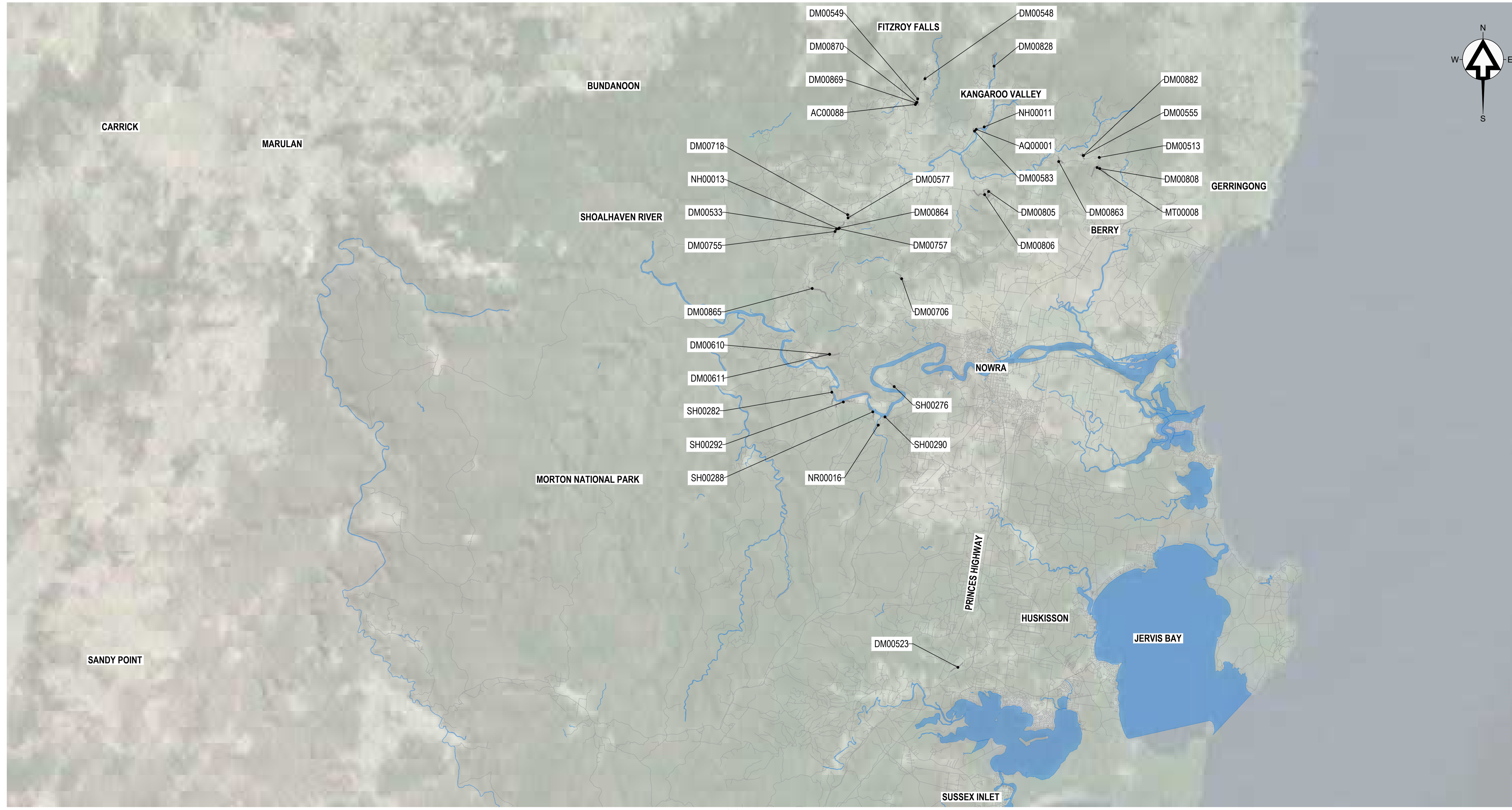


SHOALHAVEN CITY COUNCIL

LANDSLIDE REMEDIATION DESIGN OF VARIOUS SITES



LOCALITY PLAN
1:150,000

PLOT DATE: 22-Feb-2023 4:11:19 PM

NO.	DATE	DESCRIPTION	DT
1	24.02.2023	ISSUED FOR CONSTRUCTION	DT

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DES. CHECK: DT	DATE: 25.10.2022



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FOR CONSTRUCTION A1


CLIENT:	SHOALHAVEN CITY COUNCIL		
PROJECT:	LANDSLIDE REMEDIATION DESIGN OF VARIOUS SITES		
DRAWING TITLE:	COVER SHEET & SITES LOCALITY PLAN		
SCALE:	1:150km	DRAWING NUMBER:	660.30255-G-1000
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CONSULTANT PROJECT: 660.30255 FULL SIZE ON ORIGINAL: 0 10 20 40 60 80 100 A1

