





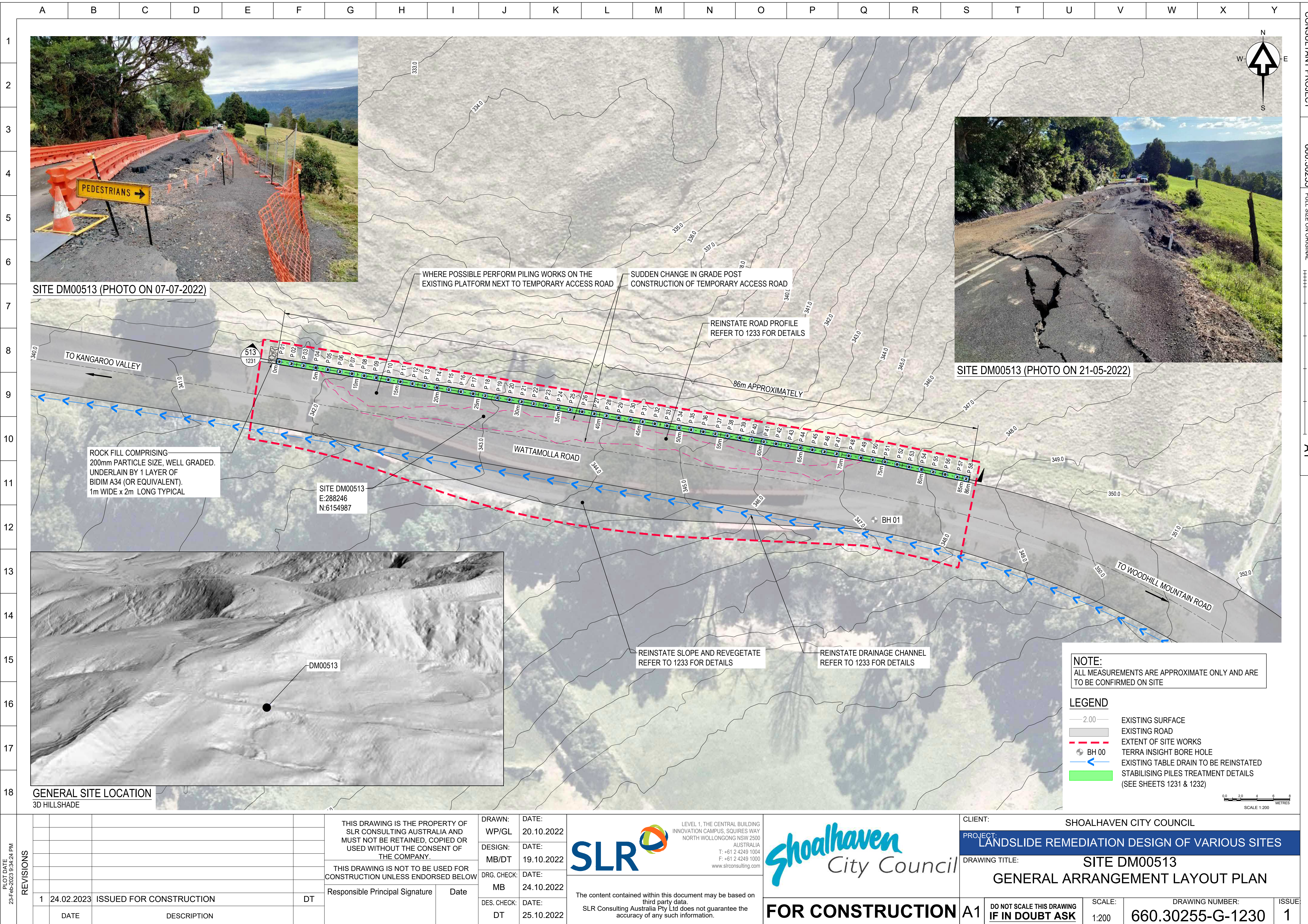
PLOT DATE: 22-Feb-2023 4:11:19 PM	REVISIONS				THIS DRAWING IS THE PROPERTY OF SLR CONSULTING AUSTRALIA AND MUST NOT BE RETAINED, COPIED OR USED WITHOUT THE CONSENT OF THE COMPANY.	DRAWN:	DATE:	<div><div><div><div>SLR</div><div><div>LEVEL 1, THE CENTRAL BUILDING INNOVATION CAMPUS, SQUIRES WAY NORTH WOLLONGONG NSW 2500 AUSTRALIA T: +61 2 4249 1004 F: +61 2 4249 1000 www.slrconsulting.com</div></div></div><div><div>Shoalhaven</div><div>City Council</div></div></div><div>The content contained within this document may be based on third party data. SLR Consulting Australia Pty Ltd does not guarantee the accuracy of any such information.</div></div>	CLIENT: SHOALHAVEN CITY COUNCIL		
						DESIGN:	DATE:			PROJECT: LANDSLIDE REMEDIATION DESIGN OF VARIOUS SITES	
						MB/DT	DATE:				DRAWING TITLE: COVER SHEET & SITES LOCALITY PLAN
						DRG. CHECK:	DATE:				
		1	24.02.2023	ISSUED FOR CONSTRUCTION		DT	MB				
	DATE	DESCRIPTION		DES. CHECK:	DATE:						
					Responsible Principal Signature	DT	25.10.2022				

