HEIGHT 1500)

SCALE 1:50

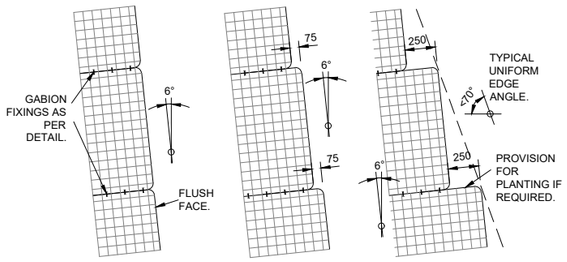


GABION RETAINING WALL FOR GRANULAR MATERIALS EMBANKMENT

(MAXIMUM RETAINED HEIGHT 2200)

SCALE 1:50

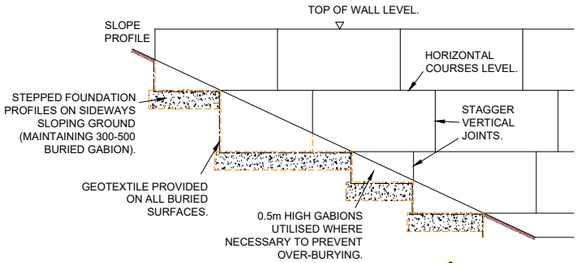
1. UNITS SHOULD NOT OVERLAP UNIT BELOW AT REAR OF WALL.
2. EXPOSED FACES OF GABIONS TO BE HAND PACKED.
3. WHEN MORE THAN ONE VERTICAL LAYER, GABIONS TO BE SLIGHTLY OVERFILLED TO ALLOW FOR NATURAL SETTLEMENT.
4. TOP SURFACE TO BE EVENLY LEVELED TO MINIMISE VOIDS BETWEEN UNITS.



FLUSH FACE TYPICAL STEPPED FRONT FACE

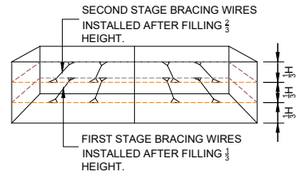
TYPICAL GABION WALL FACE ALIGNMENT CROSS-SECTIONS

SCALE 1:25



TYPICAL ELEVATION

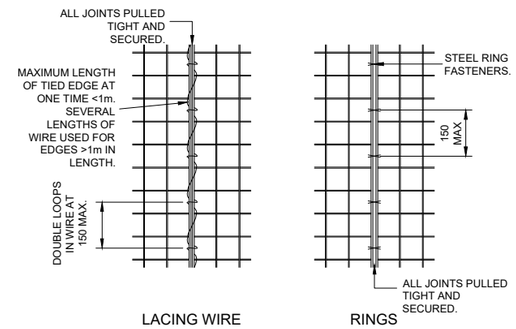
SCALE 1:50



GABION BASKET BRACING WIRES FOR 1m HIGH UNITS

END UNITS REQUIRE BRACING IN TWO DIRECTIONS

SCALE 1:50

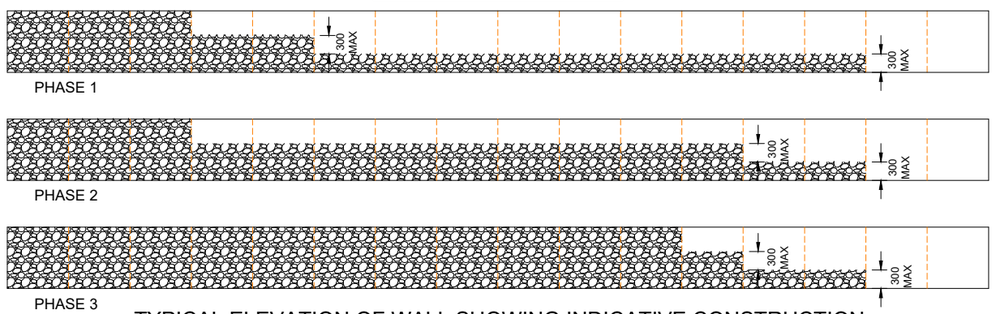


LACING WIRE RINGS

GABION BASKET FIXING DETAILS

SCALE 1:10

FILL LAYER SHALL NEVER BE MORE THAN 300mm HIGHER THAN ADJOINING COMPARTMENTS TO AVOID OVERLOADING PANELS.