	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	DRAWING SCHEDULE (1 OF 2)										DRAWING SCHEDULE (2 OF 2)										COORDINATES TABLE				
	DRAWING NUMBER		DRAWING TITLE		DRAWING NUMBER		DRAWING TITLE		SITE NUMBER		SITE LOCATION		EASTING		NORTHING										
2	660.30255-G-1000	COVER SHEET & SITES LOCALITY PLAN		660.30255-G-1200	SITE DM00583 - GENERAL ARRANGEMENT LAYOUT PLAN		DM00865	Abernathys Rd		266450		6145038													
	660.30255-G-1001	DRAWING SCHEDULE & COORDINATES TABLE		660.30255-G-1201	SITE DM00583 - CROSS SECTIONS SHEET		SH00290	Bamarang Rd		271979		6135292													
3	660.30255-G-1002	GENERAL NOTES SHEET 1					DM00706	Browns Mountain Rd		273244		6145779													
	660.30255-G-1003	GENERAL NOTES SHEET 2					AC00088	Bunkers Hill Rd		274285		6159006													
	660.30255-G-1004	GENERAL NOTES SHEET 3					DM00548	Bunkers Hill Rd		275018		6160966													
4	660.30255-G-1010	SITE DM00865 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00549	Bunkers Hill Rd		274459		6159432													
	660.30255-G-1020	SITE SH00290 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00869	Bunkers Hill Rd		274354		6159116													
5	660.30255-G-1030	SITE DM00706 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00870	Bunkers Hill Rd		274402		6159173													
	660.30255-G-1031	SITE DM00706 - CROSS SECTIONS SHEET					SH00282	Burrier Rd		267939		6137163													
6	660.30255-G-1040	SITE AC00088 - GENERAL ARRANGEMENT LAYOUT PLAN					SH00288	Burrier Rd		271051		6135673													
	660.30255-G-1050	SITE DM00548 - GENERAL ARRANGEMENT LAYOUT PLAN					SH00292	Burrier Rd		268817		6136420													
	660.30255-G-1051	SITE DM00548 - DETAILS SHEET					DM00555	Foremans Rd		287060		6155133													
7	660.30255-G-1060	SITE DM00549 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00882	Foremans Rd		287028		6155134													
	660.30255-G-1070	SITE DM00869 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00610	Hughes Rd		267764		6140045													
	660.30255-G-1071	SITE DM00869 - CROSS SECTIONS SHEET					DM00611	Hughes Rd		267775		6140040													
8	660.30255-G-1080	SITE DM00870 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00805	Kangaroo Valley Rd		279846		6152399													
	660.30255-G-1090	SITE SH00282 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00806	Kangaroo Valley Rd		279546		6152162													
9	660.30255-G-1100	SITE SH00288 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00533	Mount Scanzi Rd		268294		6149554													
	660.30255-G-1110	SITE SH00292 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00577	Mount Scanzi Rd		269153		6150610													
10	660.30255-G-1120	SITES DM00882 & DM00555 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00718	Mount Scanzi Rd		269141		6150636													
	660.30255-G-1121	SITE DM00555 - CROSS SECTIONS SHEET					DM00755	Mount Scanzi Rd		268187		6149366													
	660.30255-G-1122	SITE DM00555 - DETAILS SHEET					DM00757	Mount Scanzi Rd		268466		6149581													
	660.30255-G-1123	SITE DM00882 - CROSS SECTIONS SHEET					DM00864	Mount Scanzi Rd		268507		6149629													
11	660.30255-G-1130	SITES DM00610 & DM00611 - GENERAL ARRANGEMENT LAYOUT PLAN					NH00013	Mount Scanzi Rd		268449		6149585													
	660.30255-G-1140	SITE DM00805 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00583	Upper Kangaroo River Rd		278778		6156987													
12	660.30255-G-1150	SITE DM00806 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00828	Upper Kangaroo River Rd		280258		6161915													
	660.30255-G-1151	SITE DM00806 - DETAILS SHEET					NH00011	Upper Kangaroo River Rd		279513		6157304													
13	660.30255-G-1160	SITE DM00533 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00513	Wattamolla Rd		288246		6154987													
	660.30255-G-1170	SITES DM00577 & DM00718 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00863	Wattamolla Rd		285173		6154673													
14	660.30255-G-1180	SITE DM00755 - GENERAL ARRANGEMENT LAYOUT PLAN					SH00276	Wogamia Rd		272677		6137591													
	660.30255-G-1190	SITES DM00757, NH00013 & DM00864 - GENERAL ARRANGEMENT LAYOUT PLAN					DM00808	Woodhill Mountain Rd		288281		6154144													
15							MT00008	Woodhill Mountain Rd		288085		6154219													
16							NR00016	Yalwal Rd		271466		6134664													
17							AQ00001	Upper Kangaroo River Rd		278908		6157117													
18							DM00523	Suffolk Road		277515		6116275													
							DM00822	Mount Scanzi Rd		269174		6150402													
							DM00890	Burrier Rd		269100		6136495													
							DM00899	Bamarang Rd		272066		6135240													