		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	CONSULTANT PROJECT 660.30255 FULL SIZE ON ORIGINAL 0 10 20 40 60 80 100 A1																		
1		DRAWING SCHEDULE (1 OF 2)										DRAWING SCHEDULE (2 OF 2)										COORDINATES TABLE																							
2		DRAWING NUMBER					DRAWING TITLE					DRAWING NUMBER					DRAWING TITLE					SITE NUMBER						SITE LOCATION					EASTING					NORTHING							
3		660.30255-G-1000					COVER SHEET & SITES LOCALITY PLAN					660.30255-G-1200					SITE DM00583 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00865						Abernathys Rd					266450					6145038							
4		660.30255-G-1001					DRAWING SCHEDULE & COORDINATES TABLE					660.30255-G-1201					SITE DM00583 - CROSS SECTIONS SHEET					SH00290						Bamarang Rd					271979					6135292							
5		660.30255-G-1002					GENERAL NOTES SHEET 1					660.30255-G-1210					SITE DM00828 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00706						Browns Mountain Rd					273244					6145779							
6		660.30255-G-1003					GENERAL NOTES SHEET 2															AC00088						Bunkers Hill Rd					274285					6159006							
7		660.30255-G-1004					GENERAL NOTES SHEET 3															DM00548						Bunkers Hill Rd					275018					6160966							
8		660.30255-G-1010					SITE DM00865 - GENERAL ARRANGEMENT LAYOUT PLAN					660.30255-G-1220					SITE NH00011 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00549						Bunkers Hill Rd					274459					6159432							
9		660.30255-G-1020					SITE SH00290 - GENERAL ARRANGEMENT LAYOUT PLAN					660.30255-G-1230					SITE DM00513 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00869						Bunkers Hill Rd					274354					6159116							
10		660.30255-G-1030					SITE DM00706 - GENERAL ARRANGEMENT LAYOUT PLAN					660.30255-G-1231					SITE DM00513 - CROSS SECTIONS SHEET					DM00870						Bunkers Hill Rd					274402					6159173							
11		660.30255-G-1031					SITE DM00706 - CROSS SECTIONS SHEET					660.30255-G-1232					SITE DM00513 - DETAILS SHEET 1					SH00282						Burrier Rd					267939					6137163							
12		660.30255-G-1040					SITE AC00088 - GENERAL ARRANGEMENT LAYOUT PLAN					660.30255-G-1233					SITE DM00513 - DETAILS SHEET 2					SH00288						Burrier Rd					271051					6135673							
13		660.30255-G-1050					SITE DM00548 - GENERAL ARRANGEMENT LAYOUT PLAN					660.30255-G-1240					SITE DM00863 - GENERAL ARRANGEMENT LAYOUT PLAN					SH00292						Burrier Rd					268817					6136420							
14		660.30255-G-1051					SITE DM00548 - DETAILS SHEET					660.30255-G-1250					SITE SH00276 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00555						Foremans Rd					287060					6155133							
15		660.30255-G-1060					SITE DM00549 - GENERAL ARRANGEMENT LAYOUT PLAN					660.30255-G-1260					SITE DM00808 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00882						Foremans Rd					287028					6155134							
16		660.30255-G-1070					SITE DM00869 - GENERAL ARRANGEMENT LAYOUT PLAN					660.30255-G-1261					SITE DM00808 - CROSS SECTIONS SHEET					DM00610						Hughes Rd					267764					6140045							
17		660.30255-G-1071					SITE DM00869 - CROSS SECTIONS SHEET					660.30255-G-1262					SITE DM00808 - TREATMENT ELEVATION SHEET					DM00611						Hughes Rd					267775					6140040							
18		660.30255-G-1080					SITE DM00870 - GENERAL ARRANGEMENT LAYOUT PLAN					660.30255-G-1270					SITE MT00008 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00805					Kangaroo Valley Rd					279846					6152399								
19	660.30255-G-1090					SITE SH00282 - GENERAL ARRANGEMENT LAYOUT PLAN					660.30255-G-1271					SITE MT00008 - CROSS SECTIONS SHEET					DM00806					Kangaroo Valley Rd					279546					6152162									
20	660.30255-G-1100					SITE SH00288 - GENERAL ARRANGEMENT LAYOUT PLAN					660.30255-G-1272					SITE MT00008 - ELEVATION & DETAILS SHEET					DM00533					Mount Scanzi Rd					268294					6149554									
21	660.30255-G-1110					SITE SH00292 - GENERAL ARRANGEMENT LAYOUT PLAN					660.30255-G-1280					SITENR00016 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00577					Mount Scanzi Rd					269153					6150610									
22	660.30255-G-1120					SITES DM00882 & DM00555 - GENERAL ARRANGEMENT LAYOUT PLAN					660.30255-G-1281					SITE NR00016 - CROSS SECTIONS SHEET					DM00718					Mount Scanzi Rd					269141					6150636									
23	660.30255-G-1121					SITE DM0555 - CROSS SECTIONS SHEET					660.30255-G-1290					SITE AQ00001 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00755					Mount Scanzi Rd					268187					6149366									
24	660.30255-G-1122					SITE DM00555 - DETAILS SHEET					660.30255-G-1300					SITE DM00523 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00757					Mount Scanzi Rd					268466					6149581									
25	660.30255-G-1123					SITE DM00882 - CROSS SECTIONS SHEET					660.30255-G-1310					SITE DM00822 - GENERAL ARRANGEMENT LAYOUT PLAN					NH00013					Mount Scanzi Rd					268449					6149585									
26	660.30255-G-1130					SITES DM00610 & DM00611 - GENERAL ARRANGEMENT LAYOUT PLAN					660.30255-G-1320					SITE DM00890 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00864					Mount Scanzi Rd					268507					6149629									
27	660.30255-G-1140					SITE DM00805 - GENERAL ARRANGEMENT LAYOUT PLAN					660.30255-G-1330					SITE DM00899 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00882					Upper Kangarooo River Rd					278778					6156987									
28	660.30255-G-1150					SITE DM00806 - GENERAL ARRANGEMENT LAYOUT PLAN					660.30255-G-2000					TYPICAL DETAILS & SPECIFICATIONS SHEET 1					DM00828					Upper Kangarooo River Rd					280258					6161915									
29	660.30255-G-1151					SITE DM00806 - DETAILS SHEET					660.30255-G-2001					TYPICAL DETAILS & SPECIFICATIONS SHEET 2					NH00011					Upper Kangarooo River Rd					279513					6157304									
30	660.30255-G-1160					SITE DM00533 - GENERAL ARRANGEMENT LAYOUT PLAN					660.30255-G-2002					TYPICAL DETAILS & SPECIFICATIONS SHEET 3					DM00513					Wattamolla Rd					288246					6154987									
31	660.30255-G-1170					SITES DM00577 & DM00718 - GENERAL ARRANGEMENT LAYOUT PLAN					660.30255-G-2003					TYPICAL DETAILS & SPECIFICATIONS SHEET 4					DM00863					Wattamolla Rd					285173					6154673									
32	660.30255-G-1180					SITE DM00755 - GENERAL ARRANGEMENT LAYOUT PLAN					660.30255-G-2010					TYPICAL DETAILS & SPECIFICATIONS SHEET 5					SH00276					Wogamia Rd					272677					6137591									
33	660.30255-G-1190					SITES DM00757, NH00013 & DM00864 - GENERAL ARRANGEMENT LAYOUT PLAN					660.30255-G-2011					TYPICAL DETAILS & SPECIFICATIONS SHEET 6					DM00808					Woodhill Mountain Rd					288281					6154144									
34											660.30255-G-2012					TYPICAL DETAILS & SPECIFICATIONS SHEET 7					MT00008					Woodhill Mountain Rd					288085					6154219									
35											660.30255-G-2013					TYPICAL DETAILS & SPECIFICATIONS SHEET 8					NR00016					Yalwal Rd					271466					6134664									
36											660.30255-G-2014					TYPICAL DETAILS & SPECIFICATIONS SHEET 9					AQ00001					Upper Kangarooo River Rd					278908					6157117									
37																					DM00523					Suffolk Road					277515					6116275									
38																					DM00822					Mount Scanzi Rd					269174					6150402									
39																					DM00890					Burrier Rd					269100					6136495									
40																					DM00899					Bamarang Rd					272066					6135240									
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		DEFINITIONS																																																	
1	2	1. PRINCIPAL - THE PRINCIPAL IS IDENTIFIED AS SHOALHAVEN CITY COUNCIL.																								24. OBTAIN NECESSARY PERMITS AND APPROVALS TO WORK ON SITE. NOTIFY RELEVANT SERVICE AUTHORITIES BEFORE COMMENCING WORK ON SITE.										53. GENERAL WASTE (RUBBISH) IS NOT TO BE ALLOWED TO LIE OR ACCUMULATE ON THE SITE. KEEP ALL DOCKETS/RECEIPTS FOR WATE MANAGEMENT/DISPOSAL AND FORWARD COPIES TO THE PRINCIPAL'S REPRESENTATIVE.															
2. GEOTECHNICAL DESIGN REPRESENTATIVE - SUITABLY QUALIFIED GEOTECHNICAL ENGINEER APPOINTED BY THE PRINCIPAL TO PROVIDE ON-SITE VERIFICATION OF THE CONSTRUCTION.																								25. SERVICES ARE TO BE LOCATED ON SITE PRIOR TO CONSTRUCTION COMMENCING.										54. ONLY VIRGIN EXCAVATED NATURAL MATERIAL (VENM) CAN BE IMPORTED ON SITE UNLESS APPROPRIATE TESTING AND DOCUMENTATION IS PROVIDED.																	
3. CONTRACTOR - THE ENTITY UNDERTAKING THE CONSTRUCTION.																								26. DURING CONSTRUCTION STRUCTURES SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERLOADED. TEMPORARY SUPPORTS SHALL BE PROVIDED BY THE BUILDER IN ORDER TO KEEP THE WORKS AND ANY EXCAVATIONS STABLE AT ALL TIMES.										55. KEEP ALL DOCUMENTS/RECORDS OF THE TRANSPORT AND USE OF ATERIAL IMPORTED ONTO SITE AND FORWARD COPIES TO THE PRINCIPAL'S REPRESENTATIVE.																	
4. UNO - UNLESS NOTED OTHERWISE.																								27. PROVIDE SAFETY BARRIERS AT EDGES OF OPENINGS AND ELEVATED AREAS. ENSURE WORKERS ARE APPROPRIATELY RESTRAINED/ TETHERED/ HARNESSSED DURING WORKS WHERE THE LIKELIHOOD AND CONSEQUENCE OF A FALL IS REASONABLY SIGNIFICANT.										TRAFFIC CONTROL																	
3	4	5. THE GEOLOGICAL PROFILE AND GEOTECHNICAL CONDITIONS SHOWN ON THE DRAWINGS ARE INDICATIVE AND HAVE BEEN INFERRED FROM LIMITED INVESTIGATIONS. SHOULD THE ENCOUNTERED GEOLOGICAL PROFILE DIFFER FROM THAT SHOWN, THE DESIGN SHALL BE REVIEWED TO ENSURE SUITABILITY OF THE DESIGN TO ENCOUNTERED CONDITIONS.																								28. REVIEW ADEQUACY OF WORKING SPACE AVAILABLE FOR CONSTRUCTION ACTIVITIES. ENSURE SEPARATION OF PLANT AND PERSONNEL ON SITE, INCLUDING MOVEMENTS OF BOTH.										56. ESTABLISH TRAFFIC CONTROL (IF REQUIRED) AT PROJECT BOUNDARIES IN ACCORDANCE WITH AN APPROPRIATE TRAFFIC CONTROL PLAN APPROVED BY THE PRINCIPAL.															
6. PRIOR TO CONSTRUCTION SITE SET-UP, THE CONTRACTOR SHALL SUBMIT THE FOLLOWING TO THE PRINCIPAL FOR REVIEW.																								29. LOCATE LIFTING SLEW AND LAY DOWN AREAS AWAY FROM REGULAR CONSTRUCTION TRAFFIC.										57. CONSTRUCTION WARNING SIGNS AND TRAFFIC SPEED SIGNS TO BE ESTABLISHED IN GENERAL ACCORDANCE WITH TRAFFIC CONTROL PLAN APPROVED BY THE PRINCIPAL.																	
A. ALL SAFE WORK METHOD STATEMENTS AND PLANS																								30. WRITTEN RISK ASSESSMENTS ARE ADVISED FOR ACCESS TO OPEN EXCAVATIONS.										58. A WASTE CLASSIFICATION HAS NOT BEEN CARRIED OUT FOR THIS SITE. HOWEVER, IF POTENTIAL CONTAMINANTS ARE DISCOVERED DURING WORKS A WASTE CLASSIFICATION MUST BE CARRIED OUT BY THE CONTRACTOR, IN ACCORDANCE WITH REGULATORY REQUIREMENTS.																	
