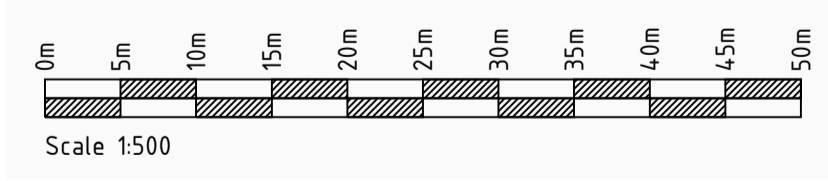


- Legend**
- Existing Features**
    - Hedgerow
    - Dismantled Railway
    - Watercourse
  - Proposed Mitigation**
    - Semi Natural Woodland Mix
    - Semi Native Woodland Screening Mix
    - Shrub / Scrub Planting
    - Wet Woodland Planting
    - Ornamental Planting
    - Bulbs
    - Native Hedgerow
  - Other Features**
    - Specimen Trees (Light Standard)
    - Feathered Trees
    - Conservation Grassland (Mix MGS)
    - Wildflower Seeding (Special Meadow Mix)
    - Agricultural Grassland (Mix EG26)
    - Wet Grassland
    - Grass Verges (Mix EG22)
    - Suds Attenuation Basin
    - New Agricultural Access and Recreation Routes
    - Footpath
    - Engineering Earthworks
    - Landscape Earthworks
    - Land Made Available

- ROAD DEFINITION LEGEND**
- Trunk Road
  - N Ayrshire Council Road
- LANDS MADE AVAILABLE
  - Servitude for the purposes of construction and maintenance of drainage works.
  - Servitude over Network Rail operational land for the construction and maintenance of bridge works and road works.
  - Access over Network Rail land shall be subject to agreement
  - LMA by the local authority for the new road lighting and safety barrier works.

AS BUILT DRAWING



Rev.	Description	App By	Date
-	AS BUILT	[redacted]	12.03.20

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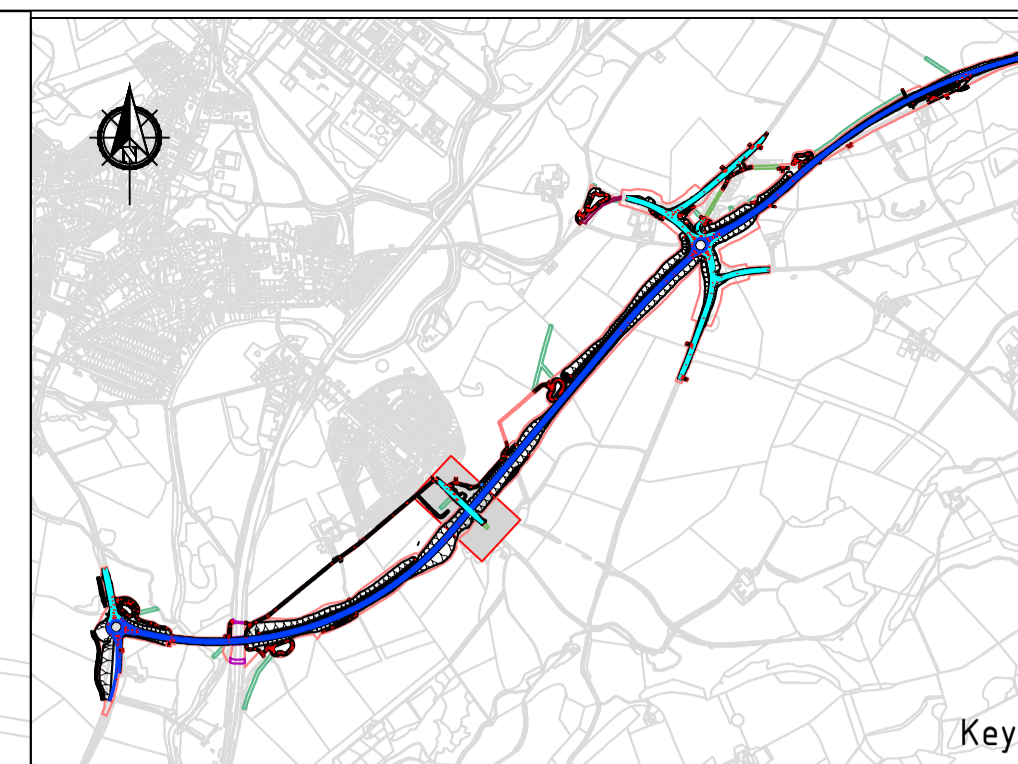
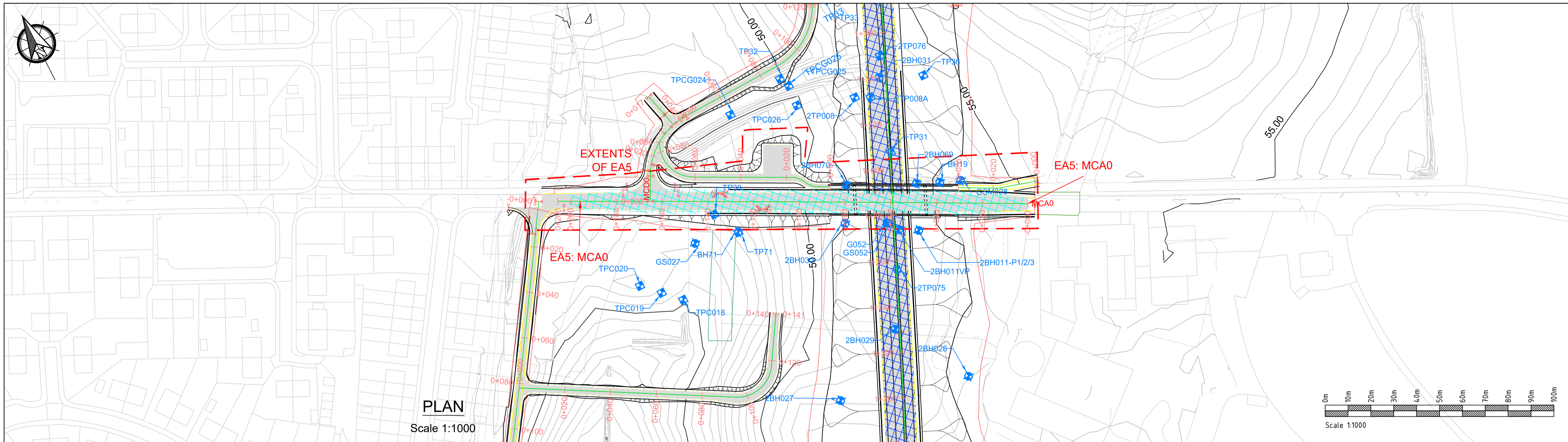
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PROJECT	A737 DALRY BYPASS
SHEET	LANDSCAPING SHEET 6

