

Democratic Socialist Republic of Sri Lanka

Ministry of Defence



National Building Research Institute (NBRI)



Reduction of Landslide Vulnerability by Mitigation Measures Project (RLVMMP)

funded by Asian Infrastructure Investment Bank (AIIB)

(Loan No: L0124A)

DRAWINGS

Rectification of Unstable Slopes at 06 Locations in Darmaraja College (Site No. 242) - Kandy in Kandy District Under Package 10T of Reduction of Landslide Vulnerability by Mitigation Measures Project (RLVMMP)

Contract No: RLVMMP/WORKS/10T

July 2026

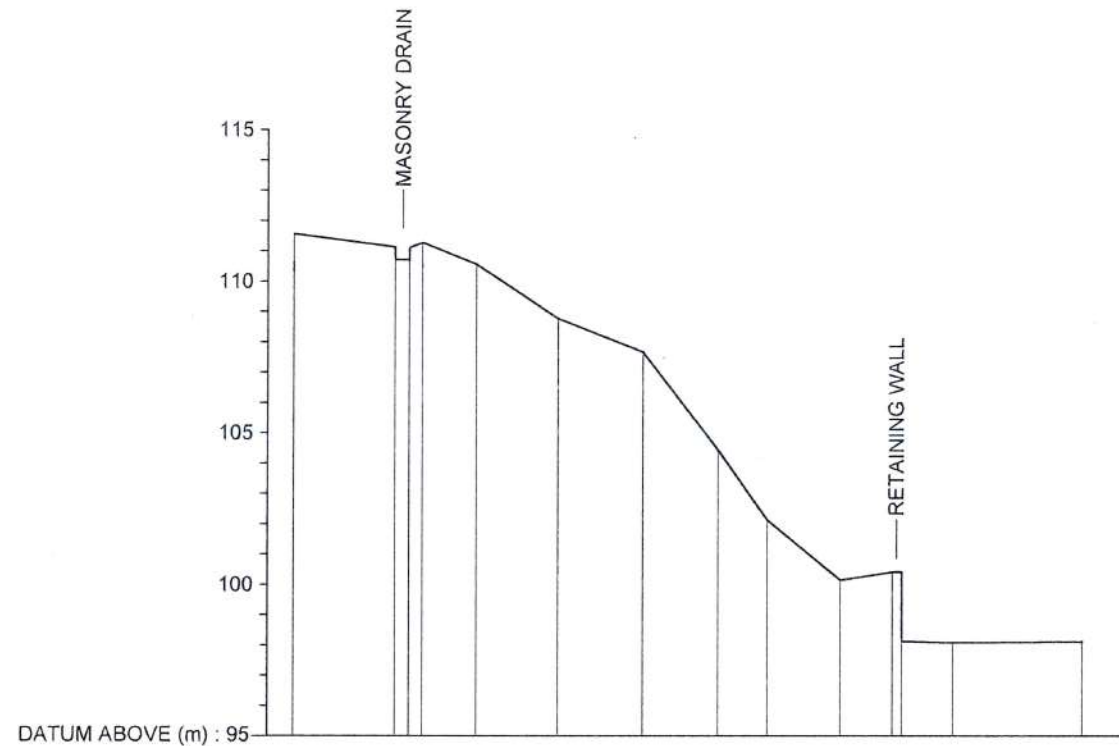


REFERENCE

- ELECTRIC POST EP
- CRACK LINE CL
- MASONRY DRAIN MDn
- PERMANENT BUILDING P
- RETAINING WALL RW
- SCAR
- SECTIONS
- TREE
- REFERENCE POINT

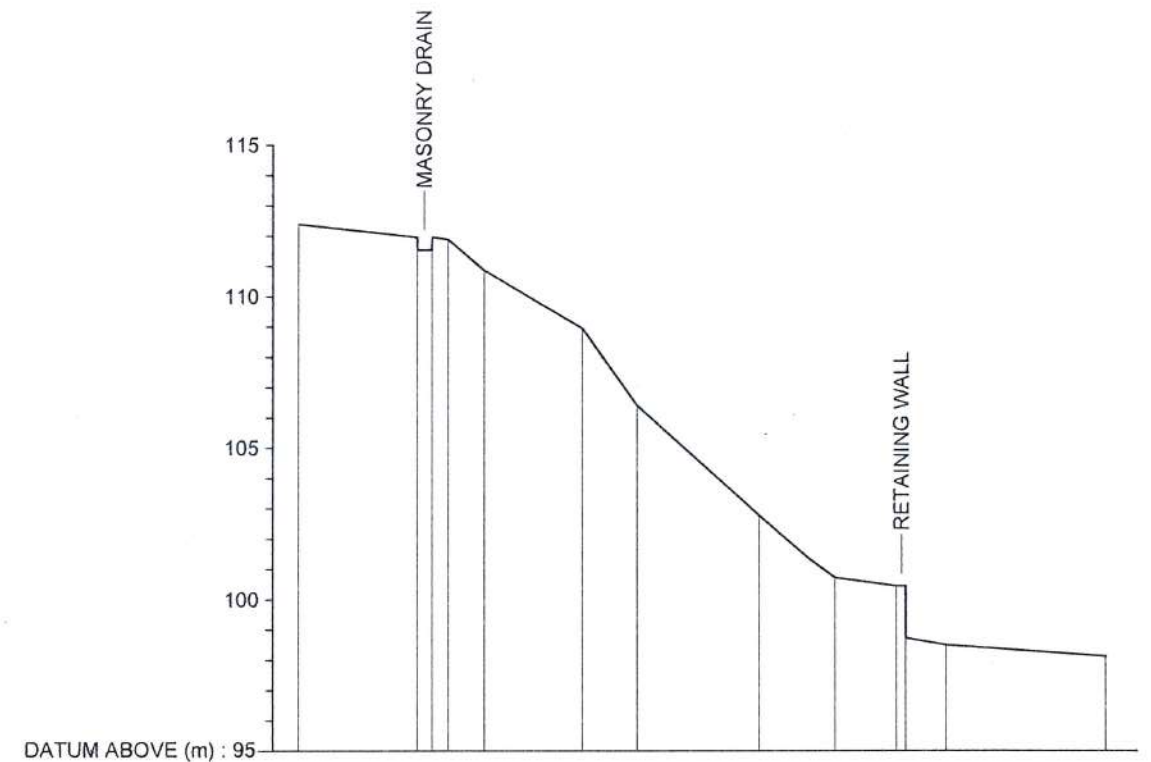
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974.16	2033.27	101.173	2
1028.569	2028.645	118.045	3
998.15	2051.638	116.441	CP02
1074.145	1949.818	113	CP04

EMPLOYER		DESIGNER		REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE	TITLE			DESCRIPTION	NAME	SIGNATURE
	DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05		DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05					REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ACCESS ROAD OFF DHARMARAJA MAWATHA DHARMARAJA COLLEGE KANDY LOCATION 1	SURVEY PLAN			SURVEYED	W.L.P.N.N. WIJESINGHE	
												CHECKED	R.J.K.P.N. RANATHUNGA	
									SCALE 1:500	DATE	14.05.2026			
									PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/L1/DR 01		REVISION 00			



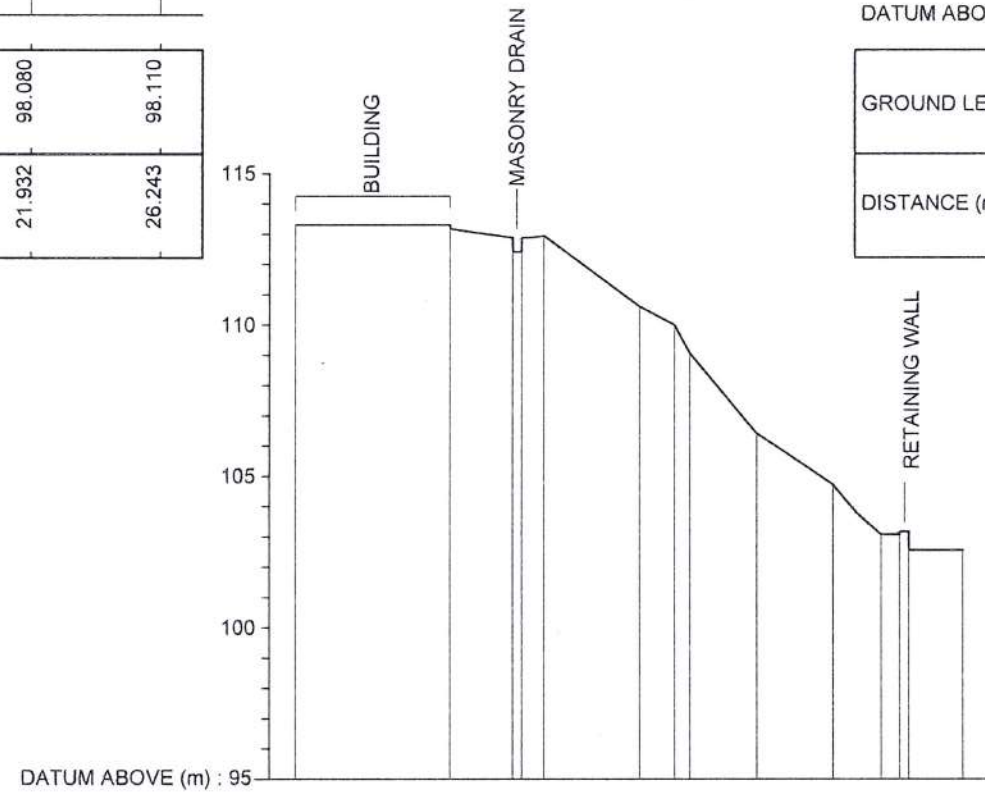
GROUND LEVEL (m)	111.570	111.130	110.710	111.280	110.560	108.770	107.670	104.440	102.140	100.150	100.410	98.130	98.080	98.110
DISTANCE (m)	0.000	3.361	3.828	4.279	6.068	8.801	11.636	14.142	15.770	18.190	19.923	20.233	21.932	26.243

CS 1



GROUND LEVEL (m)	112.390	111.960	111.530	111.880	110.870	108.950	106.410	102.770	101.370	100.720	100.440	98.730	98.500	98.130
DISTANCE (m)	0.000	3.945	4.433	4.964	6.150	9.423	11.240	15.316	16.932	17.839	19.874	20.184	21.528	26.821

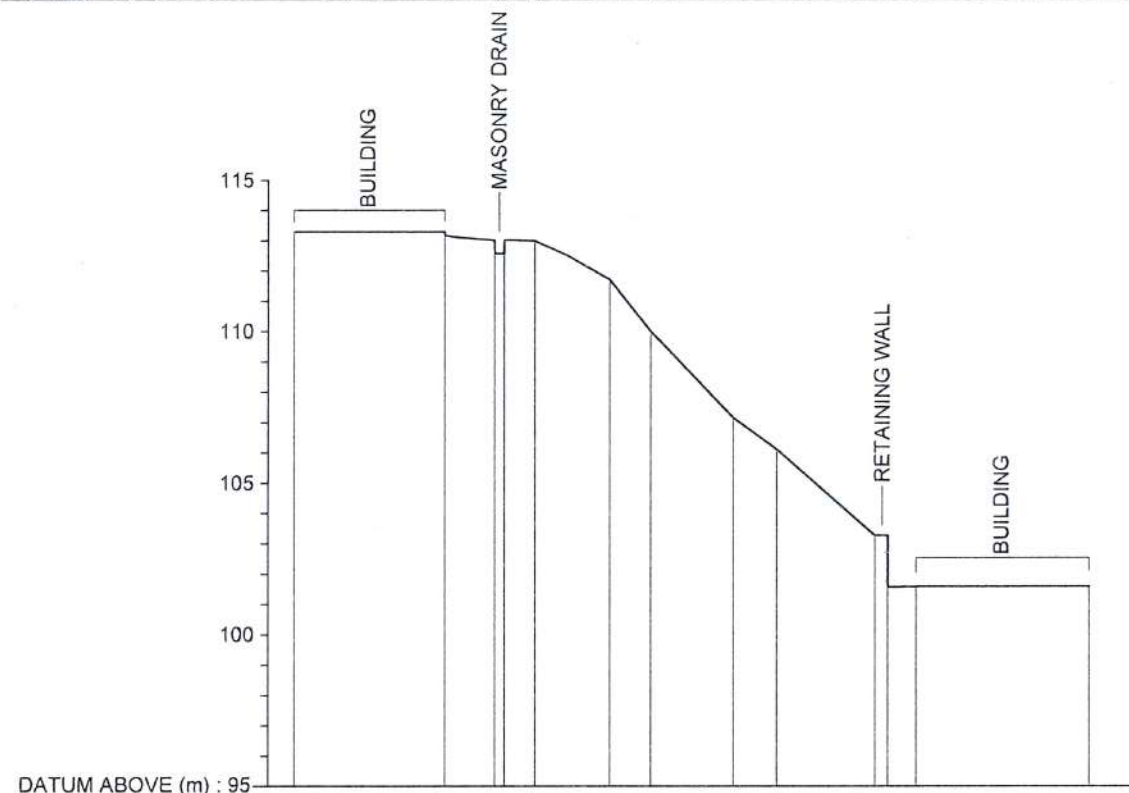
CS 2



GROUND LEVEL (m)	0.000	5.129	7.207	7.494	8.250	11.439	12.593	13.110	15.332	17.877	19.462	20.068	20.378	22.172
DISTANCE (m)	0.000	5.129	7.207	7.494	8.250	11.439	12.593	13.110	15.332	17.877	19.462	20.068	20.378	22.172

CS 3

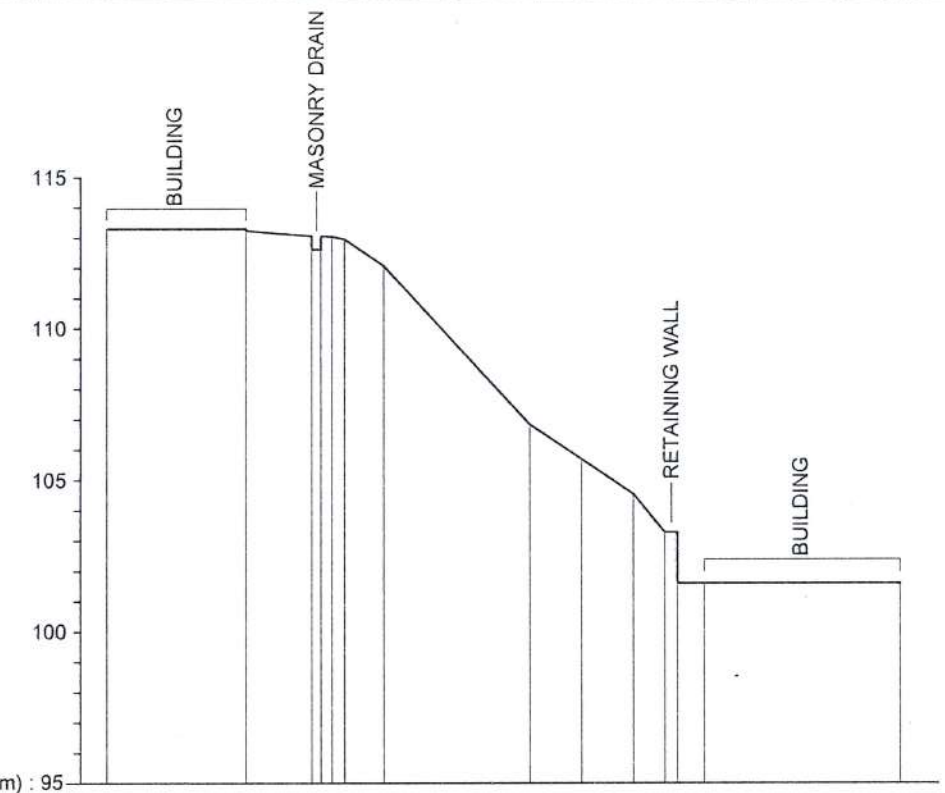
EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ACCESS ROAD OFF DHARMARAJA MAWATHA DHARMARAJA COLLEGE KANDY LOCATION 1	TITLE EXISTING CROSS SECTIONS	DESCRIPTION	NAME	SIGNATURE	
								SURVEYED	W.L.P.N.N. WIJESINGHE	For	
								CHECKED	R.J.K.P.N. RANATHUNGA		
						SCALE	1:250	DATE	14.05.2026		
						PROJECT / DRAWING No.	RLVMMP/WORKS/NCB/PH III/228/L1/DR 02a	REVISION	00		



DATUM ABOVE (m) : 95

GROUND LEVEL (m)	113.300	113.300	112.580	113.020	113.000	111.720	110.020	107.160	106.120	103.280	101.569	101.590	101.590
DISTANCE (m)	0.000	5.028	6.675	7.001	8.016	10.504	11.852	14.604	16.041	19.312	19.733	20.671	26.410

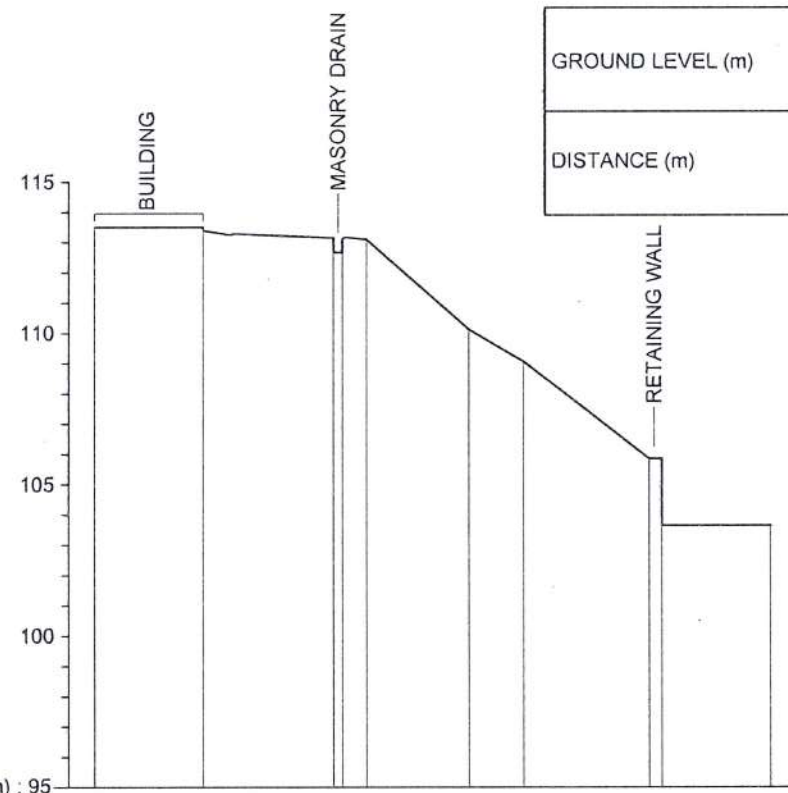
CS 4



DATUM ABOVE (m) : 95

GROUND LEVEL (m)	113.300	113.300	113.240	112.610	113.060	113.040	112.960	112.080	106.840	105.700	104.540	103.280	101.590	101.590
DISTANCE (m)	0.000	4.639	4.639	6.847	7.158	7.329	7.936	9.229	14.083	15.799	17.514	18.567	18.988	19.877

CS 5

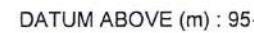


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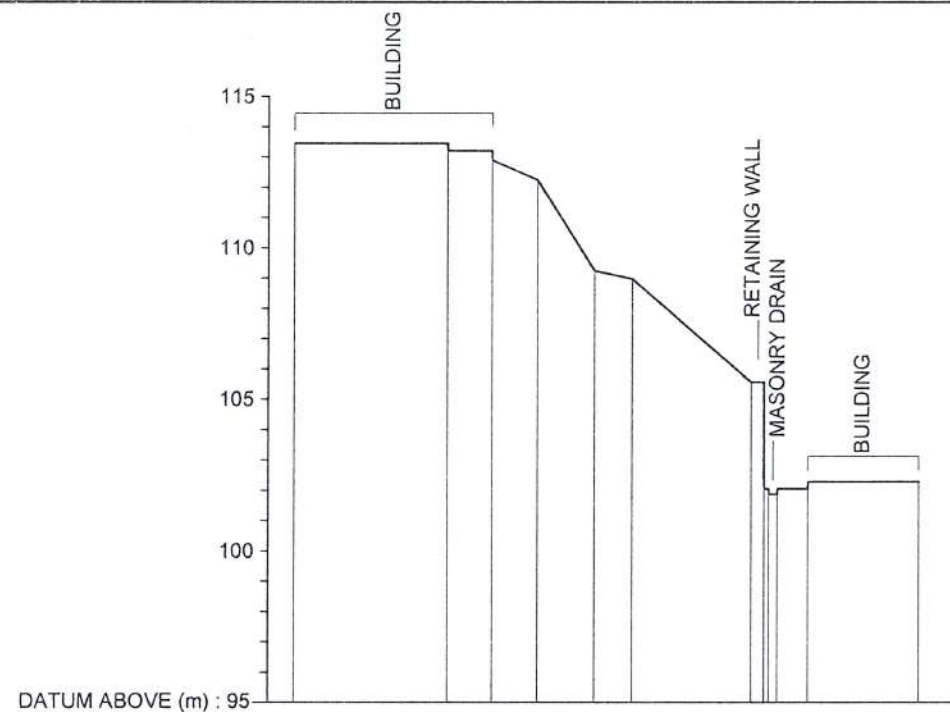
GROUND LEVEL (m)	113.500	113.590	113.150	112.670	113.100	110.120	109.070	105.850	105.850	103.640
DISTANCE (m)	0.000	3.602	7.917	8.219	9.024	12.415	14.257	18.428	18.849	22.452

CS 6

EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ACCESS ROAD OFF DHARMARAJA MAWATHA DHARMARAJA COLLEGE KANDY LOCATION 1	TITLE EXISTING CROSS SECTIONS	DESCRIPTION	NAME	SIGNATURE
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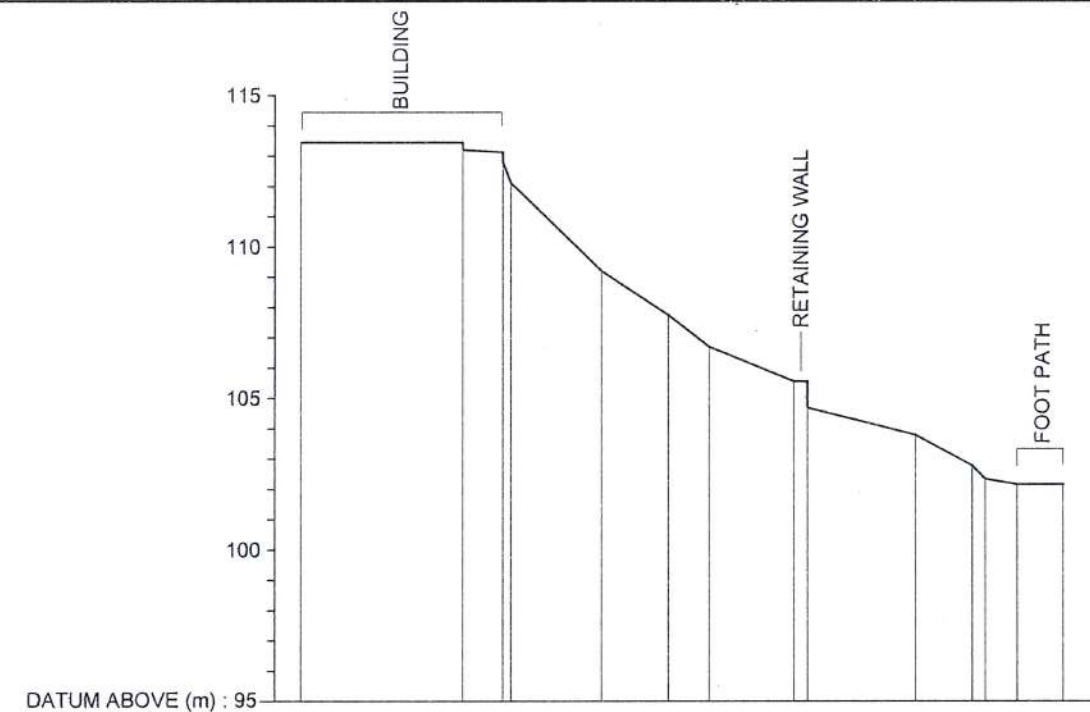
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 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 	 DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ACCESS ROAD OFF DHARMARAJA MAWATHA DHARMARAJA COLLEGE KANDY LOCATION 1	TITLE EXISTING CROSS SECTIONS	DESCRIPTION	NAME	SIGNATURE
								SURVEYED	W.L.P.N.N. WIJESINGHE	For 
								CHECKED	R.J.K.P.N. RANATHUNGA	
						SCALE	1:250	DATE	14.05.2026	
						PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/L1/DR 02c		REVISION	00	



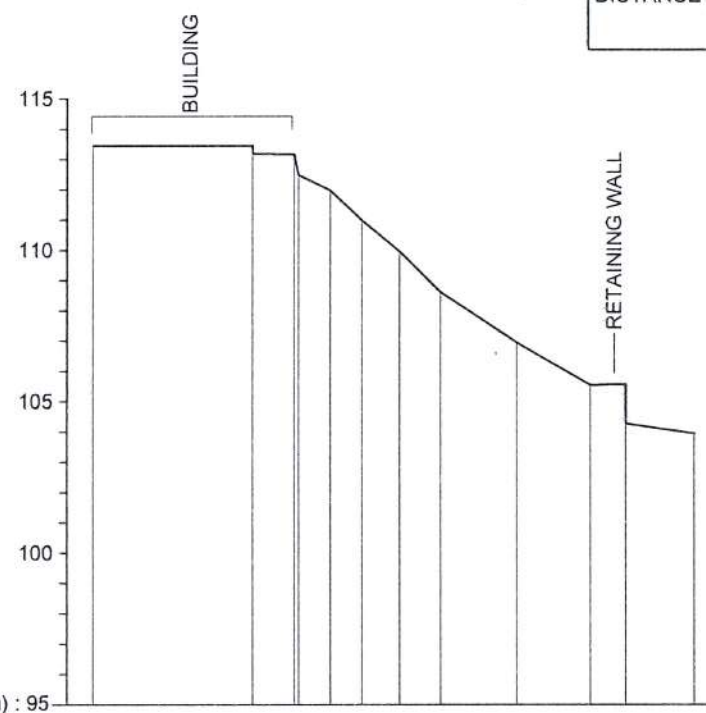
GROUND LEVEL (m)	113.450	113.450	112.900	112.240	109.250	108.970	105.560	102.050	101.870	102.050	102.290	
DISTANCE (m)	0.000	5.128	6.622	8.120	10.011	11.258	15.225	15.645	15.798	16.092	17.103	20.802

CS 10



GROUND LEVEL (m)	113.450	113.200	113.130	112.120	109.200	107.740	106.700	105.550	104.690	103.790	102.780	102.340	102.160	102.160
DISTANCE (m)	0.000	5.379	6.712	6.981	10.013	12.231	13.580	16.397	16.848	20.427	22.327	22.759	23.830	25.375

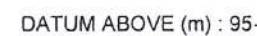
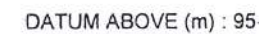
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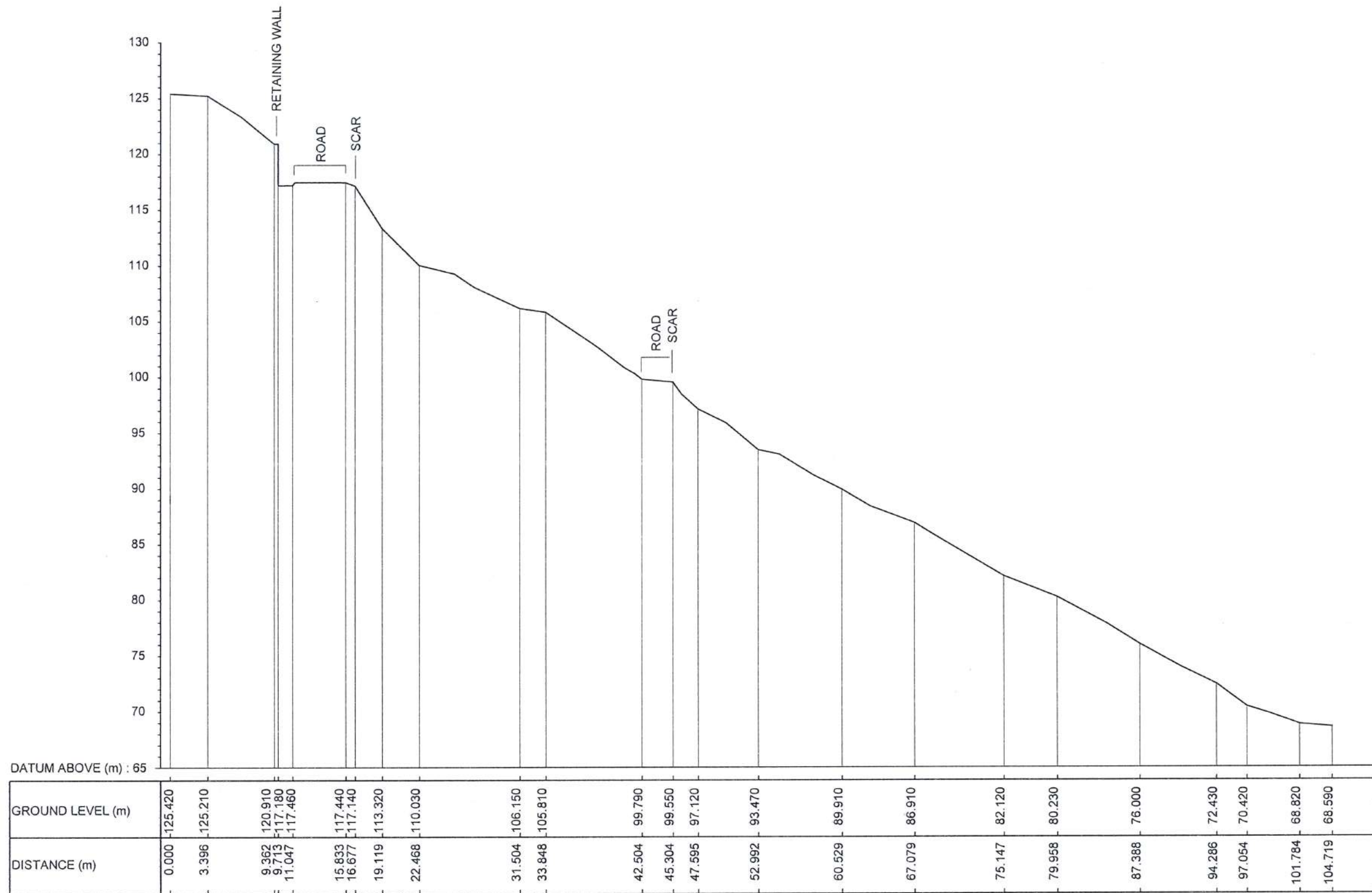
GROUND LEVEL (m)	113.450	113.450	113.200	113.170	112.490	111.980	110.990	109.970	108.610	106.950	105.550	105.570	103.950
DISTANCE (m)	0.000	5.299	5.299	6.671	6.816	7.865	8.912	10.165	11.522	14.068	16.511	17.687	19.974

CS 12

EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV 1 2 3 4 5 6 7 8 9 10	DATE 14.05.2025 14.05.2025 14.05.2025 14.05.2025 14.05.2025 14.05.2025 14.05.2025 14.05.2025 14.05.2025 14.05.2025	REVISION DESCRIPTION 1. Initial Design 2. Revised Design 3. Revised Design 4. Revised Design 5. Revised Design 6. Revised Design 7. Revised Design 8. Revised Design 9. Revised Design 10. Revised Design	APPROVAL 1. Approved 2. Approved 3. Approved 4. Approved 5. Approved 6. Approved 7. Approved 8. Approved 9. Approved 10. Approved	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ACCESS ROAD OFF DHARMARAJA MAWATHA DHARMARAJA COLLEGE KANDY LOCATION 1	TITLE EXISTING CROSS SECTIONS	DESCRIPTION SURVEYED CHECKED	NAME W.L.P.N.N. WIJESINGHE R.J.K.P.N. RANATHUNGA	SIGNATURE For P.N.
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		PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/L1/DR 02d								