B. CONSTRUCTION STAGING PLANS																								31. PROVIDE ACCESS AND EGRESS TO EXCAVATIONS APPROPRIATE IN CASE OF INUNDATION, COLLAPSE OR ENGULFMENT.										EARTHWORKS																	
5	6	C. CONSTRUCTION PROGRAM																								32. SEEK ADVICE FROM SUITABLY QUALIFIED GEOTECHNICAL OR STRUCTURAL ENGINEER PRIOR TO OPERATION OF HEAVY SURFACE PLANT AND EQUIPMENT OR STOCKPILING MATERIAL NEAR OPEN EXCAVATIONS OR EXISTING RETAINING STRUCTURES.										59. STRIP OFF ALL VEGETATION, RUBBISH AND TOPSOIL CONTAINING ORGANIC OR ROOT MATTER FROM THE AREA OF THE WORKS AND REMOVE FROM SITE/ STOCKPILE FOR RE-USE.															
D. CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP)																								33. SEEK ADVICE FROM SUITABLY QUALIFIED GEOTECHNICAL FOR ALL TEMPORARY BATTERS.										60. WHERE REQUIRED, EXCAVATE SITE TO THE EXTENT DETAILED IN THE DETAILED SECTION DRAWING.																	
E. PROJECT QUALITY PLAN																								34. SEEK ADVICE FROM SUITABLY QUALIFIED STRUCTURAL ENGINEER BEFORE CORING, CHASING, CUTTING OR REMOVAL OF EXISTING CONCRETE AND REINFORCEMENT.										61. FOR EACH SITE, THE FOUNDATION LEVEL WILL VARY DEPENDING ON GROUND CONDITIONS ENCOUNTERED ON THE SITE AND SHALL BE CONFIRMED ON SITE BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER.																	
6	7	APPROVAL OF THE DOCUMENTATION BY THE PRINCIPAL SHALL CONSTITUTE A HOLD POINT.																								35. MAKE WORK AREAS SAFE WHERE STRUCTURAL ELEMENTS ARE DAMAGED, CRACKED OR HAVE SUFFERED SIGNIFICANT SECTION LOSS BEFORE ALLOWING GENERAL CONSTRUCTION OR REPAIR ACCESS.										62. PRIOR TO ANY FILLING, THE EXPOSED SUBGRADE SHALL BE PROOF ROLLED WITH A 12 TONNE STATIC MASS SMOOTH DRUM ROLLER IN THE PRESENCE OF THE PRINCIPAL'S REPRESENTATIVE OR GEOTECHNICAL ENGINEER AND ANY SOFT OR YIELDING MATERIALS REMOVED AND REPLACED WITH APPROVED FILLING COMPACTED AS HEREFTER SPECIFIED.															
7. SITE TO BE RETURNED TO ORIGINAL CONDITION OR BETTER AT THE COMPLETION OF THE WORKS																								36. REPORT SIGNIFICANT SECTION LOSS OR CORROSION FLAKING BEFORE STARTING PAINTING OR REPAIRS. CONSULT SUITABLY QUALIFIED STRUCTURAL ENGINEER IF SECTION LOSS OR EXTENSIVE CORROSION FLAKING PRESENT BEFORE PROCEEDING WITH WORK.										63. IMPORTING FILL MATERIAL TO SITE. SEE NOTE NO. 54.																	
7	8	8. NOMINATION OF PROPRIETARY ITEMS DOES NOT INDICATE EXCLUSIVE PREFERENCE BUT INDICATES THE REQUIRED PROPERTIES OF THE ITEM. SIMILAR ALTERNATIVES HAVING THE REQUIRED PROPERTIES MAY BE OFFERED FOR APPROVAL BY THE DESIGN REPRESENTATIVE.																								37. UNTIL PERMANENT SUPPORT IS PROVIDED, PROVIDE TEMPORARY SUPPORT FOR SECTIONS OF EXISTING STRUCTURES WHICH ARE TO BE ALTERED AND WHICH NORMALLY RELY FOR SUPPORT ON WORK TO BE DEMOLISHED.										64. FILL SHALL BE SOUND WELL GRADED MATERIAL WITH A HIGH GRANULAR CONTENT AND SHALL BE THE BEST OF EXCAVATED MATERIALS FROM THE SITE, OR APPROVED SOUND IMPORTED MATERIAL FREE OF RUBBISH, PLASTIC CLAY OR LARGE PIECES THAT WOULD PRECLUDE COMPACTION.															
9. DIMENSIONS ARE IN MILLIMETRES, LEVELS ARE IN METRES UNO, CHAINAGES ARE IN METRES UNO. REDUCED LEVELS RELATE TO AUSTRALIAN HEIGHT DATUM.																								38. PROVIDE SUPPORT TO ADJACENT STRUCTURES WHERE NECESSARY, SUFFICIENT TO PREVENT DAMAGE RESULTING FROM THE WORKS.										65. FILL SHALL BE SPREAD IN LAYERS NOT EXCEEDING 150mm AND COMPACTED AT OPTIMUM MOISTURE CONTENT ±2% TO NOT LESS THAN THE REQUIRED MAXIMUM DRY DENSITY.																	
8	9	10. ALL DIMENSIONS AND SETTING OUT SHALL BE VERIFIED ON SITE BY THE CONTRACTOR BEFORE COMMENCING WORK. HAVE SURVEY AND SETTING OUT UNDERTAKEN BY A REGISTERED SURVEYOR. ALL DIMENSIONS DO NOT OBTAIN DIMENSIONS BY SCALING OF THE DRAWINGS.																								39. LATERAL SUPPORTS: PROVIDE LATERAL SUPPORT AT LEAST EQUAL TO THAT GIVEN BY THE STRUCTURE TO BE DEMOLISHED, USING SHORING.										66. DENSITY TESTING OF FILLING (AND BASE COURSE WHERE APPLICABLE) SHALL BE CARRIED OUT AT THE RATE OF 1 TEST PER 200 SQUARE METRES EACH LAYER (MINIMUM 2 TESTS).															
11. VERIFY ON SITE SETTING OUT DIMENSIONS AND EXISTING MEMBER SIZES SHOWN ON DRAWINGS BEFORE SHOP DRAWINGS, CONSTRUCTION AND FABRICATION IS COMMENCED.																								40. VERTICAL SUPPORTS: PROVIDE SUPPORT WHERE NECESSARY USING PILING OR UNDERPINNING, OR BOTH.										67. WHERE REQUIRED, THE FOUNDATION LAYER SHALL BE, DRY, SMOOTH, LEVEL AND GRADED TO THE PROFILE AS SHOWN IN THE DETAILED DRAWING. IT SHALL BE FREE OF SURFACE IRREGULARITIES, LOOSE OR UNSUITABLE MATERIAL.																	
9	10	12. REFER DISCREPANCIES TO THE PRINCIPAL BEFORE PROCEEDING WITH WORK.																								ENVIRONMENTAL SITE MANAGEMENT										68. WHERE REQUIRED, A BLINDNG LAYER TO INFILL VOIDS, UNEVEN GROUND AND CAVITIES AT FOUNDATION LEVEL TO BE CREATED WITH SITE WON GRANULAR SOILS AND ROCKFILL TO CREATE A SMOOTH, EVEN, STABLE WORKING PLATFORM. GRANULAR BLINDING MATERIAL SHALL COMPRISE OF GRANULAR, SITE WON SOIL FREE OF UNSUITABLE MATERIAL AND SHALL BE COMPACTED USING MANUAL TECHNIQUES (E.G., HAND TAMPING, WALK-BEHIND COMPACTOR) TO MINIMUM RELATIVE DENSITY OF 70%.															
13. WORKMANSHIP AND MATERIALS TO COMPLY WITH REQUIREMENTS OF AUSTRALIAN STANDARDS, NATIONAL CONSTRUCTION CODE (NCC) AND BY-LAWS AND ORDINANCES OF RELEVANT BUILDING AUTHORITIES. ALL STANDARDS REFERRED TO ARE THOSE CURRENT (AS AMENDED) AT COMMENCEMENT OF CONTRACT.																								41. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL MEASURES ARE TAKEN DURING THE COURSE OF CONSTRUCTION TO PREVENT SEDIMENT EROSION AND POLLUTION OF THE DOWNSTREAM SYSTEM.										69. THE CONTRACTOR SHALL PROGRAM AND UNDERTAKE THE EARTHWORKS OPERATIONS SUCH THAT WORKING AREAS ARE ADEQUATELY DRAINED DURING CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM FAILURE TO COMPLY WITH THESE REQUIREMENTS SHALL BE RECTIFIED AT THE CONTRACTOR'S EXPENSE.																	
10	11	14. WHERE NEW WORK ABUTS EXISTING, PROVIDE SMOOTH TRANSITION FREE OF ABRUPT CHANGES.																								42. TEMPORARY EROSION AND SEDIMENT CONTROL (ESC) MEASURES SHALL BE PROVIDED IN ACCORDANCE WITH INTERNATIONAL EROSION CONTROL ASSOCIATION (IECA) BEST PRACTICE EROSION AND SEDIMENT CONTROL GUIDELINES (2008) AND BE MAINTAINED IN OPERATIVE CONDITION AT ALL TIMES AND SHALL REMAIN IN PLACE FOR THE DURATION OF THE WORK.										70. HAVE TESTING PERFORMED BY AN INDEPENDENT NATA (NATIONAL ASSOCIATION OF TESTING AUTHORITIES) ACCREDITED AUTHORITY AND PROVIDE TEST REPORTS TO THE PRINCIPAL. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH COMPLIANCE TESTING.															
15. PROTECT EXISTING STRUCTURES FROM DAMAGE OR CRACKING. MAKE GOOD ANY DAMAGE TO EXISTING ELEMENTS AT COMPLETION OF WORKS.																								43. SEDIMENT AND EROSION CONTROLS MUST BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS OR DEMOLITION ACTIVITY. THE LOCATION OF SUCH DEVICES IS GENERALLY AT THE END OF THE DIRECTION OF FLOW BEFORE REACHING THE DOWNSTEAM SYSTEM. FINAL POSITION SHALL BE DETERMINED ON SITE.																											
11	12	16. IMPLEMENT SOIL AND WATER MANAGEMENT PROCEDURES TO AVOID EROSION, CONTAMINATION AND SEDIMENTATION OF SITE, SURROUNDING AREAS AND DRAINAGE SYSTEMS.																								44. INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT LADEN WATER UNTIL SURROUNDING AREAS ARE PAVED OR REVEGETATED.																									
17. DISPOSE OF SURPLUS MATERIAL OFF SITE IN ACCORDANCE WITH LOCAL AUTHORITY WASTE REGULATIONS.																								45. ALL SILT FENCES AND BARRIERS ARE TO BE MAINTAINED IN GOOD ORDER AND REGULARLY DESILTED DURING THE CONSTRUCTION PERIOD.																											
12	13	18. TEMPORARY WORKS AND CONSTRUCTION METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR.																								46. STOCKPILES OF LOOSE MATERIALS SUCH AS SAND, SOIL AND GRAVEL MUST BE COVERED WITH GEOTEXTILE. PLASTIC SHEETING OR MEMBRANE MUST NOT BE USED. SAFETY BARRICADING SHALL BE USED TO ISOLATE STOCKPILES OF SOLID MATERIALS SUCH AS STEEL REINFORCING. SEDIMENT FENCE IS TO BE PLACED DOWNSLOPE OF ALL STOCKPILES.																									
19. GIVE TWO WORKING DAYS (48 HOURS) NOTICE SO THAT INSPECTION OF CRITICAL STAGES OF WORK (INCLUDING HOLD POINTS AND WITNESS POINTS) MAY BE MADE.																								47. ANY WASTE GENERATED, INCLUDING EXCAVATED MATERIALS, SHALL BE REMOVED FROM THE SITE AND DISPOSED OF APPROPRIATELY, ACCORDING TO THE WASTE CLASSIFICATION. GENERAL WASTE (RUBBISH) IS NOT TO BE ALLOWED TO LIE OR ACCUMULATE ON THE SITE. KEEP ALL DOCKETS/RECEIPTS FOR WASTE MANAGEMENT/DISPOSAL AND FORWARD COPIES TO THE PRINCIPAL'S REPRESENTATIVE.																											
13	14	20. INSPECTIONS AND REVIEWS UNDERTAKEN BY THE PRINCIPAL OR OTHERS DO NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLIANCE WITH THE DRAWINGS OR SPECIFICATIONS.																								48. ALL VEHICLES LEAVING THE SITE MUST HAVE CLAY AND SOIL SHAKEN OFF AS PRACTICALLY AS POSSIBLE.																									
21. AT THE COMPLETION OF THE WORKS, THE CONTRACTOR SHALL PREPARE AND SUBMIT A 'HANDOVER' PACKAGE TO THE PRINCIPAL FOR APPROVAL. THE PACKAGE SHALL INCLUDE AT A MINIMUM:																								49. TRUCKS REMOVING EXCAVATED/DEMOLISHED MATERIAL SHALL TRAVEL ON STABILISED CONSTRUCTION PATHS. MATERIAL ARE TO BE TAKEN TO THE TRUCKS TO REDUCE TRUCK MOVEMENTS ON SITE. TRUCKS TO BE LIMITED TO SINGLE UNIT HEAVY RIGID VEHICLES (NO SEMI TRAILERS).																											
A. DRILLING RECORDS																								50. DURING TRENCH EXCAVATION ALL SPOIL SHALL BE MOUNDED ON THE UPHILL SIDE OF TRENCHES AND PLACEMENT IS TO COMPLY WITH THE PRINCIPAL'S REQUIREMENT.																											
B. RFCS, NCR'S, CERTIFICATES AND OTHER FORMS AS NOMINATED BY THE PRINCIPAL.																								WASTE AND CONTAMINATION																											
C. APPROVAL OF THE HANDOVER PACKAGE BY THE PRINCIPAL SHALL CONSTITUTE A HOLD POINT.																																																			
14	15	SAFETY IN DESIGN																																																	
22. THE SAFETY RISK MITIGATION ITEMS BELOW ARE BASED ON SLR'S DESIGN EXPERIENCE AND DO NOT NECESSARILY ACCOUNT FOR ALL CONSTRUCTION, OPERATION, MAINTENANCE AND DEMOLITION SAFETY RISKS. BASED ON INFORMATION AVAILABLE WHEN THIS DRAWING WAS MADE, IN ITS CAPACITY AS DESIGNER ONLY, SLR HAS TRIED TO IDENTIFY SAFETY RISKS PERTAINING TO CONSTRUCTION, OPERATION, MAINTENANCE AND DEMOLITION PHASES OF THE ASSET. INCLUSION (OR NOT) OF ANY ITEM DOES NOT REDUCE OR LIMIT OBLIGATIONS OF CONSTRUCTOR, USER, MAINTAINER AND DEMOLISHER TO UNDERTAKE APPROPRIATE RISK MANAGEMENT ACTIVITIES TO REDUCE RISK AND IS NOT AN ADMISSION BY SLR THAT INCLUSION OF ANY ITEM IS DESIGNER'S RESPONSIBILITY.																																																			