CLIENT		<b>FARRANS ROADBRIDGE</b> CIVIL ENGINEERING & BUILDING CONTRACTORS	
Date	JULY 2019	Project number	P0954
Drawn by	[redacted]	Drawing Number	P0954-3000-0006
Checked by	[redacted]	Scale (@ A1-)	1:500
		Rev	-

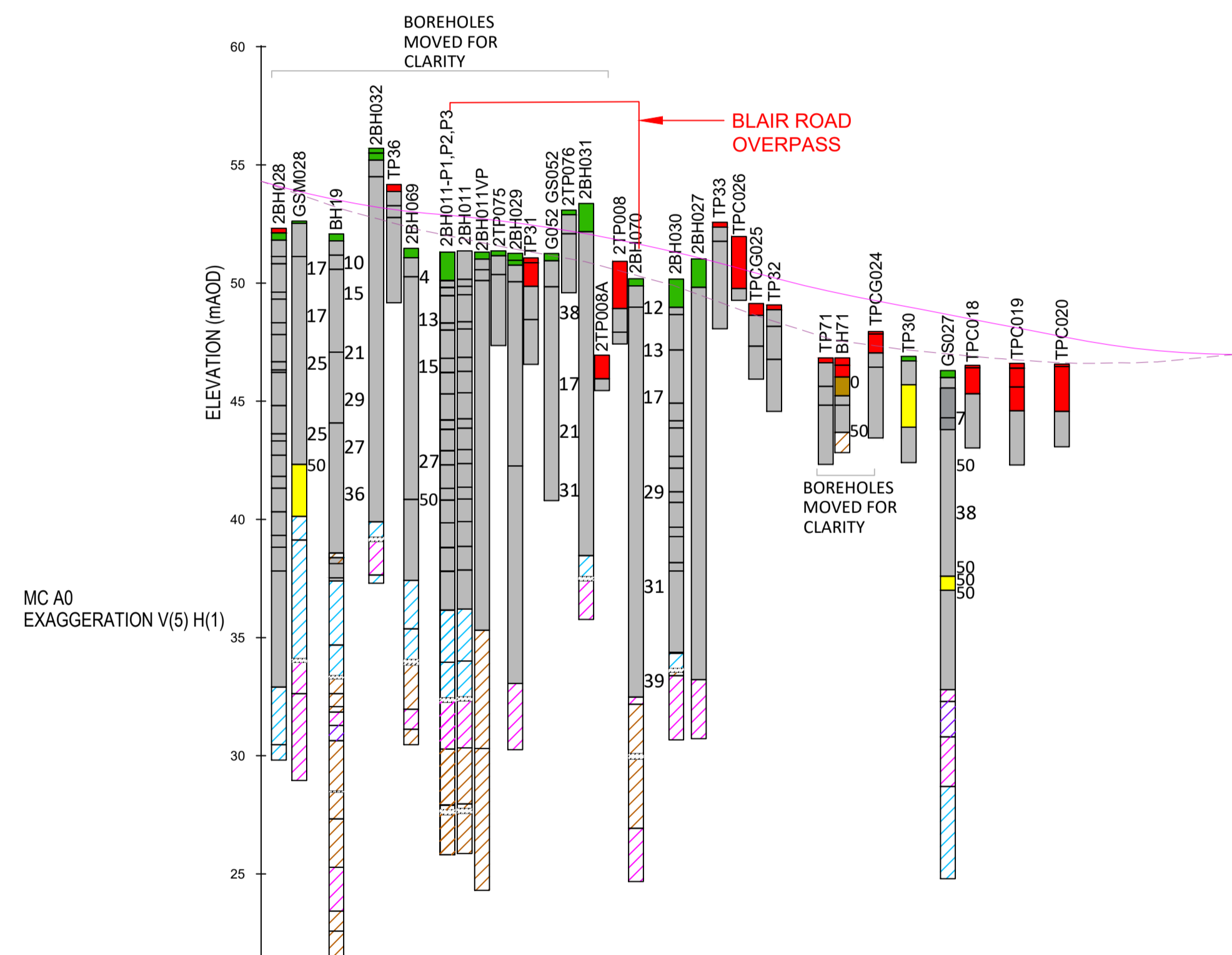
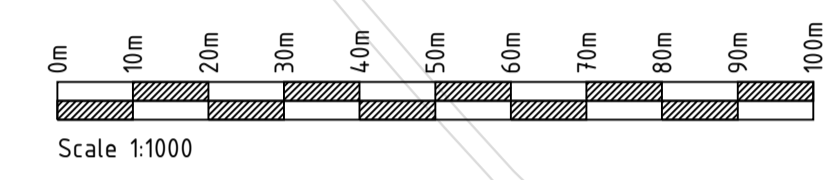
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### LEGEND