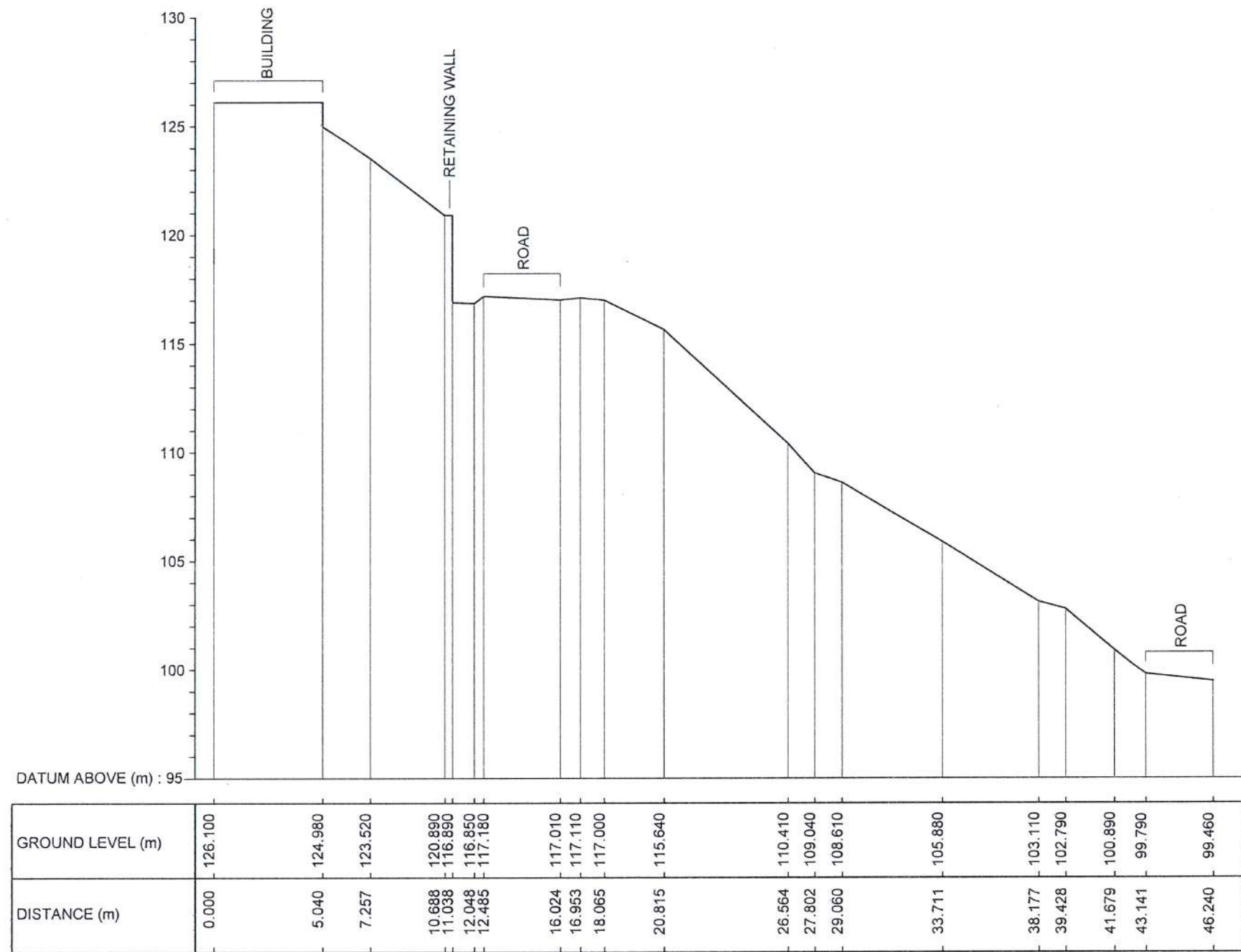
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EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 	DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ACCESS ROAD OFF DHARMARAJA MAWATHA DHARMARAJA COLLEGE KANDY LOCATION 1	TITLE EXISTING CROSS SECTIONS			DESCRIPTION	NAME	SIGNATURE			
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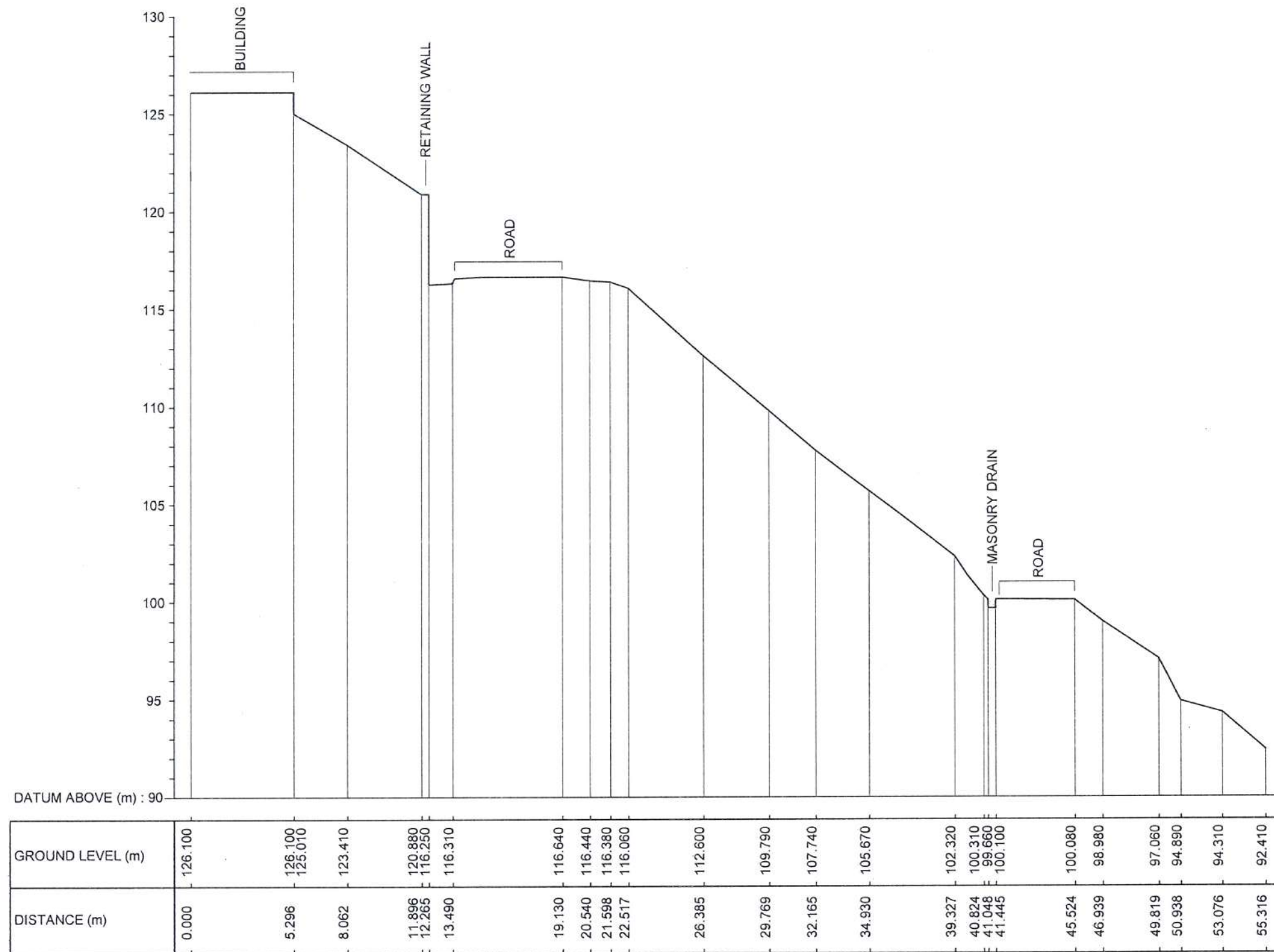
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EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ACCESS ROAD OFF DHARMARAJA MAWATHA DHARMARAJA COLLEGE KANDY LOCATION 1	TITLE EXISTING CROSS SECTIONS	DESCRIPTION	NAME	SIGNATURE
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								CHECKED	R.J.K.P.N. RANATHUNGA	
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						PROJECT / DRAWING No. RLVMM/WORKS/NCB/PH III/228/L1/DR 02f				



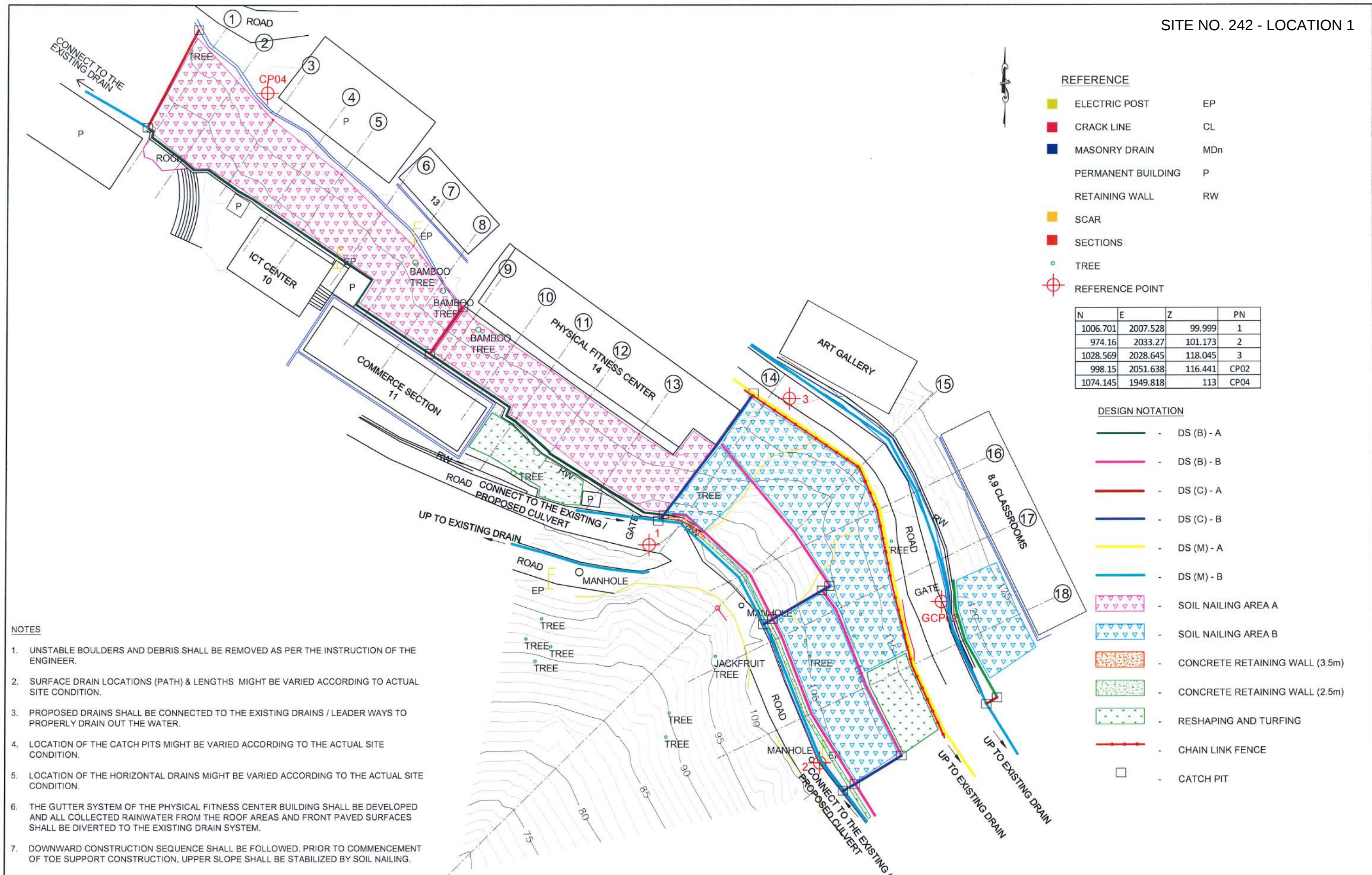
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EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 	DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ACCESS ROAD OFF DHARMARAJA MAWATHA DHARMARAJA COLLEGE KANDY LOCATION 1	TITLE EXISTING CROSS SECTIONS	DESCRIPTION	NAME	SIGNATURE
								SURVEYED	W.L.P.N.N. WIJESINGHE	For 
								CHECKED	R.J.K.P.N. RANATHUNGA	
						SCALE	1:250	DATE	14.05.2026	
						PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/L1/DR 02g		REVISION	00	

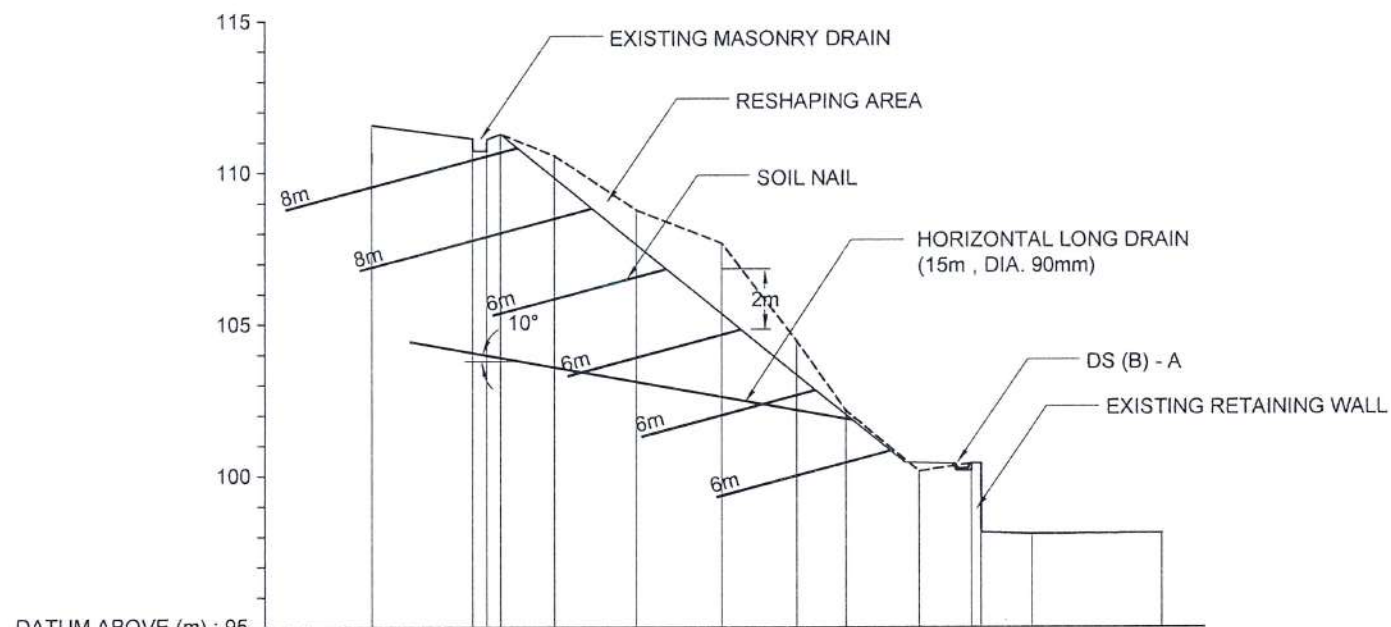


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EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ACCESS ROAD OFF DHARMARAJA MAWATHA DHARMARAJA COLLEGE KANDY LOCATION 1	TITLE EXISTING CROSS SECTIONS SCALE 1:250 PROJECT / DRAWING No. RLVMM/WORKS/NCB/PH III/228/L1/DR 02h	DESCRIPTION SURVEYED CHECKED	NAME W.L.P.N.N. WIJESINGHE R.J.K.P.N. RANATHUNGA	SIGNATURE  	
							DATE	14.05.2026	REVISION	00	



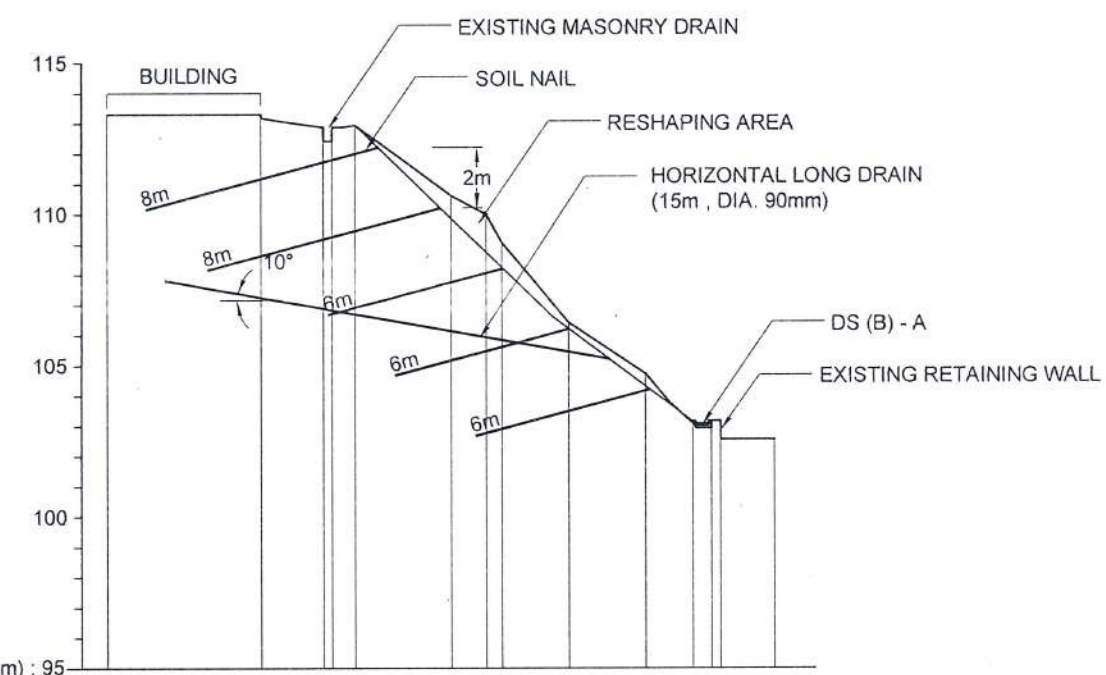
EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05  DESIGNER DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 <table><tr><th>REV</th><th>DATE</th><th>REVISION DESCRIPTION</th><th>APPROVAL</th></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table> PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ACCESS ROAD OFF DHARMARAJA MAWATHA DHARMARAJA COLLEGE KANDY LOCATION 1	REV	DATE	REVISION DESCRIPTION	APPROVAL																									TITLE PLAN VIEW OF PROPOSED MITIGATION MEASURES <table><tr><td>SCALE</td><td>1:500</td><td>DATE</td><td>14.05.2026</td></tr><tr><td colspan="2">PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/L1/DR 03</td><td>REVISION</td><td>00</td></tr></table>	SCALE	1:500	DATE	14.05.2026	PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/L1/DR 03		REVISION	00	<table><tr><th>DESCRIPTION</th><th>NAME</th><th>SIGNATURE</th></tr><tr><td>DRAWN</td><td>K. M. D. NISHANTHI</td><td></td></tr><tr><td>DESIGNED</td><td>R.J.K.P.N. RANATHUNGA</td><td></td></tr><tr><td>CHECKED</td><td>I.A.N.D. IDIRIMANNA</td><td></td></tr><tr><td>RECOMMENDED</td><td>PROF. S. A. S. KULATHILAKA</td><td></td></tr><tr><td>APPROVED</td><td>ENG. (DR.) SANCHITHA JAYAKODY</td><td></td></tr></table>	DESCRIPTION	NAME	SIGNATURE	DRAWN	K. M. D. NISHANTHI		DESIGNED	R.J.K.P.N. RANATHUNGA		CHECKED	I.A.N.D. IDIRIMANNA		RECOMMENDED	PROF. S. A. S. KULATHILAKA		APPROVED	ENG. (DR.) SANCHITHA JAYAKODY	
	REV	DATE	REVISION DESCRIPTION	APPROVAL																																																				
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PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/L1/DR 03		REVISION	00																																																					
DESCRIPTION	NAME	SIGNATURE																																																						
DRAWN	K. M. D. NISHANTHI																																																							
DESIGNED	R.J.K.P.N. RANATHUNGA																																																							
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RECOMMENDED	PROF. S. A. S. KULATHILAKA																																																							
APPROVED	ENG. (DR.) SANCHITHA JAYAKODY																																																							



DATUM ABOVE (m) : 95

GROUND LEVEL (m)	111.570	111.130	110.710	111.280	110.560	108.770	107.670	104.440	102.140	100.150	100.410	98.130	98.080	98.110
DISTANCE (m)	0.000	3.361	3.828	4.279	6.068	8.801	11.636	14.142	15.770	18.190	19.923	20.233	21.932	26.243

CS 1

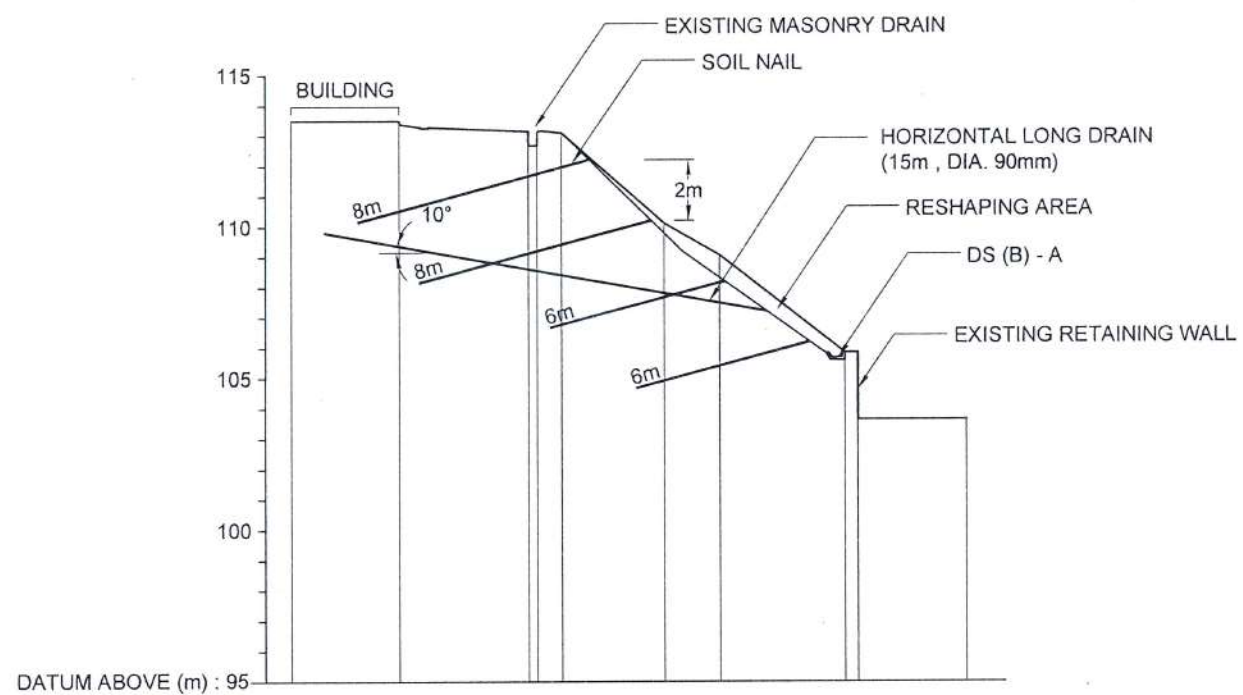


DATUM ABOVE (m) : 95

GROUND LEVEL (m)	0.000	5.129	7.207	7.494	8.250	11.439	12.593	13.110	15.332	17.877	19.462	20.068	20.378	22.172
DISTANCE (m)	0.000	5.129	7.207	7.494	8.250	11.439	12.593	13.110	15.332	17.877	19.462	20.068	20.378	22.172

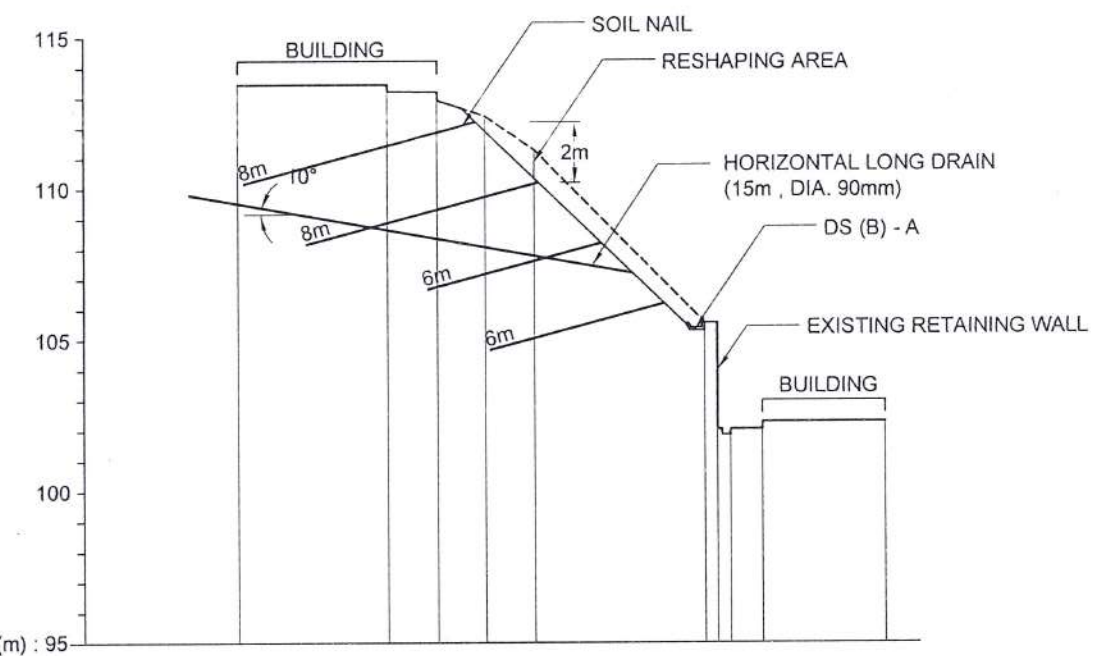
CS 3

EMPLOYER	DESIGNER	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE	TITLE	DESCRIPTION	NAME	SIGNATURE
 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	 DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05					REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ACCESS ROAD OFF DHARMARAJA MAWATHA DHARMARAJA COLLEGE KANDY LOCATION 1	CROSS SECTION OF PROPOSED MITIGATION MEASURES	DRAWN	K. M. D. NISHANTHI	
								DESIGNED	R.J.K.P.N. RANATHUNGA	
								CHECKED	I.A.N.D. IDIRIMANNA	
								RECOMMENDED	PROF. S. A. S. KULATHILAKA	
								APPROVED	ENG. (DR.) SANCHITHA JAYAKODY	
							SCALE 1:250	DATE	14.05.2026	
							PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/L1/DR 04a	REVISION	00	



GROUND LEVEL (m)	113.500	113.990	113.150	112.670	113.100	110.120	109.070	105.850	105.850	103.640
DISTANCE (m)	0.000	3.602	7.917	8.219	9.024	12.415	14.257	18.428	18.849	22.452

CS 6



GROUND LEVEL (m)	113.450	113.450	113.220	113.990	112.400	111.290	105.560	105.560	105.560	102.050	102.290
DISTANCE (m)	0.000	4.967	4.967	6.626	8.223	9.836	15.487	15.908	16.336	17.394	21.458

CS 9

EMPLOYER
DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF DEFENCE
NATIONAL BUILDING RESEARCH INSTITUTE
No. 99/1, JAWATTA ROAD,
COLOMBO - 05

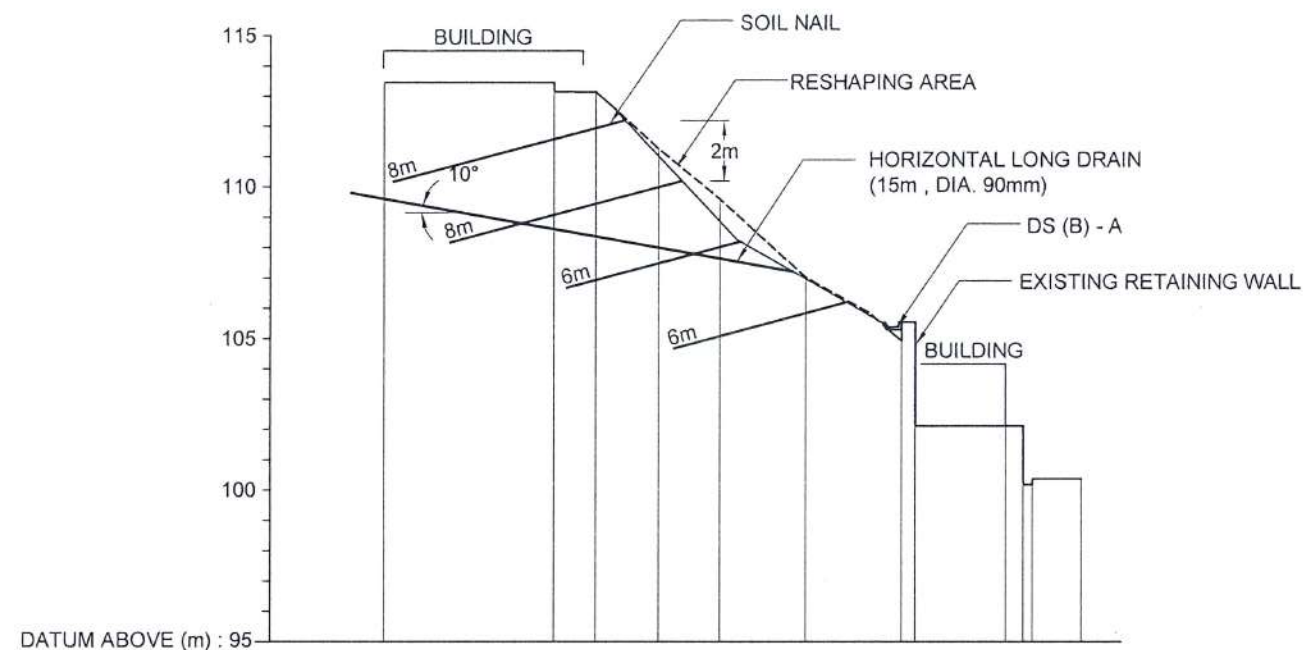
DESIGNER
DESIGN UNIT
NATIONAL BUILDING RESEARCH INSTITUTE
No. 99/1, JAWATTA ROAD,
COLOMBO - 05

REV	DATE	REVISION DESCRIPTION	APPROVAL

PROJECT TITLE
REDUCTION OF LANDSLIDE VULNERABILITY
BY MITIGATION MEASURES PROJECT
ACCESS ROAD OFF DHARMARAJA MAWATHA
DHARMARAJA COLLEGE KANDY
LOCATION 1

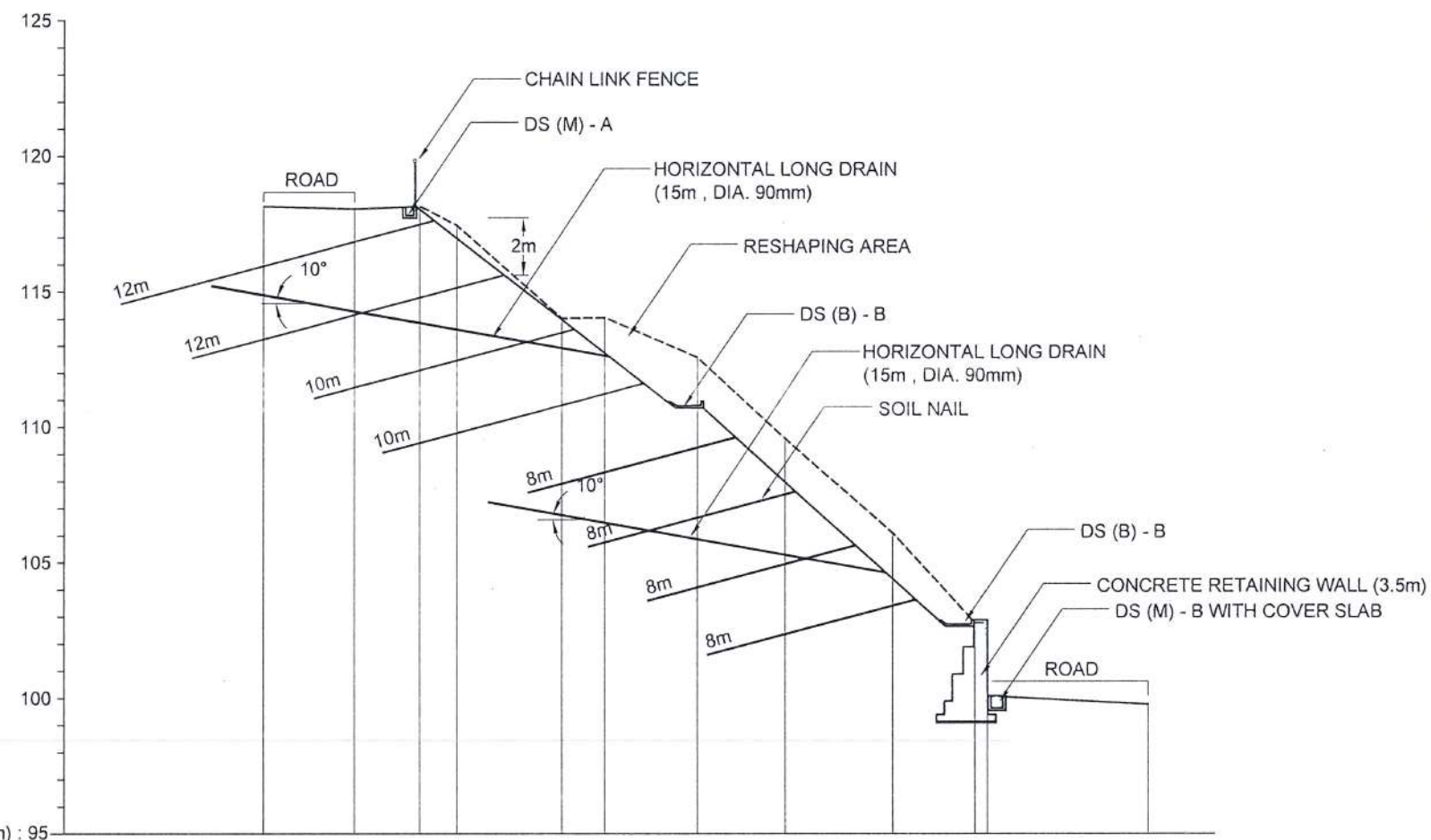
TITLE
CROSS SECTION OF
PROPOSED MITIGATION MEASURES
SCALE 1:250
PROJECT / DRAWING No.
RLVMP/WORKS/NCB/PH III/228/L1/DR 04b