16	17	23. CARRY OUT WORK IN A SAFE MANNER IN ACCORDANCE WITH APPLICABLE LEGISLATION, STATUTORY REGULATIONS, BY-LAWS OR RULES. CONTRACTOR IS RESPONSIBLE FOR OCCUPATIONAL HEALTH AND SAFETY OF SITE PERSONNEL AND GENERAL PUBLIC IN ACCORDANCE WITH ALL CURRENT WORK HEALTH AND SAFETY ACTS, LEGISLATIVE REQUIREMENTS, ASSOCIATED REGULATIONS AND CODES OF PRACTICE, INDUSTRIAL AGREEMENTS AND ACCEPTED INDUSTRY PRACTICE.																																																	
18																																																			
PLOT DATE 22-Feb-2023 4:11:38 PM	REVISIONS							THIS DRAWING IS THE PROPERTY OF SLR CONSULTING AUSTRALIA AND MUST NOT BE RETAINED, COPIED OR USED WITHOUT THE CONSENT OF THE COMPANY.						DRAWN: WP/GL	DATE: 20.10.2022	 <div>LEVEL 1, THE CENTRAL BUILDING INNOVATION CAMPUS, SQUIRES WAY NORTH WOLLONGONG NSW 2500 AUSTRALIA T: +61 2 4249 1004 F: +61 2 4249 1000 www.slrconsulting.com</div>		CLIENT: SHOALHAVEN CITY COUNCIL																																	
														DESIGN: MB/DT	DATE: 19.10.2022			PROJECT: LANDSLIDE REMEDIATION DESIGN OF VARIOUS SITES																																	
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															DES. CHECK: DT			DATE: 25.10.2022																																	
		1	24.02.2023	ISSUED FOR CONSTRUCTION						DT	Responsible Principal Signature							Date																																	
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		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	CONSULTANT PROJECT						
																										660.30255		FULL SIZE ON ORIGINAL 0 10 20 40 60 80 100 +-----+ A1					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18																
		EXCAVATION																										STRUCTURAL STEEL					
		71. SUB VERTICAL EXCAVATION MUST NOT EXCEED 1.5m DEPTH PRIOR TO INSPECTION BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER.																										124. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS4100 AND AS1554 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.					
		72. WHERE UNFAVOURABLE EXCAVATION CONDITIONS EXIST SUCH AS SHALLOW LARGE FLOATING BOULDERS, SEEK ENGINEERING ADVICE FROM A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER.																										125. ALL MATERIAL TO BE GRADE 250 HOT ROLLED PLATES COMPLYING WITH AS 3678 U.N.O.					
		73. WHERE SHALLOW BEDROCK IS ENCOUNTERED PRIOR TO DESIGN FOUNDATION DEPTH, SEEK ENGINEERING ADVICE FROM A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER.																										126. WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1554.1 AND SHALL BE GP CATEGORY U.N.O.					
		74. TEMPORARY CUT FACES TO BE BATTERED BACK TO A SUITABLE SLOPE TO MAINTAIN STABILITY AT ALL TIMES.																										127. WELDING CONSUMABLES SHALL BE E49XX OR W50X.					
		75. DELINEATE A MINIMUM EXCLUSION ZONE FROM THE EDGE OF THE EXCAVATION EQUAL TO THE HEIGHT OF EXCAVATION AT ALL TIMES. NO SURCHARGE LOADS ARE TO THE PLACED WITHIN THIS ZONE SUCH AS VEHICLES AND /OR CONSTRUCTION MATERIALS.																										128. INSPECTION SHALL BE CARRIED OUT TO AS 1554.1					
		76. IF ENCOUNTERED, CARE SHALL BE TAKEN TO MINIMISE DISTURBANCE TO THE UNDERLYING DRYSTONE WALL. ANY DISLODGED DRYSTONE AND/OR VOID CREATED BY EXCAVATION SHALL BE REPLACED AND INFILLED WITH GRANULAR FILL.																										129. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT STEELWORK IS SECURELY BRACED TEMPORARILY AS NECESSARY TO STABILISE THE STRUCTURE DURING ERECTION.					
		77. EXCAVATED MATERIALS SHALL BE STOCKPILED WITH HEIGHT NOT EXCEEDING 2 M.																										130. THE BUILDER SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL TO STEEL WHETHER OR NOT DETAILED ON THE DRAWINGS.					
		78. CREATE SEPARATE STOCKPILES FOR DIFFERENT SOIL TYPES. DO NOT MIX SUBGRADE WITH PAVEMENT OR TOPSOIL. PROVIDE ADEQUATE WATERING, DRAINAGE AND EROSION CONTROL.																										SEALANTS AND FILLERS					
		79. DO NOT ALLOW TRAFFIC ON STOCKPILES.																										131. WHERE JOINTS DAYLIGHT AT FORMED JOINTS OR EDGES, THE SEALANT (BOTH TEMPORARY AND PERMANENT) MUST EXTEND DOWN THE VERTICAL FACE OF JOINTS TO PREVENT THE INGRESS OF INCOMPRESSIBLES DURING SUBSEQUENT PAVING. DIMENSIONS MUST BE EQUIVALENT TO THOSE FOR THE TOP JOINT BUT ROTATED 90°.					
		80. ALL FINAL SURFACES SHALL BE CONSTRUCTED TO MATCH EXISTING LEVELS UNLESS OTHERWISE APPROVED BY THE PRINCIPAL.																										132. SEALANTS AND FILLERS MUST COMPLY WITH RMS R83.					
		DRAINAGE (GENERAL)																										DRILLING OF SOIL NAIL HOLES					
		81. PRIOR TO CONSTRUCTION OF THE SURFACE DRAIN SPECIAL CONSIDERATION SHALL BE MADE IN CONSTRUCTING THE CUTOFF SUBSOIL DRAINAGE WHICH SHALL BE CONNECTED TO THE LOCAL DRAINAGE NETWORK.																										133. DRILLING FOR NAILS AND ANCHORS IS EXPECTED TO ENCOUNTER RELATIVELY HIGH STRENGTH COLLUVIUM BOULDERS AND BEDROCK. SELECTION OF DRILLING EQUIPMENT TO BE SUITABLE FOR EXPECTED GROUND CONDITIONS. USE ROTARY OR ROTARY-PERCUSSION METHODS AND EQUIPMENT FOR DRILLING TO ENSURE MINIMAL REMOLDING OF IN-SITU MATERIALS WITHIN THE DRILL HOLES. DO NOT USE DRILLING FLUIDS OTHER THAN AIR, UNLESS OTHERWISE APPROVED BY THE PRINCIPAL.					
		82. RESHAPE THE EXISTING SURFACE DRAINAGE AND LINED WITH 40MPA SHOTCRETE WITH DOSAGE RATE OF 15KG/M3.																										134. THE CONTRACTOR SHALL INSTALL TEMPORARY CASING TO PREVENT DRILL-HOLE COLLAPSE WHERE REQUIRED.					
		83. STEEL FLOAT ALL SHOTCRETE SURFACES.																										135. WHERE THE GROUND IS SUSCEPTIBLE TO COLLAPSE CASING SHALL BE USED.					
		GABIONS AND RENO MATTRESS																										136. HOLE SHALL BE CLEANED OF ALL LOOSE OR DELETERIOUS MATERIAL ON COMPLETION OF DRILLING AND THE OPENING SEALED TO PREVENT ENTRY FROM FOREIGN MATTER.					
		84. GABIONS: DOUBLE TWISTED, HEXAGONAL WIRE MESH GABIONS OF NOMINAL 80x100 MESH, WITH 3.4mm O/D FRAME WIRE AND 2.7mm MESH WIRE, COMPLETE WITH DIAPHRAGMS AT 1M CENTRES. ALL COMPONENTS TO BE MECHANICALLY CONNECTED AT THE PRODUCTION FACILITY WITH MINIMUM CONNECTION STRENGTH REQUIREMENTS AS PER TABLE 2 OF ASTM A975, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.																										SOIL NAIL AND FACING REINFORCEMENT					
		85. ALL WIRE SHALL BE MILD STEEL, GALMAC COATED (95% ZINC + 5% ALUMINIUM MISCHMETAL ALLOY) TO THE REQUIREMENTS OF ASTM B750-99 AND HEAT BONDED THROUGH EXTRUSION WITH AN ADDITIONAL 0.5MM HEAVY DUTY GREY PVC COATING.																										137. SOIL NAILS TO BE DOUBLE ENCAPSULATED AND HOT-DIP GALVANIZED IN ACCORDANCE WITH AS4680.					
		86. GABIONS MUST HAVE A VALID BRITISH BOARD OF AGRÉMENT (BBA) CERTIFICATE FOR GALFAN + PVC WIRE.																										138. DRILL HOLES FOR NAILS MUST BE AT LEAST 150mm DIAMETER AND PREPARED AS PER TfNSW R64 U.N.O.					
		87. THE GABION FILL MATERIAL SHALL BE IN ACCORDANCE WITH AS 2758.4 - 2000. THE MINIMUM ROCK SIZE SHALL BE 100mm AND THE MAXIMUM ROCK SIZE SHALL BE 250mm.																										139. SOIL NAILS TO BE GRADE D500N OR EQUIVALENT HIGH STRENGTH DEFORMED BARS.					
		88. BIDIM A34 NON-WOVEN GEOTEXTILE (OR APPROVED EQUIVALENT) TO BE PLACED AT ALL ROCKFILL-SOIL INTERFACE, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.																										140. SOIL NAILS MUST BE INSTALLED AS SHOWN IN THE SCHEDULES.					
		89. ROCK FILL MATERIAL BEHIND THE GABION SHALL HAVE A MINIMUM SIZE OF 75mm AND MAXIMUM SIZE OF 200mm. ROCK FILL TYPE A MATERIAL SHALL BE IN ACCORDANCE WITH AS 2758.4-2000.																										141. PROVIDE CENTRALISERS FOR NAILS AT INTERVAL NOT EXCEEDING 2000mm.					
		PILES AND FOUNDATIONS																										142. STEEL MESH MUST BE GRADE D500N IN ACCORDANCE WITH AS4671.					
		90. THE BEARING CAPACITY AT FOUNDING LEVEL SHALL BE VERIFIED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE.																										143. BEARING PLATE MUST BE GRADE D250N IN ACCORDANCE WITH AS3678					
		91. THE FOUNDATION MATERIAL SHALL BE INSPECTED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER TO CONFIRM THE EXPOSED FOUNDATION MATERIAL SATISFIES THE DESIGN ASSUMPTIONS. ANY MATERIAL ASSESSED TO BE UNSUITABLE (INCLUDING EXISTING FILL) SHALL BE REMOVED AND REPLACED.																										144. SOIL NAIL FACING SHOTCRETE COVER TO REINFORCEMENT FROM AIR = 50mm					
		92. CLEANLINESS OF PILE BASES SHALL BE CONFIRMED ON SITE BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO CASTING OF PILES.																										145. SOIL NAIL FACING SHOTCRETE COVER TO REINFORCEMENT FROM GROUND = 75mm					
		93. ALL BORED PILE WORK SHALL BE IN ACCORDANCE WITH AS2159.																										146. SOIL NAIL 40mm COVER IS ACCEPTABLE TO STRIP DRAIN. CONSTRUCTION METHODOLOGY TO ENSURE COVER TO STRIP DRAIN IS ACHIEVED. LOCAL ADDITIONAL EXCAVATION MAY BE REQUIRED.					
		94. STEEL CASING (IF REQUIRED) AND REINFORCING CAGE SHALL BE SECURELY AND ACCURATELY HELD IN POSITION DURING CONCRETE PLACEMENT.																										147. STEEL MESH MUST BE LAPPED AT ONE LOCATION NEATLY BY THREE WIRES SO AS NOT TO CREATE SHADOW IN THE SHOTCRETE.					
		95. BORED PILES SHALL BE CONCRETED ON THE DAY OF APPROVAL UNLESS PERMISSION IS GIVEN OTHERWISE.																										148. ALL STEEL MESH LAPS AND STARTER BARS SHALL BE CLEANED TO BARE MESH PRIOR TO FIXING THE ADJOINING STEEL OR SPRAYING THE NEXT PANEL.					
		96. BORED PILE TOE LEVELS, WHERE SHOWN ARE ESTIMATES ONLY AND SHALL BE ESTABLISHED DURING SITE INSPECTION OF WORK IN PROGRESS.																										149. STEEL MESH LAPS MUST BE STAGGERED AND CUT SUCH THAT ONLY TWO SHEETS ARE LAPPED AT ONE LOCATION. LAPS ARE NOT ALLOWED OVER STRIP DRAINS.					
		CONCRETE																										150. NAILS, BEARING PLATES, WASHERS AND ALL STEEL REINFORCEMENT MUST BE HOT DIP GALVANISED AND IN ACCORDANCE WITH AS4680 WITH A COATING WEIGHT OF 600G/M2.					
		97. MINIMUM 28 DAY CHARACTERISTIC COMPRESSIVE STRENGTH OF ALL CONCRETE IS 40 MPa.																										151. NAIL NUTS MUST BE GRADE C COMPLYING WITH AS1112.3 AND PROPERTY CLASS 5 COMPLYING WITH AS4291.2 OR EQUIVALENT TO SUIT THE THREADED END OF SOIL NAIL.					
		98. COVER TO REINFORCEMENT NEAREST TO THE CONCRETE SURFACE SHALL BE 50MM UNLESS NOTED OTHERWISE.																															
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DES. CHECK:	DATE:
DT	25.10.2022