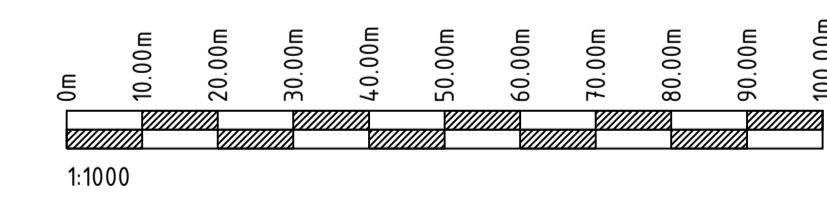
---	EXISTING GROUND LEVEL
---	PROPOSED LEVEL
---	EXTENTS OF EARTHWORKS AREA
█	TOPSOIL
█	MADE GROUND
█	PEAT
█	COAL
█	LIMESTONE
█	MUDSTONE
█	ALLUVIUM - COHESIVE
█	ALLUVIUM - GRANULAR
█	GLACIAL - COHESIVE
█	GLACIAL GRANULAR
█	SANDSTONE
█	SILTSTONE
█	SPT N VALUE
█	BOREHOLES MOVED FOR CLARITY
█	SETTLEMENT PLATES (SED502)

**PLAN**  
Scale 1:1000



CHAINAGE (m)	PROPOSED LEVEL (mAOD)	GROUND LEVEL (mAOD)	SIDE SLOPE DETAILS	STANDARD EARTHWORKS DETAILS (SED)	DESIGN CBR AT SUBFORMATION / FORMATION LEVEL
0+000	54.30	54.30		SED 103, SED 201	2.5%
0+020	53.37	52.97	1(V):2(H)	SED 202, SED 206	
0+040	52.86	51.99		BLAIR ROAD OVERPASS	
0+060	52.37	51.21			
0+080	51.65	50.29			
0+100	50.69	48.98			
0+120	49.67	47.66	1(V):2(H)	SED 103, SED 201, SED 202, SED 206	3%
0+140	48.88	47.11			
0+160	48.11	46.75			
0+180	47.37	46.62			
0+200	47.01	46.86			
0+206	46.98	46.97			2.5%

**LONGITUDINAL SECTION**  
Scale 1:1000 Horizontal, 1:200 Vertical



- For details of geometric setting out refer to drawing Series 0000 and Appendix 1/12.
- The Earthworks General Arrangement drawings should be read in conjunction with the Earthwork Standard Detail Drawings, Series 600 Specification Appendices and Geotechnical Design Report.
- Topsoil shall be removed prior to embankment construction or pavement construction in areas of cutting or at grade. All earthworks are to be topsoiled other than rock cuttings (SED 101).
- The formation of all areas shall then be inspected by a competent and qualified engineer/engineer geologist. Any pockets of poor or silty material exposed and not anticipated in the design shall be excavated and replaced by either Class 1 or 2 fill as instructed by the designer's representative (SED 202/SED 203/SED 205). The formation level of all the earthworks must be rolled.
- Full details on classes of material and their properties are given in Standard Earthwork Detail drawings and Specification Appendix 6/1.
- An observational approach is to be adopted for soil cuttings during and following construction. If persistent seepages are evident or higher groundwater than anticipated manifests itself slope drainage may be instructed by the DSR. This will require to be tied into the road drainage network.
- For pre-earthworks cut-off ditches and filter drains at the limits of all earthworks refer to series 500 drawings.
- Design CBRs quoted are based on the assumption that either site won Class 1 or Class 2 fills may be used to construct embankments. This will require to be re-assessed if other materials are used or improvement layers incorporated.  
10% CBR - Class 1 Fill  
3% CBR - Class 2C1 Fill  
Refer to Appendix 6/7 & SED 211 for further details of CBR options for embankment fill and cuttings.
- Refer to drawing Series 700 and Appendix 7/1 for details of pavement construction including capping and sub-base thickness.
- For type of tests and testing frequency on road foundation refer to Appendix 6/7, 1/5, Clause 631 and Appendix 6/12.
- Earthwork to structures are not shown on this drawing and reference should be made to relevant 1700 Series structure drawings.
- Settlement plates to be placed on embankment formation level.