DESCRIPTION	NAME	SIGNATURE
DRAWN	K. M. D. NISHANTHI	
DESIGNED	R.J.K.P.N. RANATHUNGA	
CHECKED	I.A.N.D. IDIRIMANNA	
RECOMMENDED	PROF. S. A. S. KULATHILAKA	
APPROVED	ENG. (DR.) SANCHITHA JAYAKODY	



GROUND LEVEL (m)	113.450	113.450	113.160	113.140	111.260	109.600	107.020	105.860	105.550	102.120	102.120	100.180	100.370
DISTANCE (m)	0.000	5.642	5.642	7.027	9.114	11.146	14.012	16.121	17.204	17.655	21.229	21.229	21.536

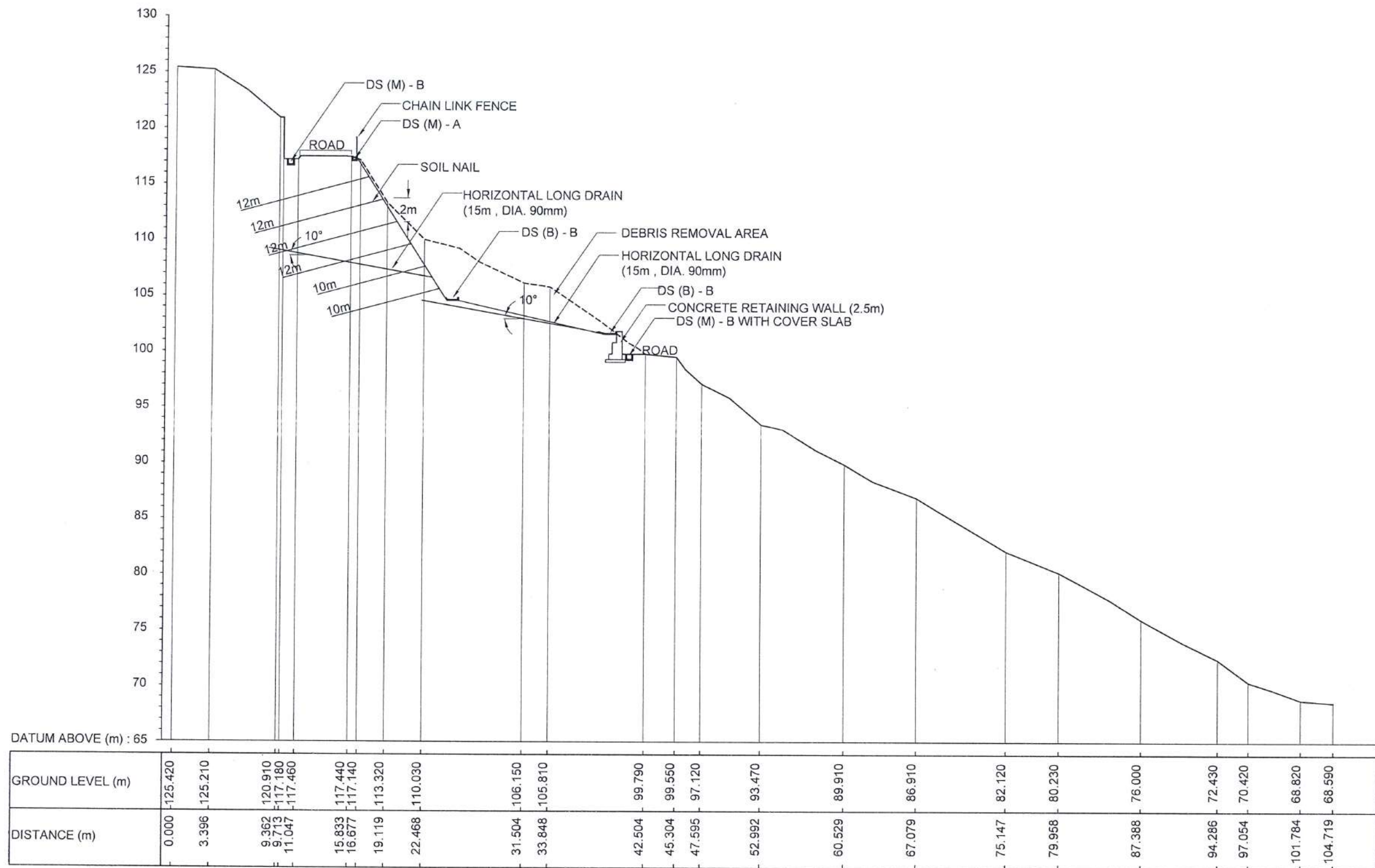
CS 13



GROUND LEVEL (m)	118.160	118.060	118.160	117.450	114.020	114.050	112.580	109.580	106.090	102.780	100.090	99.780
DISTANCE (m)	0.000	3.402	5.806	7.190	11.069	12.657	16.111	19.379	23.355	26.394	26.857	32.823

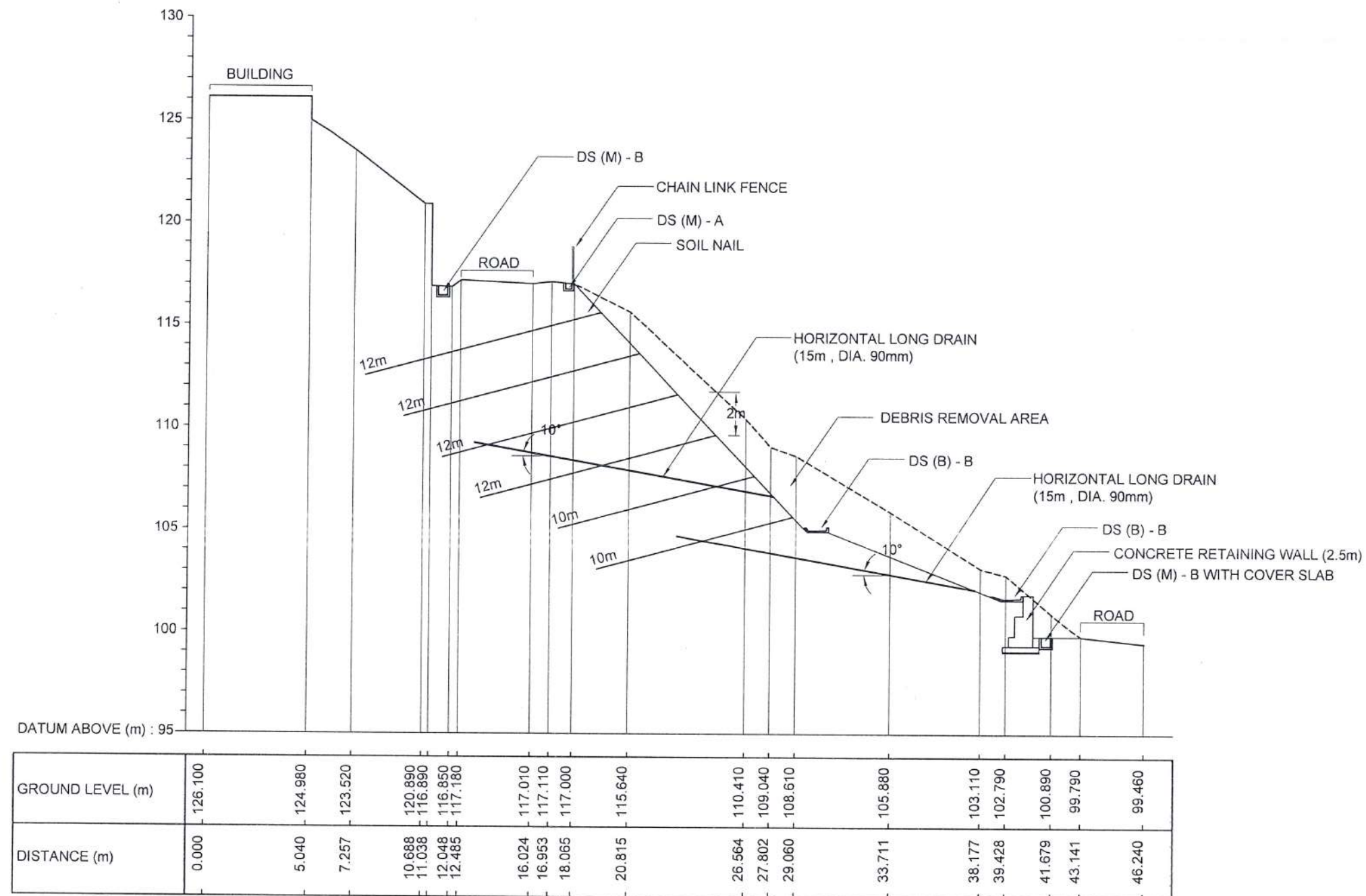
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EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ACCESS ROAD OFF DHARMARAJA MAWATHA DHARMARAJA COLLEGE KANDY LOCATION 1	TITLE CROSS SECTION OF PROPOSED MITIGATION MEASURES	DESCRIPTION	NAME	SIGNATURE
		SCALE	1:250	DATE	14.05.2026			REVISION	00	RECOMMENDED
						PROJECT / DRAWING No.	RLVMMPPWORKS/NCB/PH III/228/L1/DR 04c	APPROVED	ENG. (DR.) SANCHITHA JAYAKODY	



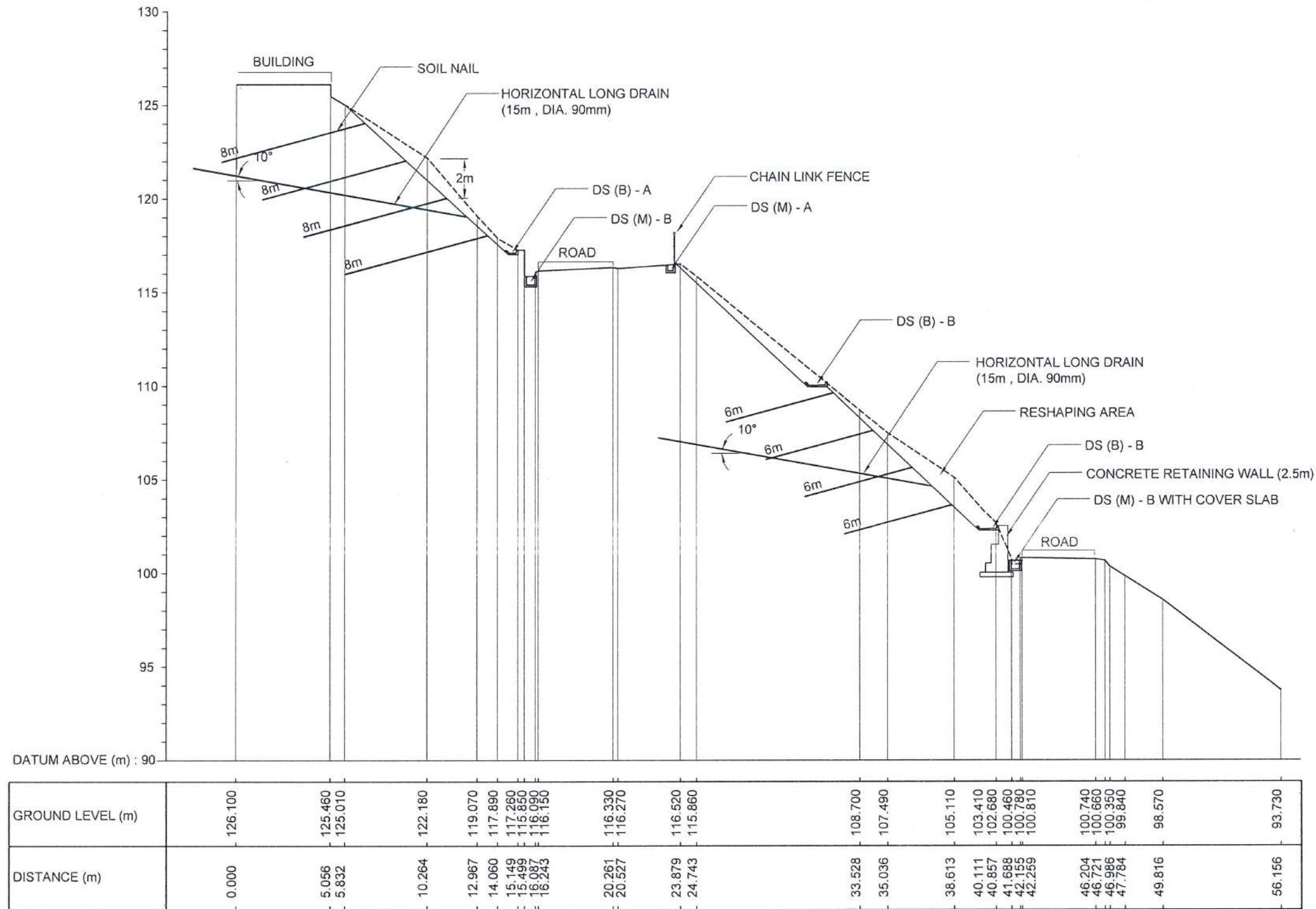
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EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 		DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 		REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ACCESS ROAD OFF DHARMARAJA MAWATHA DHARMARAJA COLLEGE KANDY LOCATION 1	TITLE CROSS SECTION OF PROPOSED MITIGATION MEASURES			DESCRIPTION	NAME	SIGNATURE
					DRAWN	K. M. D. NISHANTHI								
					DESIGNED	R. J. K. P. N. RANATHUNGA								
					CHECKED	I. A. N. D. IDIRIMANNA								
					RECOMMENDED	PROF. S. A. S. KULATHILAKA								
					APPROVED	ENG. (DR.) SANCHITHA JAYAKODY								
		SCALE 1:400		DATE	14.05.2026			PROJECT / DRAWING No. RLVMM/WORKS/NCB/PH III/228/L1/DR 04d		REVISION 00				



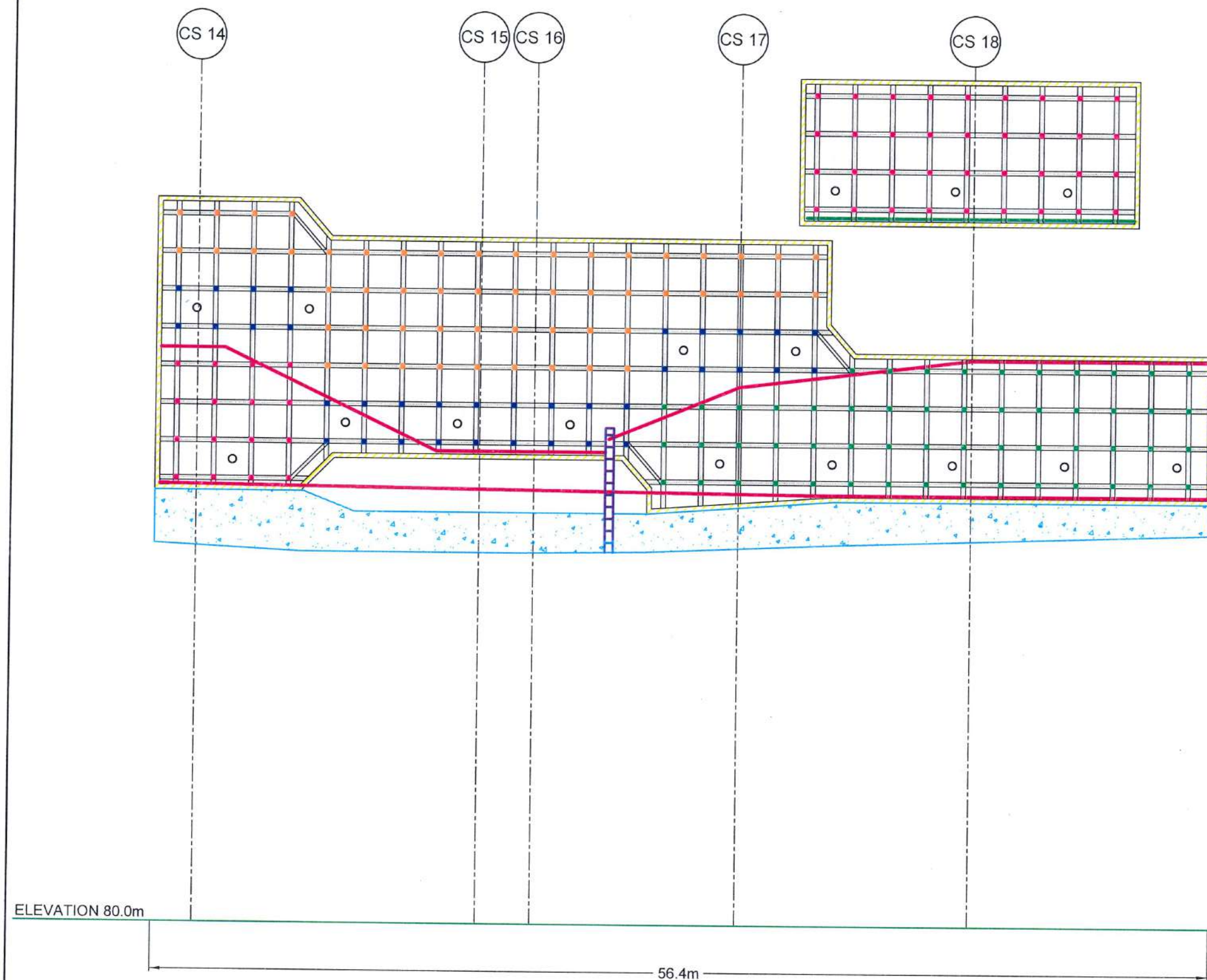
CS 16

EMPLOYER		DESIGNER		REV		DATE		REVISION DESCRIPTION		APPROVAL		PROJECT TITLE		TITLE				DESCRIPTION		NAME		SIGNATURE					
 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 		 DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05										REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ACCESS ROAD OFF DHARMARAJA MAWATHA DHARMARAJA COLLEGE KANDY LOCATION 1		CROSS SECTION OF PROPOSED MITIGATION MEASURES				DRAWN		K. M. D. NISHANTHI							
																		DESIGNED		R.J.K.P.N. RANATHUNGA							
																		CHECKED		I.A.N.D. IDIRIMANNA							
														SCALE 1:250				DATE		14.05.2026		RECOMMENDED		PROF. S. A. S. KULATHILAKA			
														PROJECT / DRAWING No. RLVMP/WORKS/NCB/PH III/228/L1/DR 04e				REVISION		00		APPROVED		ENG. (DR.) SANCHITHA JAYAKODY			



CS 18

EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 		DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 		<table><tr><th>REV</th><th>DATE</th><th>REVISION DESCRIPTION</th><th>APPROVAL</th></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>		REV	DATE	REVISION DESCRIPTION	APPROVAL																													PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ACCESS ROAD OFF DHARMARAJA MAWATHA DHARMARAJA COLLEGE KANDY LOCATION 1		<table><tr><td colspan="3" rowspan="2">TITLE</td><td colspan="3" rowspan="2">CROSS SECTION OF PROPOSED MITIGATION MEASURES</td></tr><tr></tr><tr><td colspan="2">SCALE 1:250</td><td>DATE</td><td colspan="2">14.05.2026</td><td>RECOMMENDED</td><td>PROF. S. A. S. KULATHILAKA</td><td></td></tr><tr><td colspan="3">PROJECT / DRAWING No. RLVMP/WORKS/NCB/PH III/228/L1/DR 04g</td><td>REVISION 00</td><td>APPROVED</td><td colspan="2">ENG. (DR.) SANCHITHA JAYAKODY</td><td></td></tr></table>				TITLE			CROSS SECTION OF PROPOSED MITIGATION MEASURES			SCALE 1:250		DATE	14.05.2026		RECOMMENDED	PROF. S. A. S. KULATHILAKA		PROJECT / DRAWING No. RLVMP/WORKS/NCB/PH III/228/L1/DR 04g			REVISION 00	APPROVED	ENG. (DR.) SANCHITHA JAYAKODY		
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PROJECT / DRAWING No. RLVMP/WORKS/NCB/PH III/228/L1/DR 04g			REVISION 00	APPROVED	ENG. (DR.) SANCHITHA JAYAKODY																																																												



LEGEND

- SOIL NAILING

- TOTAL SOIL NAIL LENGTH = 6m
NO OF SOIL NAIL = 55
REINFORCEMENT DIAMETER = 32 mm
DIAMETER OF DRILLED HOLE = 125mm
NAIL SPACING = 2m (BW)
- SOIL NAILING

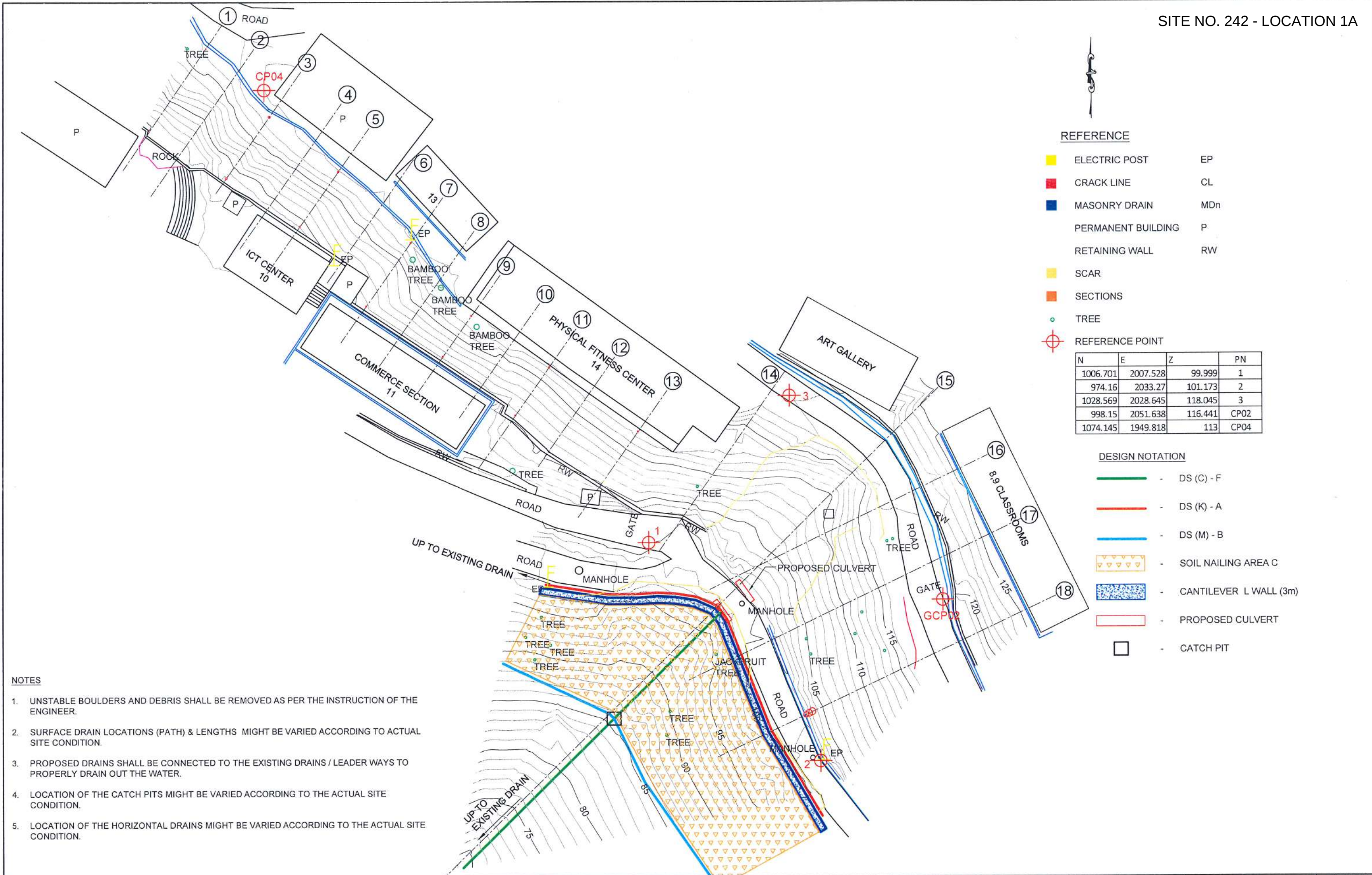
- TOTAL SOIL NAIL LENGTH = 8m
NO OF SOIL NAIL = 52
REINFORCEMENT DIAMETER = 32 mm
DIAMETER OF DRILLED HOLE = 125mm
NAIL SPACING = 2m (BW)
- SOIL NAILING

- TOTAL SOIL NAIL LENGTH = 10m
NO OF SOIL NAIL = 36
REINFORCEMENT DIAMETER = 32 mm
DIAMETER OF DRILLED HOLE = 125mm
NAIL SPACING = 2m (BW)
- SOIL NAILING

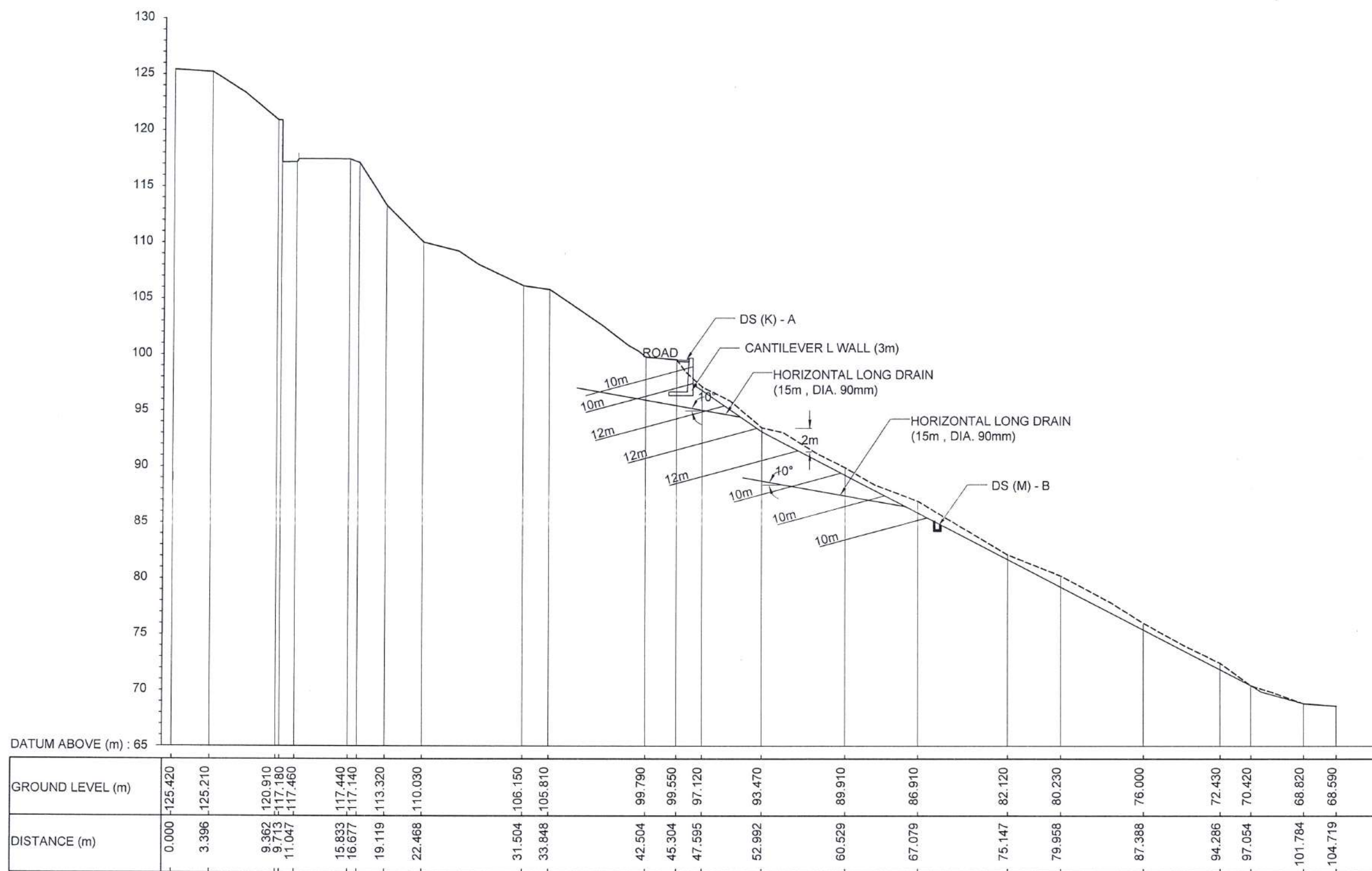
- TOTAL SOIL NAIL LENGTH = 12m
NO OF SOIL NAIL = 54
REINFORCEMENT DIAMETER = 32 mm
DIAMETER OF DRILLED HOLE = 125mm
NAIL SPACING = 2m (BW)
- HORIZONTAL LONG DRAIN

- HORIZONTAL LONG DRAIN LENGTH = 15 m
NO'S OF LONG DRAIN = 16
DIAMETER = 90 mm
SPACING = 06 m
- BOUNDARY BEAM
- CONCRETE RETAINING WALL
- BERM DRAIN DS (B) - A
- BERM DRAIN DS (B) - B
- CASCADE DRAIN DS (C) - B

EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 		DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	<table><tr><th>REV</th><th>DATE</th><th>REVISION DESCRIPTION</th><th>APPROVAL</th></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>	REV	DATE	REVISION DESCRIPTION	APPROVAL																													PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ACCESS ROAD OFF DHARMARAJA MAWATHA DHARMARAJA COLLEGE KANDY LOCATION 1	<table><tr><td colspan="3">TITLE</td><td>DESCRIPTION</td><td>NAME</td><td>SIGNATURE</td></tr><tr><td colspan="3" rowspan="5">FRONT ELEVATION OF PROPOSED MITIGATION MEASURES</td><td>DRAWN</td><td>K. M. D. NISHANTHI</td><td></td></tr><tr><td>DESIGNED</td><td>R.J.K.P.N. RANATHUNGA</td><td></td></tr><tr><td>CHECKED</td><td>I.A.N.D. IDIRIMANNA</td><td></td></tr><tr><td>RECOMMENDED</td><td>PROF. S. A. S. KULATHILAKA</td><td></td></tr><tr><td>APPROVED</td><td>ENG. (DR.) SANCHITHA JAYAKODY</td><td></td></tr><tr><td colspan="2">SCALE 1:250</td><td>DATE 14.05.2026</td><td colspan="3">REVISION 00</td></tr><tr><td colspan="6">PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/L1/DR 05b</td></tr></table>	TITLE			DESCRIPTION	NAME	SIGNATURE	FRONT ELEVATION OF PROPOSED MITIGATION MEASURES			DRAWN	K. M. D. NISHANTHI		DESIGNED	R.J.K.P.N. RANATHUNGA		CHECKED	I.A.N.D. IDIRIMANNA		RECOMMENDED	PROF. S. A. S. KULATHILAKA		APPROVED	ENG. (DR.) SANCHITHA JAYAKODY		SCALE 1:250		DATE 14.05.2026	REVISION 00			PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/L1/DR 05b					
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EMPLOYER DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	DESIGNER DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ACCESS ROAD OFF DHARMARAJA MAWATHA DHARMARAJA COLLEGE KANDY LOCATION 1a	TITLE PLAN VIEW OF PROPOSED MITIGATION MEASURES			DESCRIPTION	NAME	SIGNATURE
										DRAWN	K. M. D. NISHANTHI	
										DESIGNED	R.J.K.P.N. RANATHUNGA	
										CHECKED	I.A.N.D. IDIRIMANNA	
							RECOMMENDED	PROF. S. A. S. KULATHILAKA				
							APPROVED	ENG. (DR.) SANCHITHA JAYAKODY				
		SCALE 1:500			DATE		14.05.2026					
PROJECT / DRAWING No. RLVMM/WORKS/NCB/PH III/228/L1a/DR 03					REVISION	00						

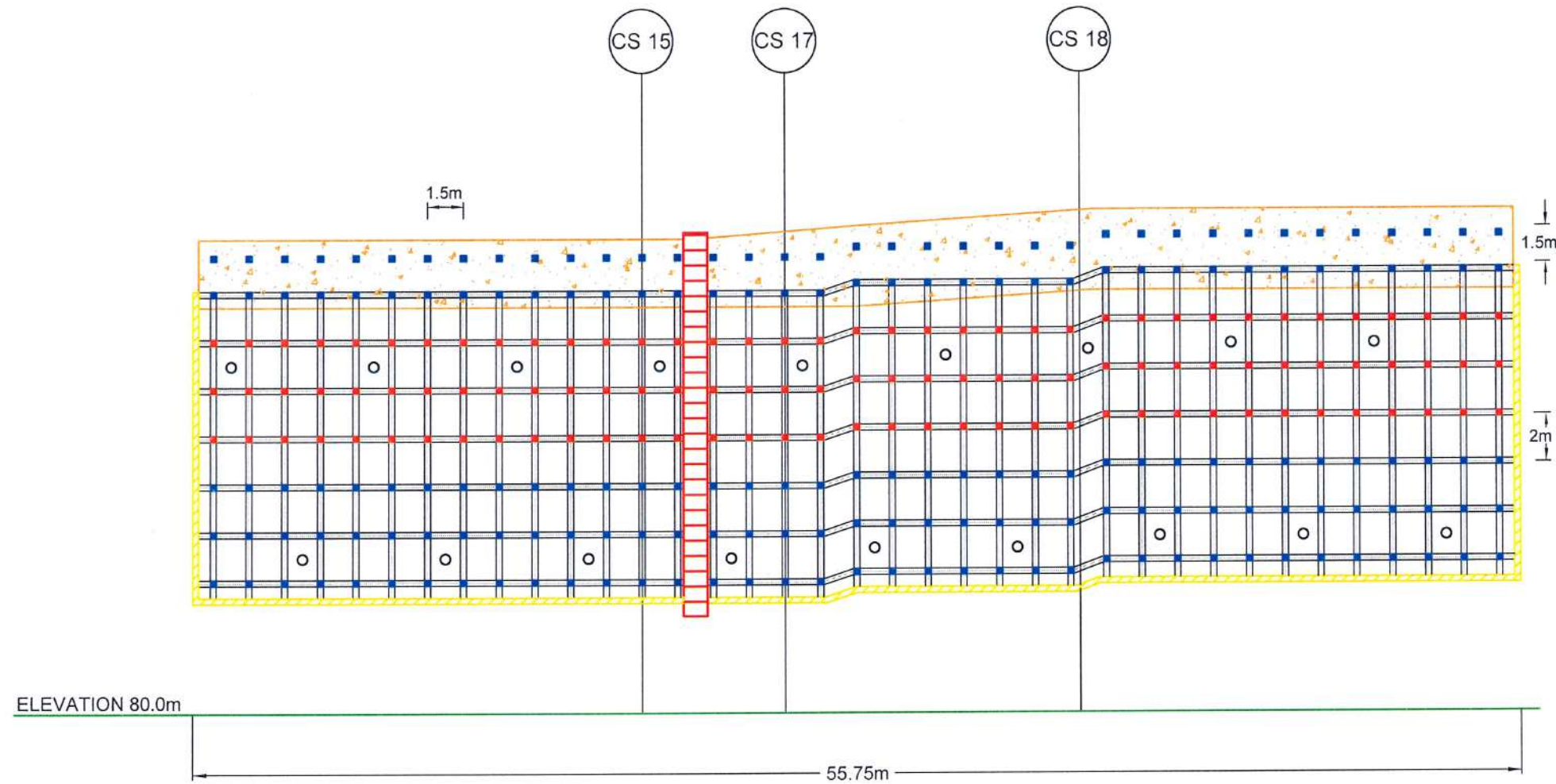


CS 15

NOTE

1. THE HORIZONTAL DRAINS OUTLETS SHALL BE CONNECTED TO THE PROPOSED CASCADE THROUGH A SUITABLE DRAIN / PIPE NET WORK TO ENSURE THE SAFE CONVERGENCE OF DISCHARGED WATER.

EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 		DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05		<table><thead><tr><th>REV</th><th>DATE</th><th>REVISION DESCRIPTION</th><th>APPROVAL</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></tbody></table>				REV	DATE	REVISION DESCRIPTION	APPROVAL																																	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ACCESS ROAD OFF DHARMARAJA MAWATHA DHARMARAJA COLLEGE KANDY LOCATION 1a		<table><thead><tr><th colspan="3">TITLE</th></tr><tr><th colspan="3">CROSS SECTION OF PROPOSED MITIGATION MEASURES</th></tr></thead><tbody><tr><td>SCALE</td><td>1:400</td><td>DATE</td></tr><tr><td colspan="2">PROJECT / DRAWING No. RLVMMPP/WORKS/NCB/PH III/228/L1a/DR 04a</td><td>14.05.2026</td></tr><tr><td colspan="2">REVISION 00</td><td> </td></tr></tbody></table>			TITLE			CROSS SECTION OF PROPOSED MITIGATION MEASURES			SCALE	1:400	DATE	PROJECT / DRAWING No. RLVMMPP/WORKS/NCB/PH III/228/L1a/DR 04a		14.05.2026	REVISION 00			<table><thead><tr><th>DESCRIPTION</th><th>NAME</th><th>SIGNATURE</th></tr></thead><tbody><tr><td>DRAWN</td><td>K. M. D. NISHANTHI</td><td></td></tr><tr><td>DESIGNED</td><td>R.J.K.P.N. RANATHUNGA</td><td></td></tr><tr><td>CHECKED</td><td>I.A.N.D. IDIRIMANNA</td><td></td></tr><tr><td>RECOMMENDED</td><td>PROF. S. A. S. KULATHILAKA</td><td></td></tr><tr><td>APPROVED</td><td>ENG. (DR.) SANCHITHA JAYAKODY</td><td></td></tr></tbody></table>			DESCRIPTION	NAME	SIGNATURE	DRAWN	K. M. D. NISHANTHI		DESIGNED	R.J.K.P.N. RANATHUNGA		CHECKED	I.A.N.D. IDIRIMANNA		RECOMMENDED	PROF. S. A. S. KULATHILAKA		APPROVED	ENG. (DR.) SANCHITHA JAYAKODY	
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APPROVED	ENG. (DR.) SANCHITHA JAYAKODY																																																																																			



LEGEND

- SOIL NAILING - TOTAL SOIL NAIL LENGTH = 10m
NO OF SOIL NAIL = 185
REINFORCEMENT DIAMETER = 32 mm
DIAMETER OF DRILLED HOLE = 125mm
NAIL SPACING = VARIES
- SOIL NAILING - TOTAL SOIL NAIL LENGTH = 12m
NO OF SOIL NAIL = 111
REINFORCEMENT DIAMETER = 32 mm
DIAMETER OF DRILLED HOLE = 125mm
NAIL SPACING = VARIES
- HORIZONTAL LONG DRAIN - HORIZONTAL LONG DRAIN LENGTH = 15 m
NO'S OF LONG DRAIN = 18
DIAMETER = 90 mm
SPACING = 06 m
- ▨ BOUNDARY BEAM
- ▨ CANTILEVER L WALL
- ▨ DS (C) - F DRAIN

EMPLOYER

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF DEFENCE
NATIONAL BUILDING RESEARCH INSTITUTE
No. 99/1, JAWATTA ROAD,
COLOMBO - 05

DESIGNER

DESIGN UNIT
NATIONAL BUILDING RESEARCH INSTITUTE
No. 99/1, JAWATTA ROAD,
COLOMBO - 05

REV	DATE	REVISION DESCRIPTION	APPROVAL

PROJECT TITLE

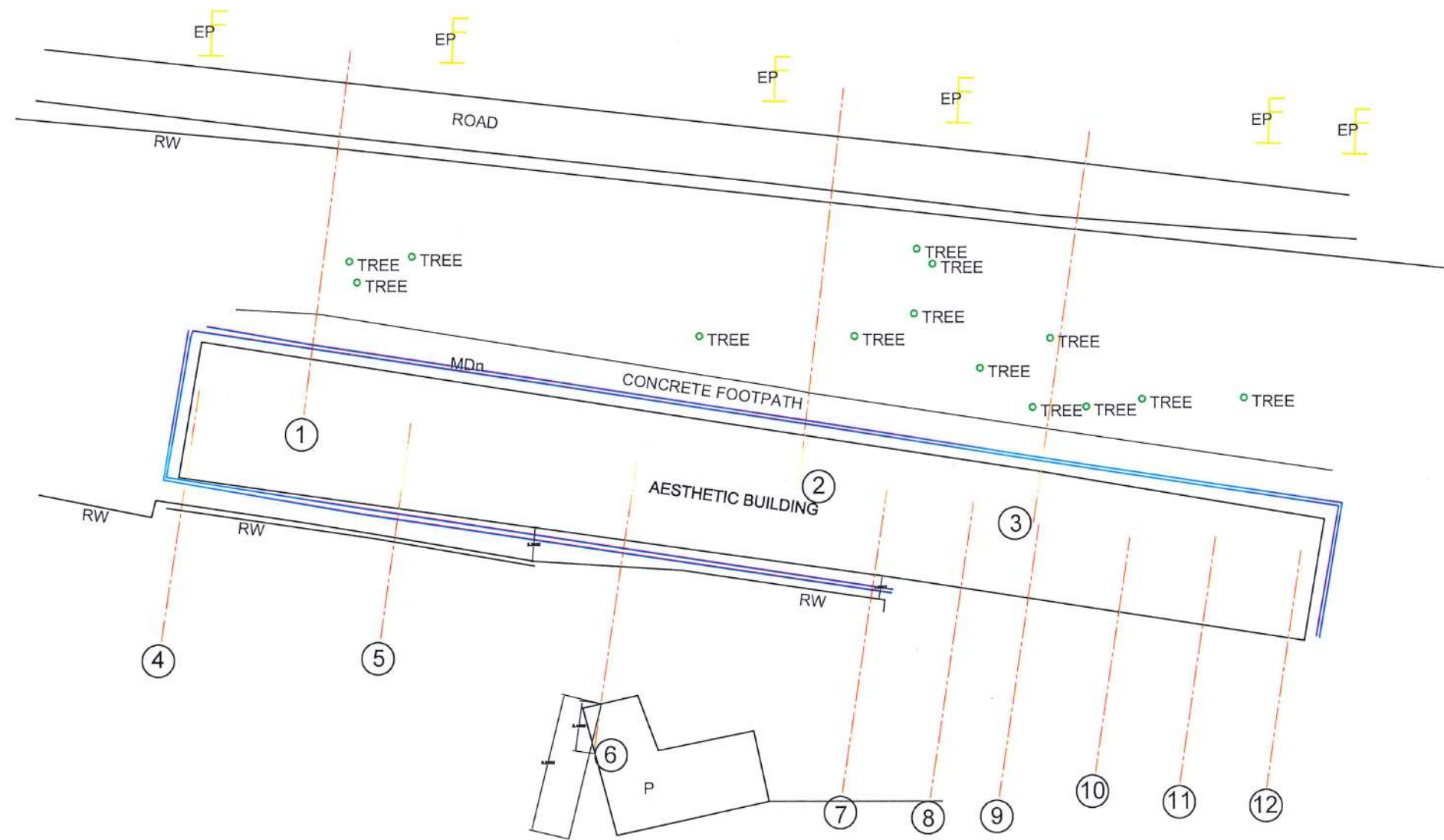
REDUCTION OF LANDSLIDE VULNERABILITY
BY MITIGATION MEASURES PROJECT
ACCESS ROAD OFF DHARMARAJA MAWATHA
DHARMARAJA COLLEGE KANDY
LOCATION 1a

TITLE

FRONT ELEVATION OF
PROPOSED MITIGATION MEASURES

SCALE 1:250 DATE 14.05.2026
PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/L1a/DR 05a REVISION 00

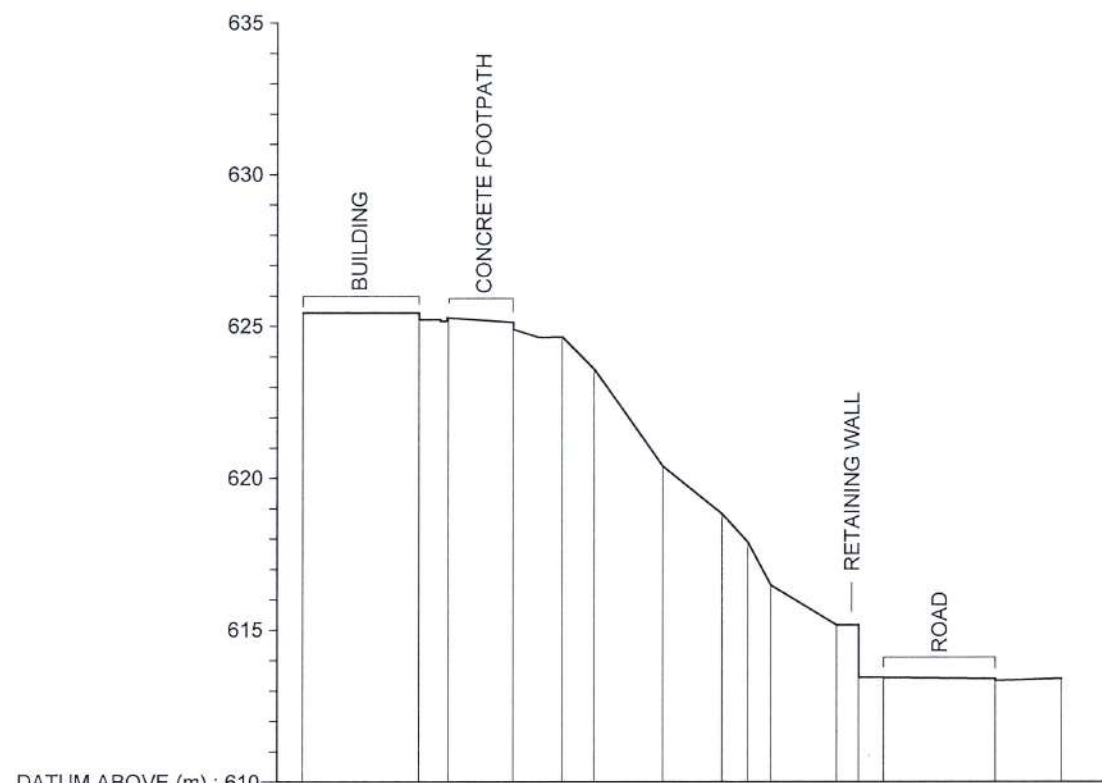
DESCRIPTION	NAME	SIGNATURE
DRAWN	K. M. D. NISHANTHI	
DESIGNED	R.J.K.P.N. RANATHUNGA	
CHECKED	I.A.N.D. IDIRIMANNA	
RECOMMENDED	PROF. S. A. S. KULATHILAKA	
APPROVED	ENG. (DR.) SANCHITHA JAYAKODY	



REFERENCE

- ELECTRICAL POST EP
- MASONRY DRAIN MDn
- PERMANENT BUILDING P
- RETAINING WALL RW
- SECTIONS
- TREE
- REFERENCE POINTS

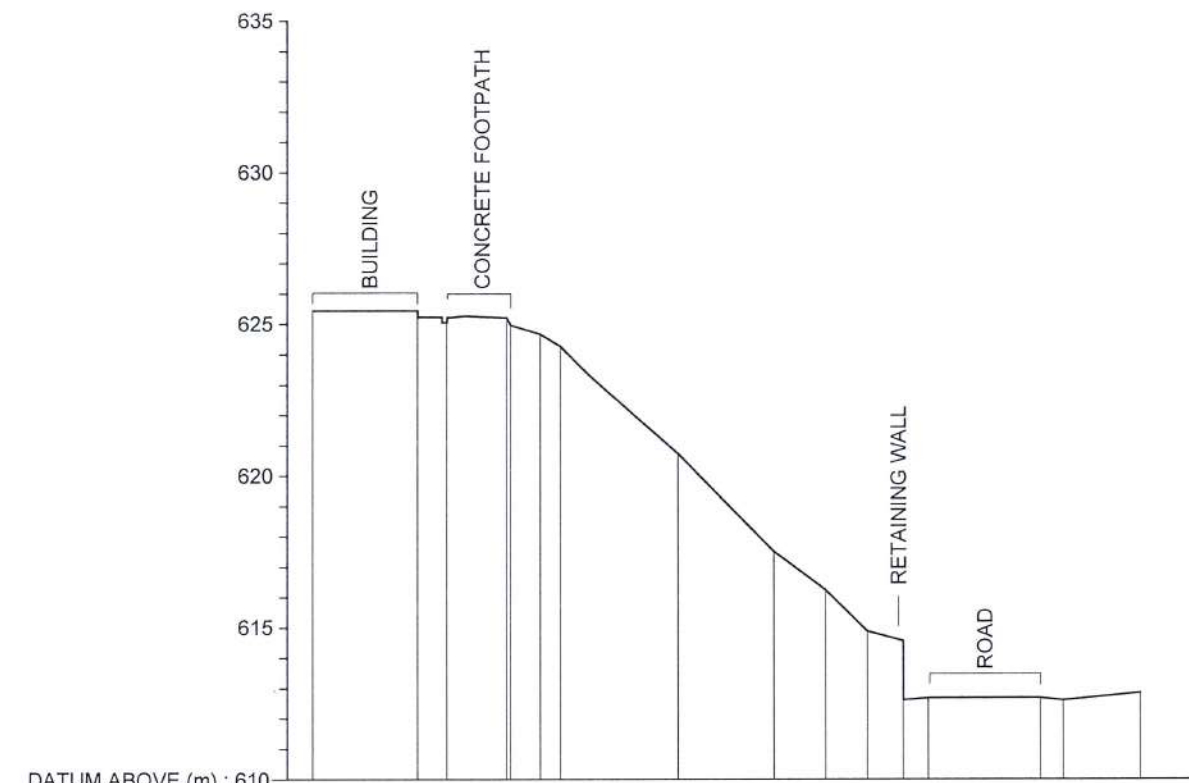
EMPLOYER DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	DESIGNER DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT NEAR AESTHETIC BUILDING DHARMARAJA COLLEGE KANDY LOCATION 2	TITLE SURVEY PLAN			DESCRIPTION	NAME	SIGNATURE				
										SCALE	1:400	DATE	03.03.2026			
										PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/L2/DR 01			REVISION 00			



DATUM ABOVE (m) : 610

GROUND LEVEL (m)	625.440	625.220	625.980	624.900	624.640	624.660	623.590	620.390	618.830	617.890	616.480	615.170	615.480	613.440	613.390	613.410
DISTANCE (m)	0.000	3.890	4.870	7.014	7.876	8.645	9.720	11.993	13.975	14.825	15.586	17.770	18.504	19.339	23.048	25.246

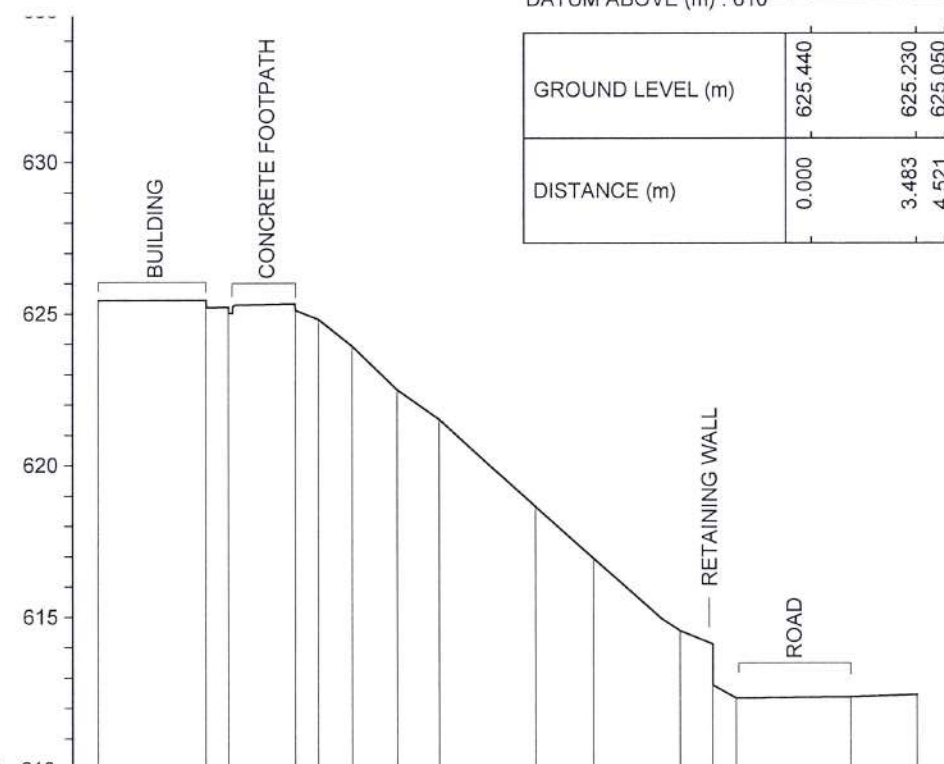
CS 1



DATUM ABOVE (m) : 610

GROUND LEVEL (m)	625.440	625.230	625.050	625.210	624.960	624.670	624.260	620.730	617.500	616.230	614.880	612.680	612.600	612.850		
DISTANCE (m)	0.000	3.483	4.521	6.433	6.571	7.565	8.226	12.161	15.345	17.052	18.435	19.618	20.451	24.194	24.957	27.525

CS 2



DATUM ABOVE (m) : 610

GROUND LEVEL (m)	625.440	625.440	625.010	625.330	624.810	623.920	622.480	621.510	618.630	616.920	614.530	612.750	612.310	612.350	612.430
DISTANCE (m)	0.000	3.590	4.334	6.558	7.318	8.443	9.936	11.330	14.540	16.475	19.367	20.440	21.229	25.016	27.225

CS 3

EMPLOYER

 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
 MINISTRY OF DEFENCE
 NATIONAL BUILDING RESEARCH INSTITUTE
 No. 99/1, JAWATTA ROAD,
 COLOMBO - 05

DESIGNER

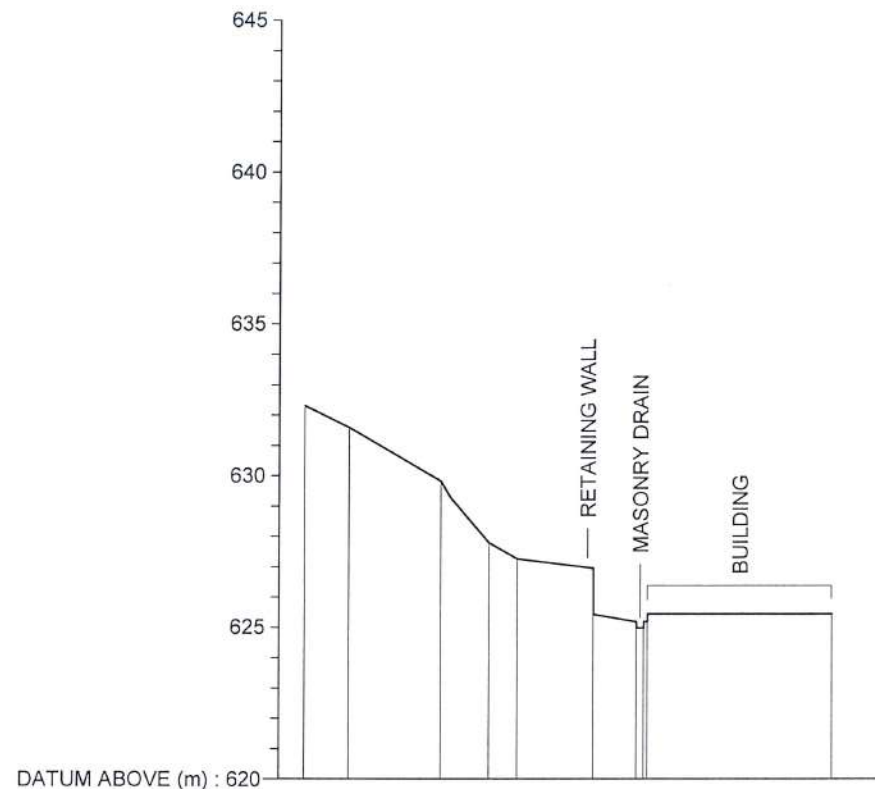
 DESIGN UNIT
 NATIONAL BUILDING RESEARCH INSTITUTE
 No. 99/1, JAWATTA ROAD,
 COLOMBO - 05

REV	DATE	REVISION DESCRIPTION	APPROVAL

PROJECT TITLE
 REDUCTION OF LANDSLIDE VULNERABILITY
 BY MITIGATION MEASURES PROJECT
 NEAR AESTHETIC BUILDING
 DHARMARAJA COLLEGE KANDY
 LOCATION 2

TITLE
 EXISTING CROSS SECTIONS
 SCALE 1:250
 DATE 03.03.2026
 PROJECT / DRAWING No.
 RLVMMP/WORKS/NCB/PH III/228/L2/DR 02a
 REVISION
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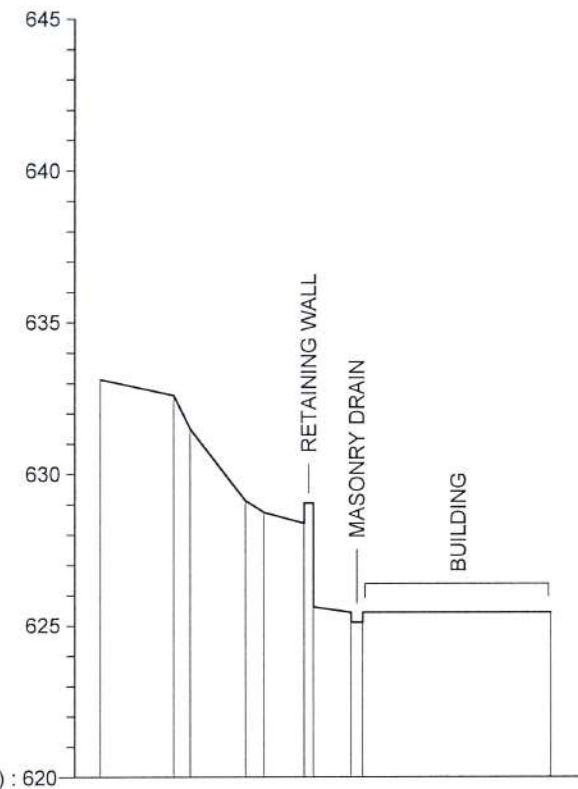
DESCRIPTION	NAME	SIGNATURE
DRAWN	W.L.P.N.N. WIJESINGHE	
CHECKED	R.J.K.P.N. RANATHUNGA	



DATUM ABOVE (m) : 620

GROUND LEVEL (m)	632.310	631.590	629.820	629.270	627.790	627.260	626.950	625.430	624.980	625.190	625.440	625.440
DISTANCE (m)	0.000	1.463	4.535	4.869	6.139	7.076	9.612	9.813	11.039	11.275	11.401	17.516

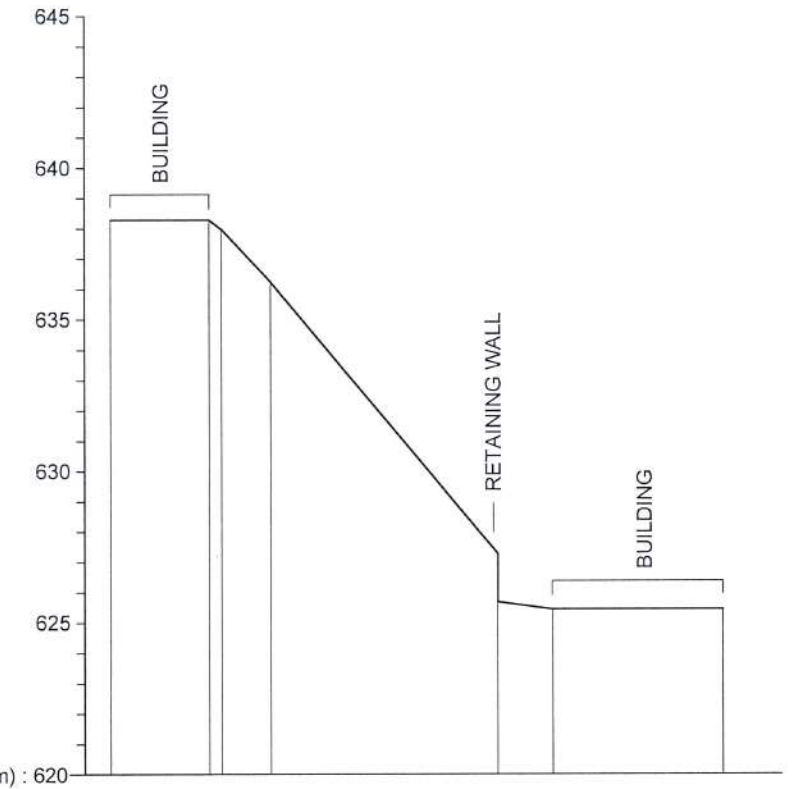
CS 4



DATUM ABOVE (m) : 620

GROUND LEVEL (m)	633.120	632.590	631.480	629.120	628.730	629.040	625.610	625.490	625.430	625.430
DISTANCE (m)	0.000	2.435	2.988	4.813	5.443	6.771	7.082	8.327	8.708	14.961

CS 5



DATUM ABOVE (m) : 620

GROUND LEVEL (m)	638.290	638.290	637.980	636.240	627.280	625.680	625.440	625.440
DISTANCE (m)	0.000	3.301	3.704	5.334	12.855	12.855	14.687	20.339

CS 6

EMPLOYER

 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF DEFENCE
NATIONAL BUILDING RESEARCH INSTITUTE
No. 99/1, JAWATTA ROAD,
COLOMBO - 05

DESIGNER

 DESIGN UNIT
NATIONAL BUILDING RESEARCH INSTITUTE
No. 99/1, JAWATTA ROAD,
COLOMBO - 05

REV	DATE	REVISION DESCRIPTION	APPROVAL

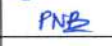
PROJECT TITLE

REDUCTION OF LANDSLIDE VULNERABILITY
BY MITIGATION MEASURES PROJECT
NEAR AESTHETIC BUILDING
DHARMARAJA COLLEGE KANDY
LOCATION 2

TITLE

EXISTING CROSS SECTIONS

SCALE 1:250 DATE 03.03.2026
PROJECT / DRAWING No. RLVMP/WORKS/NCB/PH III/228/L2/DR 02b REVISION 00

DESCRIPTION	NAME	SIGNATURE
DRAWN	W.L.P.N.N. WIJESINGHE	
CHECKED	R.J.K.P.N. RANATHUNGA	



GROUND LEVEL (m)	639.920	638.090	628.520	628.980	625.430	625.440
DISTANCE (m)	0.000	3.796	12.467	13.589	14.137	15.202
						21.131
						625.440

CS 7

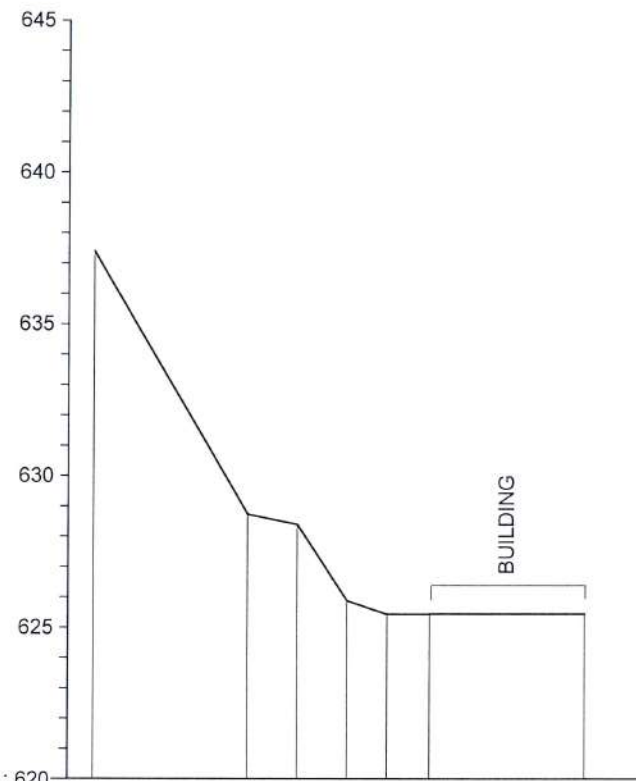
[illegible]

CS 8



GROUND LEVEL (m)	639.130	636.160	633.510	632.470	629.570	628.540	626.170	625.560	625.440	625.440
DISTANCE (m)	0.000	3.630	6.045	6.957	8.536	9.887	10.887	12.548	13.873	18.983