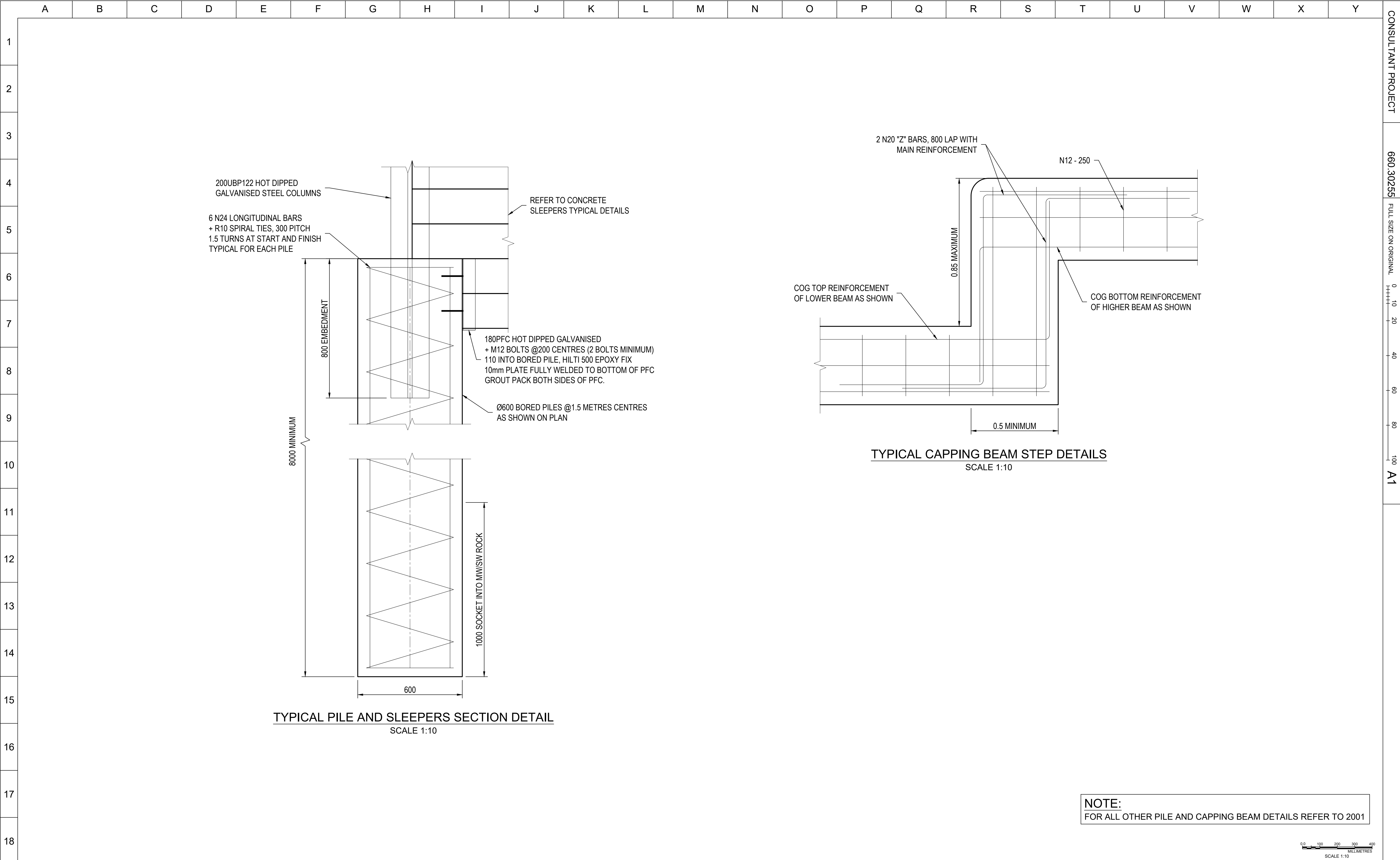
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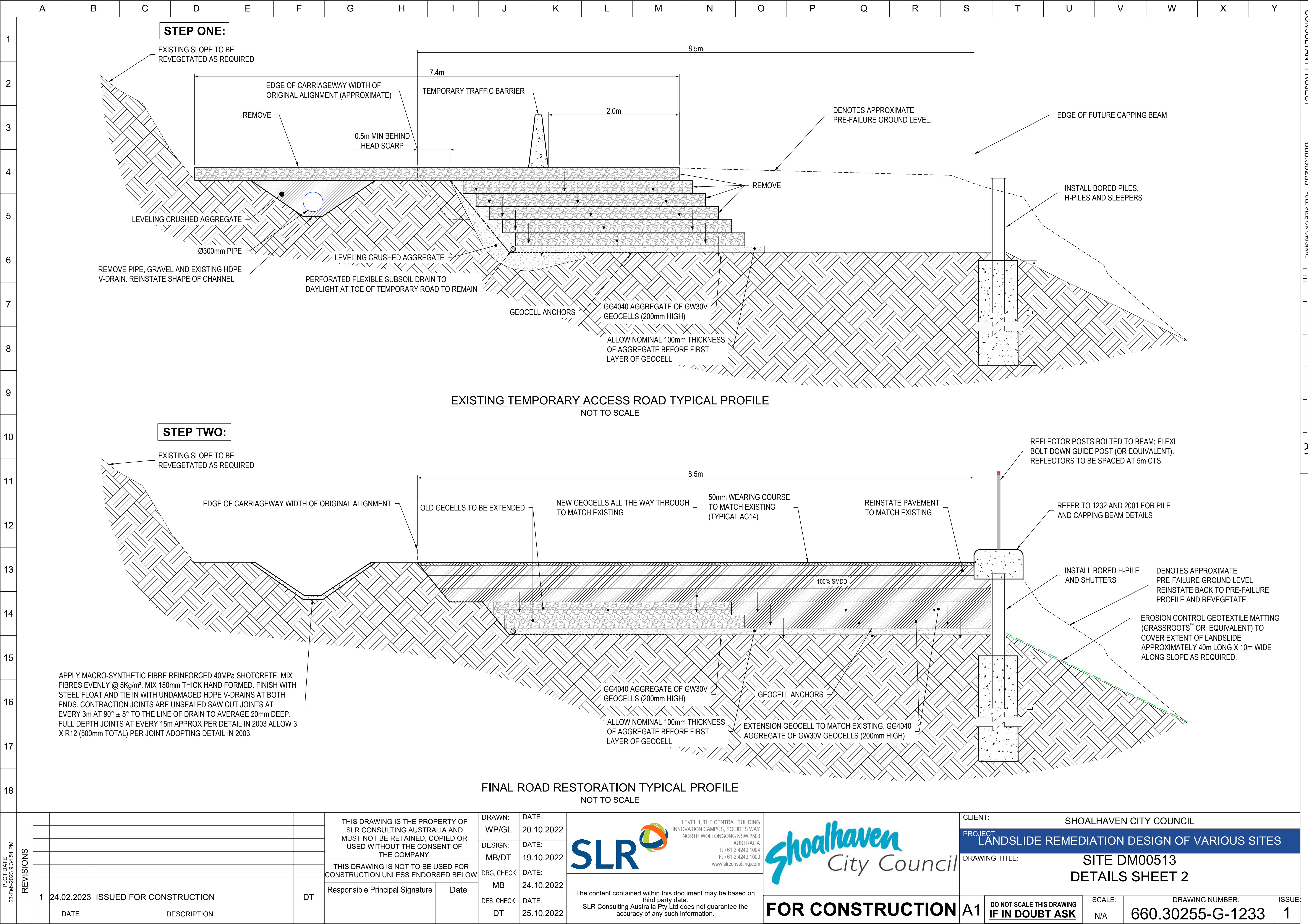