AS BUILT DRAWING

Rev.	Description	App By	Date
-	AS BUILT	[redacted]	20.0719

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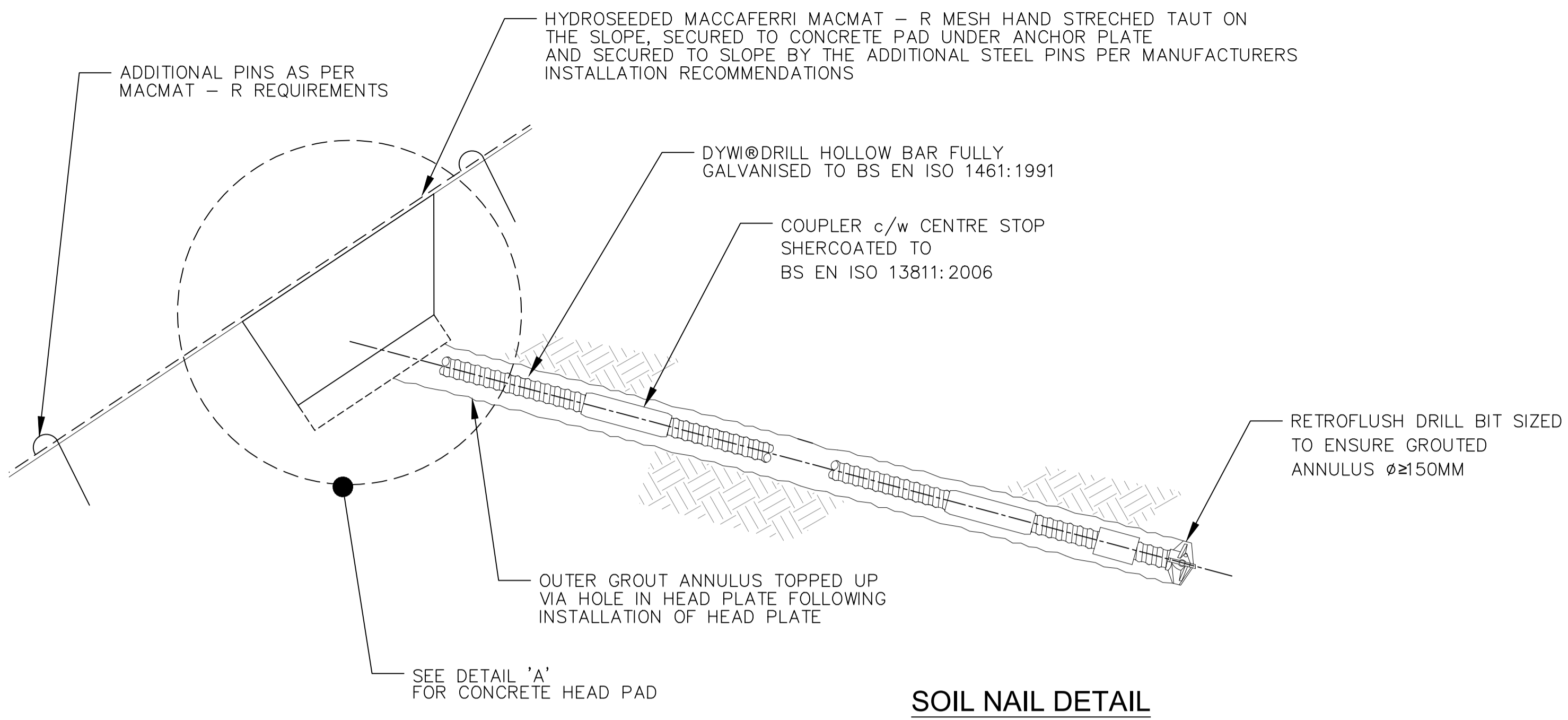
