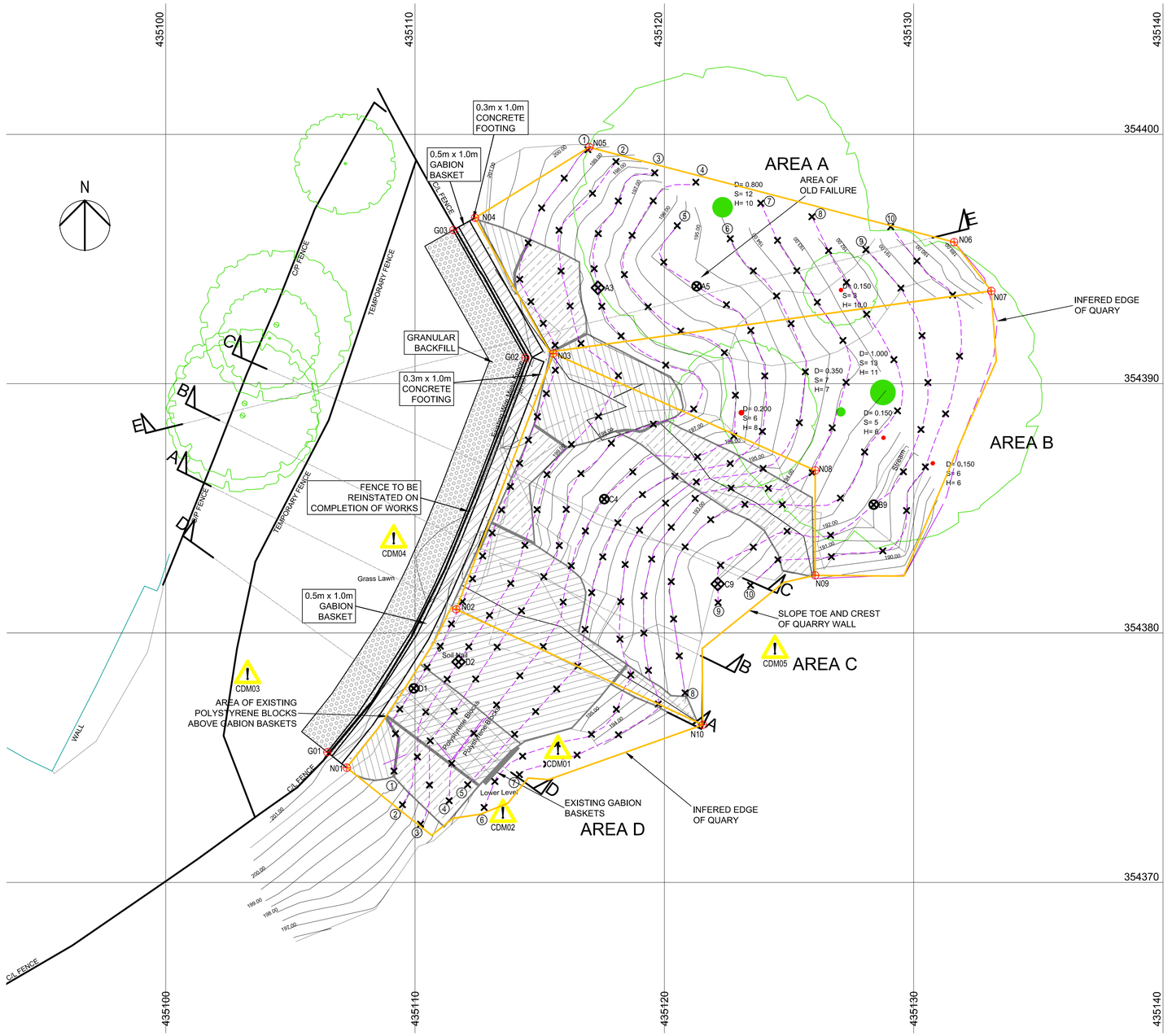
ISO A1 594mm x 841mm

SOIL NAIL DIMENSIONS SCHEDULE

	ROW NUMBER	ELEVATION (mAOD)	EMBEDDED NAIL LENGTH (m)	NAIL INCLINATION (deg.)	HORIZONTAL SPACING (m)	MIN. NOMINAL OUTSIDE BAR DIA. (mm)	APPROXIMATE NUMBER OF NAILS
TABLE 1	1	199.5	2.3	15	1.0 Directly below gabions 1.5 away from gabions	38	8
AREA A	2	198.5	3.3	15	1.5	38	6
	3	197.5	4.5	15	1.5	38	6
	4	196.5	6.3	15	1.5	38	6
	5	195.5	8.5	15	1.5	38	4
	6	194.5	11.2	15	1.5	38	3
	7	193.5	11.75	15	1.5	38	4
	8	192.5	8.75	15	1.5	38	3
	9	191.5	5.75	15	1.5	38	2
	10	190.5	2.75	15	1.5	38	3
TABLE 2	1	199.5	N/A				
AREA B	2	198.5	5.75	15	2	38	1
	3	197.5	5.75	15	2	38	2
	4	196.5	5.75	15	2	38	2
	5	195.5	5.75	15	2	38	3
	6	194.5	5.75	15	2	38	3
	7	193.5	5.75	15	2	38	3
	8	192.5	5.75	15	2	38	5
	9	191.5	5.75	15	2	38	6
	10	190.5	5.75	15	2	38	6
TABLE 3	1	199.5	8.75	15	1.0 directly below gabion	38	11
AREA C	2	198.5	11.75	15	1.5	38	7
	3	197.5	11.75	15	1.5	38	7
	4	196.5	11.75	15	1.5	38	7
	5	195.5	11.75	15	1.5	38	8
	6	194.5	11.75	15	1.5	38	8
	7	193.5	11.75	15	1.5	38	10