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	1	24.02.2023		ISSUED FOR CONSTRUCTION	DT			DESIGN: MB/DT	DATE: 20.10.2022	PROJECT: LANDSLIDE REMEDIATION DESIGN OF VARIOUS SITES
								DRG. CHECK: MB	DATE: 24.10.2022	DRAWING TITLE: DRAWING SCHEDULE & COORDINATES TABLE
								DES. CHECK: DT	DATE: 25.10.2022	
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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	EXCAVATION													99. BOTTOM COVER FOR FOOTINGS SHALL BE 75mm UNLESS NOTED OTHERWISE.										STRUCTURAL STEEL			
2	71. SUB VERTICAL EXCAVATION MUST NOT EXCEED 1.5m DEPTH PRIOR TO INSPECTION BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER.													100. DETAILS OF THE PROPOSED MIX TO BE SUBMITTED & APPROVAL OBTAINED PRIOR TO POURING ANY CONCRETE.										124. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS4100 AND AS1554 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.			
3	72. WHERE UNFAVOURABLE EXCAVATION CONDITIONS EXIST SUCH AS SHALLOW LARGE FLOATING BOULDERS, SEEK ENGINEERING ADVICE FROM A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER.													101. IN LIEU OF TRIAL MIX OF CONCRETE TO BE USED, RECENT TRIALS AND PRODUCTION RUNS FOR SIMILAR MIX DESIGNS MAY BE SUBMITTED FOR CONSIDERATION AS EVIDENCE OF COMPLIANCE WITH THE REQUIREMENTS OF THIS SPECIFICATION WITH REGARD TO MIX DESIGN.										125. ALL MATERIAL TO BE GRADE 250 HOT ROLLED PLATES COMPLYING WITH AS 3678 U.N.O.			
4	73. WHERE SHALLOW BEDROCK IS ENCOUNTERED PRIOR TO DESIGN FOUNDATION DEPTH, SEEK ENGINEERING ADVICE FROM A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER.													102. THE CONTRACTOR SHALL ALLOW AT LEAST 1 TEST SECTION EVERY 25 CUBIC METRE OF CONCRETE MIX BROUGHT TO SITE TO DEMONSTRATE COMPLIANCE WITH THIS DOCUMENT. THE FOLLOWING TEST CYLINDERS AND TEST DATA SHALL BE OBTAINED FROM EACH TEST SECTION: A. 7 DAY COMPRESSIVE STRENGTH - 3 CYLINDERS B. 14 DAY COMPRESSIVE STRENGTH - 3 CYLINDERS C. 28 DAY COMPRESSIVE STRENGTH - 3 CYLINDERS										126. WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1554.1 AND SHALL BE GP CATEGORY U.N.O.			
5	74. TEMPORARY CUT FACES TO BE BATTERED BACK TO A SUITABLE SLOPE TO MAINTAIN STABILITY AT ALL TIMES.													103. THE AVERAGE STRENGTH OF THE THREE CYLINDERS TESTED AT 28 DAYS SHALL EXCEED THE SPECIFIED CHARACTERISTIC STRENGTH BY AT LEAST 1.65 TIMES THE STANDARD DEVIATION OF THE RESULTS FOR THAT TRIAL MIX.										127. WELDING CONSUMABLES SHALL BE E49XX OR W50X.			
6	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 BE PLACED WITHIN THIS ZONE SUCH AS VEHICLES AND /OR CONSTRUCTION MATERIALS.													104. CONCRETE NOT IN ACCORDANCE WITH THIS SPECIFICATION OR CONCRETE WHICH IS DEFECTIVE SHALL, AT THE DIRECTION OF THE PRINCIPAL, BE REMOVED FROM THE JOB AND REPLACED BY THE CONTRACTOR.										128. INSPECTION SHALL BE CARRIED OUT TO AS 1554.1			
7	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.													105. THE CONCRETE SHALL BE PLACED IN SUCH A MANNER TO AVOID SEGREGATION OR LOSS OF MATERIALS. MAXIMUM FALL OF CONCRETE 1500mm OR USE ENCLOSED CHUTES OR SIMILAR.										129. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT STEELWORK IS SECURELY BRACED TEMPORARILY AS NECESSARY TO STABILISE THE STRUCTURE DURING ERECTION.			
8	77. EXCAVATED MATERIALS SHALL BE STOCKPILED WITH HEIGHT NOT EXCEEDING 2 M.													106. ALL EXTERNAL HORIZONTAL SURFACES TO HAVE A NOMINAL SURFACE FALL TO PREVENT WATER COLLECTION AND PONDING.										130. THE BUILDER SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL TO STEEL WHETHER OR NOT DETAILED ON THE DRAWINGS.			
9	78. CREATE SEPARATE STOCKPILES FOR DIFFERENT SOIL TYPES. DO NOT MIX SUBGRADE WITH PAVEMENT OR TOPSOIL. PROVIDE ADEQUATE WATERING, DRAINAGE AND EROSION CONTROL.													CONCRETE CURING										SEALANTS AND FILLERS			
10	79. DO NOT ALLOW TRAFFIC ON STOCKPILES.													107. CURING COMPOUNDS SHALL ONLY BE USED ON APPROVAL FROM THE PRINCIPAL. THEY SHALL BE WAX BASED, BE SUITABLY COLOURED FOR IDENTIFICATION PURPOSES, AND SHALL BE TESTED AND MEET ALL OF THE REQUIREMENTS OF AS 3799 - "LIQUID MEMBRANE-FORMING CURING COMPOUNDS FOR CONCRETE".										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°.			
11	80. ALL FINAL SURFACES SHALL BE CONSTRUCTED TO MATCH EXISTING LEVELS UNLESS OTHERWISE APPROVED BY THE PRINCIPAL.													108. CURING COMPOUNDS SHALL BE SUITABLY COLOURED FOR IDENTIFICATION PURPOSES.										132. SEALANTS AND FILLERS MUST COMPLY WITH RMS R83.			
12	DRAINAGE (GENERAL)													109. THE CONTRACTOR SHALL DEMONSTRATE TO THE PRINCIPAL THAT THE CURING COMPOUND IS SUITABLE FOR ALL AMBIENT TEMPERATURES, AND THE PARTICULAR CURING COMPOUND SHALL BE APPROVED PRIOR TO USE.										DRILLING OF SOIL NAIL HOLES			