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CLIENT:		SHOALHAVEN CITY COUNCIL		
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DRAWING TITLE:		SITE DM00513 GENERAL ARRANGEMENT LAYOUT PLAN		
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PROJECT: LANDSLIDE REMEDIATION DESIGN OF VARIOUS SITES

DRAWING TITLE: SITE DM00513
DETAILS SHEET 2

A1

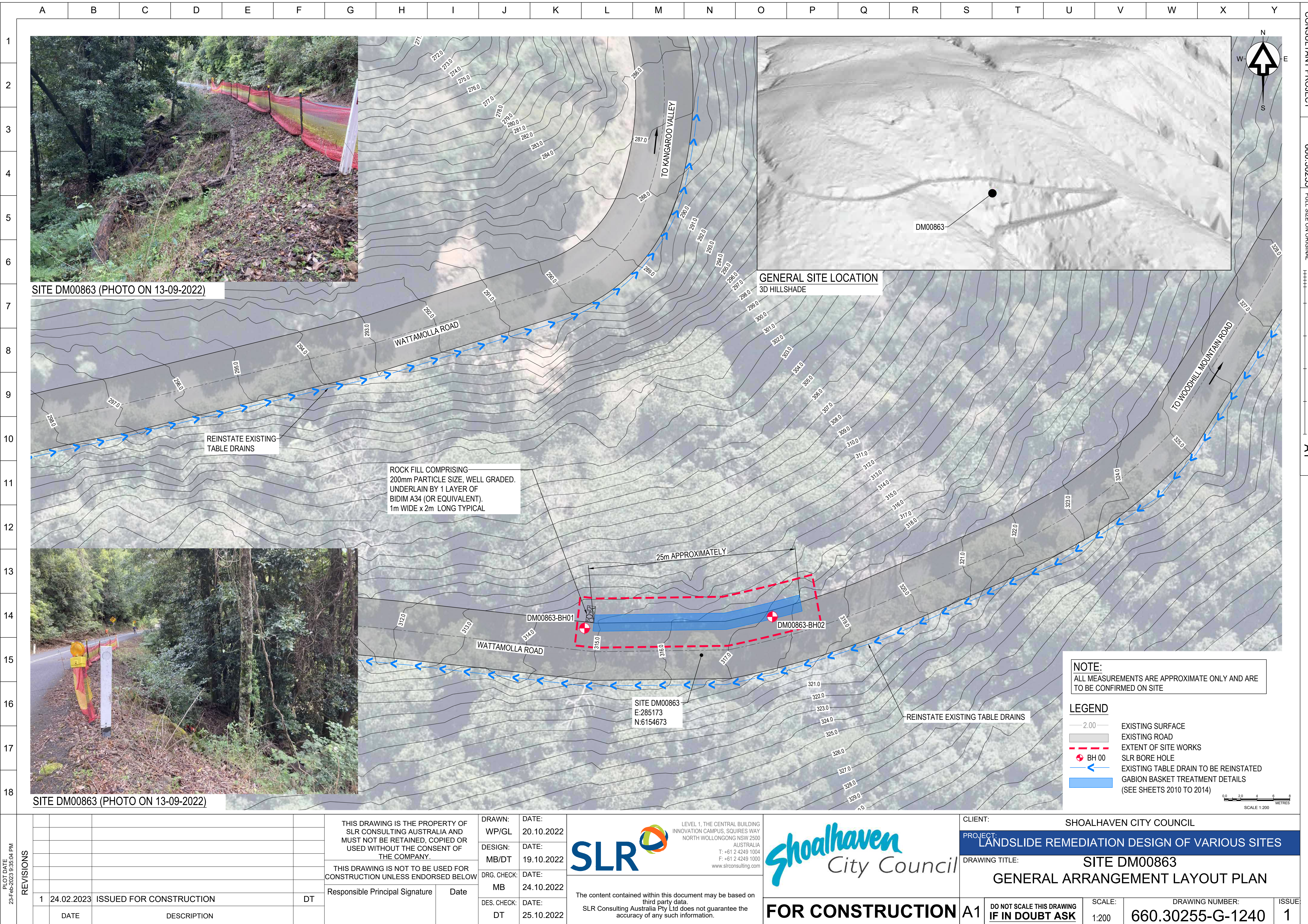
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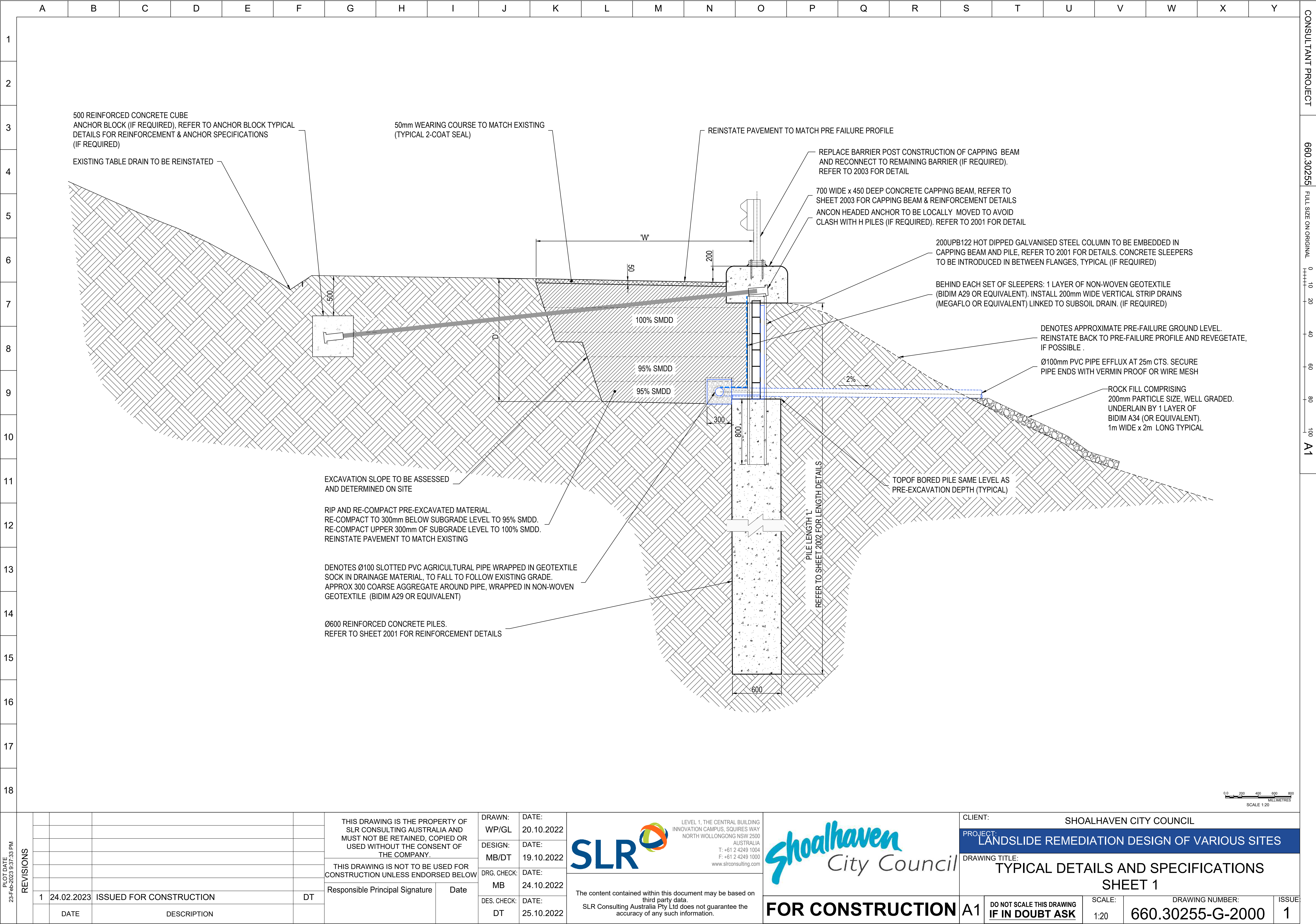
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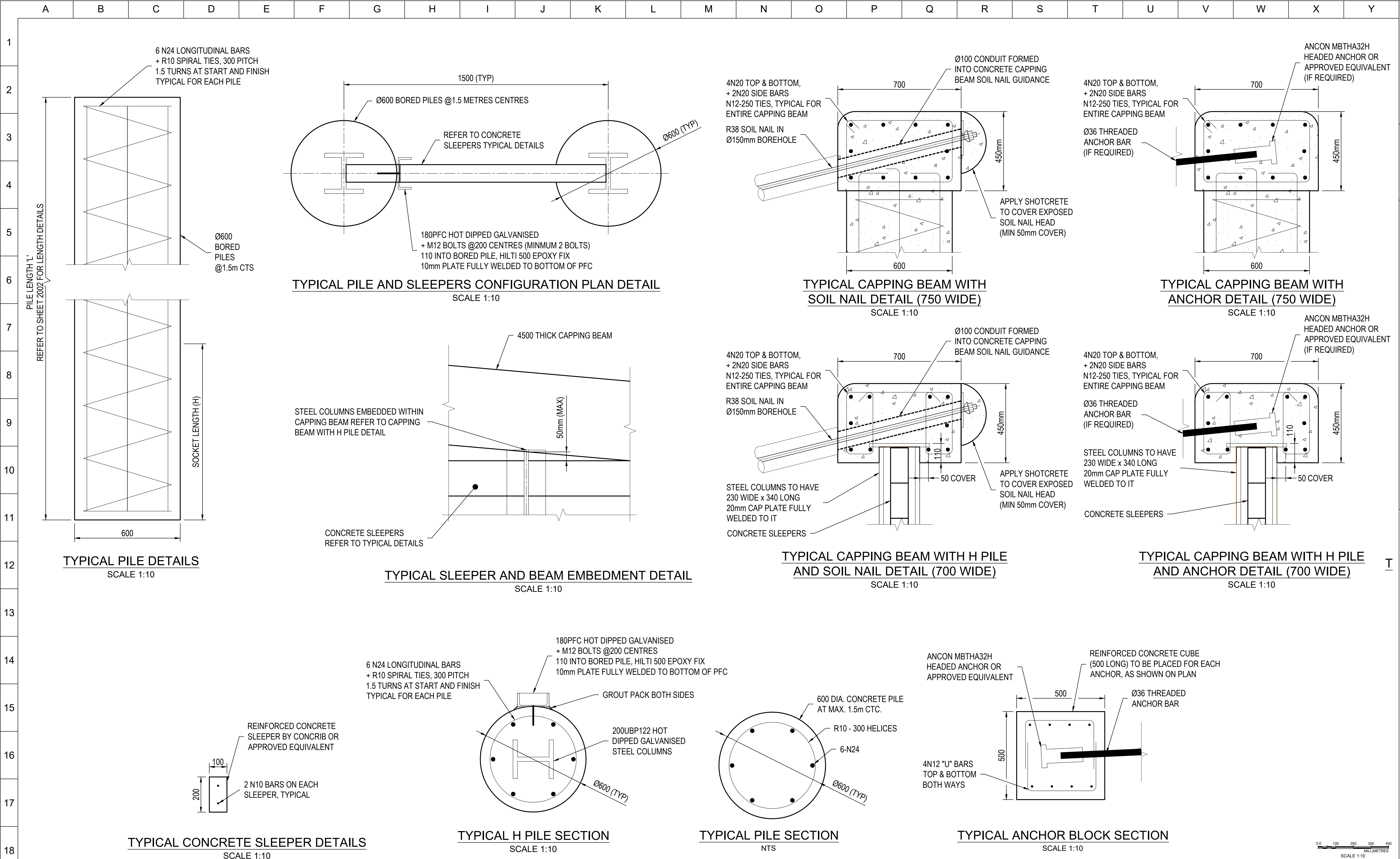