	8	192.5	8.75	15	1.5	38	8
	9	191.5	5.75	15	1.5	38	4
	10	190.5	2.75	15	1.5	38	2
TABLE 4	1	199.5	11.75	15	1.0 Directly below gabions 1.5 away from gabions	38	7
AREA D	2	198.5	11.75	15	1.5	38	5
	3	197.5	11.75	15	1.5	38	6
	4	196.5	11.75	15	1.5	38	4
	5	195.5	11.75	15	1.5	38	4
	6	194.5	5.75	15	1.5	38	6
	7	193.5	2.75	15	1.5	38	4
	8	192.5	N/A				
	9	191.5	N/A				
	10	190.5	N/A				



SETTING OUT POINTS

POINT	REFERENCE	EASTING (m)	NORTHING (m)	LEVEL (mAOD)
G01	GABION	435106.48	354375.22	199.7
G02	GABION	435114.43	354391.04	199.7
G03	GABION	435111.53	354396.16	199.7
N01	SOIL NAIL FACING	435107.25	354374.60	199.6
N02	SOIL NAIL FACING	435111.65	354380.95	199.6
N03	SOIL NAIL FACING	435115.55	354391.21	199.6
N04	SOIL NAIL FACING	435112.40	354396.65	199.6
N05	SOIL NAIL FACING	435116.99	354399.48	199.5
N06	SOIL NAIL FACING	435131.62	354395.68	189.0
N07	SOIL NAIL FACING	435133.11	354393.72	189.0
N08	SOIL NAIL FACING	435126.05	354386.52	193.5
N09	SOIL NAIL FACING	435126.05	354382.31	189.5
N10	SOIL NAIL FACING	435121.54	354376.32	192.0