13	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.													110. CURING COMPOUNDS SHALL NOT BE BASED ON PVA OR CHLORINATED RUBBER.										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.			
14	82. RESHAPE THE EXISTING SURFACE DRAINAGE AND LINED WITH 40MPA SHOTCRETE WITH DOSAGE RATE OF 15KG/M3.													111. CURING COMPOUNDS SHALL BE SUPPLIED WITH A CERTIFICATE OF COMPLIANCE FROM THE MANUFACTURER IN ACCORDANCE WITH AS 3799 - SECTION 3.3. A COPY OF THIS SHALL BE PROVIDED TO THE PRINCIPAL PRIOR TO CONCRETE BEING MIXED.										134. THE CONTRACTOR SHALL INSTALL TEMPORARY CASING TO PREVENT DRILL-HOLE COLLAPSE WHERE REQUIRED.			
15	83. STEEL FLOAT ALL SHOTCRETE SURFACES.													112. WATER FOR CURING SHALL BE POTABLE WATER WITH A pH BETWEEN 5 AND 7, AND SHALL NOT CONTAIN IMPURITIES IN SUFFICIENT QUANTITY TO CAUSE DISCOLOURATION OF THE CONCRETE.										135. WHERE THE GROUND IS SUSCEPTIBLE TO COLLAPSE CASING SHALL BE USED.			
16	GABIONS AND RENO MATTRESS													113. STEAM CURING IS NOT PERMITTED.										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.			
17	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.													REINFORCEMENT (FOOTINGS)										SOIL NAIL AND FACING REINFORCEMENT			
18	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.													114. STEEL REINFORCEMENT MUST BE IN ACCORDANCE WITH AS 4671, DOWELS MUST COMPLY WITH AS 3679.1.										137. SOIL NAILS TO BE DOUBLE ENCAPSULATED AND HOT-DIP GALVANIZED IN ACCORDANCE WITH AS4680.			
19	86. GABIONS MUST HAVE A VALID BRITISH BOARD OF AGRÉMENT (BBA) CERTIFICATE FOR GALFAN + PVC WIRE.													115. MESH REINFORCEMENT SIZE MUST BE IN ACCORDANCE WITH DRAWING DETAILS.										138. DRILL HOLES FOR NAILS MUST BE AT LEAST 150mm DIAMETER AND PREPARED AS PER TFSW R64 U.N.O.			
20	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.													116. REINFORCEMENT MAY BE DISPLACED SLIGHTLY WHERE NECESSARY TO CLEAR DOWELS, ANCHOR BOLTS, FORMED HOLES AND RECESSES.										139. SOIL NAILS TO BE GRADE D500N OR EQUIVALENT HIGH STRENGTH DEFORMED BARS.			
21	88. BIDIM A34 NON-WOVEN GEOTEXTILE (OR APPROVED EQUIVALENT) TO BE PLACED AT ALL ROCKFILL-SOIL INTERFACE, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.													117. AUSTRALIAN STANDARD BAR SHAPES ARE IN ACCORDANCE WITH AS 1100.501.										140. SOIL NAILS MUST BE INSTALLED AS SHOWN IN THE SCHEDULES.			
22	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.													118. BAR SIZE IS THE NOMINAL DIAMETER IN MILLIMETRES, OR THE AS/NZS 4671 FABRIC NUMBER.										141. PROVIDE CENTRALISERS FOR NAILS AT INTERVAL NOT EXCEEDING 2000mm.			
23	PILES AND FOUNDATIONS													119. THE GRADE OF REINFORCEMENT, IF NOT STATED ON THE DRAWINGS SHALL BE D500N TO AS/NZS 4671.										142. STEEL MESH MUST BE GRADE D500N IN ACCORDANCE WITH AS4671.			
24	90. THE BEARING CAPACITY AT FOUNDING LEVEL SHALL BE VERIFIED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE.													120. BAR BENDING AND HOOK DETAILS SHALL BE IN ACCORDANCE WITH SECTION 5.13 OF AS 5100.										143. BEARING PLATE MUST BE GRADE D250N IN ACCORDANCE WITH AS3678			
25	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.													121. LAPS NOT SHOWN ON THE DRAWINGS SHALL BE STAGGERED SO THAT NO MORE THAN 50% OF BARS ARE LAPPED IN ANY CROSS SECTION.										144. SOIL NAIL FACING SHOTCRETE COVER TO REINFORCEMENT FROM AIR = 50mm			
26	92. CLEANLINESS OF PILE BASES SHALL BE CONFIRMED ON SITE BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO CASTING OF PILES.													122. REINFORCEMENT SYMBOLS COMMONLY USED ARE: N DENOTES GRADE 500 MPa N BARS TO AS 4671. R DENOTES GRADE 250 R HOT ROLLED PLAIN BARS TO AS 4671. SL DENOTES SQUARE REINFORCING FABRIC TO AS 4671. RL DENOTES RECTANGULAR REINFORCING FABRIC TO AS 4671. LTM DENOTES TRENCH MESH WHICH SHALL COMPLY WITH AS 4671.										145. SOIL NAIL FACING SHOTCRETE COVER TO REINFORCEMENT FROM GROUND = 75mm			
27	93. ALL BORED PILE WORK SHALL BE IN ACCORDANCE WITH AS2159.													123. THE METHOD USED TO LABEL REINFORCEMENT ON THE DRAWINGS IS AS FOLLOWS:										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.			
28	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.			
29	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.			
30	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.			
31	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.			
32	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.			
33	98. COVER TO REINFORCEMENT NEAREST TO THE CONCRETE SURFACE SHALL BE 50MM UNLESS NOTED OTHERWISE.																										