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1																									660.30255	FULL SIZE ON ORIGINAL
2																										
3	CONCRETE PILE SCHEDULE																								0	10
4	RECORD NUMBER	LOCATION	ESTIMATED LENGTH OF TREATMENT (m)	PILE Ø (m)	PILE SPACING (m)	PILE LENGTH 'L' (m)	SOCKET LENGTH 'H' (m)	SLEEPERS REQUIRED	TIE-BACK /ANCHOR REQUIRED	TRAFFIC BARRIER REQUIRED	PRE-EXCAVATION WIDTH - W (m)	PRE-EXCAVATION DEPTH - D (m)	20	40												
5	DM00865	Abernathys Rd	20	0.6	1.5	8	2.0m into RES/EW	Yes (10m)	No	No	0 to 3	0 to 2.5			60	80										
6	DM00548	Bunkers Hill Rd	90	0.6	1.5	10	2.5m into MW	Yes (87m)	No	Yes	0 to 5.5	0 to 2.5	100	A1												
7	DM00549	Bunkers Hill Rd	40	0.6	1.5	5.7	1.0m into MW	Yes (37m)	Yes	Yes	0 to 2.5	0 to 1.5			1											
8	DM00869	Bunkers Hill Rd	55 (20m existing piles to be anchored) (35m new piles to be constructed and anchored)	0.6	1.5	6	2.0m into HW/MW	Yes (re-use existing within damaged piles) No (outside of damaged piles)	Yes	No	0 to 2.5	0 to 1.5														
9	DM00870	Bunkers Hill Rd	42	0.6	1.5	6	1.5m into MW	No	Yes	No	2.5	0.3														
10	SH00288	Burrier Rd	110	0.6	1.5	6	2.5m into RES/EW	Yes (107m)	No	Yes	0 to 2.5	0 to 1.5														
11	SH00292	Burrier Rd	100	0.6	1.5	8.5	3.5m into HW or 2m into MW	No	Yes	Yes	0	0														
12	DM00555	Foremans Rd	35	0.6	1.5	9	2.0m into MW	Yes (32m)	No	No	0 to 5.0	0 to 2.5														
13	DM00805	Kangaroo Valley Rd	40	0.6	1.5	4	1.0m into EW	No	No	Yes	0	0														
14	DM00533	Mount Scanzi Rd	10	0.6	1.5	5	2.0m into RES/EW	No	No	No	1.5	0.3														
15	DM00757	Mount Scanzi Rd	17	0.6	1.5	6	2.0m into RES/EW	No	No	No	1.5	0.3														
16	DM00864	Mount Scanzi Rd	25	0.6	1.5	7	2.0m into EW	No	No	No	1.5	0.3														
17	NH00013	Mount Scanzi Rd	23	0.6	1.5	6	2.0m into RES/EW	No	No	No	1.5	0.3														
18	DM00583	Upper Kangaroo River Rd	65	0.6	1.5	9	1.0m into MW	No	No	No	1.5	0.3														
19	DM00828*	Upper Kangaroo River Rd	25	0.6	1.5	9	1.0m into MW/SW	Yes (22m)	No	No	0	0														
20	DM00513	Wattamolla Rd	86	0.6	1.5	11	1.0m into MW/SW	Yes (77m)	No	No	0 to 8	0.6 to 1.2														
21	SH00276	Wogamia Rd	60	0.6	1.5	8	1.0m into HW/MW	No	No	Yes	1.5	0.3														
22	AQ00001	Upper Kangaroo River Rd	35	0.6	1.5	7	2.0m into EW/HW	No	No	No	0	0														
23	DM00523	Suffolk Rd	40	0.6	1.5	7	1.0m into MW	No	No	No	0	0														
24	DM00706	Browns Mountain Rd	25	0.6	1.8	2.5	2.5m into COL	No	No	No	1.3	0.5														
25	DM00882	Foremans Rd	20	0.6	2	2.5	2.5 into COL	No	No	No	1.3	0.5														
26	DM00282	Burrier Rd	700	0.6	1.5	8 to 10m	2.5m into HW or better	Yes - Some sections do not require treatment	No	Yes	0 to 0.5	0 to 1.0														
27	DM00890	Burrier Rd	20	0.6	1.5	7	2.5m into HW or better	Yes	No	Yes	0 to 0.5	0 to 1.0														
28	NOTE: * PILE CASING POSSIBLY REQUIRED ACROSS 10m SPAN (APPROX) FOR UPPER 2m OF PILE. TO BE CONFIRMED ON SITE.																									
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ABBREVIATIONS:

RES = RESIDUAL

COL = COLLUVIUM

EW = EXTREMELY WEATHERED

HW = HIGHLY WEATHERED

MW = MODERATELY WEATHERED

SW = SLIGHTLY WEATHERED

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										PROJECT: LANDSLIDE REMEDIATION DESIGN OF VARIOUS SITES								
										DRAWING TITLE: TYPICAL DETAILS AND SPECIFICATIONS								
										SHEET 3								
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			DATE	DESCRIPTION														

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CONSULTANT PROJECT 660.30255 FULL SIZE ON ORIGINAL 0 10 20 40 60 80 100 A1