TYPICAL ELEVATION OF WALL SHOWING INDICATIVE CONSTRUCTION SEQUENCE

SCALE 1:50

NOTES :

A1	FOR GENERAL NOTES SEE DRG NR/CIV/SD/200.
A2	FOR GENERIC HAZARD IDENTIFICATION, REFER TO DRG NR/CIV/SD/200 TABLE 1. DESIGNER TO COMPILE SITE SPECIFIC HAZARD IDENTIFICATION.
B	FOUNDATION
B1	NO FINES CONCRETE TO HAVE NOMINAL 20 OR 40mm SINGLE-SIZE AGGREGATE. AGGREGATE TO CEMENT RATIO TO BE 8 TO 1 BY VOLUME AND MAXIMUM CEMENT RATIO 0.27.
B2	CONCRETE TO BE IN ACCORDANCE WITH BS8500 AND EN 206-1.
B3	A GRANULAR FILL FOUNDATION SHALL HAVE A MINIMUM CHARACTERISTIC PHI VALUE OF 35°.
C	GABION SPECIFICATION
C1	GABION FILL MATERIAL TO BE HIGHWAY AGENCY CLASS 6G GRADED BETWEEN 100 AND 200mm.
C2	GABION BASKETS TO BE CONSTRUCTED FROM GALVANISED RIGID WELDED WIRE WESH. MESH THICKNESS 4.0mm. MESH SIZE 75X75mm. ALTERNATIVE GABION BASKET MATERIALS MAY BE PROPOSED BY THE DESIGNER IN A PROJECT SPECIFIC FORM A / FORM B SUBMISSION.
C3	ON AC ELECTRIFIED LINES GABIONS SHALL BE ELECTRICALLY BONDED AND EARTHED IN ACCORDANCE WITH NETWORK RAIL COMPANY STANDARD NR/SP/ELP/21085.
D	INSTALLATION GUIDANCE
D1	ALL GABIONS TO BE ASSEMBLED, FILLED AND JOINED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. TYPICAL BEST PRACTICE INSTALLATION METHODS ARE SHOWN ON THIS DRAWING.
D2	THE FRONT FACE OF GABIONS TO BE HAND PACKED TO CREATE DRY STONE WALL APPEARANCE. GABIONS SHALL BE CONSTRUCTED TO HAVE BULGE OR DEPRESSION NOT GREATER THAN 1 IN A 100 OVER ANY VERTICAL OR HORIZONTAL DIMENSION OF AN INDIVIDUAL BASKET.
D3	EXCAVATIONS TO CONSIDER THE STABILITY OF THE SLOPE ABOVE AT ALL TIMES (TRENCH EXCAVATION, BENCH BACKING, TOE EXCAVATION). OPEN LENGTHS MAYBE LIMITED. METHOD OF CONSTRUCTION TO BE ASSESSED BY THE DESIGNER. BACKFILLING TO START IMMEDIATELY FOLLOWING EXCAVATION.
D4	GEOTEXTILE FILTER TO MAKE DIRECT CONTACT WITH THE SLOPE SURFACE/BEHIND THE GABION AND TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
D5	CLASS 6N GRANULAR BACKFILL TO BE COMPACTED BEHIND THE GABION WALLS. OTHER CLASSES OF BACKFILL CAN BE CONSIDERED FOR USE BEHIND THE WALL SUBJECT TO THE NECESSARY LABORATORY CLASSIFICATION AND STRENGTH TESTS AND WALL STABILITY DESIGN.

⚠? REFER TO DRAWING NR-CIV-SD-200 FOR SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

Computer File No. C:\Users\NRR0280\Desktop\Worksheetz specification task\NEW DRAWING OCTOBER\NEW 600 SERIES 2.dwg

Notes

IWP No.					
	CAD	Drawn	Checked	Approved	
Initials	RR	RR	-	-	
Date	10/23	10/23	04/10	-	
Sht No.	1 OF 1				
Scales	NTS				

Drg. No. HST-600-001

Rev. A

Project Title: HCC STANDARD DETAIL DRAWINGS

Drawing Title: TYPICAL GABION RETAINING WALLS

Hertfordshire

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