CONSULTANT PROJECT

660.30255

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0 10 20 40 60 80 100 A1

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							DRG. CHECK: MB	DATE: 24.10.2022						
							DES. CHECK: DT	DATE: 25.10.2022			<div style="display: flex; justify-content: space-between;"> FOR CONSTRUCTION A1 </div> <div style="display: flex; justify-content: space-between; font-size: 10pt;"> DO NOT SCALE THIS DRAWING IF IN DOUBT ASK SCALE: N/A DRAWING NUMBER: 660.30255-G-1003 ISSUE: 1 </div>			
				Responsible Principal Signature	Date									



	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	GROUT REQUIREMENTS							SAFETY BARRIERS							D. INSPECTION & APPROVAL OF STEEL SURFACES PRIOR TO PAINTING AND PROTECTIVE COATINGS.										
2	152. GROUTS MUST HAVE HIGH BLEED RESISTANCE, LOW SHRINKAGE AND HIGH FLUIDITY. DO NOT USE ADDITIVES OR ADMIXTURES WITHOUT THE APPROVAL OF THE PRINCIPAL.							177. RAIL AND RAIL STIFFENING PIECES ARE FROM 2.7 OR 3.5 BMT GRADE HA350 STEEL TO AS 1594 AND HOT DIP GALVANISED TO AS 4680 AFTER FABRICATION. FLAME CUTTING TO RAIL IS NOT PERMITTED. RAIL TO BE STAMPED 350/2.7 BMT (OR SIMILAR).							E. REVIEW & RELEASE OF METHODOLOGY FOR INSTALLATION AND ERECTION.										
3	153. MINIMUM COMPRESSIVE STRENGTH OF GROUT MUST BE 40MPA AT 28 DAYS.							178. RAIL 2.7BMT CAN BE SUPPLIED CURVED TO A MINIMUM RADIUS OF 5000. RAIL 3.5BMT CAN BE SUPPLIED CURVED TO A MINIMUM RADIUS OF 6000.							F. INSPECTION OF ERECTED STEEL WORK PRIOR TO ANY COVERINGS.										
4	154. GROUT FLUIDITY, BLEED AND COMPRESSIVE STRENGTH TESTING TO BE IN ACCORDANCE WITH TFNSW R64 CLAUSE 3.4.3							179. POSTS AND BLOCKOUT PIECES ARE FROM 4.3 BMT PLATE GRADE HA300 STEEL TO AS 1594 AND HOT DIP GALVANISED TO AS 4680 AFTER FABRICATION.							194. SOIL NAILS AND SHOTCRETE FACING										
5	SOIL NAIL TESTING PROCEDURE							180. BMT = BASE METAL THICKNESS.							A. REVIEW & RELEASE OF MATERIAL CERTIFICATES (TFNSW R64 CL. 2.1).										
6	155. NAIL TESTING TO BE CONDUCTED IN ACCORDANCE WITH TFNSW R64.							181. STEEL BASE PLATE AND BOTTOM PLATE ARE TO AS 3678, GRADE HD250. POSTS TO BE WELDED TO BASE PLATE. POSTS AND PLATES HOT DIP GALVANISED TO AS 4680 AFTER FABRICATION							B. REVIEW & RELEASE OF GROUT AND SHOTCRETE MIX, INCLUDING TEST RESULTS (TFNSW R64 CL. 2.2.7 & TFNSW R68 CL. 3.8.1).										
7	156. CONTRACTOR TO CONFIGURE TEST NAILS (INCLUDING NAIL DIAMETER AND BEARING PLATE) TO ENSURE 200% OF THE WORKING BOND STRESS CAN BE ACHIEVED PRIOR TO 80% OF THE BAR YIELD LOAD.							182. HEXAGON BOLTS TO AS 1111 (GRADE 4.6). HEXAGON NUTS TO AS 1112 (GRADE 5). NUTS SHALL BE TAPPED TO SUIT GALVANISED THREADS. BLACK STEEL WASHERS, LARGE SERIES TO AS 1237. BOLTS, NUTS AND WASHERS SHALL BE HOT DIP GALVANISED IN ACCORDANCE WITH THE REQUIREMENTS OF AS 1214.							C. REVIEW & RELEASE OF CONSTRUCTION METHOD STATEMENT (TFNSW R64 3.1).										
8	157. SUITABILITY TESTING ARE TO BE COMPLETED PRIOR TO INSTALLATION OF PRODUCTION NAILS.							183. NUTS SHALL BE SNUG TIGHT TO AS 4100.							D. INSPECTION & APPROVAL OF EXTENT OF WORKS AND SET-OUT OF NAIL LOCATIONS.										
9	158. A TOTAL OF 3% OF PERMANENT NAILS SHALL BE SUBJECTED TO ACCEPTANCE TESTS .							184. TERMINAL CONNECTORS ARE FROM 2.7 BMT GRADE HA350 STEEL TO AS 1594 AND HOT DIP GALVANISED TO AS 4680 AFTER FABRICATION.							E. WITNESS OF INSTALLATION OF PRODUCTION NAILS (TFNSW R64 CL. 3.4).										
10	159. LOCATIONS OF THE SUITABILITY AND ACCEPTANCE TEST SOIL NAILS TO BE CONFIRMED ON SITE.							185. DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE NOMINATED. TRAFFIC BARRIERS SHOULD SATISFY R132.							F. WITNESS OF EXPOSED SLOPE FACE AFTER CLEARING OF EACH SECTION (TFNSW R64 CL. 3.3).										
11	SHOTCRETE							HOLD POINTS, WITNESS POINTS AND APPROVALS							G. INSPECTION & APPROVAL OF GROUTING OF NAILS (R64 CL. 3.4.3.4).										
12	160. SHOTCRETE TO BE IN ACCORDANCE WITH TFNSW R68.							186. A SUITABLY QUALIFIED GEOETCHNICAL ENGINEER TO BE PRESENT ON SITE DURING CONSTRUCTION. GROUND CONDITIONS AND DESIGN ASSUMPTIONS SHALL BE VALIDATED DURING CONSTRUCTION.							H. REVIEW & APPROVAL OF SUITABILITY TEST RECORD (TFNSW R64 CL. 5.2.1).										
13	161. MINIMUM COMPRESSIVE STRENGTH OF SHOTCRETE MUST BE 40MPA AT 28 DAYS. USE SHRINKAGE LIMITED CEMENT IN SHOTCRETE IN ACCORDANCE WITH SPECIFICATION TFNSW R68 AND TFNSW QA3211.							187. THE CONTRACTOR SHALL PROVIDE TO THE PRINCIPAL'S REPRESENTATIVE A MINIMUM OF 2 WORKING DAYS' NOTICE FOR ANY INSPECTION AND 7 DAYS FOR ANY REVIEWS OF SHOP DRAWINGS AND ALTERNATIVE DESIGNS.							I. REVIEW & APPROVAL OF TEST RESULTS FOR ACCEPTANCE TEST NAILS (TFNSW R64 CL. 5.2.2).										