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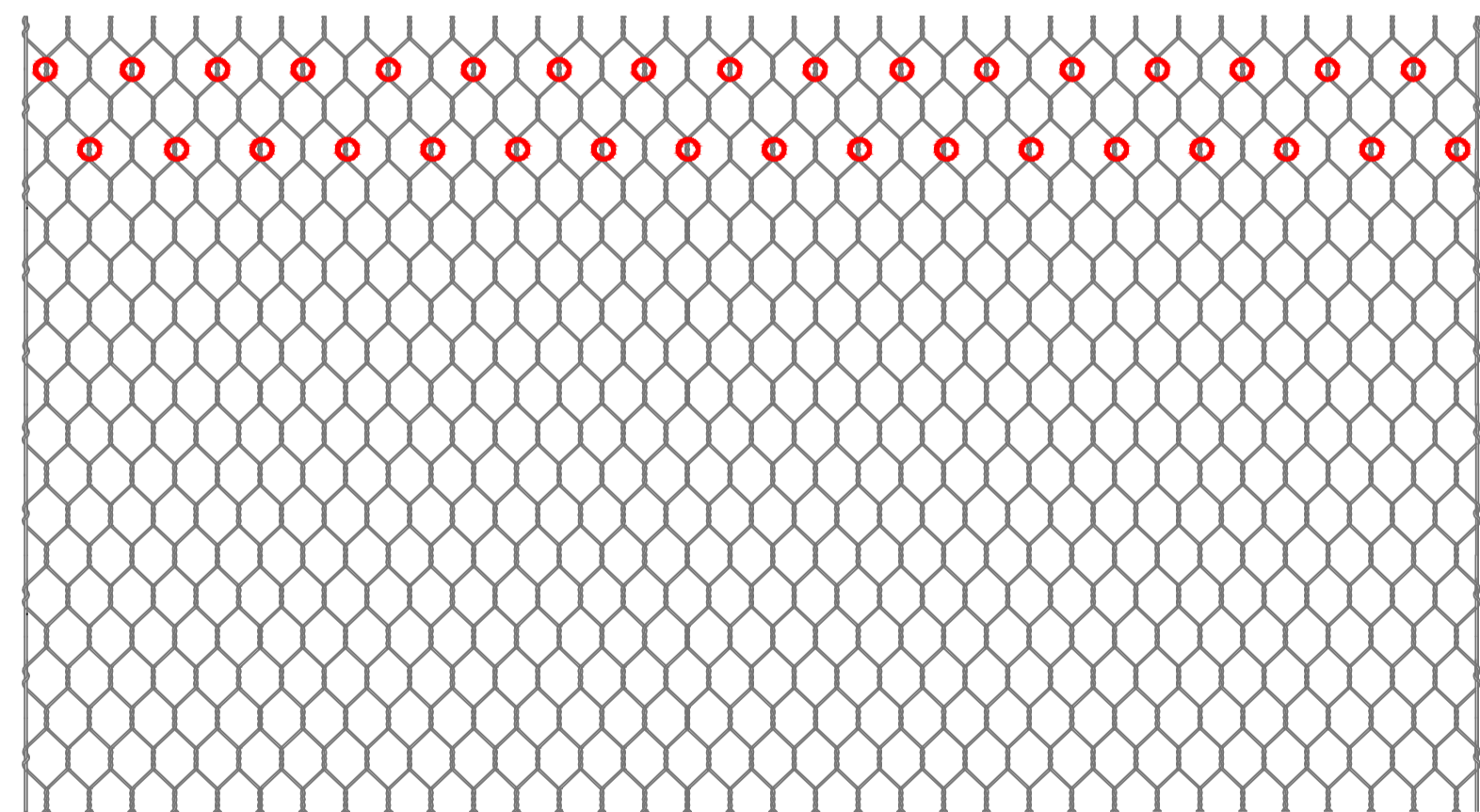
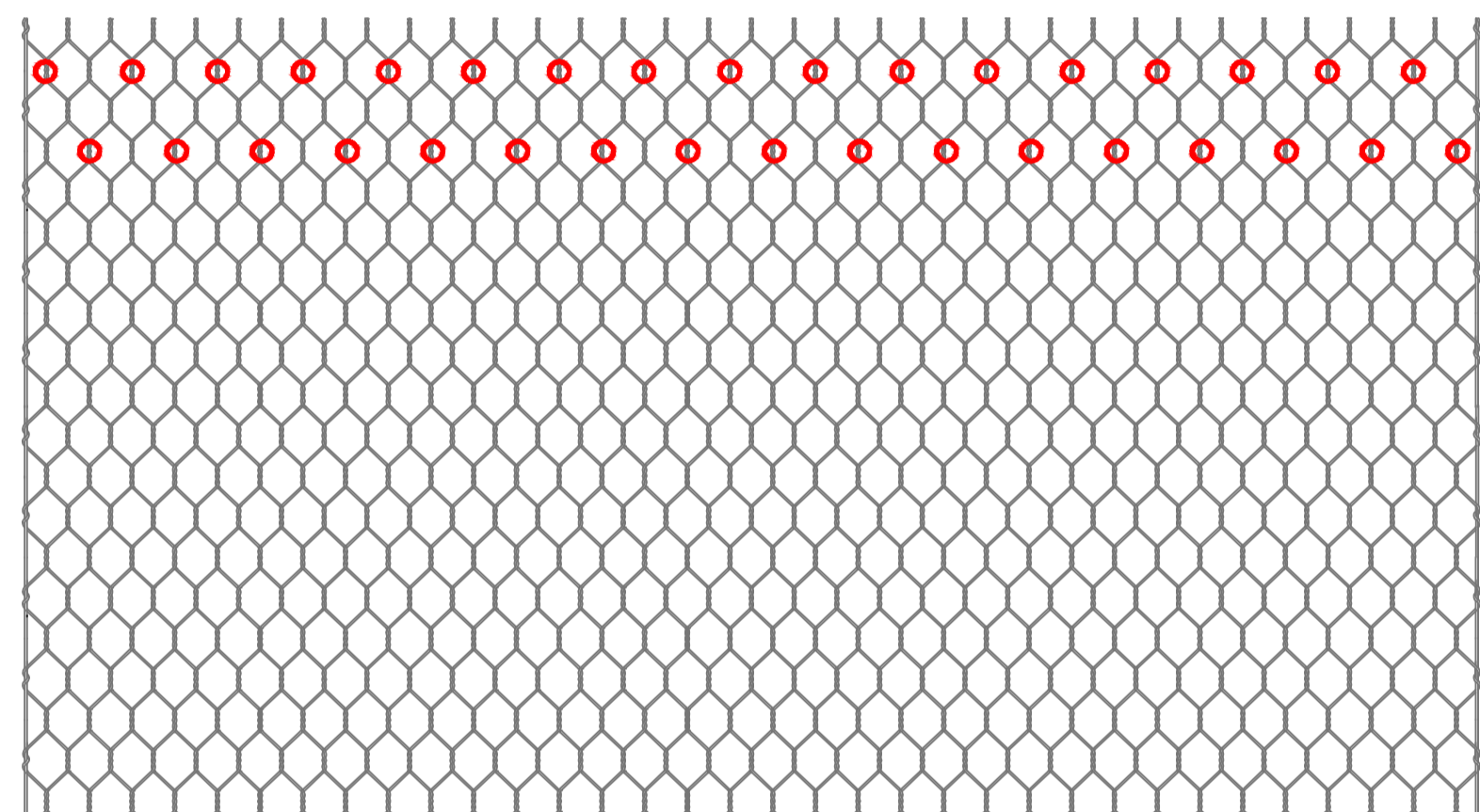
CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			AS BUILT