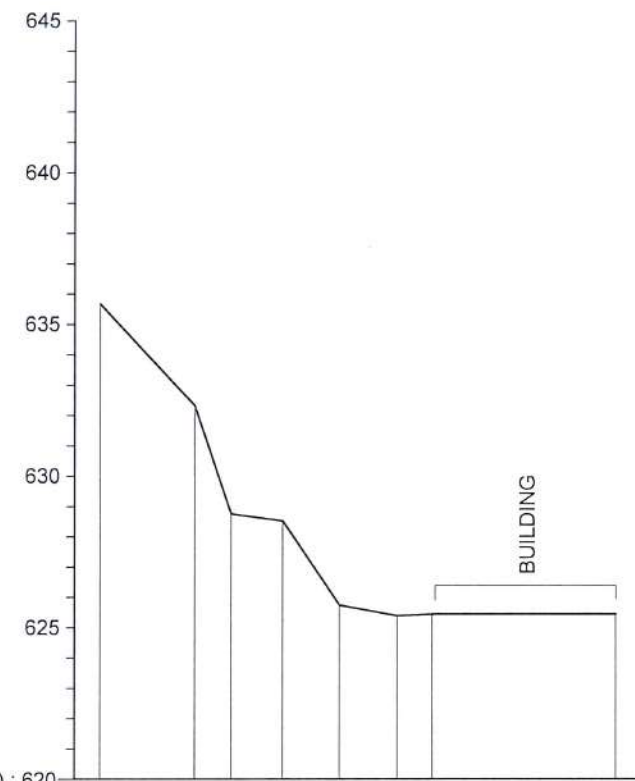
CS 9



DATUM ABOVE (m) : 620

GROUND LEVEL (m)	637.410	628.730	628.390	625.880	625.430	625.440	625.440
DISTANCE (m)	0.000	5.151	6.789	8.451	9.773	11.182	16.345

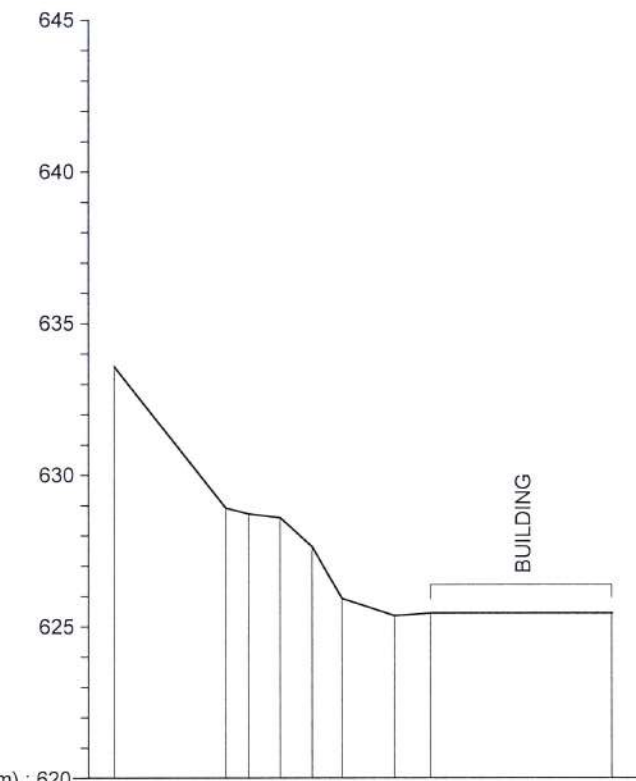
CS 10



DATUM ABOVE (m) : 620

GROUND LEVEL (m)	635.671	632.330	628.760	628.520	625.740	625.390	625.440	625.440
DISTANCE (m)	0.000	3.144	4.366	6.076	7.955	9.862	11.027	17.132

CS 11

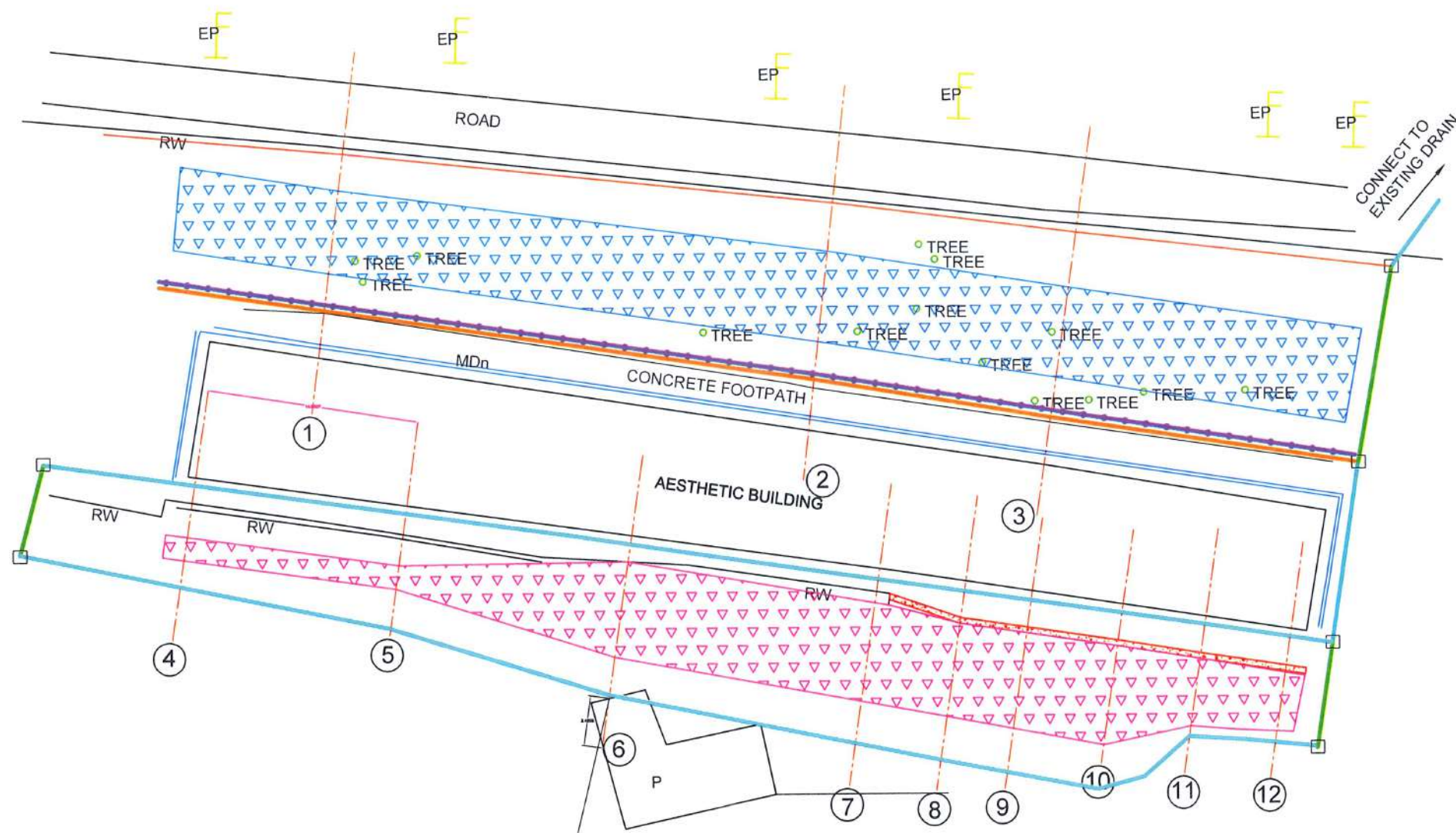


DATUM ABOVE (m) : 620

GROUND LEVEL (m)	633.580	628.910	628.720	628.600	627.630	625.930	625.360	625.440	625.440
DISTANCE (m)	0.000	3.715	4.467	5.524	6.579	7.576	9.306	10.499	16.537

CS 12

EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT NEAR AESTHETIC BUILDING DHARMARAJA COLLEGE KANDY LOCATION 2	TITLE EXISTING CROSS SECTIONS	DESCRIPTION	NAME	SIGNATURE
						SCALE	1:250	DATE	03.03.2026	
						PROJECT / DRAWING No.	RLVMMP/WORKS/NCB/PH III/228/L2/DR 02d	REVISION	00	



REFERENCE

- ELECTRICAL POST EP
- MASONRY DRAIN MDn
- PERMANENT BUILDING P
- RETAINING WALL RW
- SECTIONS
- TREE
- REFERENCE POINTS

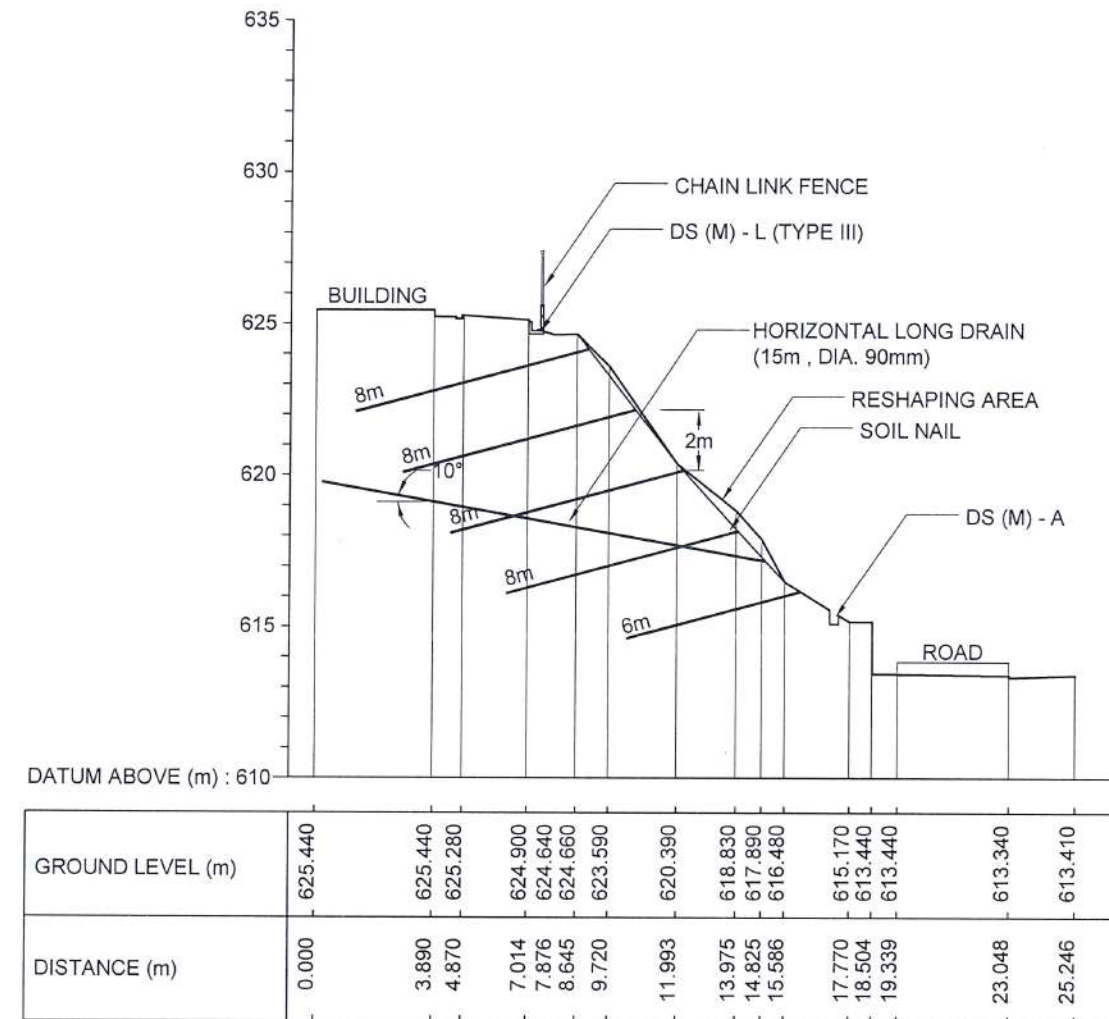
DESIGN NOTATION

- DS (C) - B
- DS (M) - A
- DS (M) - B
- DS (M) - L (TYPE III)
- CHAIN LINK FENCE
- CONCRETE RETAINING WALL (1m)
- SOIL NAILING AREA - A
- SOIL NAILING AREA - B
- CATCH PIT

NOTES

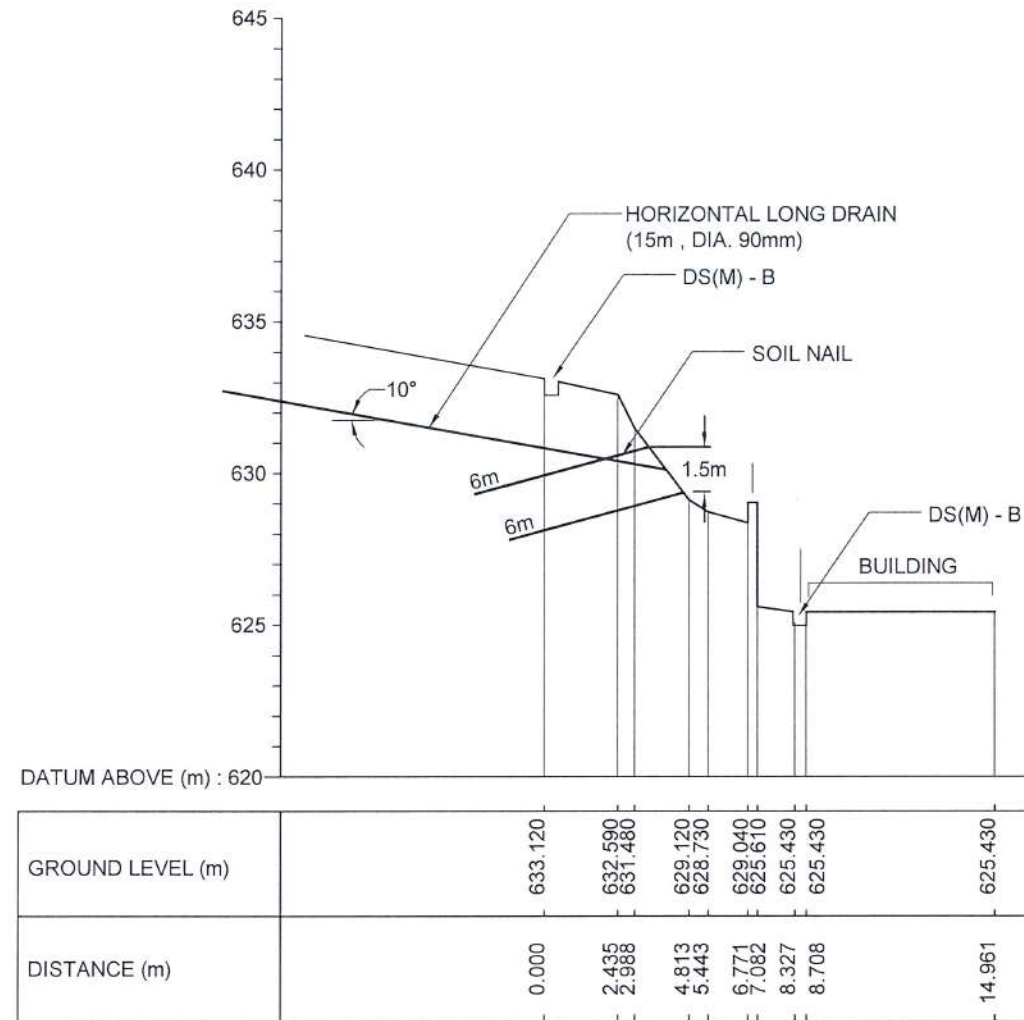
- SURFACE DRAIN LOCATIONS (PATH) & LENGTHS MIGHT BE VARIED ACCORDING TO ACTUAL SITE CONDITION.
- UNSTABLE BOULDERS SHALL BE REMOVED AS PER THE INSTRUCTION OF THE ENGINEER.
- PROPOSED DRAINS SHALL BE CONNECTED TO THE EXISTING DRAINS / LEADER WAYS TO PROPERLY DRAIN OUT THE WATER.
- WALLS SHOULD BE PLACED ON A HARD LAYER.
- HEIGHT OF THE WALL MAY BE VARIED ACCORDING TO THE ACTUAL SITE CONDITIONS AND SHALL BE CONSTRUCTED AS PER THE ENGINEER'S INSTRUCTIONS.
- LOCATION OF THE CATCH PITS MIGHT BE VARIED ACCORDING TO THE ACTUAL SITE CONDITION.

EMPLOYER		DESIGNER	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE	TITLE			DESCRIPTION	NAME	SIGNATURE
 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	 DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05						REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT NEAR AESTHETIC BUILDING DHARMARAJA COLLEGE KANDY LOCATION 2	PLAN VIEW OF PROPOSED MITIGATION MEASURES			DRAWN	K. M. D. NISHANTHI	
											DESIGNED	R.J.K.P.N. RANATHUNGA	
											CHECKED	I.A.N.D. IDIRIMANNA	
											RECOMMENDED	PROF. S. A. S. KULATHILAKA	
								SCALE 1:250			DATE	03.03.2026	APPROVED
PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/L2/DR 03								REVISION	00				

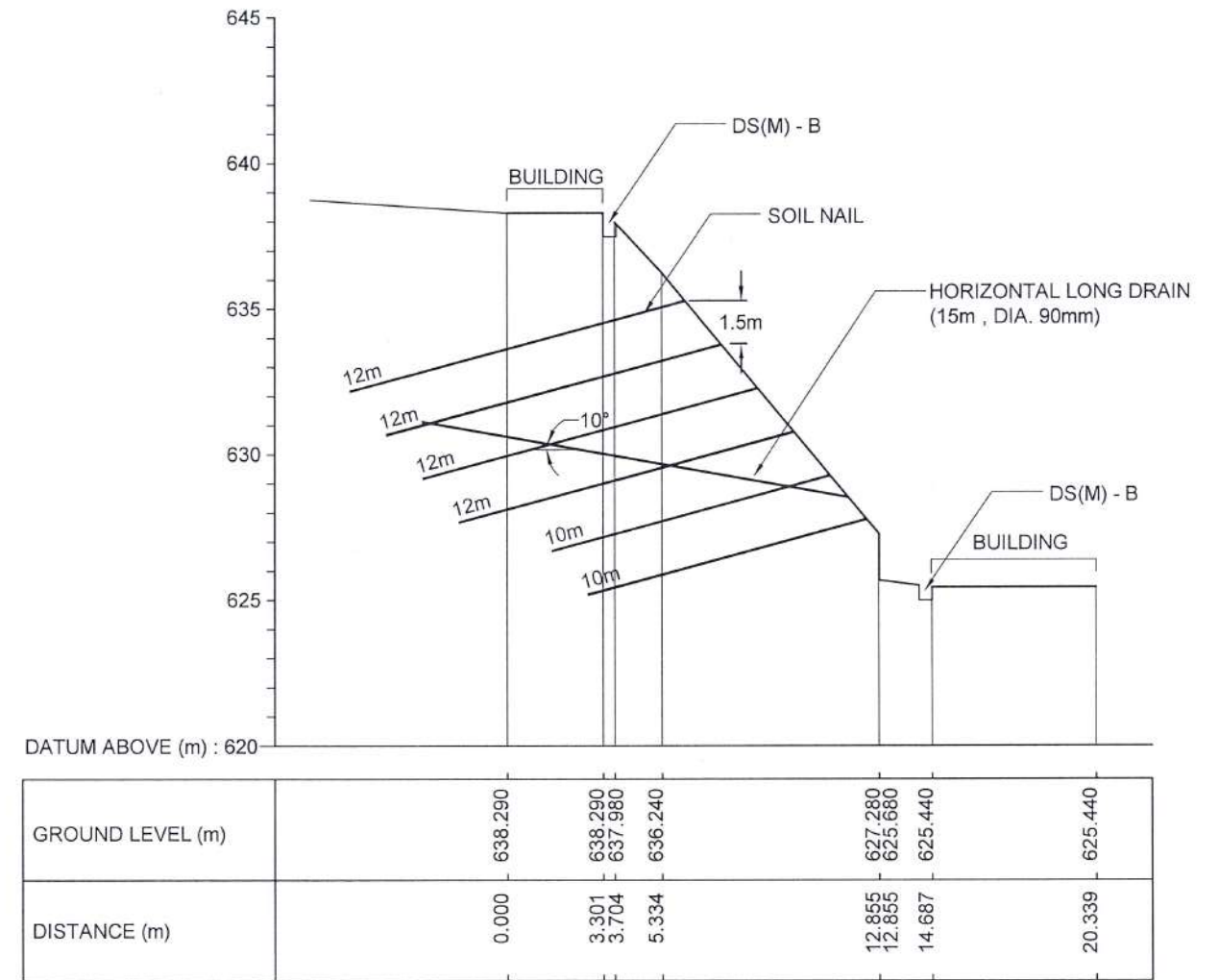


CS 1

EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 		DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05		<table><tr><th>REV</th><th>DATE</th><th>REVISION DESCRIPTION</th><th>APPROVAL</th></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>		REV	DATE	REVISION DESCRIPTION	APPROVAL																													PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT NEAR AESTHETIC BUILDING DHARMARAJA COLLEGE KANDY LOCATION 2		<table><tr><td colspan="3">TITLE</td><td colspan="3">CROSS SECTIONS OF PROPOSED MITIGATION MEASURES</td></tr><tr><td>SCALE</td><td>1:250</td><td>DATE</td><td>03.03.2026</td><td>DESCRIPTION</td><td>NAME</td><td>SIGNATURE</td></tr><tr><td colspan="4" rowspan="3">PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/L2/DR 04a</td><td>DRAWN</td><td>K. M. D. NISHANTHI</td><td></td></tr><tr><td>DESIGNED</td><td>R.J.K.P.N. RANATHUNGA</td><td></td></tr><tr><td>CHECKED</td><td>I.A.N.D. IDIRIMANNA</td><td></td></tr><tr><td colspan="4" rowspan="2">REVISION 00</td><td>RECOMMENDED</td><td>PROF. S. A. S. KULATHILAKA</td><td></td></tr><tr><td>APPROVED</td><td>DR. S.H.S. JAYAKODY</td><td></td></tr></table>			TITLE			CROSS SECTIONS OF PROPOSED MITIGATION MEASURES			SCALE	1:250	DATE	03.03.2026	DESCRIPTION	NAME	SIGNATURE	PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/L2/DR 04a				DRAWN	K. M. D. NISHANTHI		DESIGNED	R.J.K.P.N. RANATHUNGA		CHECKED	I.A.N.D. IDIRIMANNA		REVISION 00				RECOMMENDED	PROF. S. A. S. KULATHILAKA		APPROVED	DR. S.H.S. JAYAKODY	
REV	DATE	REVISION DESCRIPTION	APPROVAL																																																																											
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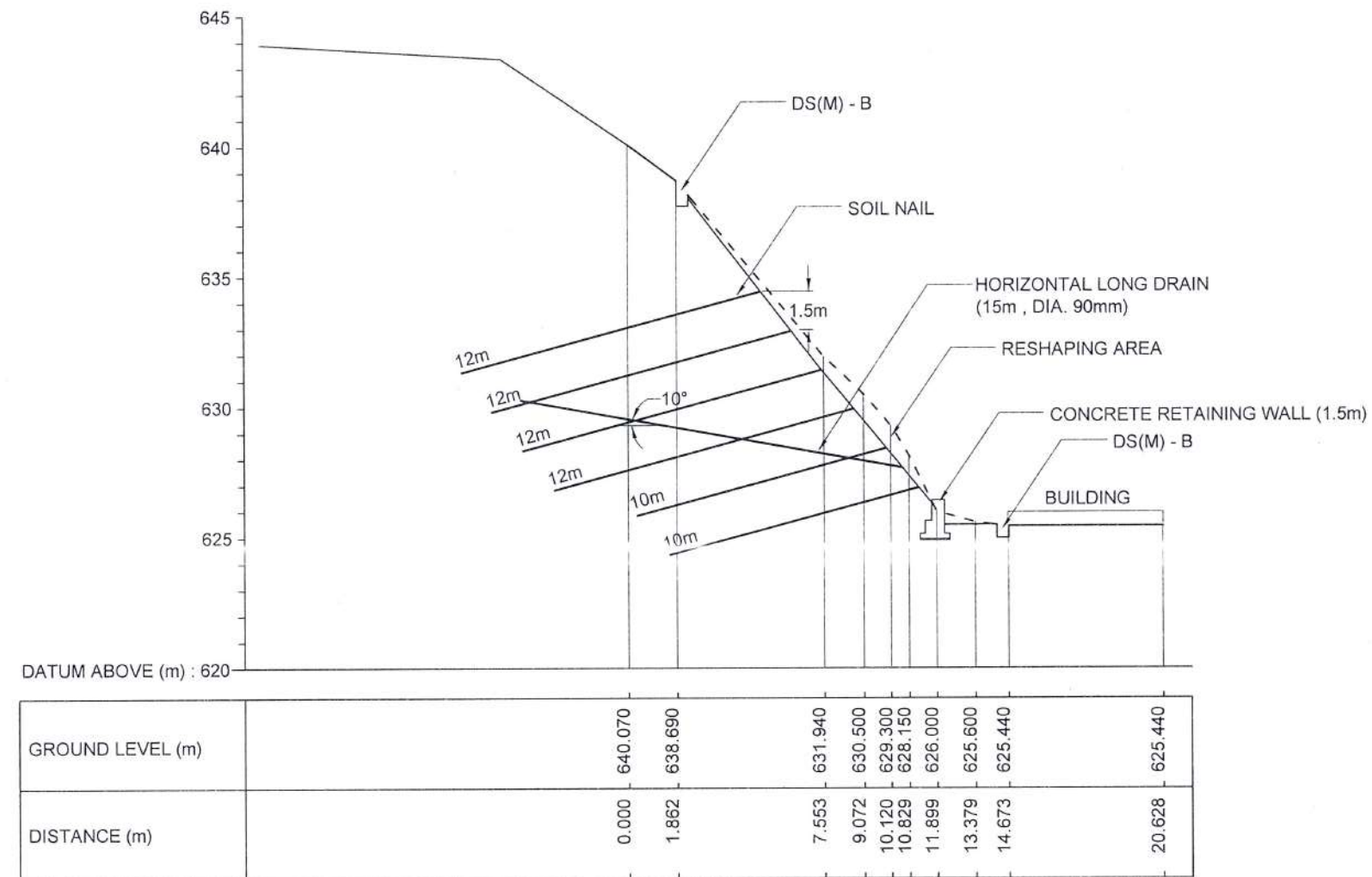


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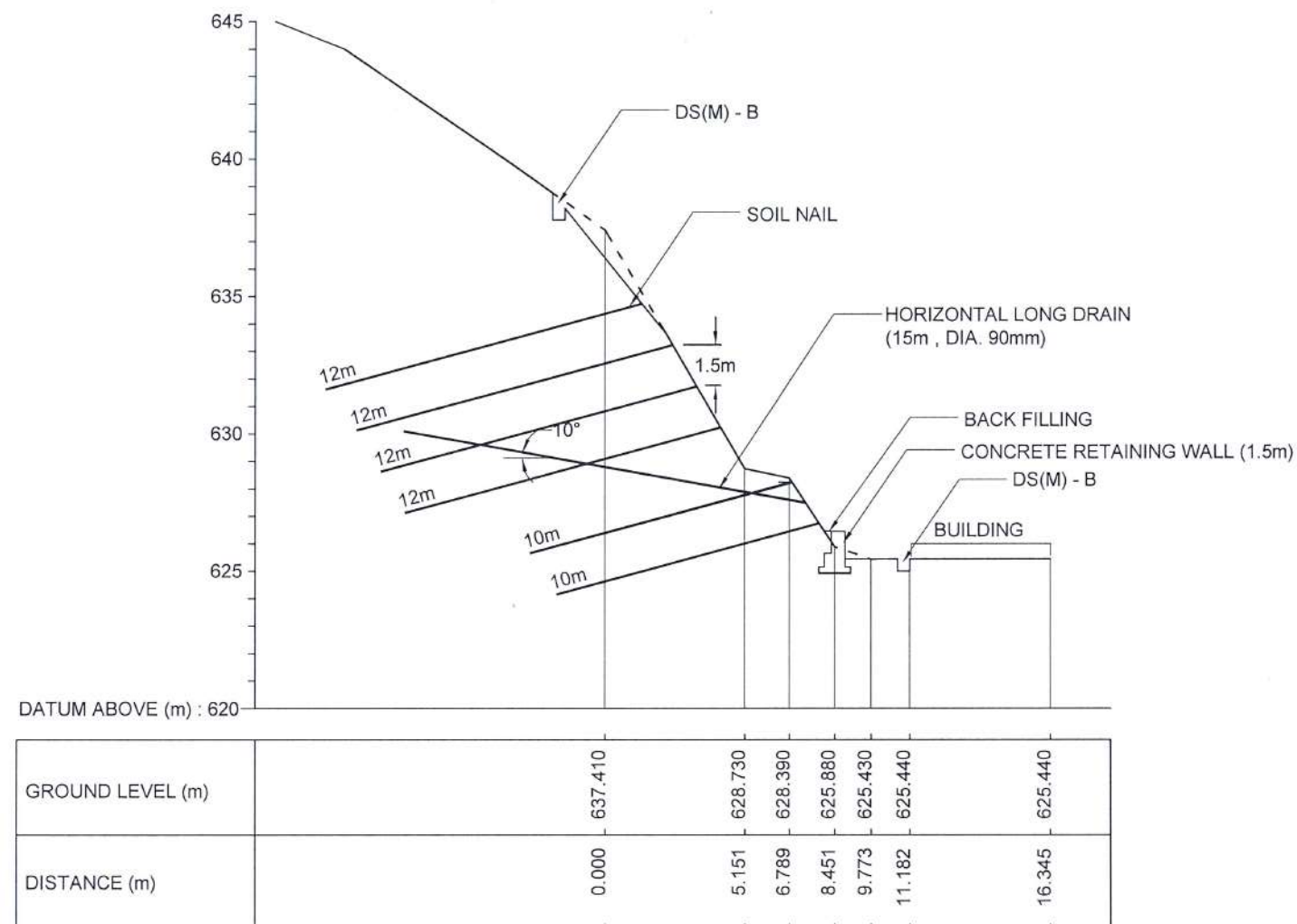
CS 6

EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 		DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05		REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT NEAR AESTHETIC BUILDING DHARMARAJA COLLEGE KANDY LOCATION 2	TITLE CROSS SECTIONS OF PROPOSED MITIGATION MEASURES			DESCRIPTION	NAME	SIGNATURE
									DRAWN	K. M. D. NISHANTHI				
									DESIGNED	R.J.K.P.N. RANATHUNGA				
									CHECKED	I.A.N.D. IDIRIMANNA				
									RECOMMENDED	PROF. S. A. S. KULATHILAKA				
									APPROVED	DR. S.H.S. JAYAKODY				
									SCALE 1:250	DATE	03.03.2026			
									PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/L2/DR 04b		REVISION 00			

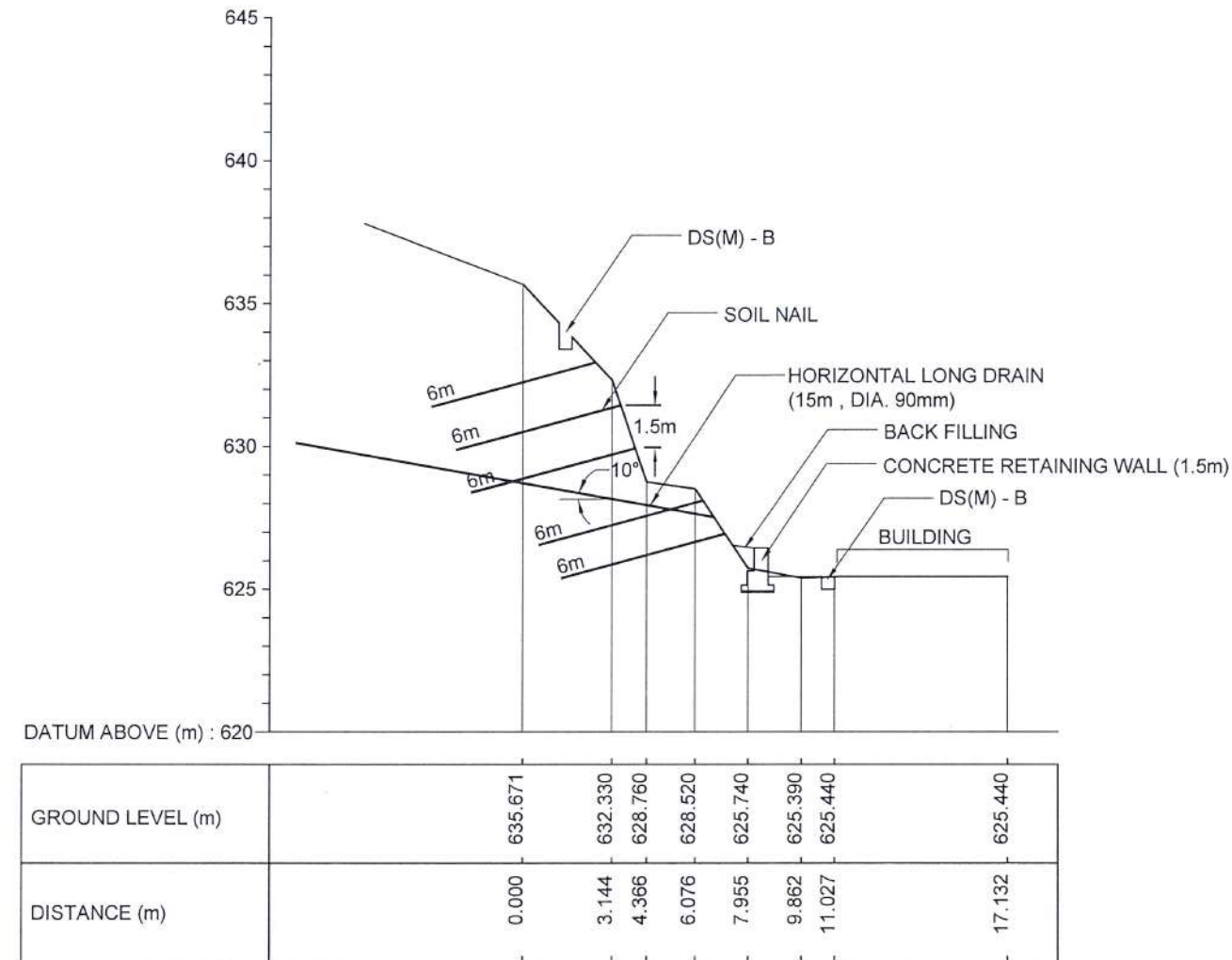


CS 8

EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT NEAR AESTHETIC BUILDING DHARMARAJA COLLEGE KANDY LOCATION 2	TITLE CROSS SECTIONS OF PROPOSED MITIGATION MEASURES	DESCRIPTION	NAME	SIGNATURE	
								DRAWN	K. M. D. NISHANTHI		
								DESIGNED	R. J. K. P. N. RANATHUNGA		
								CHECKED	I. A. N. D. IDIRIMANNA		
								RECOMMENDED	PROF. S. A. S. KULATHILAKA		
						SCALE	1:250	DATE	03.03.2025		
						PROJECT / DRAWING No.	RLVMMP/WORKS/NCB/PH III/228/L2/DR 04c	REVISION	00		
								APPROVED	DR. S. H. S. JAYAKODY		