14	162. SHOTCRETE MIX DESIGN TO EXPOSURE CLASSIFICATION B:2 IN ACCORDANCE WITH TFNSW R64 CLAUSE 2.3.3.							188. THE GENERAL AND PROJECT START UP MANDATORY HOLD POINTS ARE:							J. INSPECTION & APPROVAL OF SURFACE PREPARATION FOR MESH PLACEMENT AND SHOTCRETING TFNSW R64 CL. 6.2 & TFNSW R68 CL. 4.2).										
15	163. SHOTCRETE QUALITY TESTING IN ACCORDANCE WITH TFNSW R68 CLAUSE 8.5 AND ANNEXURE R68/L.							A. REVIEW & RELEASE OF WHS PLAN, INCLUDING SWMS.							K. WITNESS OF SHOTCRETE MESH PLACEMENT AND WALL DRAINAGE (R68 CL. 5.5 AND CL. 5.6).										
16	164. APPROPRIATE THICKNESS GAUGES SHALL BE FIXED TO THE STEELWORKS TO ALLOW PROOF OF ADEQUATE COVER.							B. REVIEW & RELEASE OF CONSTRUCTION STAGING PLANS.							L. WITNESS OF SHOTCRETE PLACEMENT (TFNSW R68 CL. 7).										
17	FIBRECRETE							C. REVIEW & RELEASE OF CONSTRUCTION PROGRAM.							M. REVIEW & APPROVAL OF SHOTCRETE TEST RESULTS (R68 CL. 8.5).										
18	165. FIBRECRETE TO BE IN ACCORDANCE WITH TFNSW B82.							D. REVIEW & RELEASE OF CONSTRUCTION ENVIRONMENTAL SITE MANAGEMENT PLAN (CEMP).																	
19	166. MINIMUM COMPRESSIVE STRENGTH OF FIBRECRETE MUST BE 40MPA AT 28 DAYS. USE SHRINKAGE LIMITED CEMENT IN FIBRECRETE IN ACCORDANCE WITH SPECIFICATION TFNSW B82 AND TFNSW QA3211.							E. REVIEW & RELEASE OF PROJECT QUALITY PLAN (INCLUDING ITP'S)																	
20	167. FIBRECRETE MIX DESIGN TO EXPOSURE CLASSIFICATION B:2 IN ACCORDANCE WITH TFNSW R64 CLAUSE 2.3.3.							189. DEMOLITION (AS REQUIRED)																	
21	168. SHOTCRETE QUALITY TESTING IN ACCORDANCE WITH TFNSW B82.							A. REVIEW & RELEASE OF METHODOLOGY FOR DEMOLITION.																	
22	169. APPROPRIATE THICKNESS GAUGES SHALL BE FIXED TO THE STEELWORKS TO ALLOW PROOF OF ADEQUATE COVER.							B. WITNESS PRIOR TO COMMENCEMENT OF DEMOLITION.																	
23	DRAINAGE (SOIL NAILING)							C. PROVISION OF ANY LICENSES AND AUTHORITY APPROVALS.																	
24	170. 150mm HDPE STRIP FILTER DRAIN (FLEXIBLE CUSPATED DRAINS) TO BE IN ACCORDANCE WITH TFNSW QA3557.							190. SURVEY AND SET OUT																	
25	171. BOTTOM OF THE STRIP DRAINS DAYLIGHT AT BOTTOM OF SHOTCRETE WALL FACING.							191. EXCAVATION AND EARTHWORKS																	
26	172. HDPE STRIP DRAIN TO BE CORRUGATED CORE PERFORATED AND MUST BE INSTALLED DIAGONALLY ACROSS SLOPE FACE AT 45°.							A. REVIEW & RELEASE OF METHODOLOGY FOR EXCAVATION, SHORING AND FILLING.																	
27	173. STRIP DRAINS MUST BE CHASED INTO SOIL SLOPE TO ALLOW FULL SHOTCRETE THICKNESS AT ALL LOCATIONS.							B. REVIEW & RELEASE OF IMPORTED FILL MATERIAL.																	
28	174. WHERE CONNECTION IS TO BE MADE TO AN EXISTING DRAINAGE STRUCTURE OR OPEN DRAIN THE POSITION AND LEVEL OF EXISTING DRAINAGE STRUCTURE SHALL BE CONFIRMED PRIOR TO CONSTRUCTION. BLEND CONNECTIONS SMOOTHLY TO ENSURE PROPER DRAINAGE AT ALL POINTS.							i. PROVIDE EVIDENCE OF SERVICE LOCATION, PRIOR TO ANY EXCAVATION, AND COMPLY TO THE PRINCIPAL'S EXCAVATION PERMIT REQUIREMENTS.																	
29	SPECIFICATIONS (SOIL NAILING)							ii. DENSITY TEST RESULTS OF FILLED AND COMPACTED MATERIAL.																	
30	175. ALL SOIL NAILING MATERIALS AND WORK IS TO COMPLY WITH THE FOLLOWING TFNSW PROJECT SPECIFIC SPECIFICATIONS:							C. WITNESS BEARING CAPACITY OF EXCAVATIONS PRIOR TO POURING OF ANY FOUNDATIONS BY GEOTECHNICAL ENGINEER.																	
31	A. R64 SOIL NAILING							192. CONCRETE																	
32	B. R68 SHOTCRETE WITHOUT FIBRES							A. REVIEW & RELEASE OF CONCRETE MIX DESIGN. THIS INCLUDES ASSESSMENT OF SLUMP TEST RESULTS ON CONCRETE DELIVERY.																	
33	C. B82 SHOTCRETE WITH FIBRES							B. REVIEW & RELEASE OF CONCRETE SURFACES (AND REINFORCEMENT CONDITION) FOLLOWING DEMOLITION, SCABBLING, CUTTING AND SAWING.																	
34	D. R178 REVEGETATION							C. WITNESS OF COMPLETED REINFORCEMENT FIXED IN PLACE.																	
35	176. ALL SOIL NAILING MATERIALS AND WORK IS TO COMPLY WITH THE FOLLOWING TFNSW QA STANDARD SPECIFICATIONS:							D. WITNESS OF COMPLETED FORMWORK.																	
36	A. R23 PLASTIC FLEXIBLE PIPES							E. REVIEW & APPROVAL OF CONCRETE TEST RESULTS.																	
37	B. R53 CONCRETE FOR GENERAL USE MORTAR AND GROUT							F. WITNESS PRIOR TO POURING CONCRETE.																	
38	C. R55 ROCK FILLED GABIONS AND MATTRESSES							193. STRUCTURAL STEEL AND OTHER METALS																	
39	D. R63 GEOTEXTILES							A. SHOP DETAILS FOR REVIEW AND COMMENT.																	
40	E. R71 UNBOUND AND MODIFIED PAVEMENT COURSE							B. INSPECTION & APPROVAL OF FABRICATED ELEMENTS PRIOR TO DELIVERY.																	
41	F. 3557 FLEXIBLE STRIP FILTER DRAINS							C. WELD TESTING RESULTS, PRIOR TO DELIVERY.																	