PROJECT	<b>A737 DALRY BYPASS</b>
SHEET	<b>GEOLOGICAL LONG SECTION EARTHWORKS AREA 5</b>

<b>FARRANS</b>		<b>ROADBRIDGE</b> CIVIL ENGINEERING & BUILDING CONTRACTORS	
Date	JULY 2019	Project number	P0954
Drawn by	[redacted]	Drawing Number	P0954-0600-0005
Checked by	[redacted]	Scale (@ A1 )	AS SHOWN
		Rev	-

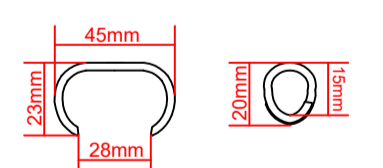


**SOIL NAIL DETAIL**  
Scale: NTS

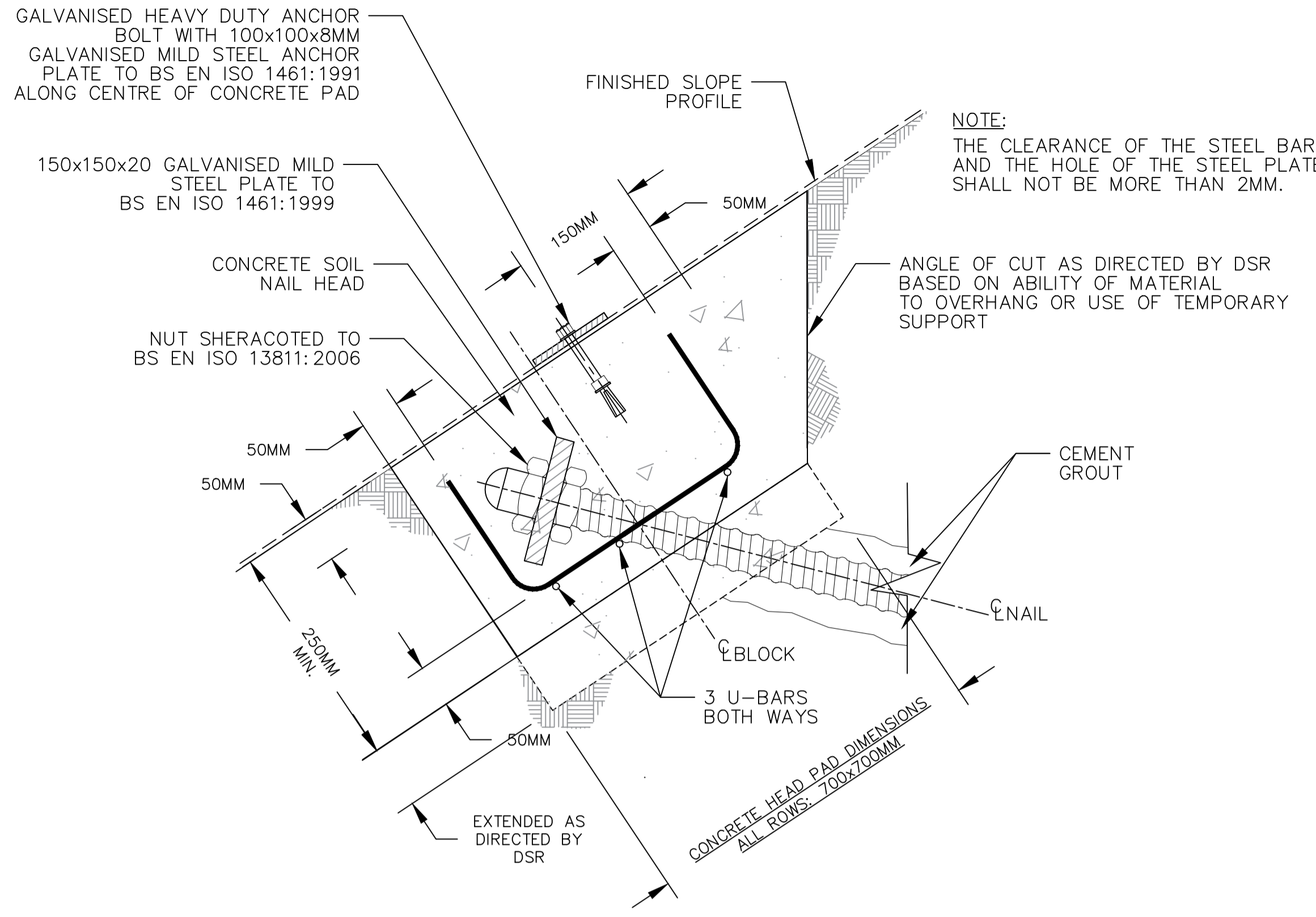


RED CIRCLES SHOW INDICATIVE LAYOUT OF 2 NO. ROWS OF SPENAX "C" RINGS. RINGS SPACED AT EVERY OTHER MESH APERTURE - A MINIMUM TOTAL OF 34 RINGS FOR 2M WIDTH ROLLS. RINGS TO BE SPACED EVENLY ACROSS OVERLAP AND LOCATED AT LEAST ONE COMPLETE APERTURE FROM FREE END OF THE ROLL.