CDM RISKS

REF.	FEATURE, ELEMENT, PROCESS OR WORK ACTIVITY.	CONSTRAINTS AND SIGNIFICANT HAZARDS IDENTIFIED	DESIGNER'S INTERVENTIONS TO ELIMINATE OR REDUCE HAZARDS	INFORMATION TO BE PROVIDED TO ENABLE PROJECT PARTNERS TO MANAGE HAZARDS
CDM01	REMOVAL OF FAILING MATERIAL AND GRADING OF SLOPE	RISK OF FALLS FROM HEIGHT DUE TO WORKING ON OR AT CREST OF STEEP SLOPE AND QUARRY WALL. RISK OF FALLS FROM HEIGHT DUE TO FURTHER FAILURE OF SLOPE DURING WORKS. RISK OF INJURY TO PLANT OR PERSONNEL AT QUARRY BASE FROM FALLING MATERIAL.	PLANT TO BE KEPT CLEAR DISTANCE FROM SLOPE CREST WHEREVER POSSIBLE. SPECIFICATION THAT FAILING MATERIAL IS REMOVED FROM THE CREST DOWN TO PREVENT REMOVAL AND TOE MATERIAL LEADING TO SUDDEN FAILURES. SPECIFICATION THAT AREA IS DEMARCATED AT QUARRY BASE TO PREVENT FALLING MATERIAL FROM STRIKING PLANT OR PERSONNEL.	CONTRACTOR TO DETERMINE MOST SUITABLE METHOD OF REMOVAL OF FAILING MATERIAL. CONTRACTOR TO DEMARCATE AREA AT QUARRY BASE WHERE NO PLANT OR PERSONNEL ACCESS IS PERMITTED WHILE WORKS ARE UNDERTAKEN ON THE SLOPE.
CDM02	REMOVAL OF POLYSTYRENE BLOCKS	RISK OF FALLS FROM HEIGHT DUE TO WORKING ON OR AT CREST OF STEEP SLOPE AND QUARRY WALL. RISK OF FURTHER FAILURE IF REMOVAL OF BLOCKS CAUSES ADDITIONAL INSTABILITY IN SLOPE. RISK OF INJURY TO PLANT OR PERSONNEL AT QUARRY BASE FROM FALLING MATERIAL.	PLANT TO BE KEPT CLEAR DISTANCE FROM SLOPE CREST WHEREVER POSSIBLE SPECIFICATION THAT WHERE POSSIBLE, EXISTING SOIL NAILS AND NETTING TO REMAIN IN SITU. SPECIFICATION THAT AREA IS DEMARCATED AT QUARRY BASE TO PREVENT FALLING MATERIAL FROM STRIKING PLANT OR PERSONNEL.	CONTRACTOR TO DETERMINE MOST SUITABLE METHOD OF REMOVAL OF POLYSTYRENE BLOCKS. CONTRACTOR TO DEMARCATE AREA AT QUARRY BASE WHERE NO PLANT OR PERSONNEL ACCESS IS PERMITTED WHILE WORKS ARE UNDERTAKEN ON THE SLOPE.
CDM03	ACCESS TO CREST OF FAILURE	RISK OF INJURY TO SITE PERSONNEL OR PEDESTRIANS DURING MOVEMENT OF PLANT THROUGH CONSTRAINED PRIVATE RESIDENTIAL AREA TO CREST OF FAILURE.	SPECIFICATION THAT SITE COMPOUND IS LOCATED IN QUARRY BASE TO LIMIT MOBILISATION IN PRIVATE RESIDENTIAL AREA.	CONTRACTOR TO ENSURE THAT SUITABLE PLANT IS SELECTED FOR WORK AT THE SLOPE CREST.
CDM04	GABION WALL CONSTRUCTION	RISK OF INJURY TO PLANT OR PERSONNEL AT QUARRY BASE FROM FALLING GABION FILL. RISK OF INJURY TO SITE PERSONNEL OR PEDESTRIANS DURING TRANSPORT OF FILL MATERIAL TO SLOPE CREST.	LIMITED SCOPE TO REDUCE HAZARDS.	CONTRACTOR TO ENSURE SAFE SYSTEM OF WORK IS IN PLACE FOR WORKING AT CREST OF SLOPE.
CDM05	MOBILISATION AT QUARRY FLOOR LEVEL	RISK OF DAMAGING LANDFILL CAPPING DURING REMOVAL OF MATERIAL AT BASE OF QUARRY WALL OR DURING CONSTRUCTION OF ROADWAYS, WHICH COULD LEAD TO LEAKING OF LANDFILL MATERIAL. RISK OF DAMAGING STANDPIPES LOCATED AROUND QUARRY BASE POTENTIALLY LEADING TO LEAKING OF LANDFILL MATERIAL.	SPECIFICATION THAT NO MATERIAL IS TO BE TAKEN FROM THE EXISTING QUARRY FLOOR LEVEL.	ROLLS-ROYCE TO CHECK LANDFILL CLOSURE PERMIT AND LIAISE WITH RELEVANT PARTIES FOR WHAT ACTIVITIES ARE ACCEPTABLE ON REMEDIATED LANDFILL. CONTRACTOR TO ENSURE SAFE SYSTEM OF WORK IS IN PLACE FOR WORKING ON REMEDIATED LANDFILL. CONTRACTOR TO IDENTIFY AND PROTECT STANDPIPES IN PROXIMITY TO WORK AREA PRIOR TO MOBILISATION OF PLANT AT QUARRY BASE.