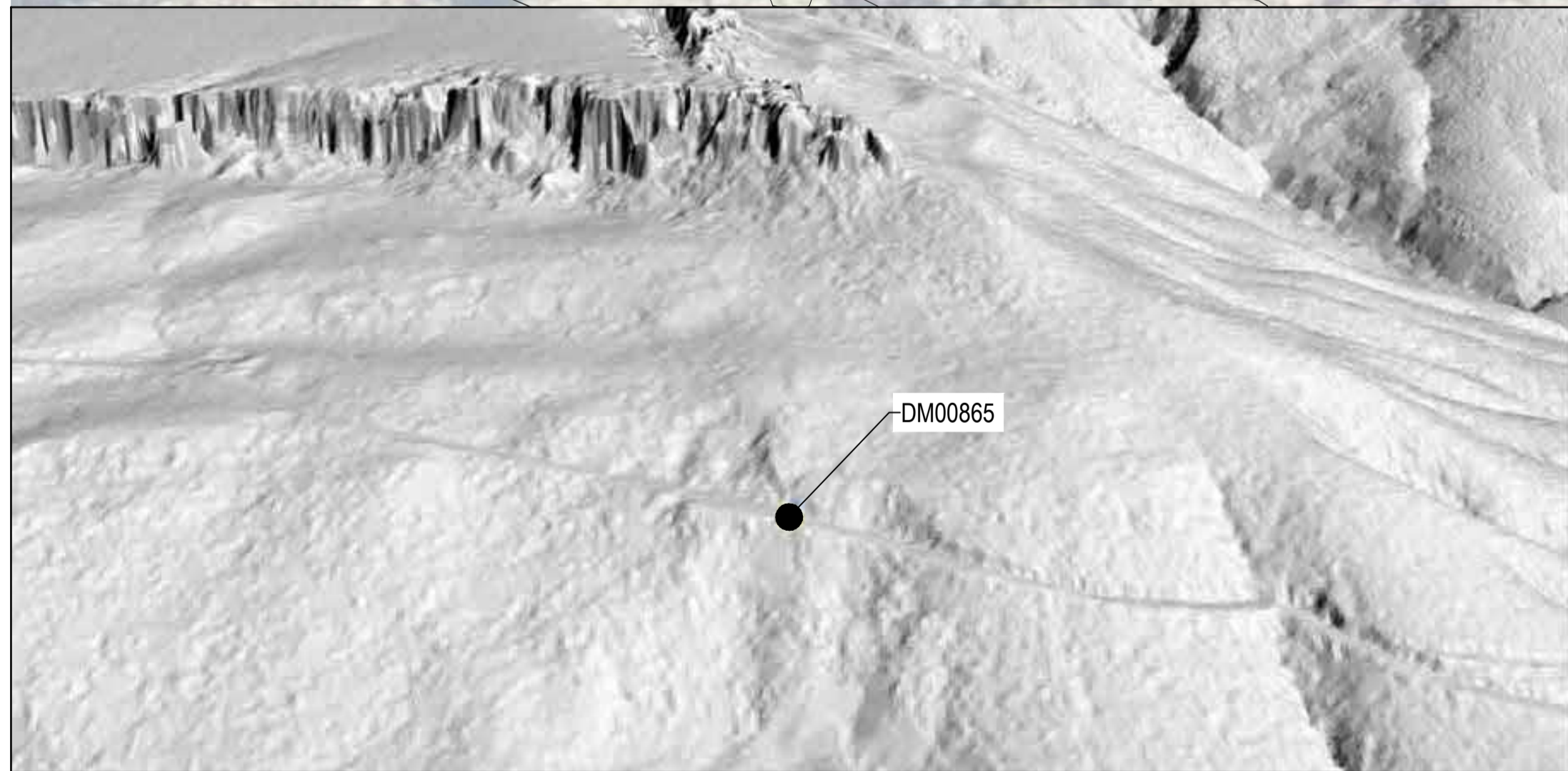
CONSULTANT PROJECT

660.30255

FULL SIZE ON ORIGINAL

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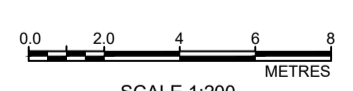
PLOT DATE 22-Feb-2023 4:11:58 PM	REVISIONS		THIS DRAWING IS THE PROPERTY OF SLR CONSULTING AUSTRALIA AND MUST NOT BE RETAINED, COPIED OR USED WITHOUT THE CONSENT OF THE COMPANY.	DRAWN:	DATE:	 LEVEL 1, THE CENTRAL BUILDING INNOVATION CAMPUS, SQUIRES WAY NORTH WOLLONGONG NSW 2500 AUSTRALIA T: +61 2 4249 1004 F: +61 2 4249 1000 www.slrc consulting.com		CLIENT: SHOALHAVEN CITY COUNCIL					
	1	24.02.2023		ISSUED FOR CONSTRUCTION	DT			DESIGN:	DATE:	PROJECT: LANDSLIDE REMEDIATION DESIGN OF VARIOUS SITES			
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				Responsible Principal Signature	Date			DRG. CHECK:	DATE:				
		DATE	DESCRIPTION	DES. CHECK:	DATE:								
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						DRAWING NUMBER: 660.30255-G-1004							
						ISSUE: 1							



NOTE:
ALL MEASUREMENTS ARE APPROXIMATE ONLY AND ARE TO BE CONFIRMED ON SITE

LEGEND

	2.00	EXISTING SURFACE
		EXISTING ROAD
		EXTENT OF SITE WORKS
	BH 00	SLR BORE HOLE
		EXISTING TABLE DRAIN TO BE REINSTATED
		STABILISING PILES TREATMENT DETAILS (SEE SHEETS 2000 TO 2003)