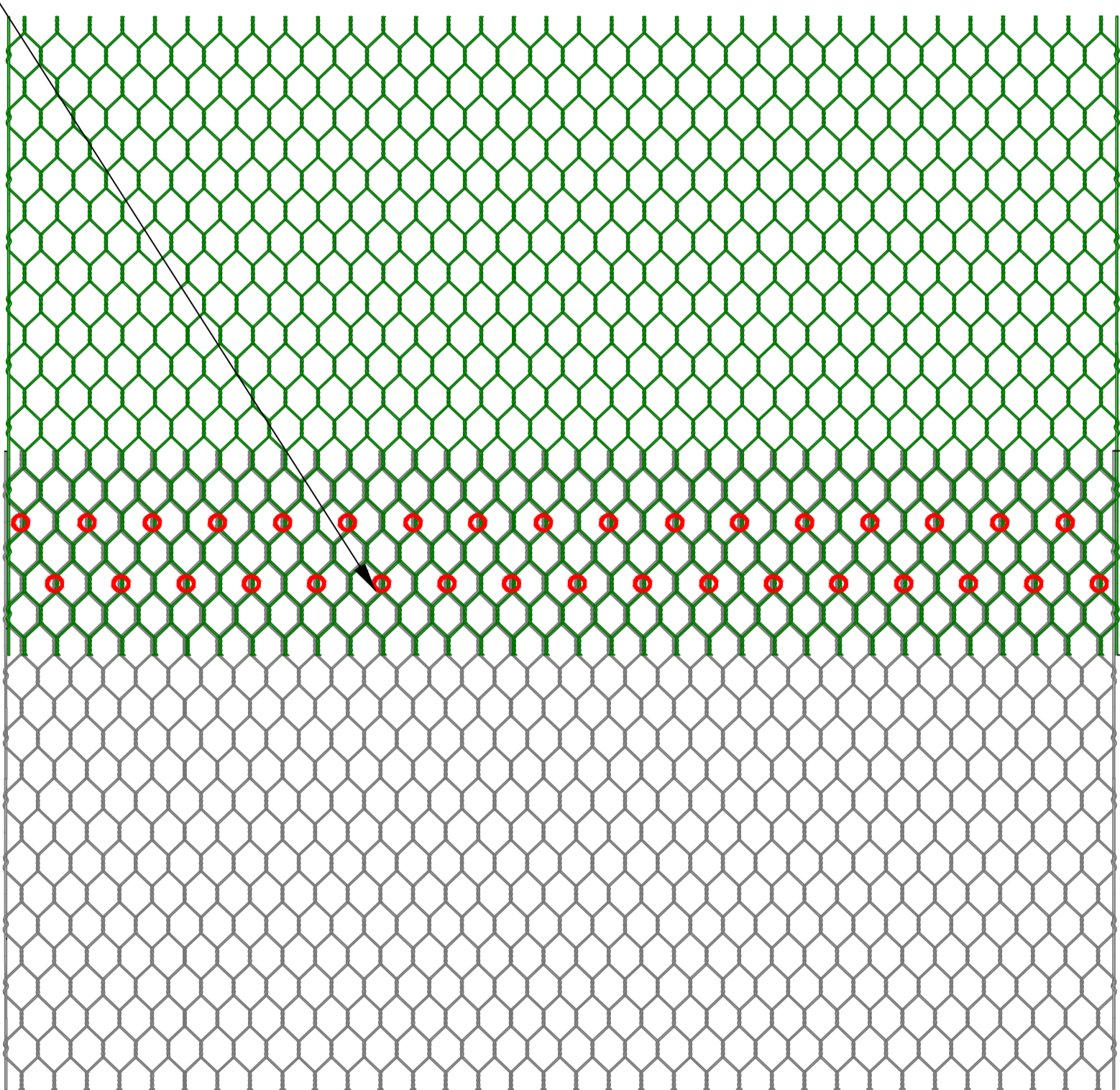
SPENAX "C" RING SPECIFICATION  
HIGH TENSILE RING WIRE = Ø3,00 mm  
SERVICABILITY LOAD (CLOSED): 2550N