TREATMENT DETAIL 3
SCALE 1:20

TREATMENT DETAIL 6
SCALE 1:20

REVISIONS

NO.	DATE	DESCRIPTION	DT
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1	24.02.2023	ISSUED FOR CONSTRUCTION	DT

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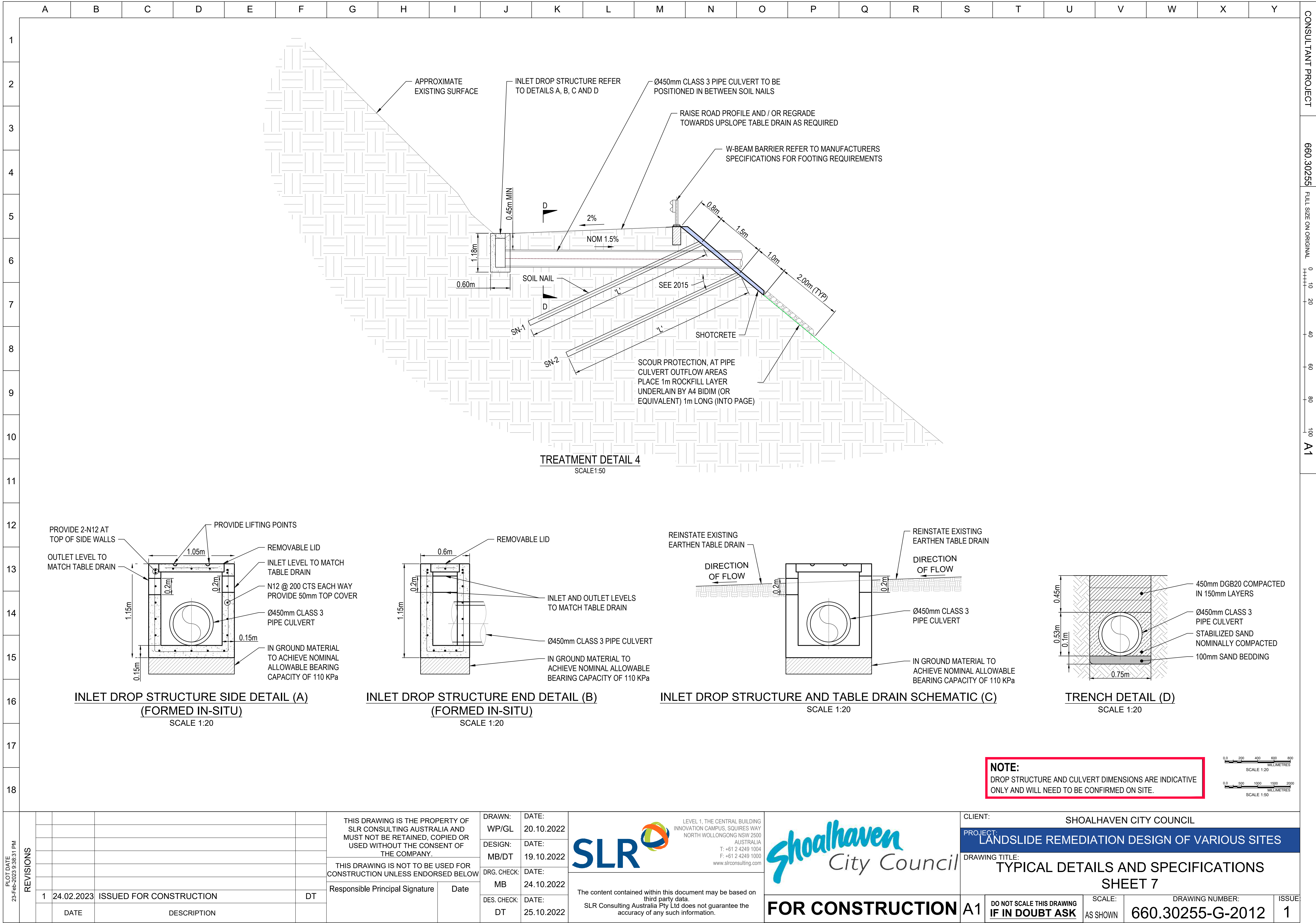
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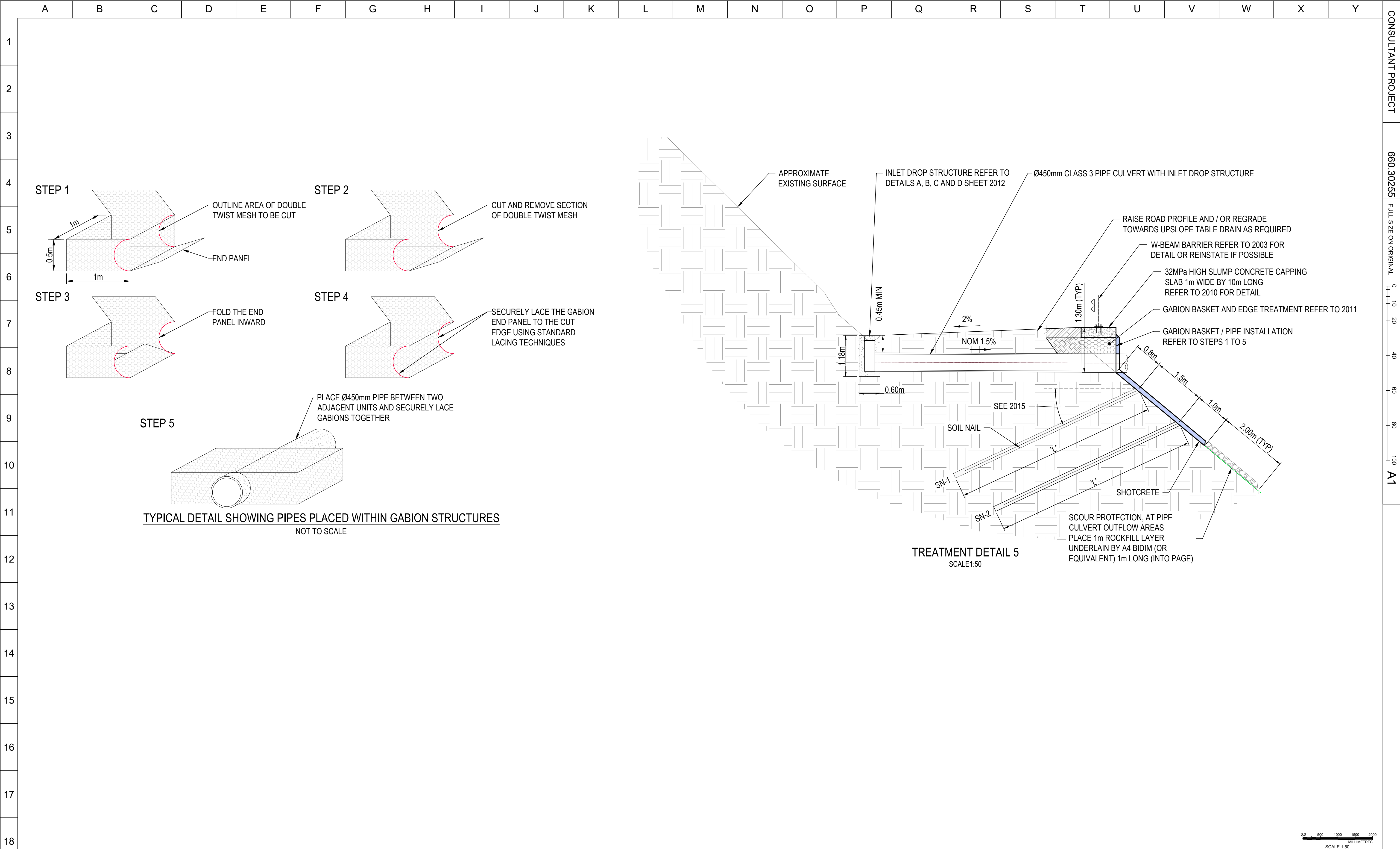
Shoalhaven City Council


FOR CONSTRUCTION



CLIENT: SHOALHAVEN CITY COUNCIL
PROJECT: LANDSLIDE REMEDIATION DESIGN OF VARIOUS SITES
DRAWING TITLE: TYPICAL DETAILS AND SPECIFICATIONS
SHEET 6

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							DRAWING TITLE: TYPICAL DETAILS AND SPECIFICATIONS SHEET 8												
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1																									
2	SOIL NAIL SCHEDULE																								
3	RECORD NUMBER	LOCATION	ESTIMATED LENGTH OF TREATMENT (m)	STACKS OF GABION BASKET OR MASS BLOCK	NUMBER OF SOIL NAIL ROWS	NAIL SIZE (mm)	SOIL NAIL HORIZONTAL SPACING 'S' (m)	SLOPE DISTANCE FROM ROAD SURFACE		SOIL NAIL LENGTH 'L' (m)	ULTIMATE LOAD (kN)	BOREHOLE DIAMETER (mm)	ANGLE FROM HORIZONTAL Ø (deg)	MINIMUM PLATE SIZE	SOCKET LENGTH (m)	TRAFFIC BARRIER REQUIRED									
3	SH00290	Bamarang Rd	45	1	2	R38	1.5	SN-1	0.8	4.5	25	150	15	200 x 200 x 16	1.0m into EW	No									
SN-2			2.3	4.5	25	150	15	200 x 200 x 16	1.0m into EW																
25			NO	2	R38	1.5	SN-1	At the toe of dry stack wall	5.5	25	150	90	200 x 200 x 16	1.0m into EW	No										
SN-2			1.5m from toe of dry stack wall	4.5	25	150	30	200 x 200 x 16	1.0m into EW	No															
4	AC00088	Bunkers Hill Rd	20	0	2	R38	1.5	SN-1	0.8	4	25	150	15	200 x 200 x 16	4.0m into COL	No									
DM00610	Hughes Rd	20	1 (20m)	2	R38	1.5	SN-2	2.3	4	25															
5	DM00611	Hughes Rd	30	1 (20m) 0 (10m)	2	R38	1.5	SN-1	0.8	6	35	150	15	200 x 200 x 16	1.5m into RES	No									
								SN-2	2.3	5.5	40				2.5m into RES										
	DM00718	Mount Scanzi Rd	55	1 (18m) 0 (37m)	2	R38	1.5	SN-1	0.8	5.5	30	150	15	200 x 200 x 16	1.5m into RES	No									
								SN-2	2.3	6	35				2.5m into RES										
6	DM00755	Mount Scanzi Rd	20	1 (20m)	2	R38	1.5	SN-1	0.8	3	20	150	15	200 x 200 x 16	3.0m into COL	No									
								SN-2	2.3	2.5	15				2.5m into COL										
	DM00863	Wattamolla Rd	25	0	2	R38	1.5	SN-1	0.8	4	25	150	15	200 x 200 x 16	4.0m into COL	No									
								SN-2	2.3	4	30														
7	MT00008	Woodhill Mountain Rd	64	0	3	R38	1.5	SN-1	0.7	5.5	55	150	20	200 x 200 x 16	1.0m into RES	Yes									
								SN-2	2.2		50														
								SN-3	3.7		45														
								SN-1	0.8		5.5				40		150	15	200 x 200 x 16	1.5m into RES/EW	No				
SN-2	2.3	3.5m into RES/EW																							
8	DM00548	Bunkers Hill Rd	20	0	4	R38	2.5	SN-1	0.8	2.5	18	150	20	200 x 200 x 16	1.0m into RES/EW	Yes (pile section); No (soil nail section)									
								SN-2	2.8	3	23														
								SN-3	4.8	3	23														
								SN-4	6.8	2.5	18														
9	NH00011	Upper Kangaroo River Rd	25	0	3	R38	1.5	SN-1	0.8	8.5	70	150	15	200 x 200 x 16	1.0m into RES/EW	No									
								SN-2	2.3		65														
								SN-3	3.8		55														
								SN-1	0.35		7				--		150	15	ANCON	1.5m into MW	Yes				
10	DM00869	Bunkers Hill Rd	20	0	2	R38	1.5	SN-1	0.7	7	--	150	15	200 x 200 x 16	2.0m into HW/MW	No									
			35	0	1	R38	8.0	SN-1	0.35	7	--	150	15	ANCON	2.0m into HW/MW										
	DM00870	Bunkers Hill Rd	42	0	1	R38	10.0	SN-1	0.35	7	--	150	15	ANCON	1.5m into MW	No									
	DM00808	Woodhill Mountain Rd	40	0	13	SEE 1260 to 1262 FOR DETAILS										No									
12	LIST OF SITES REMOVED FROM TABLE SH00282 DM00890 SH00292																								
13																									
14																									
15																									
16																									
17																									
18	NOTE: REFER TO 2002 FOR ABBREVIATIONS DEFINITIONS																								
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		DATE		DESCRIPTION																					