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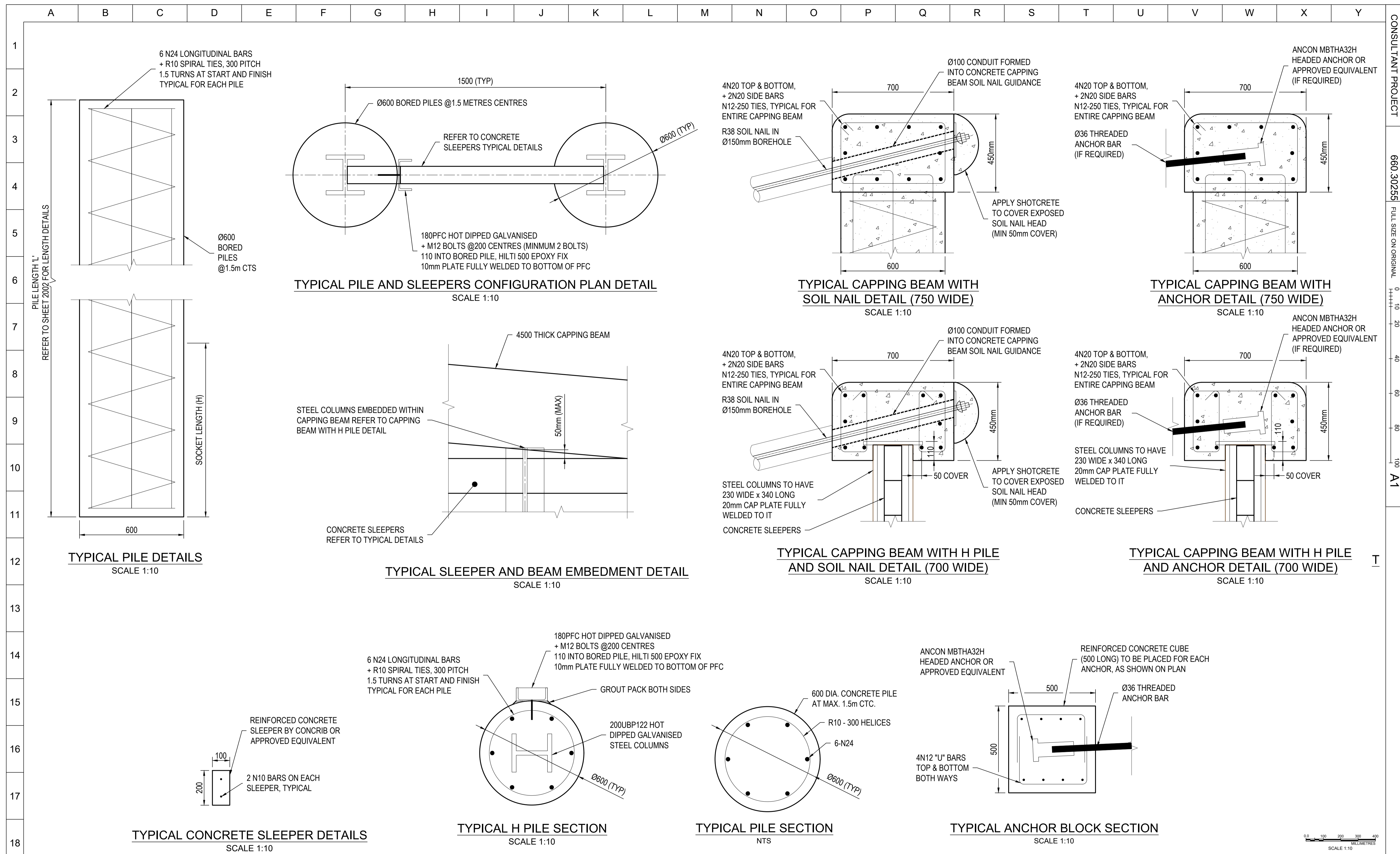
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Shoalhaven City Council

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CLIENT:	SHOALHAVEN CITY COUNCIL
PROJECT:	LANDSLIDE REMEDIATION DESIGN OF VARIOUS SITES
DRAWING TITLE:	SITE DM00865 GENERAL ARRANGEMENT LAYOUT PLAN
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DRAWING NUMBER:	660.30255-G-1010
ISSUE:	1



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 DRG. CHECK: MB DATE: 24.10.2022
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Shoalhaven City Council

FOR CONSTRUCTION A1

CLIENT: SHOALHAVEN CITY COUNCIL

PROJECT: LANDSLIDE REMEDIATION DESIGN OF VARIOUS SITES

DRAWING TITLE: TYPICAL DETAILS AND SPECIFICATIONS SHEET 2

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SCALE: 1:10 DRAWING NUMBER: 660.30255-G-2001 ISSUE: 1

CONCRETE PILE SCHEDULE

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)
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
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
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
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
DM00870	Bunkers Hill Rd	42	0.6	1.5	6	1.5m into MW	No	Yes	No	2.5	0.3
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
SH00292	Burrier Rd	100	0.6	1.5	8.5	3.5m into HW or 2m into MW	No	Yes	Yes	0	0
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
DM00805	Kangaroo Valley Rd	40	0.6	1.5	4	1.0m into EW	No	No	Yes	0	0
DM00533	Mount Scanzi Rd	10	0.6	1.5	5	2.0m into RES/EW	No	No	No	1.5	0.3
DM00757	Mount Scanzi Rd	17	0.6	1.5	6	2.0m into RES/EW	No	No	No	1.5	0.3
DM00864	Mount Scanzi Rd	25	0.6	1.5	7	2.0m into EW	No	No	No	1.5	0.3
NH00013	Mount Scanzi Rd	23	0.6	1.5	6	2.0m into RES/EW	No	No	No	1.5	0.3
DM00583	Upper Kangaroo River Rd	65	0.6	1.5	9	1.0m into MW	No	No	No	1.5	0.3
DM00828*	Upper Kangaroo River Rd	25	0.6	1.5	9	1.0m into MW/SW	Yes (22m)	No	No	0	0
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
SH00276	Wogamia Rd	60	0.6	1.5	8	1.0m into HW/MW	No	No	Yes	1.5	0.3
AQ00001	Upper Kangaroo River Rd	35	0.6	1.5	7	2.0m into EW/HW	No	No	No	0	0
DM00523	Suffolk Rd	40	0.6	1.5	7	1.0m into MW	No	No	No	0	0
DM00706	Browns Mountain Rd	25	0.6	1.8	2.5	2.5m into COL	No	No	No	1.3	0.5
DM00882	Foremans Rd	20	0.6	2	2.5	2.5 into COL	No	No	No	1.3	0.5
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
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

NOTE: * PILE CASING POSSIBLY REQUIRED ACROSS 10m SPAN (APPROX) FOR UPPER 2m OF PILE. TO BE CONFIRMED ON SITE.


ABBREVIATIONS:
 RES = RESIDUAL
 COL = COLLUVIUM
 EW = EXTREMELY WEATHERED
 HW = HIGHLY WEATHERED
 MW = MODERATELY WEATHERED
 SW = SLIGHTLY WEATHERED

PLOT DATE: 10-Mar-2023 10:02:26 AM

REVISIONS	DATE	DESCRIPTION	DT
2	10.03.2023	ISSUED FOR CONSTRUCTION	DT
1	24.02.2023	ISSUED FOR CONSTRUCTION	DT

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FOR CONSTRUCTION A1

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DRAWING TITLE: TYPICAL DETAILS AND SPECIFICATIONS SHEET 3
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SCALE: N/A
DRAWING NUMBER: 660.30255-G-2002
ISSUE: 2