KEY
- SOIL NAIL (WITH INDICATIVE CONTOUR)
- REGRADE TO 1V:2H MAX STEEPNESS
- REGRADE TO 1V:1H MAX STEEPNESS
- AREA TO BE STRIPPED OF FAILED MATERIAL AND POLYSTYRENE BLOCKS
- EXTENT OF SOIL NAIL FACING AND BOUNDARIES OF AREAS A, B, C AND D
- AREA OF EXISTING POLYSTYRENE BLOCKS
- EXISTING CONTOURS
- NAIL ROW
- SACRIFICIAL TEST NAIL
- PRODUCTION TEST NAIL
- SETTING OUT POINT
- CDM RISK (CDM05)

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AECOM

PROJECT

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NOTES

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3. ALL DIMENSIONS IN MILLIMETRES, ALL CHAINAGES, LEVELS AND COORDINATES ARE IN METRES UNLESS DEFINED OTHERWISE.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECT HEALTH & SAFETY FILE FOR ANY IDENTIFIED POTENTIAL RISKS.
5. SEE DRAWING 210 FOR CONSTRUCTION DETAILS. SEE DRAWING 211 FOR CROSS SECTIONS
6. SOIL NAIL LOCATIONS SHOWN ARE INDICATIVE ONLY BASED ON ASSUMED REGRADED PROFILE. EXACT LOCATIONS WILL VARY ON SITE DEPENDING ON REGRADING ACHIEVED
7. SACRIFICIAL SOIL NAILS FOR PULL-OUT TEST DO NOT FORM PART OF THE PERMANENT WORKS.
8. SEE SPECIFICATION FOR DETAILS OF TESTING. LOCATIONS MAY ONLY BE VARIED WITH THE PERMISSION OF THE DESIGNER.
9. NAILS MAY BE RELOCATED LOCALLY TO AVOID TREES WITH PERMISSION FROM AECOM.
10. AREAS WITH EXISTING TOPSOIL AND VEGETATION COVER ARE TO HAVE VEGETATION STRIPPED BACK TO GROUND LEVEL AND NAILED AND FACED WITH THE TOPSOIL LEFT INSITU.
11. THE EXISTING MESH FACING IS TO BE REMOVED IN THE AREA OF WORKS, BUT RETAINED TO THE SOUTH OF THE WORKS. THE MESH TO BE REMOVED IS TO BE SEPARATED FROM THE MESH TO BE RETAINED AT THE EDGE OF A PANEL, AND THE NEW FACING SYSTEM CLIPPED TO IT IN AN APPROPRIATE MANNER.
12. INDIVIDUAL NAILS MAY BE REPOSITIONED LATERALLY BY UP TO 0.5m TO AVOID OBSTRUCTIONS AND CLASHES IN LOCATION WITH NAILS IN ADJACENT ROWS. NAILS SHOULD ALWAYS BE SPACED BETWEEN 1.0m MIN. AND 2.0m MAX. APART.
13. ROCKHEAD IS ANTICIPATED TO RISE MOVING SOUTH THROUGH AREAS C AND D. THE LOWER ROWS OF NAILS MAY ENCOUNTER ROCKHEAD IN THESE AREAS AT RELATIVELY SHALLOW DEPTH. AECOM SHALL BE CONSULTED WHERE THIS OCCURS.
14. SEE SPECIFICATION FOR DETAILS OF TEST NAILS.

REVISION DETAILS	BY / CHECK	DATE	SUFFIX
First Issue	SDW / TP	06.11.2020	P01

PROJECT MANAGEMENT INITIALS

DESIGNED: TP CHECKED: EB APPROVED: IMS

INTERNAL PROJECT NUMBER 60638839

SCALE 1 : 100

STATUS FOR TENDER

BS1192 SUITABILITY

SHEET TITLE

GENERAL ARRANGEMENT (3 OF 3)
REMEDIAL WORKS PLAN

DRAWING NUMBER 60638839-GEO-DR-203

REV P01

Last saved by: GARY J COOPER(2020-11-06) Last Plotted: 2020-11-06
Filename: L:\60\61\6595 CRICH (HILTS) QUARRY ROLLS ROYCE\2-0 PROJ INFO\2-3 DOCS\2-3-1 DRAFT DOCS\CAD DATA\60638839_GEO_DR_203_P01.DWG