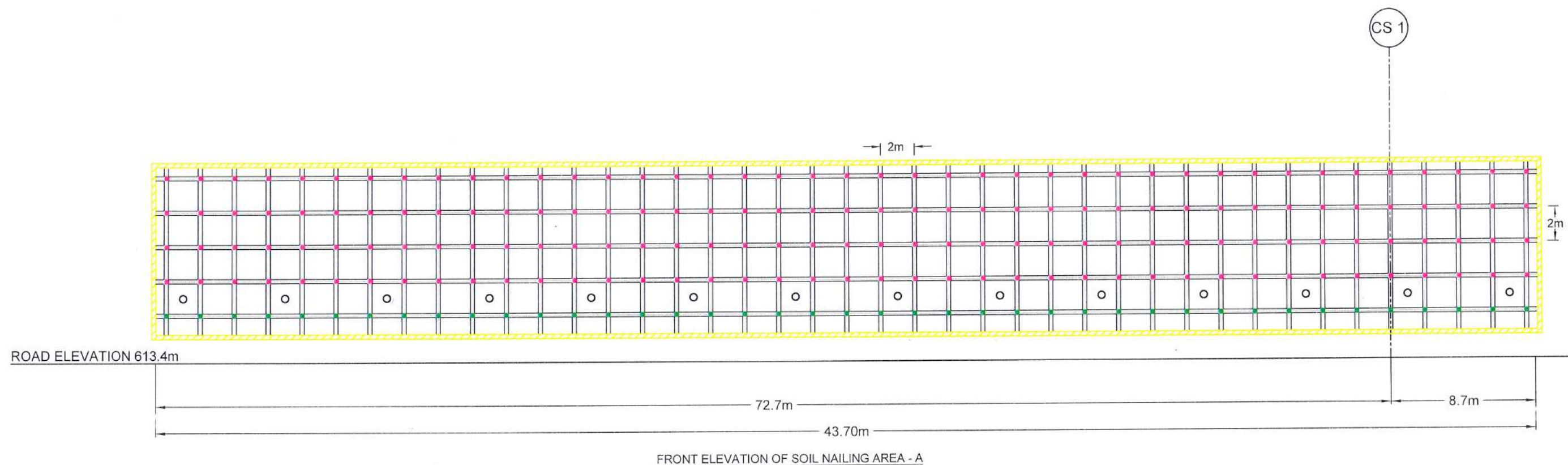


 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 		 DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	<table><tr><th>REV</th><th>DATE</th><th>REVISION DESCRIPTION</th><th>APPROVAL</th></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>	REV	DATE	REVISION DESCRIPTION	APPROVAL																													REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT NEAR AESTHETIC BUILDING DHARMARAJA COLLEGE KANDY LOCATION 2	<table><tr><td colspan="2" rowspan="4">TITLE CROSS SECTIONS OF PROPOSED MITIGATION MEASURES</td><td>DESCRIPTION</td><td>NAME</td><td>SIGNATURE</td></tr><tr><td>DRAWN</td><td>K. M. D. NISHANTHI</td><td></td></tr><tr><td>DESIGNED</td><td>R. J. K. P. N. RANATHUNGA</td><td></td></tr><tr><td>CHECKED</td><td>I. A. N. D. IDIRIMANNA</td><td></td></tr><tr><td>SCALE</td><td>1:250</td><td>DATE</td><td>03.03.2026</td><td>RECOMMENDED</td><td>PROF. S. A. S. KULATHILAKA</td><td></td></tr><tr><td colspan="2">PROJECT / DRAWING No. RLVMP/WORKS/NCB/PH III/228/L2/DR 04d</td><td>REVISION 00</td><td>APPROVED</td><td>DR. S. H. S. JAYAKODY</td><td></td></tr></table>	TITLE CROSS SECTIONS OF PROPOSED MITIGATION MEASURES		DESCRIPTION	NAME	SIGNATURE	DRAWN	K. M. D. NISHANTHI		DESIGNED	R. J. K. P. N. RANATHUNGA		CHECKED	I. A. N. D. IDIRIMANNA		SCALE	1:250	DATE	03.03.2026	RECOMMENDED	PROF. S. A. S. KULATHILAKA		PROJECT / DRAWING No. RLVMP/WORKS/NCB/PH III/228/L2/DR 04d		REVISION 00	APPROVED	DR. S. H. S. JAYAKODY	
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PROJECT / DRAWING No. RLVMP/WORKS/NCB/PH III/228/L2/DR 04d		REVISION 00	APPROVED	DR. S. H. S. JAYAKODY																																																												



CS 11

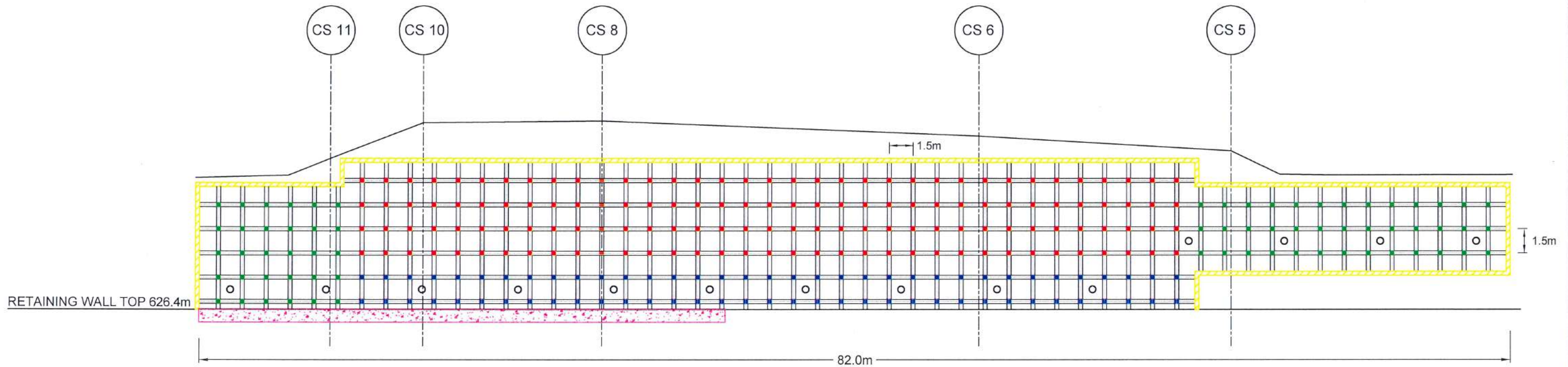
EMPLOYER		DESIGNER		REV		DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE		TITLE			DESCRIPTION	NAME	SIGNATURE	
 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05		 DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05								REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT NEAR AESTHETIC BUILDING DHARMARAJA COLLEGE KANDY LOCATION 2		CROSS SECTIONS OF PROPOSED MITIGATION MEASURES			DRAWN	K. M. D. NISHANTHI	
													DESIGNED	R.J.K.P.N. RANATHUNGA			
													CHECKED	I.A.N.D. IDIRIMANNA			
												SCALE 1:250	DATE 03.03.2026	RECOMMENDED	PROF. S. A. S. KULATHILAKA		
												PROJECT / DRAWING No. RI VMMP/WORKS/NCB/PH III/228/L2/DR 04e		REVISION 00	APPROVED	DR. S.H.S. JAYAKODY	



LEGEND

- SOIL NAILING
 - TOTAL SOIL NAIL LENGTH = 6m
 - NO OF SOIL NAIL = 41
 - REINFORCEMENT DIAMETER = 32 mm
 - DIAMETER OF DRILLED HOLE = 125mm
 - NAIL SPACING = 2m (BW)
- SOIL NAILING
 - TOTAL SOIL NAIL LENGTH = 8m
 - NO OF SOIL NAIL = 164
 - REINFORCEMENT DIAMETER = 32 mm
 - DIAMETER OF DRILLED HOLE = 125mm
 - NAIL SPACING = 2m (BW)
- HORIZONTAL LONG DRAIN
 - HORIZONTAL LONG DRAIN LENGTH = 15 m
 - NO'S OF LONG DRAIN = 14
 - DIAMETER = 90 mm
 - SPACING = 06 m
- BOUNDARY BEAM

EMPLOYER	DESIGNER	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE	TITLE	DESCRIPTION	NAME	SIGNATURE
DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05					REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT NEAR AESTHETIC BUILDING DHARMARAJA COLLEGE KANDY LOCATION 2	FRONT ELEVATION OF PROPOSED MITIGATION MEASURES	DRAWN	K. M. D. NISHANTHI	
								DESIGNED	R.J.K.P.N. RANATHUNGA	
								CHECKED	I.A.N.D. IDIRIMANNA	
								RECOMMENDED	PROF. S. A. S. KULATHILAKA	
								APPROVED	DR. S.H.S. JAYAKODY	
							SCALE 1:250 PROJECT / DRAWING No. RLVMP/WORKS/NCB/PH III/228/L2/DR 05a	DATE 03.03.2026 REVISION 00		

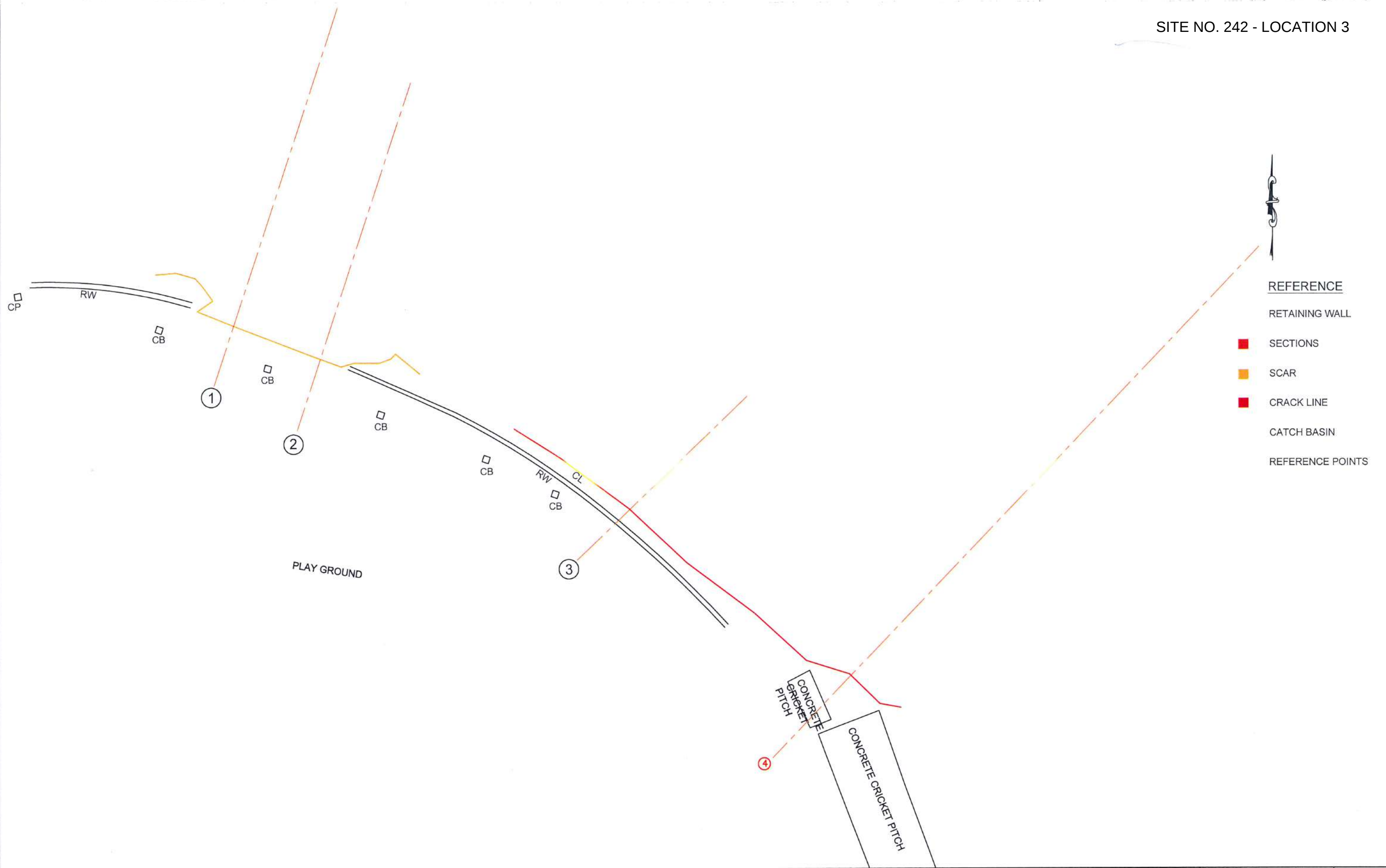


FRONT ELEVATION OF SOIL NAILING AREA - B

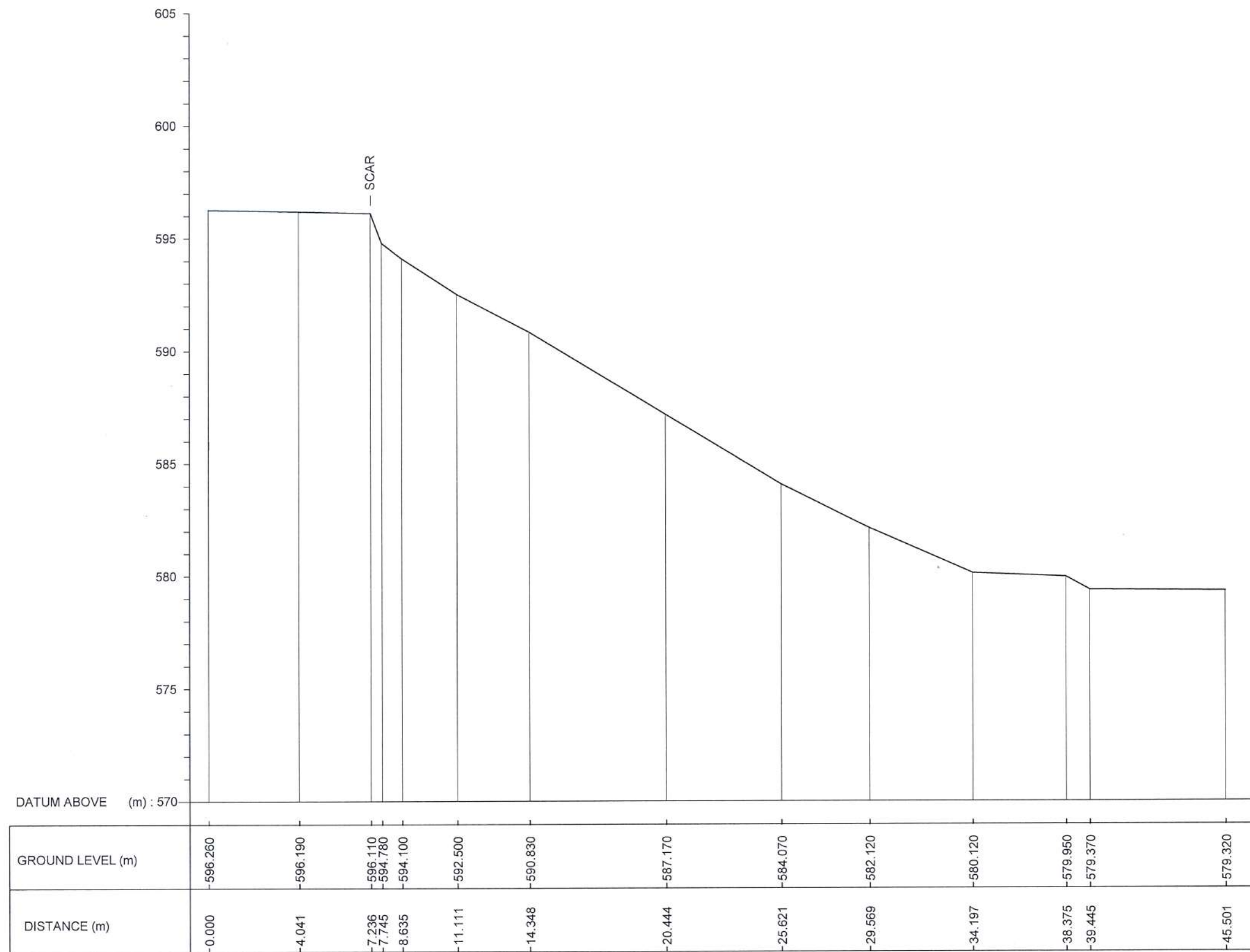
LEGEND

- | | | | | | | | |
|---|--------------|---|---|---|------------------------------|---|--|
|  | SOIL NAILING | - | TOTAL SOIL NAIL LENGTH = 6m
NO OF SOIL NAIL = 69
REINFORCEMENT DIAMETER = 32 mm
DIAMETER OF DRILLED HOLE = 125mm
NAIL SPACING = 1.5m (BW) |  | HORIZONTAL LONG DRAIN | - | HORIZONTAL LONG DRAIN LENGTH = 15 m
NO'S OF LONG DRAIN = 14
DIAMETER = 90 mm
SPACING = 08 m |
|  | SOIL NAILING | - | TOTAL SOIL NAIL LENGTH = 10m
NO OF SOIL NAIL = 70
REINFORCEMENT DIAMETER = 32 mm
DIAMETER OF DRILLED HOLE = 125mm
NAIL SPACING = 1.5m (BW) |  | BOUNDARY BEAM | | |
|  | SOIL NAILING | - | TOTAL SOIL NAIL LENGTH = 12m
NO OF SOIL NAIL = 140
REINFORCEMENT DIAMETER = 32 mm
DIAMETER OF DRILLED HOLE = 125mm
NAIL SPACING = 1.5m (BW) |  | CONCRETE RETAINING WALL (1m) | | |

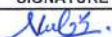
EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 		DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05		REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT NEAR AESTHETIC BUILDING DHARMARAJA COLLEGE KANDY LOCATION 2		TITLE FRONT ELEVATION OF PROPOSED MITIGATION MEASURES			DESCRIPTION	NAME	SIGNATURE
											DRAWN	K. M. D. NISHANTHI			
											DESIGNED	R.J.K.P.N. RANATHUNGA			
											CHECKED	I.A.N.D. IDIRIMANNA			
											RECOMMENDED	PROF. S. A. S. KULATHILAKA			
											APPROVED	DR. S.H.S. JAYAKODY			
											SCALE	1:250	DATE	03.03.2026	
											PROJECT / DRAWING No.			REVISION	
											RLVMMP/WORKS/NCB/PH III/228/L2/DR 05b			00	

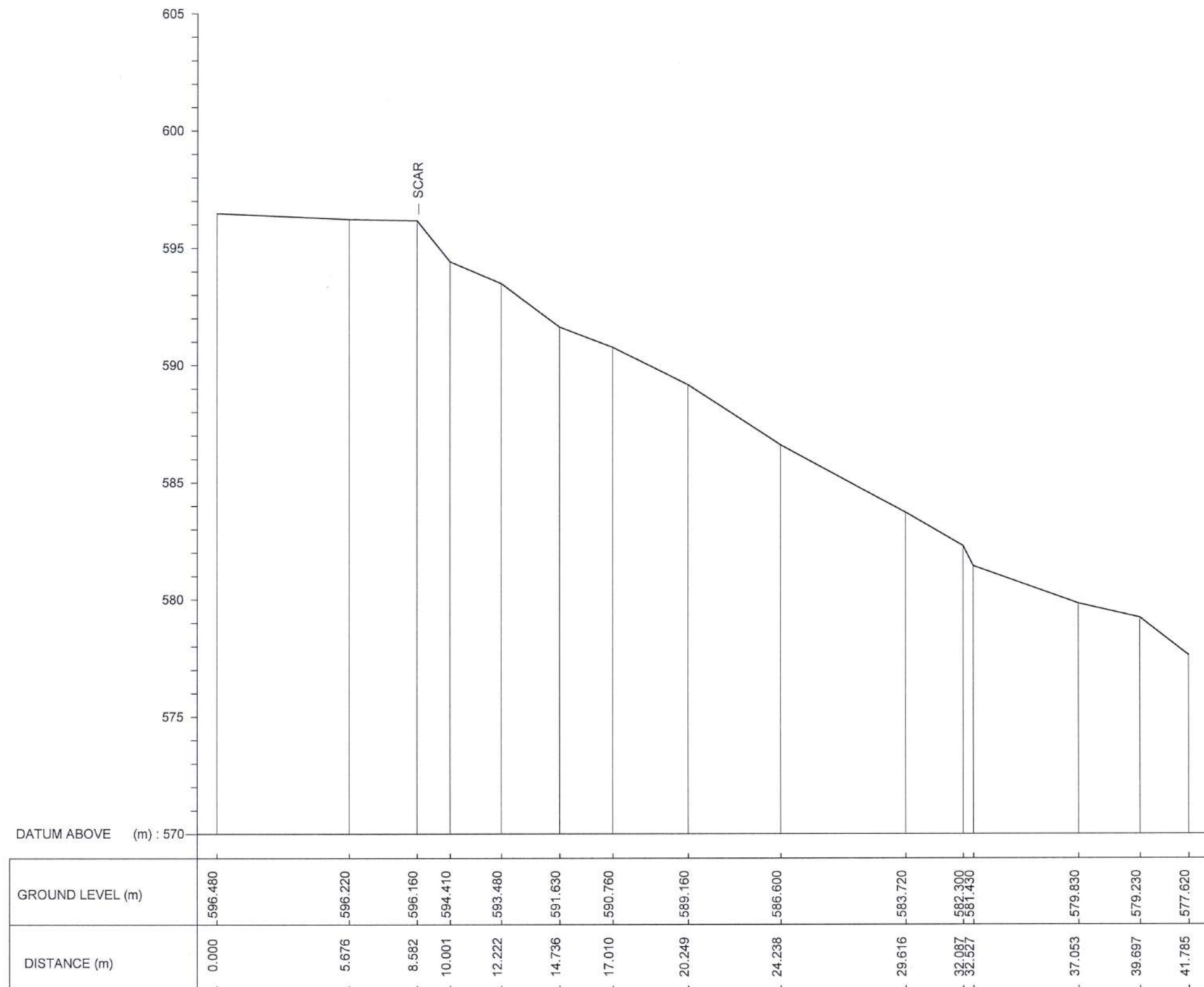


EMPLOYER		DESIGNER		REV		DATE		REVISION DESCRIPTION		APPROVAL		PROJECT TITLE		TITLE				DESCRIPTION		NAME		SIGNATURE	
 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05		 DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05										REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT NEAR THE PLAY GROUND DHARMARAJA COLLEGE KANDY LOCATION 3		SURVEY PLAN				SURVEYED		W.L.P.N.N. WIJESINGHE			
																		CHECKED		R.J.K.P.N. RANATHUNGA			
														SCALE		1:400		DATE		19.03.2028			
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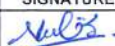


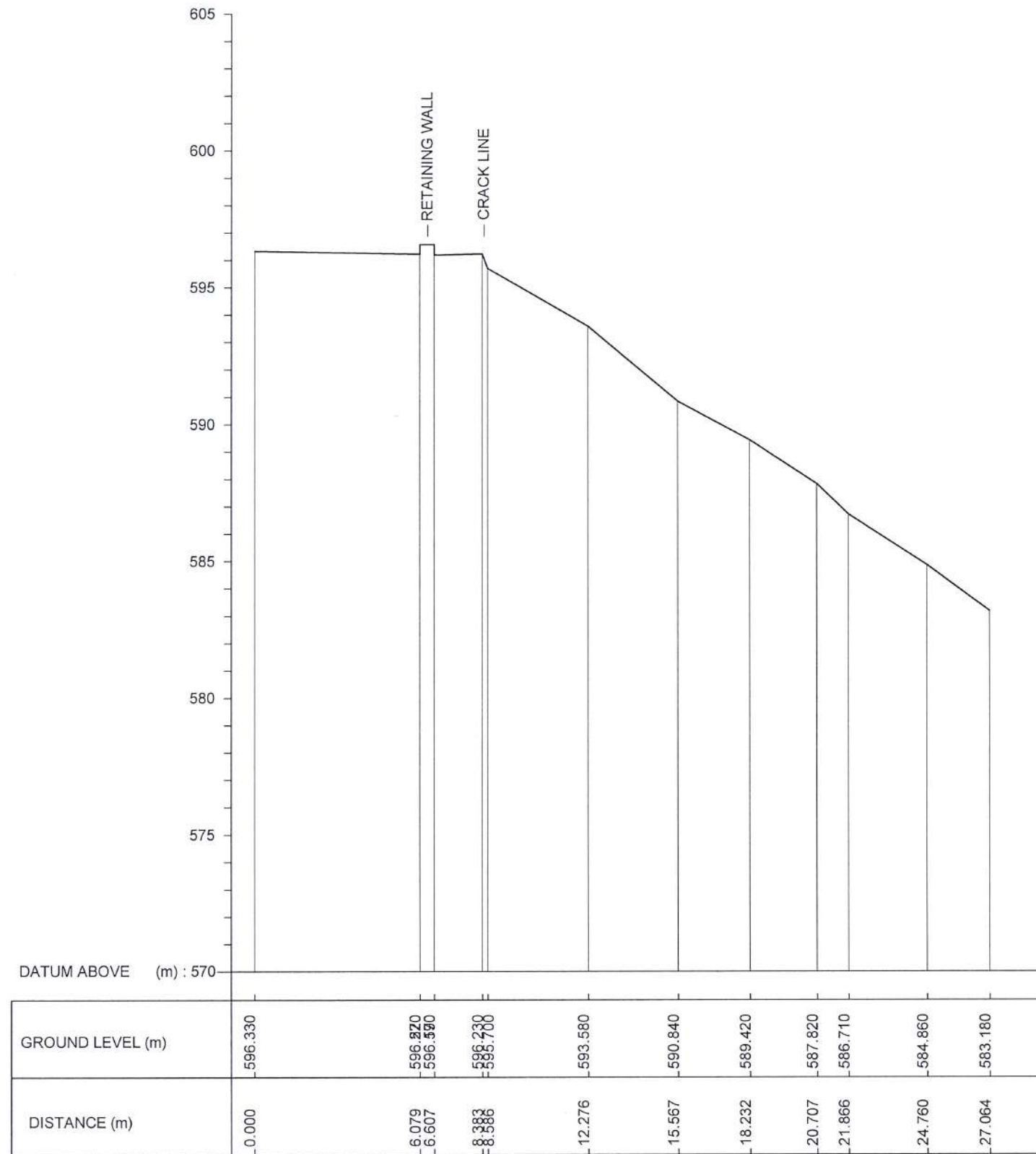
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EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 	DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT NEAR THE PLAY GROUND DHARMARAJA COLLEGE KANDY LOCATION 3	TITLE EXISTING CROSS SECTION	DESCRIPTION	NAME	SIGNATURE
								SURVEYED	W.L.P.N.N. WIJESINGHE	
								CHECKED	R.J.K.P.N. RANATHUNGA	
				SCALE 1:200				DATE	19.03.2026	
		PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/L3/DR 02a				REVISION	00			

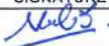


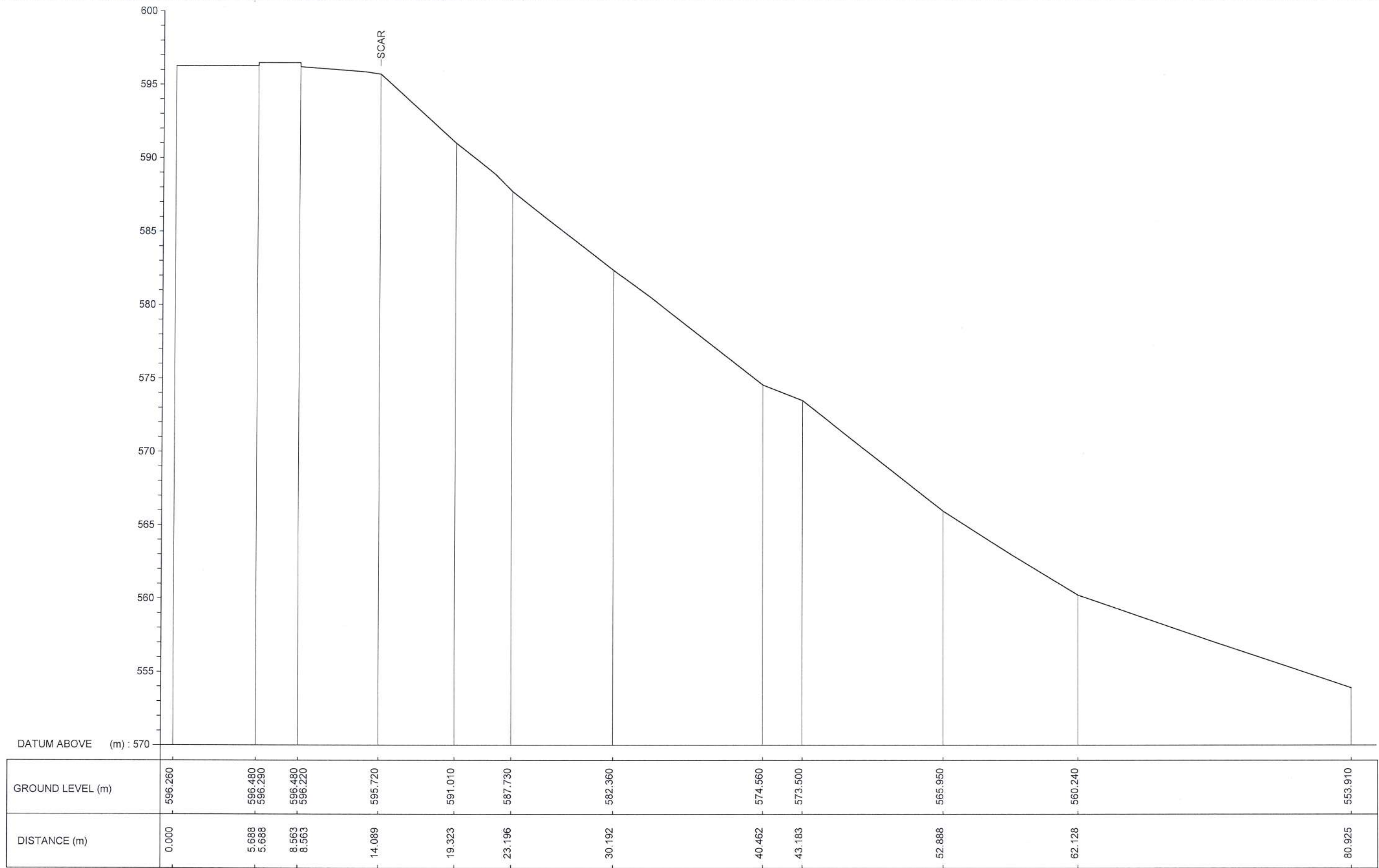
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EMPLOYER		DESIGNER		REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE	TITLE				DESCRIPTION	NAME	SIGNATURE
 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 		 DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05						REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT NEAR THE PLAY GROUND DHARMARAJA COLLEGE KANDY LOCATION 3	EXISTING CROSS SECTION				SURVEYED	W.L.P.N.N. WIJESINGHE	
													CHECKED	R.J.K.P.N. RANATHUNGA	
									SCALE 1:200				DATE	19.03.2028	
									PROJECT / DRAWING No. RL VMMP/WORKS/NCB/PH III/228/L3/DR 02b				REVISION	00	