**STANDARD UK MACMAT - R ROLLS 6X8 2.2MM PVC**  
Scale 1:10



**DETAIL 'A' SHOWING CONCRETE HEAD PAD**  
Scale: NTS



- NOTES:**
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
  2. ALL LEVELS ARE IN METERS ABOVE ORDNANCE DATUM (AOD).
  3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, STANDARD EARTHWORK DETAILS AND NOTES.
  4. CLASS 1 / CLASS 2 GENERAL FILL SHALL COMPLY WITH SPECIFICATION APPENDIX 6/1 AND CLAUSE 601 OF THE SPECIFICATION FOR HIGHWAY WORKS.
  5. ALL MATERIAL TO BE PLACED AND COMPACTED IN ACCORDANCE WITH CLAUSE 612 & TABLE 6/4 OF THE SPECIFICATION FOR HIGHWAY WORKS.
  6. EMBANKMENT FOUNDATIONS SHALL COMPLY WITH SPECIFICATION APPENDIX 6/3 AND CLAUSE 604 AND 608 OF THE SPECIFICATION FOR HIGHWAY WORKS.
  7. DEPTH OF EXCAVATION TO ENSURE REMOVAL OF ALL ORGANIC OR SOFT/LOOSE MATERIAL BENEATH EMBANKMENT TO BE DIRECTED BY DESIGNERS SITE REPRESENTATIVE (DSR), UNLESS OTHERWISE SPECIFIED IN THE GEOTECHNICAL DESIGN REPORT AND ON THE EARTHWORKS GENERAL ARRANGEMENT DRAWINGS.
  8. WHERE FILLING BELOW WATER, CLASS 6A TO BE USED TO A LEVEL OF 250mm ABOVE THE GROUND WATER TABLE.
  9. TOPSOIL AND ORGANIC SOILS TO BE REMOVED OVER THE FULL EXTENT OF ALL EARTHWORKS FOUNDATIONS, EXCEPT WHERE STATED OTHERWISE.
  10. SOFT SPOTS BENEATH EMBANKMENTS SHALL BE EXCAVATED AND BACKFILLED TO STANDARD EARTHWORK DETAIL SED 202. ABANDONED WATERCOURSES SHALL BE TREATED TO SED 205. EXISTING PONDS AND WATER FILLED DEPRESSIONS SHALL BE TREATED TO SED 203.
  11. WHERE THE SLOPE OF EXISTING GROUND BELOW EMBANKMENTS EXCEEDS 1:5 VERTICAL-HORIZONTAL, BENCHING SHALL BE CARRIED OUT TO SED 206.
  12. EMBANKMENT CONSTRUCTION SHALL COMPLY WITH SPECIFICATION APPENDIX 6/3 AND CLAUSE 612 OF THE SPECIFICATION FOR HIGHWAY WORKS.
  13. EXCAVATION OF CUTTINGS SHALL COMPLY WITH SPECIFICATION APPENDIX 6/3 AND CLAUSE 603 OF THE SPECIFICATION FOR HIGHWAY WORKS.
  14. INSTALLATION OF ANY DRAIN AT THE TOE OF A CUTTING SHALL BE UNDERTAKEN TO ENSURE THE ADJACENT EARTHWORKS REMAIN STABLE DURING INSTALLATION. THE LENGTH OF OPEN EXCAVATION SHALL BE RESTRICTED TO SUIT THE GROUND CONDITIONS (TYPICALLY 10m LENGTH), AS SPECIFIED BY THE DESIGNERS SITE REPRESENTATIVE (DSR).
  15. THE CONDITION OF ALL ROCK CUTTINGS SHALL BE ASSESSED BY THE DESIGNER IMMEDIATELY FOLLOWING EXCAVATION.
  16. THE CONTRACTOR SHALL NOTIFY THE DESIGNER OF ANY SEEPAGE PRESENT IN EARTHWORKS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL DRAINAGE MEASURES TO INTERCEPT AND DISCHARGE SEEPAGE.
  17. GEOTEXTILES USED FOR SEPERATORS SHALL COMPLY WITH SPECIFICATION APPENDIX 6/5 AND CLAUSE 609 OF THE SPECIFICATION FOR HIGHWAY WORKS.
  18. IMPROVEMENT LAYER AND CAPPING CONSTRUCTION SHALL COMPLY WITH SPECIFICATION APPENDIX 6/7 AND CLAUSE 613 OF THE SPECIFICATION FOR HIGHWAY WORKS. FORMATIONS ON ROCK SHALL COMPLY WITH CLAUSE 616.
  19. INSTRUMENTATION AND MONITORING SHALL COMPLY WITH SPECIFICATION APPENDIX 6/12.
  20. ALL FINAL CUT SLOPES IN SOIL SHALL BE AS SHOWN ON THE EARTHWORKS DETAIL.
  21. THE CREST OF EARTHWORK SLOPES SHALL BE ROUNDED TO STANDARD EARTHWORK DETAIL SED 103.
  22. CUT AND FILL INTERFACES SHALL BE CONSTRUCTED TO STANDARD EARTHWORK DETAIL SED 102.
  23. THE DESIGNER OR DESIGNERS SITE REPRESENTATIVE (DSR) SHALL PROVIDE ADDITIONAL DETAILS AS APPROPRIATE, TO THE LOCATION & EXTENT OF THE STANDARD EARTHWORKS DETAILS FOLLOWING SITE INSPECTION AND EXPOSURE OF EARTHWORKS DETAILS.
  24. REFER TO RELEVANT INSTRUMENTATION AND MONITORING DRAWINGS FOR LOCATIONS OF MONITORING POINTS.
  25. ROCK CUTS <math>\le 50^\circ</math> SHALL BE DESIGNED AND CONSTRUCTED TO EXPLOIT NATURAL FISSURES WHERE BLASTING IS REQUIRED.
  26. BLASTING SHALL WHERE REQUIRED TAKE KARST AND VOIDS RISK INTO ACCOUNT.
  27. FOR DEFINITION OF "COMPETENT ROCK" AND "OVERBURDEN", ROCK TRAP DIMENSIONS AND ROCK TRAP SAFETY FENCE, REFER TO TRL ROCK ENGINEERING GUIDE TO GOOD PRACTICE - ROCK SLOPE EXCAVATION.
  28. INSTRUMENTATION PROTECTION MEASURES ARE TO BE CONFIRMED ON SITE BY THE DSR.

AS BUILT DRAWING

Rev.	Description	App By	Date
-	AS BUILT	[redacted]	20.0719

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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
-	-	-	AS BUILT

PROJECT: **A737 DALRY BYPASS**

SHEET: **SOIL NAILING DETAILS**

CLIENT: **FARRANS ROADBRIDGE CIVIL ENGINEERING & BUILDING CONTRACTORS**

Date: **JULY 2019** Project number: **P0954** Scale (@ A1) **AS SHOWN**

Drawn by: [redacted] Drawing Number: **P0954-0601-0014** Rev: **-**

Checked by: [redacted]