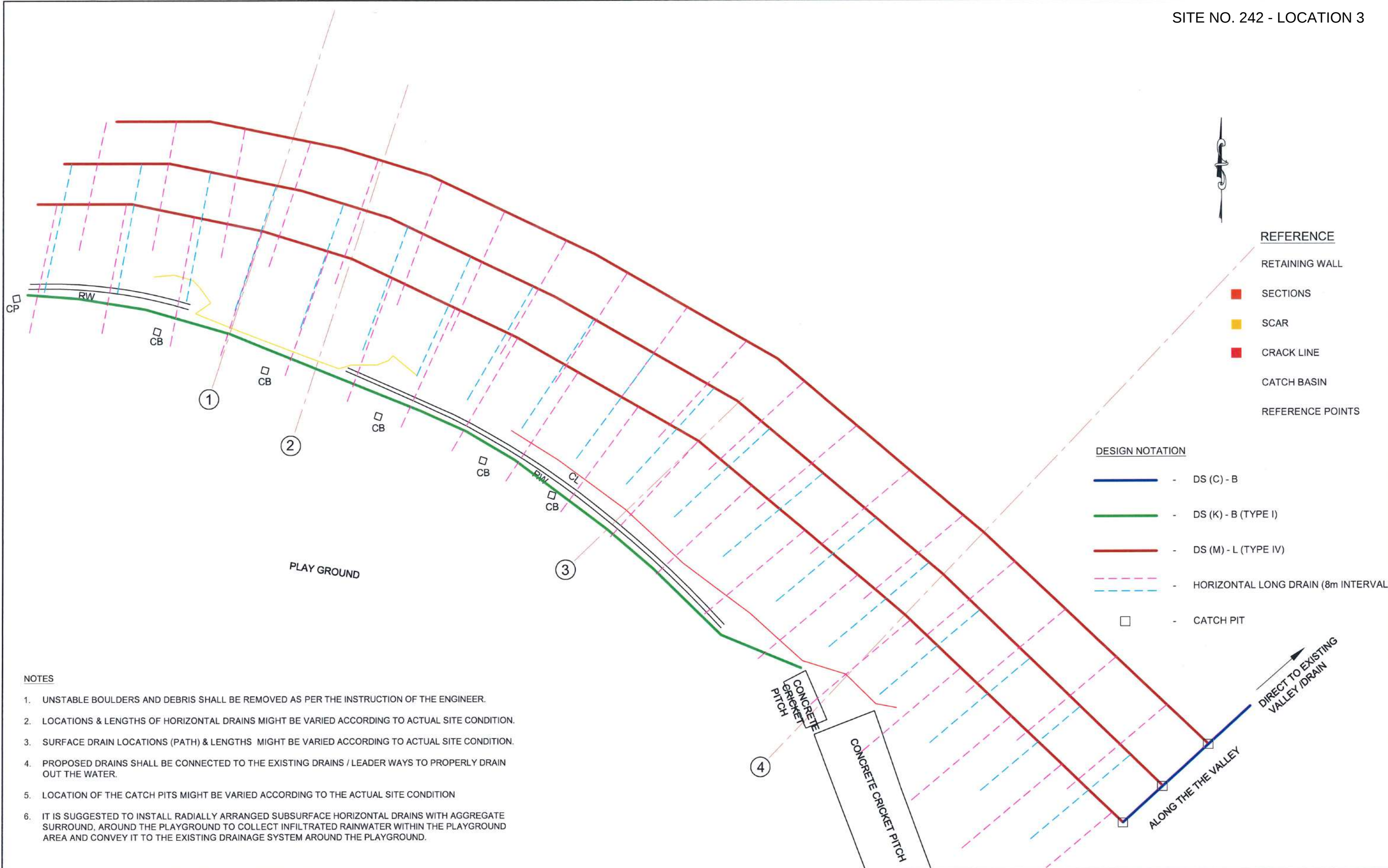
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EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 	DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT NEAR THE PLAY GROUND DHARMARAJA COLLEGE KANDY LOCATION 3	TITLE EXISTING CROSS SECTION	DESCRIPTION	NAME	SIGNATURE
								SURVEYED	W.L.P.N.N. WIJESINGHE	
								CHECKED	R.J.K.P.N. RANATHUNGA	
						SCALE 1:200	DATE 19.03.2026			
						PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/L3/DR 02c	REVISION 00			



CS 4

EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 	DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT NEAR THE PLAY GROUND DHARMARAJA COLLEGE KANDY LOCATION 3	TITLE EXISTING CROSS SECTION				DESCRIPTION	NAME	SIGNATURE
											SURVEYED	W.L.P.N.N. WIJESINGHE	
											CHECKED	R.J.K.P.N. RANATHUNGA	
		SCALE 1:250		DATE 19.03.2026			PROJECT / DRAWING No. RLVMMPP/WORKS/NCB/PH III/228/L3/DR 02d		REVISION 00				



NOTES

1. UNSTABLE BOULDERS AND DEBRIS SHALL BE REMOVED AS PER THE INSTRUCTION OF THE ENGINEER.
2. LOCATIONS & LENGTHS OF HORIZONTAL DRAINS MIGHT BE VARIED ACCORDING TO ACTUAL SITE CONDITION.
3. SURFACE DRAIN LOCATIONS (PATH) & LENGTHS MIGHT BE VARIED ACCORDING TO ACTUAL SITE CONDITION.
4. PROPOSED DRAINS SHALL BE CONNECTED TO THE EXISTING DRAINS / LEADER WAYS TO PROPERLY DRAIN OUT THE WATER.
5. LOCATION OF THE CATCH PITS MIGHT BE VARIED ACCORDING TO THE ACTUAL SITE CONDITION
6. IT IS SUGGESTED TO INSTALL RADIALLY ARRANGED SUBSURFACE HORIZONTAL DRAINS WITH AGGREGATE SURROUND, AROUND THE PLAYGROUND TO COLLECT INFILTRATED RAINWATER WITHIN THE PLAYGROUND AREA AND CONVEY IT TO THE EXISTING DRAINAGE SYSTEM AROUND THE PLAYGROUND.

EMPLOYER DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05		DESIGNER DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	<table><tr><th>REV</th><th>DATE</th><th>REVISION DESCRIPTION</th><th>APPROVAL</th></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>	REV	DATE	REVISION DESCRIPTION	APPROVAL																									PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT NEAR THE PLAY GROUND DHARMARAJA COLLEGE KANDY LOCATION 3	TITLE PLAN VIEW OF PROPOSED MITIGATION MEASURES <table><tr><td>SCALE</td><td>1:400</td><td>DATE</td><td>19.03.2026</td></tr><tr><td colspan="3">PROJECT / DRAWING No. RLVMP/WORKS/NCB/PH III/228/L3/DR 03</td><td>REVISION 00</td></tr></table>	SCALE	1:400	DATE	19.03.2026	PROJECT / DRAWING No. RLVMP/WORKS/NCB/PH III/228/L3/DR 03			REVISION 00	<table><tr><th>DESCRIPTION</th><th>NAME</th><th>SIGNATURE</th></tr><tr><td>DRAWN</td><td>K. M. D. NISHANTHI</td><td></td></tr><tr><td>DESIGNED</td><td>R.J.K.P.N. RANATHUNGA</td><td></td></tr><tr><td>CHECKED</td><td>I.A.N.D. IDIRIMANNA</td><td></td></tr><tr><td>RECOMMENDED</td><td>PROF. S. A. S. KULATHILAKA</td><td></td></tr><tr><td>APPROVED</td><td>DR. S.H.S. JAYAKODY</td><td></td></tr></table>	DESCRIPTION	NAME	SIGNATURE	DRAWN	K. M. D. NISHANTHI		DESIGNED	R.J.K.P.N. RANATHUNGA		CHECKED	I.A.N.D. IDIRIMANNA		RECOMMENDED	PROF. S. A. S. KULATHILAKA		APPROVED	DR. S.H.S. JAYAKODY	
REV	DATE	REVISION DESCRIPTION	APPROVAL																																																									
SCALE	1:400	DATE	19.03.2026																																																									
PROJECT / DRAWING No. RLVMP/WORKS/NCB/PH III/228/L3/DR 03			REVISION 00																																																									
DESCRIPTION	NAME	SIGNATURE																																																										
DRAWN	K. M. D. NISHANTHI																																																											
DESIGNED	R.J.K.P.N. RANATHUNGA																																																											
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RECOMMENDED	PROF. S. A. S. KULATHILAKA																																																											
APPROVED	DR. S.H.S. JAYAKODY																																																											

REFERENCE

MASONRY DRAIN	MDn
PERMANENT BUILDING	P
RETAINING WALL	RW
ROCK	
SCAR	
SECTIONS	
NET FENCE	NF
TREE	

N	E	Z	PN
532031.9	486097.6	546.378	GCP 05
532059.8	486068.6	546.499	CP 06

CP 06

NF

SWIMMING POOL

GCP 05

ROCK

ROCK

Tree

MDn

RW

550

555

560

560

565

570

575

①

②

③

④

⑤

⑥

P

SITE NO. 242 - LOCATION 4

EMPLOYER



DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF DEFENCE
NATIONAL BUILDING RESEARCH INSTITUTE
No. 99/1, JAWATTA ROAD,
COLOMBO - 05



DESIGNER

DESIGN UNIT
NATIONAL BUILDING RESEARCH INSTITUTE
No. 99/1, JAWATTA ROAD,
COLOMBO - 05

REV	DATE	REVISION DESCRIPTION	APPROVAL

PROJECT TITLE

REDUCTION OF LANDSLIDE VULNERABILITY
BY MITIGATION MEASURES PROJECT
ABOVE THE SWIMMING POOL
DHARMARAJA COLLEGE, KANDY
LOCATION 4

TITLE

SURVEY PLAN

SCALE 1:200

DATE 06.05.2026

PROJECT / DRAWING No.
RLVMP/WORKS/NCB/PH II/228/L4/DR 01

REVISION
00

DESCRIPTION

NAME

SIGNATURE

SURVEYED

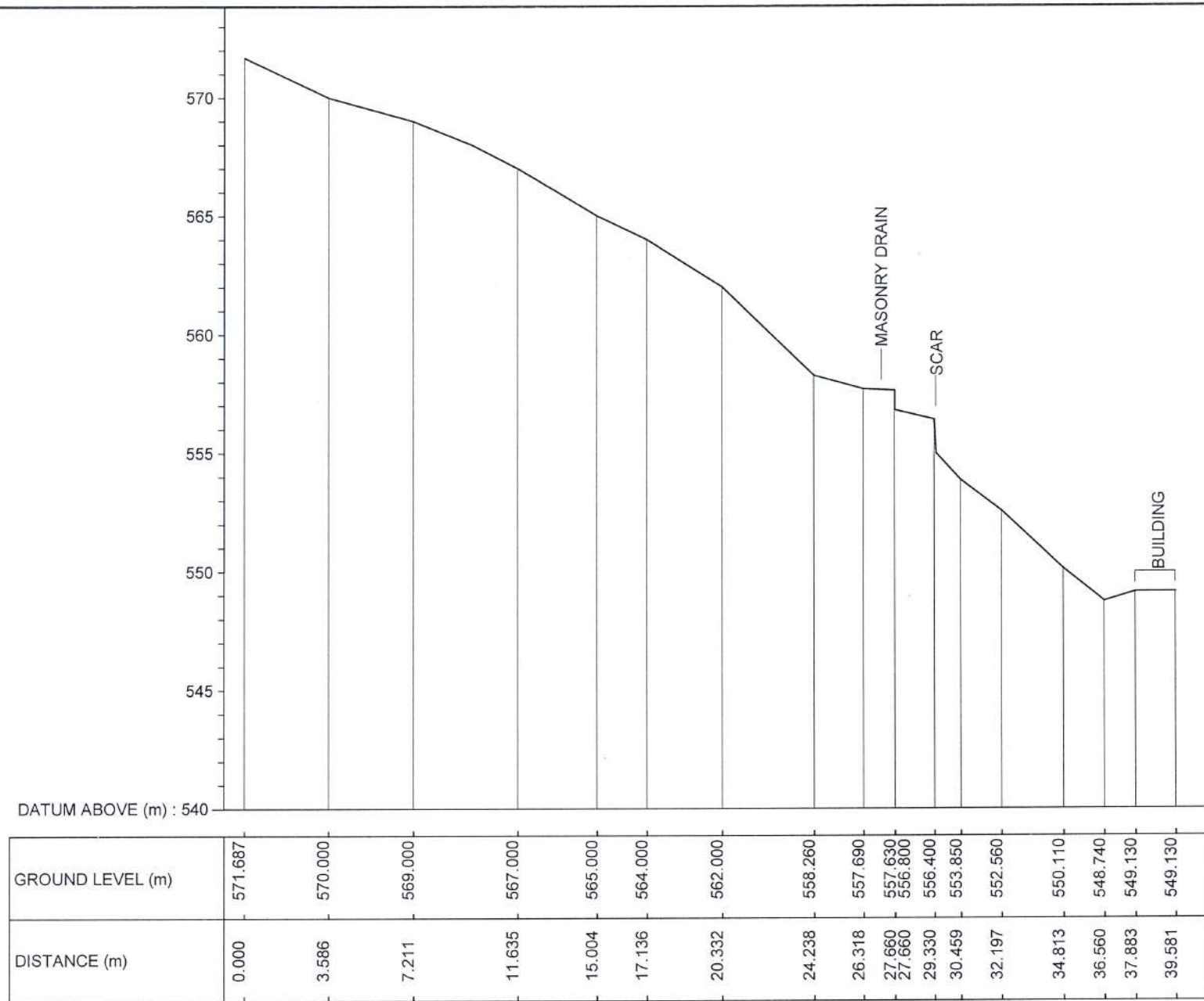
W.L.P.N.N. WIJESINGHE

For

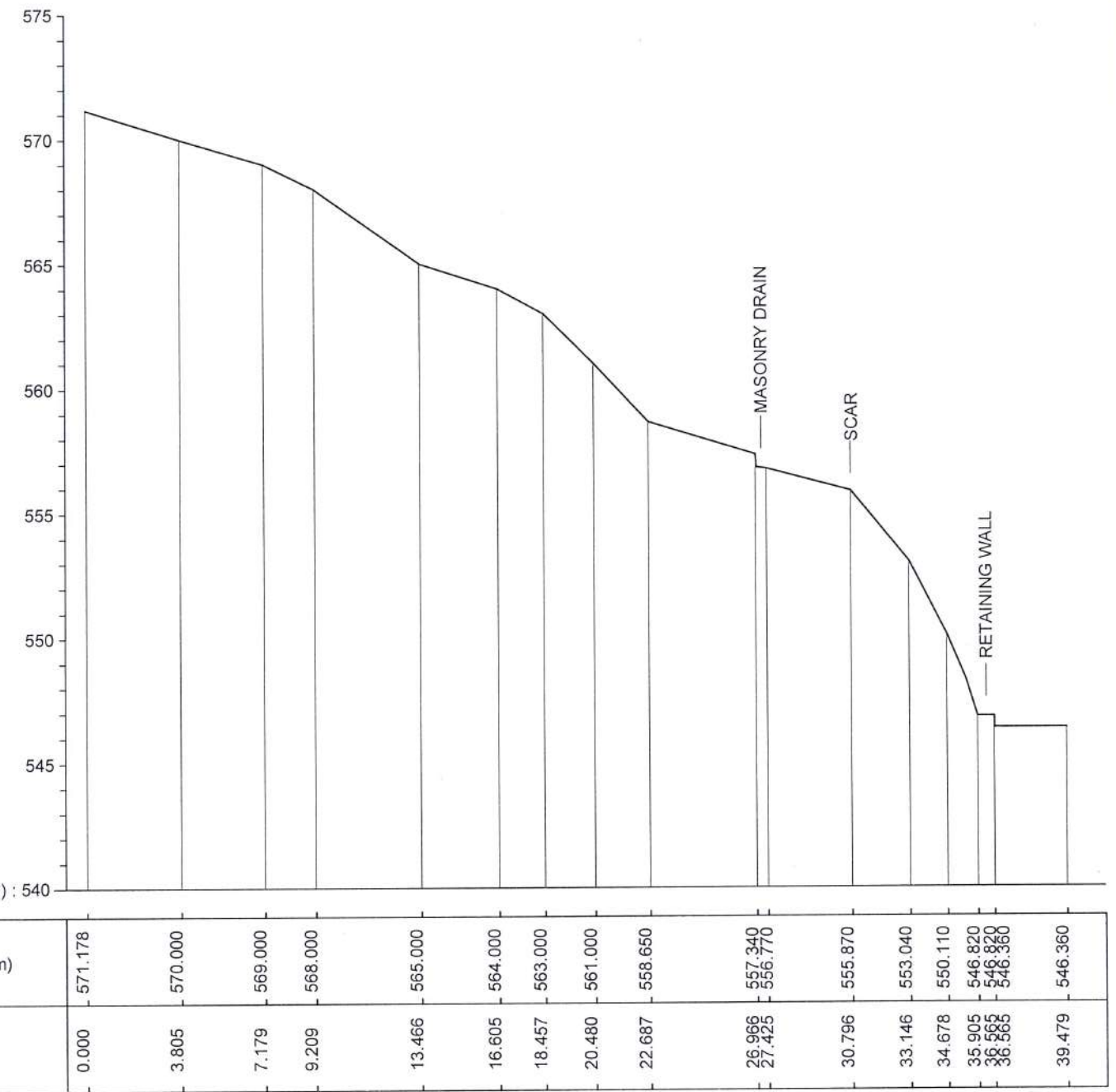
CHECKED

R.J.K.P.N. RANATHUNGA

For

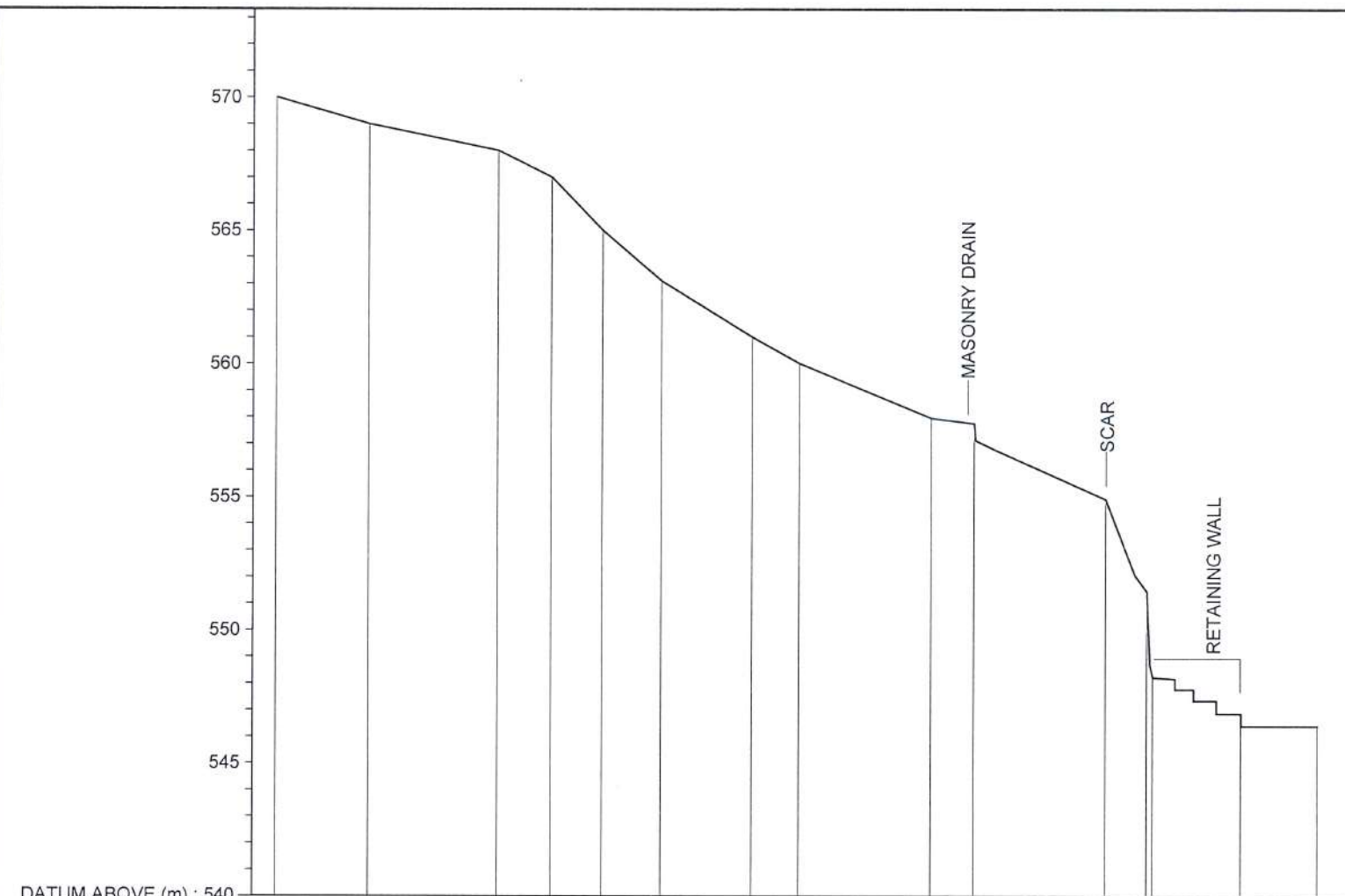


CS 1



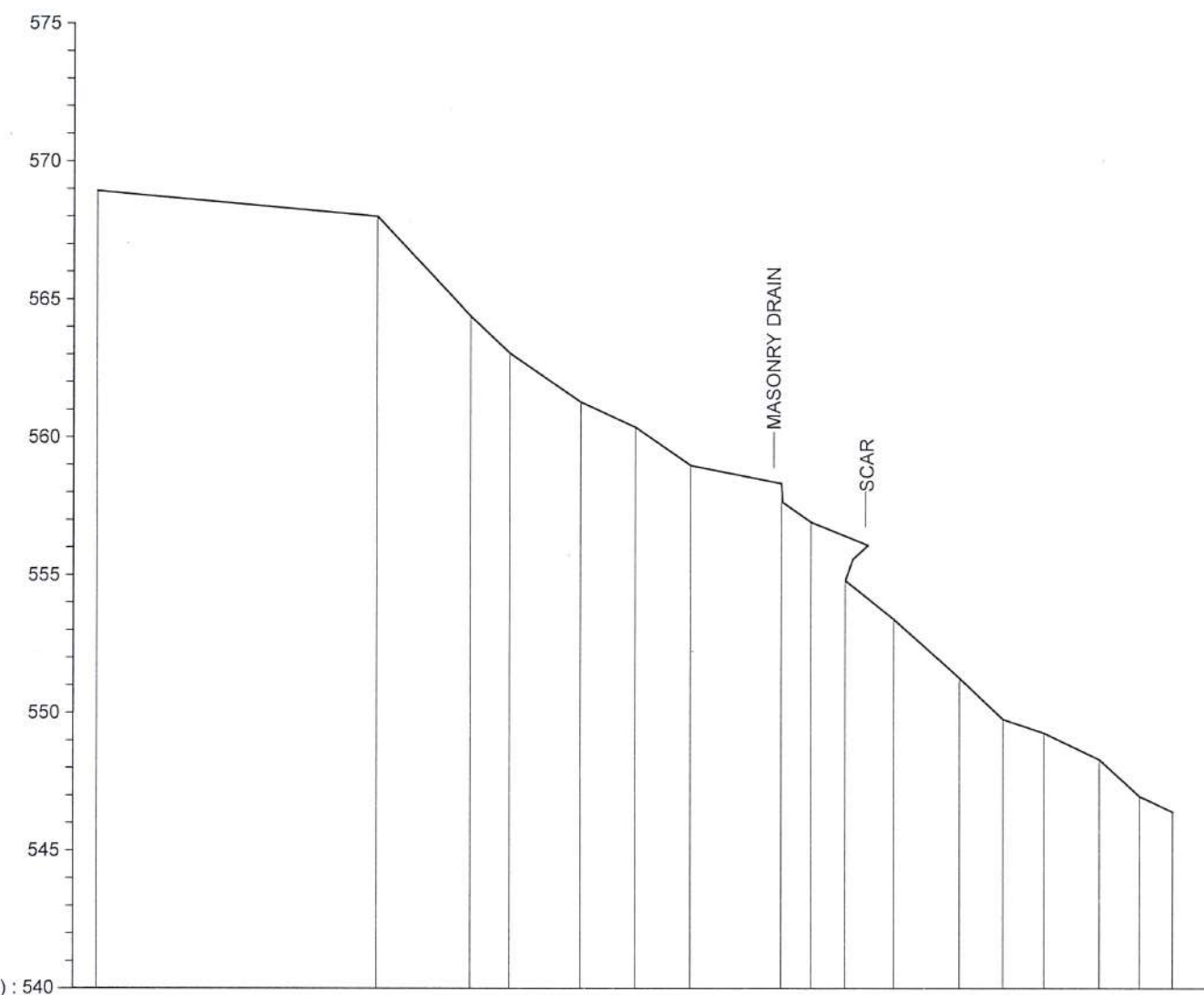
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EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ABOVE THE SWIMMING POOL DHARMARAJA COLLEGE, KANDY LOCATION 4	TITLE EXISTING CROSS SECTIONS	DESCRIPTION	NAME	SIGNATURE	
								SURVEYED	W.L.P.N.N. WIJESINGHE	For	
								CHECKED	R.J.K.P.N. RANATHUNGA		
						SCALE 1:250	DATE 06.05.2026				
						PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH II/228/L4/DR 02a	REVISION 00				



GROUND LEVEL (m)	570.000	569.000	568.000	567.000	565.000	563.104	561.000	560.010	557.960	557.760	554.910	551.450	548.220	546.860	546.400
DISTANCE (m)	0.000	3.510	8.400	10.430	12.365	14.594	18.032	19.813	24.789	26.414	31.417	32.978	33.210	36.531	39.418

CS 3



GROUND LEVEL (m)	568.921	568.000	564.381	563.041	561.271	560.360	558.980	558.320	556.910	554.800	553.390	551.250	549.760	549.260	548.300	546.970	546.400
DISTANCE (m)	0.000	10.223	13.640	15.080	17.664	19.647	21.647	24.962	26.059	27.310	29.092	31.495	33.078	34.565	36.581	38.051	39.252

CS 4

EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ABOVE THE SWIMMING POOL DHARMARAJA COLLEGE, KANDY LOCATION 4	TITLE EXISTING CROSS SECTIONS	DESCRIPTION	NAME	SIGNATURE	
								SURVEYED	W.L.P.N.N. WIJESINGHE	For	
								CHECKED	R.J.K.P.N. RANATHUNGA		
		SCALE 1:250		DATE 06.05.2026							
		PROJECT / DRAWING No.		REVISION							
		RLVMP/WORKS/NCB/PH II/228/L4/DR 02b		00							



EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 	DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ABOVE THE SWIMMING POOL DHARMARAJA COLLEGE, KANDY LOCATION 4	TITLE EXISTING CROSS SECTIONS				DESCRIPTION	NAME	SIGNATURE			
										SCALE	1:250	DATE	06.05.2026			
							PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH II/228/L4/DR 02c			REVISION 00						

SITE NO. 242 - LOCATION 4
REFERENCE

MASONRY DRAIN	MDn
PERMANENT BUILDING	P
RETAINING WALL	RW
ROCK	
SCAR	
SECTIONS	
NET FENCE	NF
TREE	

N	E	Z	PN
532031.9	486097.6	546.378	GCP 05
532059.8	486068.6	546.499	CP 06

DESIGN NOTATION

	- DS (B) - E
	- DS (C) - B
	- DS (M) - B (WITH GRATING)
	- CHAIN LINK FENCE
	- SOIL NAILING AREA
	- CATCH PIT



NOTES

- UNSTABLE BOULDERS AND DEBRIS SHALL BE REMOVED AS PER THE INSTRUCTION OF THE ENGINEER.
- SURFACE DRAIN LOCATIONS (PATH) & LENGTHS MIGHT BE VARIED ACCORDING TO ACTUAL SITE CONDITION.
- PROPOSED DRAINS SHALL BE CONNECTED TO THE EXISTING DRAINS / LEADER WAYS TO PROPERLY DRAIN OUT THE WATER.
- LOCATION OF THE CATCH PITS MIGHT BE VARIED ACCORDING TO THE ACTUAL SITE CONDITION.
- LOCATION OF THE HORIZONTAL DRAINS MIGHT BE VARIED ACCORDING TO THE ACTUAL SITE CONDITION.

EMPLOYER

 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF DEFENCE
NATIONAL BUILDING RESEARCH INSTITUTE
No. 99/1, JAWATTA ROAD,
COLOMBO - 05

DESIGNER

 DESIGN UNIT
NATIONAL BUILDING RESEARCH INSTITUTE
No. 99/1, JAWATTA ROAD,
COLOMBO - 05

REV	DATE	REVISION DESCRIPTION	APPROVAL

PROJECT TITLE

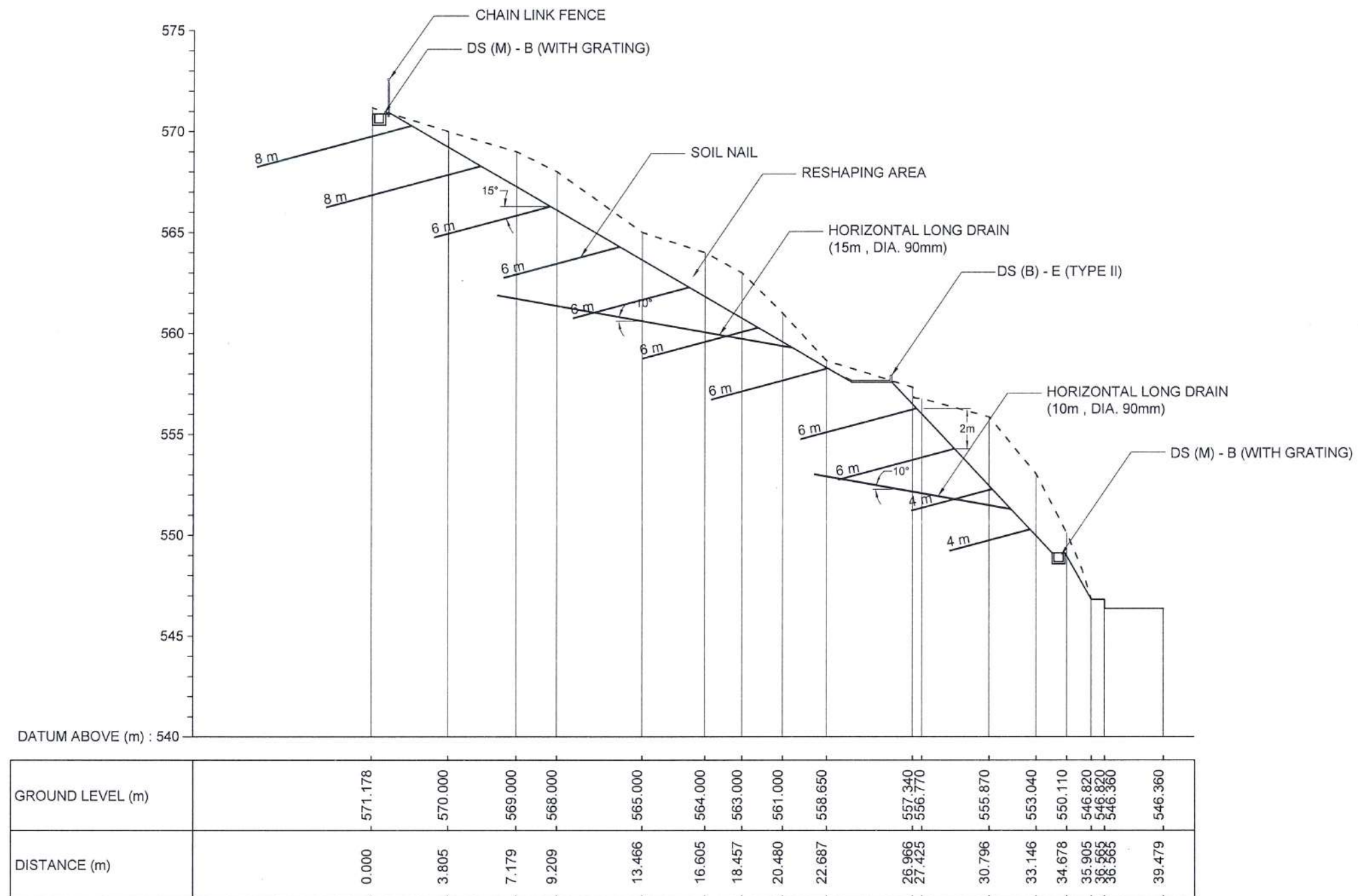
REDUCTION OF LANDSLIDE VULNERABILITY
BY MITIGATION MEASURES PROJECT
ABOVE THE SWIMMING POOL
DHARMARAJA COLLEGE, KANDY
LOCATION 4

TITLE

PLAN VIEW OF
PROPOSED MITIGATION MEASURES

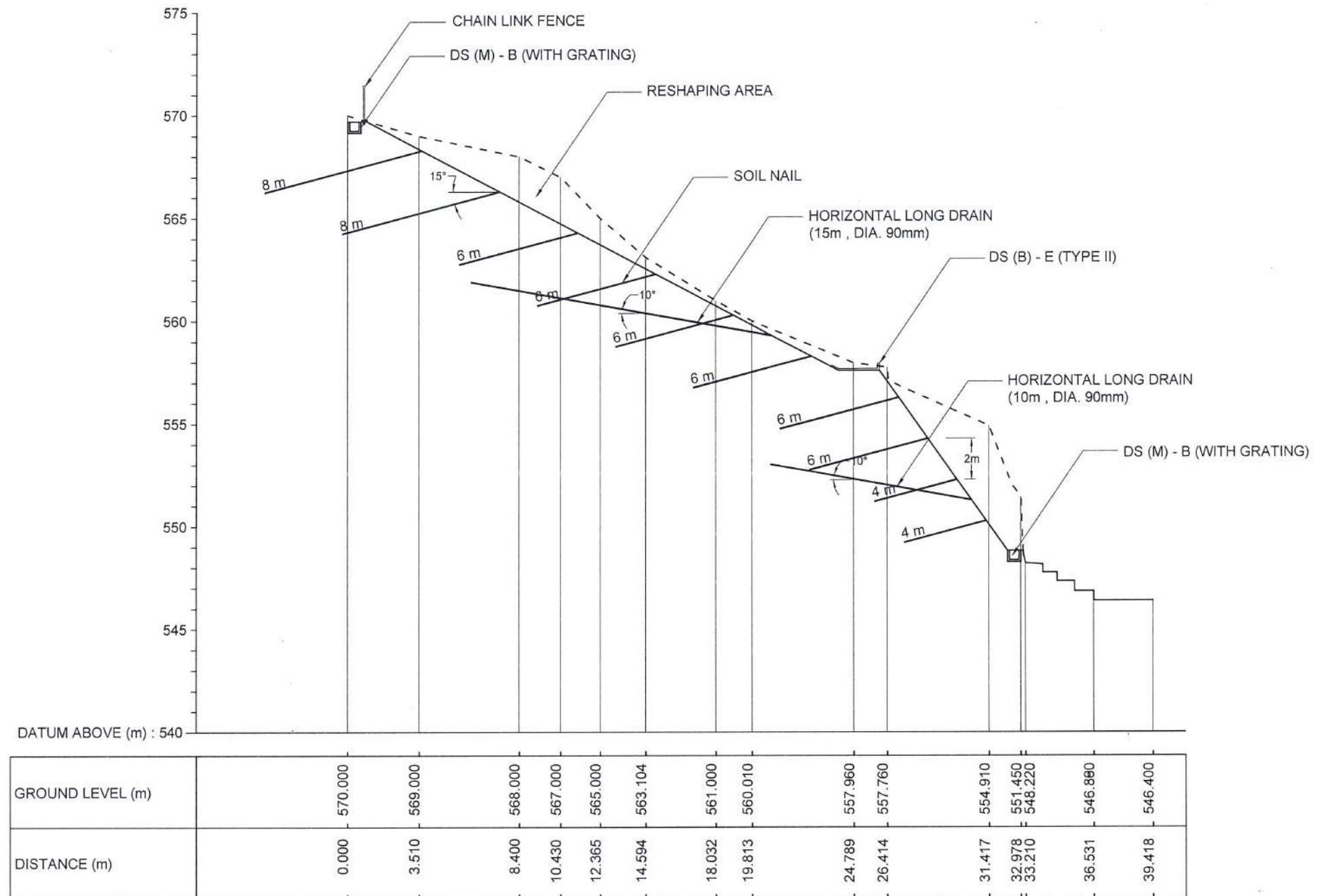
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PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH II/228/L4/DR 03 REVISION 00

DESCRIPTION	NAME	SIGNATURE
DRAWN	K.M.D. NISHANTHI	
DESIGNED	R.J.K.P.N. RANATHUNGA	
CHECKED	I.A.N.D. IDIRIMANNA	
RECOMMENDED	PROF. S.A.S. KULATHILAKA	
APPROVED	ENG. (DR.) SANCHITHA JAYAKODY	



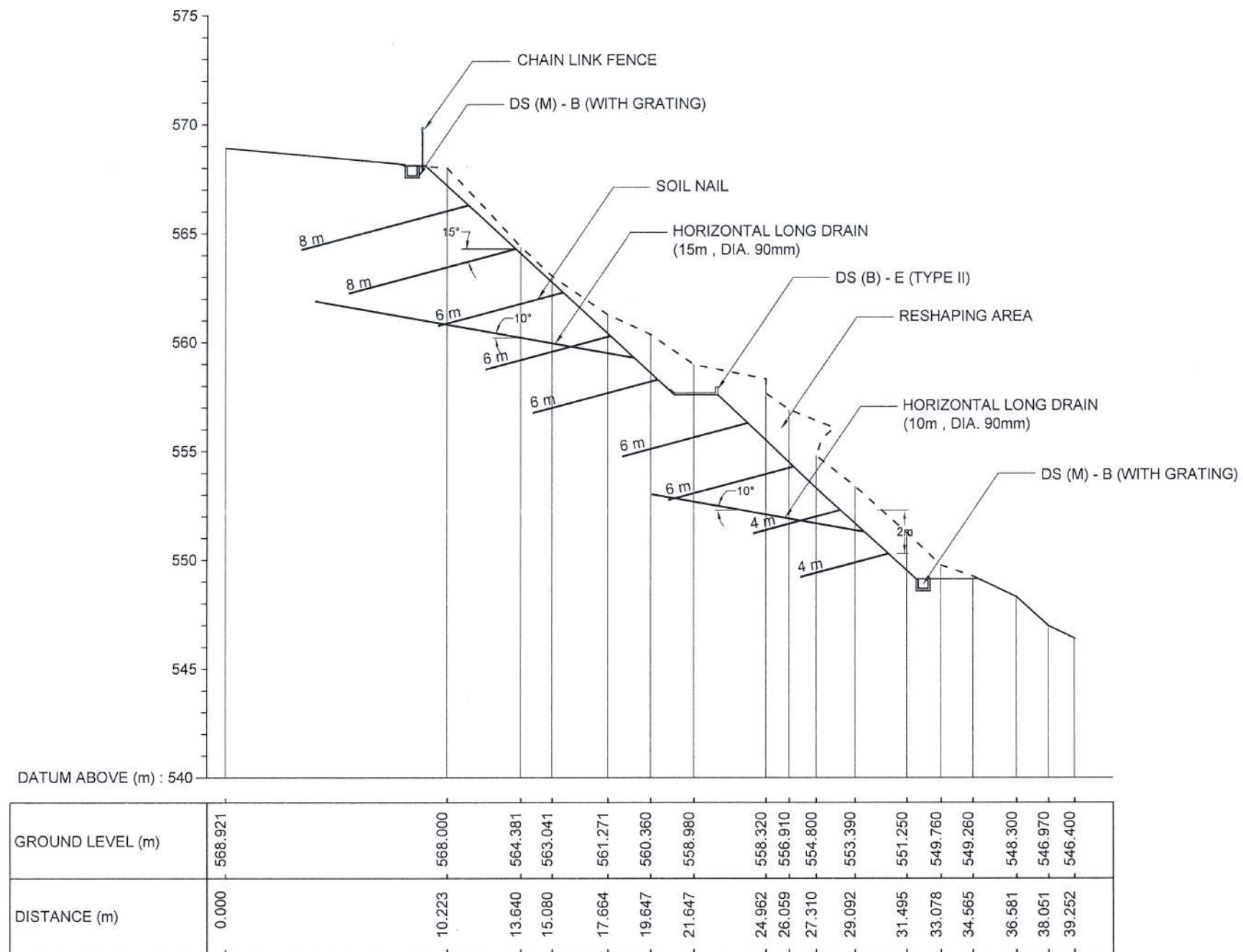
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EMPLOYER		DESIGNER		REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE	TITLE			DESCRIPTION	NAME	SIGNATURE		
 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 		 DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05							REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ABOVE THE SWIMMING POOL DHARMARAJA COLLEGE, KANDY LOCATION 4	CROSS SECTIONS OF PROPOSED MITIGATION MEASURES			DRAWN	K.M.D. NISHANTHI		
												DESIGNED	R.J.K.P.N. RANATHUNGA			
												CHECKED	I.A.N.D. IDIRIMANNA			
									SCALE 1:250			DATE	06.05.2026	RECOMMENDED	PROF. S.A.S. KULATHILAKA	
									PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH II/228/L4/DR 04b			REVISION 00		APPROVED	ENG. (DR.) SANCHITHA JAYAKODY	



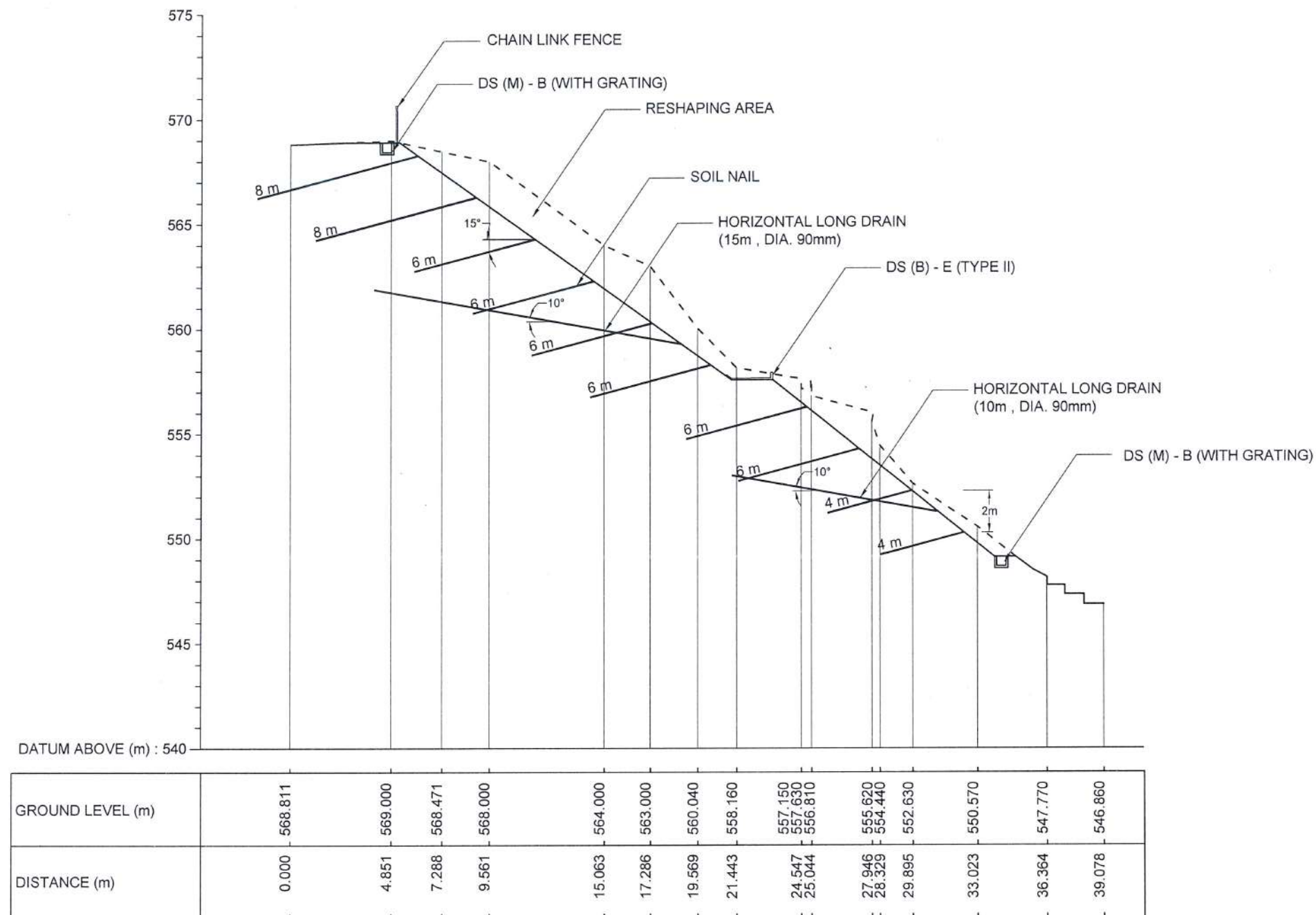
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EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 		DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 		REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ABOVE THE SWIMMING POOL DHARMARAJA COLLEGE, KANDY LOCATION 4	TITLE CROSS SECTIONS OF PROPOSED MITIGATION MEASURES		DESCRIPTION	NAME	SIGNATURE
									DRAWN	K.M.D. NISHANTHI			
									DESIGNED	R.J.K.P.N. RANATHUNGA			
									CHECKED	I.A.N.D. IDIRIMANNA			
									RECOMMENDED	PROF. S.A.S. KULATHILAKA			
									APPROVED	ENG. (DR.) SANCHITHA JAYAKODY			
		SCALE 1:250		DATE 06.05.2026		PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH II/228/L4/DR 04c		REVISION 00					



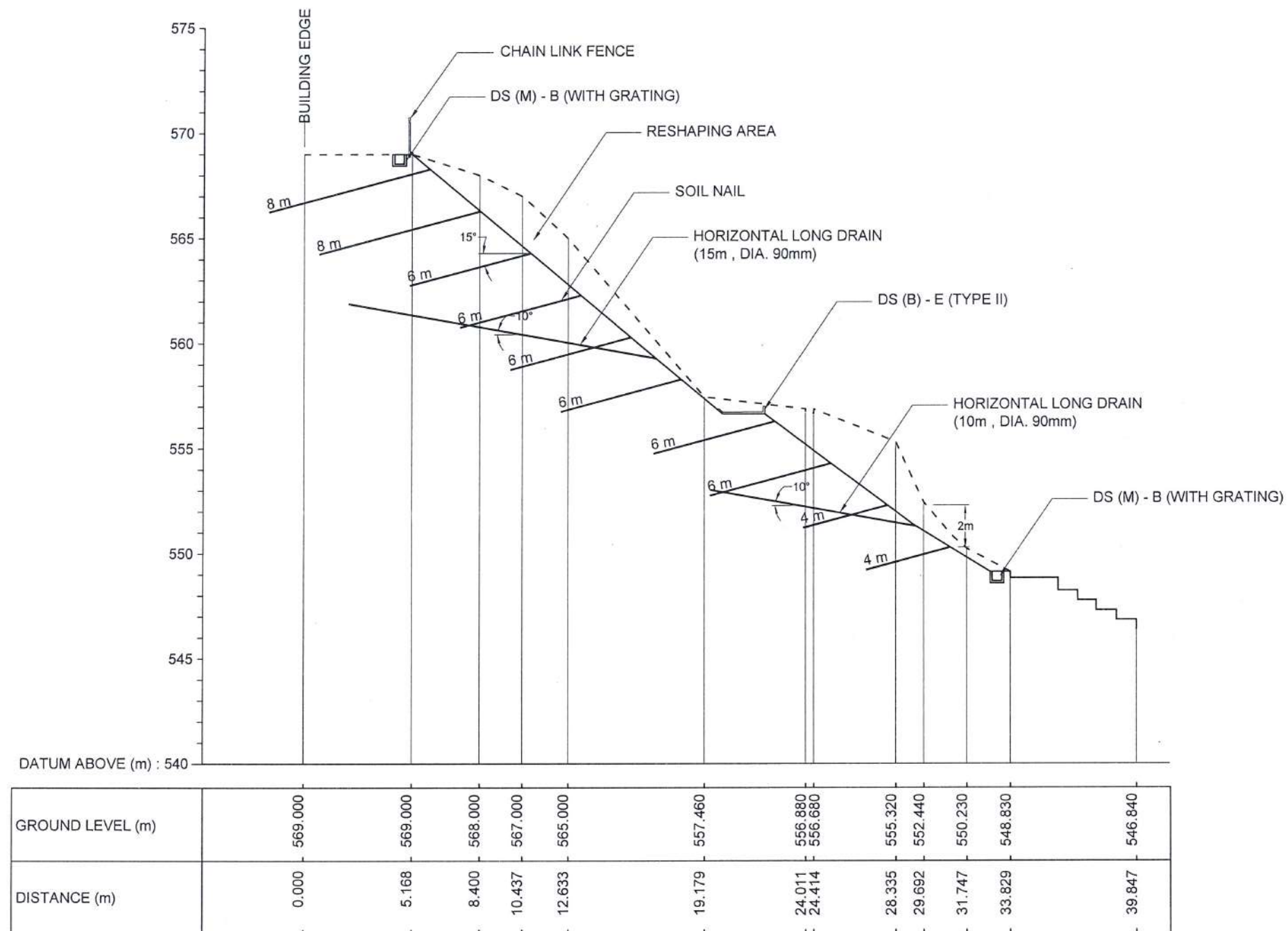
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EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 	DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ABOVE THE SWIMMING POOL DHARMARAJA COLLEGE, KANDY LOCATION 4	TITLE CROSS SECTIONS OF PROPOSED MITIGATION MEASURES			DESCRIPTION	NAME	SIGNATURE		
										DRAWN	K.M.D. NISHANTHI			
										DESIGNED	R.J.K.P.N. RANATHUNGA			
										CHECKED	I.A.N.D. IDIRIMANNA			
							RECOMMENDED	PROF. S.A.S. KULATHILAKA						
							APPROVED	ENG. (DR.) SANCHITHA JAYAKODY						
		SCALE 1:250			DATE 06.05.2026									
		PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH 11/228/L4/DR 04d			REVISION 00									



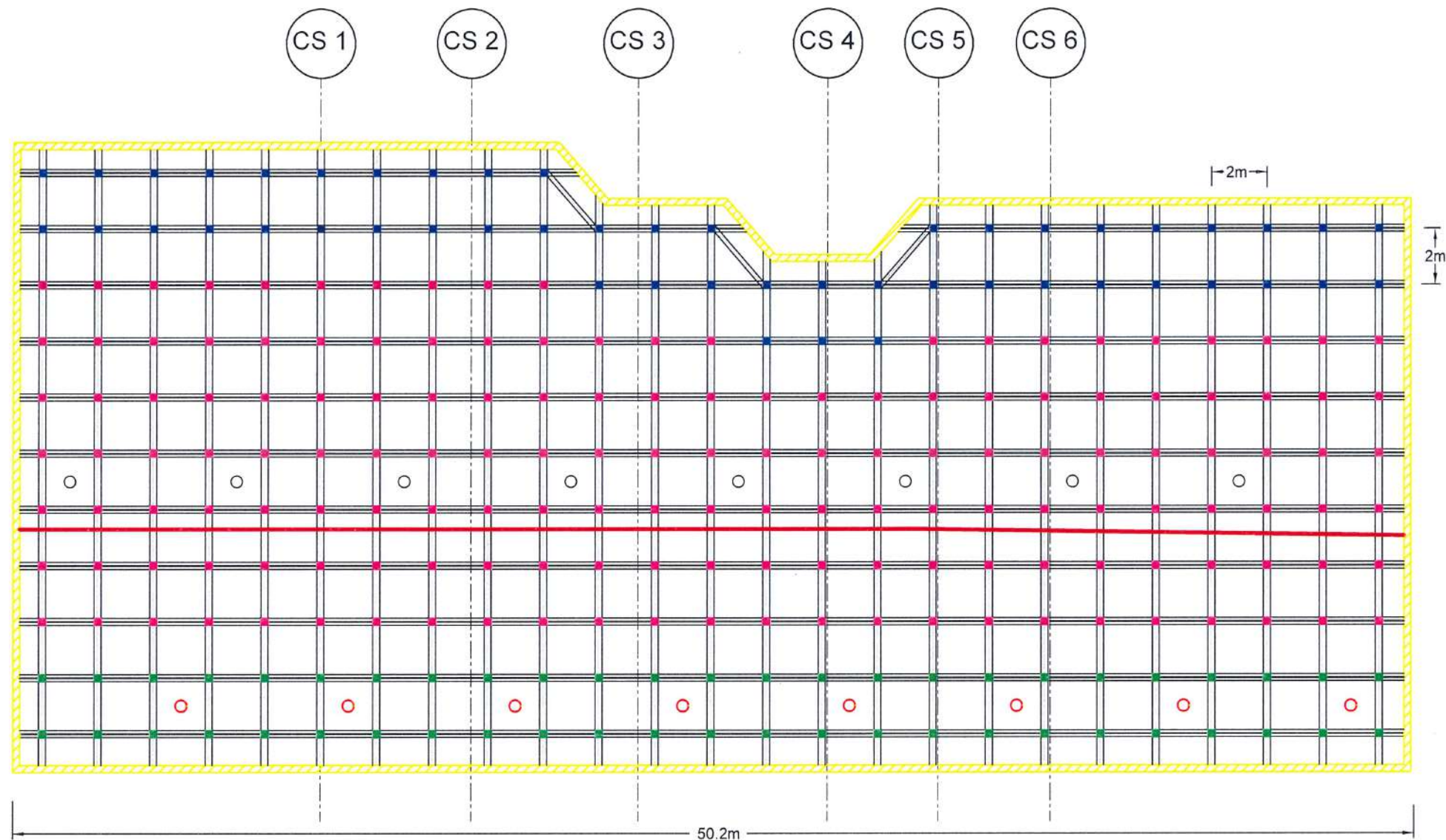
CS 5

EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ABOVE THE SWIMMING POOL DHARMARAJA COLLEGE, KANDY LOCATION 4	TITLE CROSS SECTIONS OF PROPOSED MITIGATION MEASURES	DESCRIPTION	NAME	SIGNATURE
								DRAWN	K.M.D. NISHANTHI	
								DESIGNED	R.J.K.P.N. RANATHUNGA	
								CHECKED	I.A.N.D. IDIRIMANNA	
								RECOMMENDED	PROF. S.A.S. KULATHILAKA	
								APPROVED	ENG. (DR.) SANCHITHA JAYAKODY	



CS 6

EMPLOYER		DESIGNER		REV		DATE		REVISION DESCRIPTION		APPROVAL		PROJECT TITLE		TITLE				DESCRIPTION		NAME		SIGNATURE					
 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 		 DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05										REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ABOVE THE SWIMMING POOL DHARMARAJA COLLEGE, KANDY LOCATION 4		CROSS SECTIONS OF PROPOSED MITIGATION MEASURES				DRAWN		K.M.D. NISHANTHI							
																		DESIGNED		R.J.K.P.N. RANATHUNGA							
																		CHECKED		I.A.N.D. IDIRIMANNA							
														SCALE 1:250				DATE		06.05.2026		RECOMMENDED		PROF. S.A.S. KULATHILAKA			
														PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH II/228/L4/DR 04f				REVISION		00		APPROVED		ENG. (DR.) SANCHITHA JAYAKODY			



FRONT ELEVATION OF SOIL NAILING AREA

LEGEND



SOIL NAILING

- TOTAL SOIL NAIL LENGTH = 4m
- NO OF SOIL NAIL = 50
- REINFORCEMENT DIAMETER = 32 mm
- DIAMETER OF DRILLED HOLE = 125mm
- NAIL SPACING = 2m



SOIL NAILING

- TOTAL SOIL NAIL LENGTH = 8m
- NO OF SOIL NAIL = 50
- REINFORCEMENT DIAMETER = 32 mm
- DIAMETER OF DRILLED HOLE = 125mm
- NAIL SPACING = 2m



SOIL NAILING

- TOTAL SOIL NAIL LENGTH = 6m
- NO OF SOIL NAIL = 157
- REINFORCEMENT DIAMETER = 32 mm
- DIAMETER OF DRILLED HOLE = 125mm
- NAIL SPACING = 2m



HORIZONTAL LONG DRAIN

- HORIZONTAL LONG DRAIN LENGTH = 15 m
- NO'S OF LONG DRAIN = 08
- DIAMETER = 90 mm
- SPACING = 06 m



HORIZONTAL LONG DRAIN

- HORIZONTAL LONG DRAIN LENGTH = 10 m
- NO'S OF LONG DRAIN = 08
- DIAMETER = 90 mm
- SPACING = 06 m

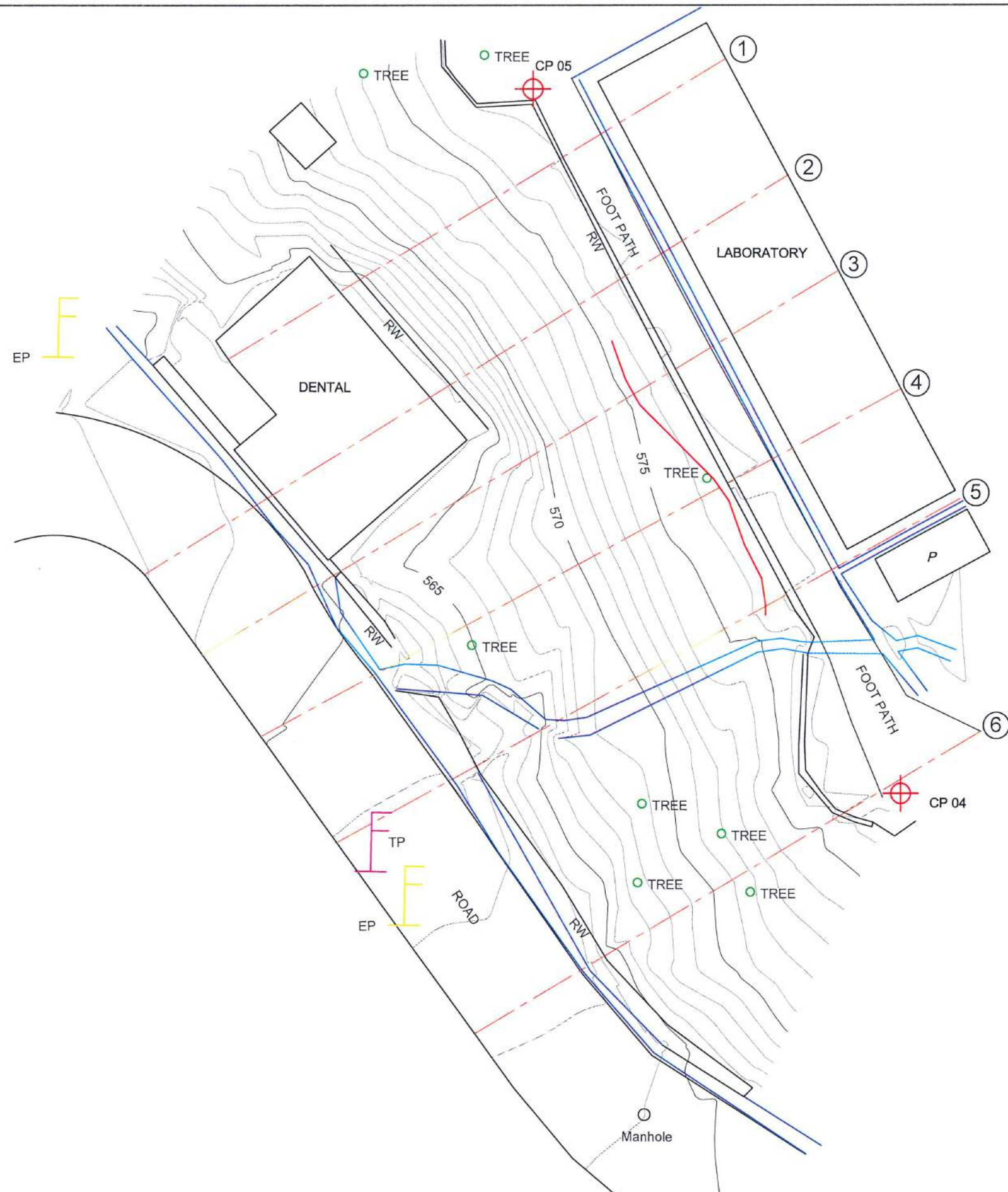


DS (B) - D



BOUNDARY BEAM

EMPLOYER		DESIGNER		REV		DATE		REVISION DESCRIPTION		APPROVAL		PROJECT TITLE		TITLE		DESCRIPTION		NAME		SIGNATURE	
 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 		 DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05										REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT ABOVE THE SWIMMING POOL DHARMARAJA COLLEGE, KANDY LOCATION 4		FRONT ELEVATION OF PROPOSED MITIGATION MEASURES		DRAWN		K.M.D. NISHANTHI			
																DESIGNED		R.J.K.P.N. RANATHUNGA			
																CHECKED		I.A.N.D. IDIRIMANNA			
														SCALE 1:200		DATE		06.05.2026			
														PROJECT / DRAWING No. RLVMMPP/WORKS/NCB/PH II/228/L4/DR 05		REVISION 00		RECOMMENDED		PROF. S.A.S. KULATHILAKA	
																APPROVED		ENG. (DR.) SANCHITHA JAYAKODY			



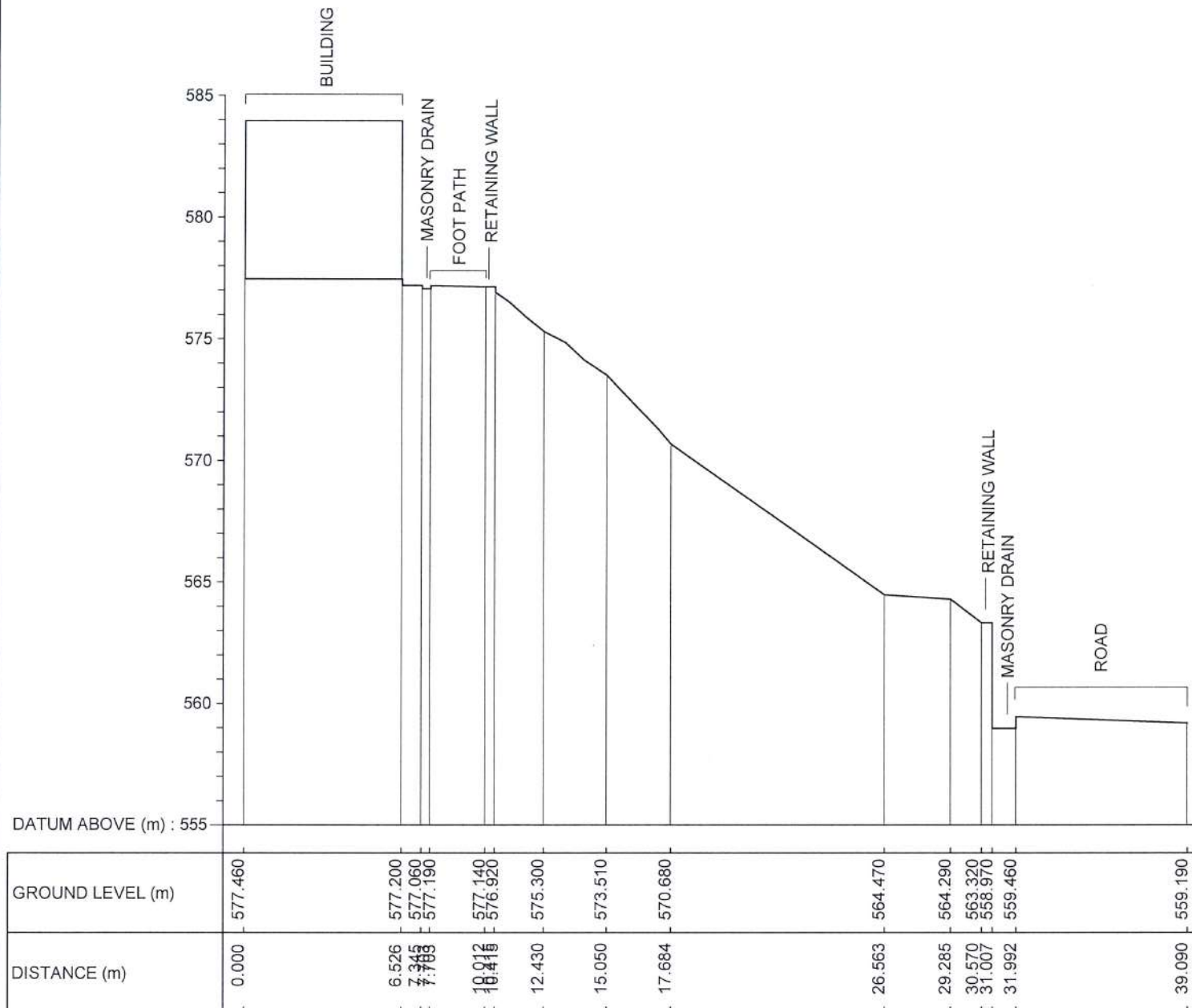
REFERENCE

- ELECTRIC POST EP
- CRACK LINE CL
- MASONRY DRAIN MDn
- RETAINING WALL RW
- SCAR
- SECTIONS
- TELEPHONE POST TP
- TREE
- REFERENCE POINTS

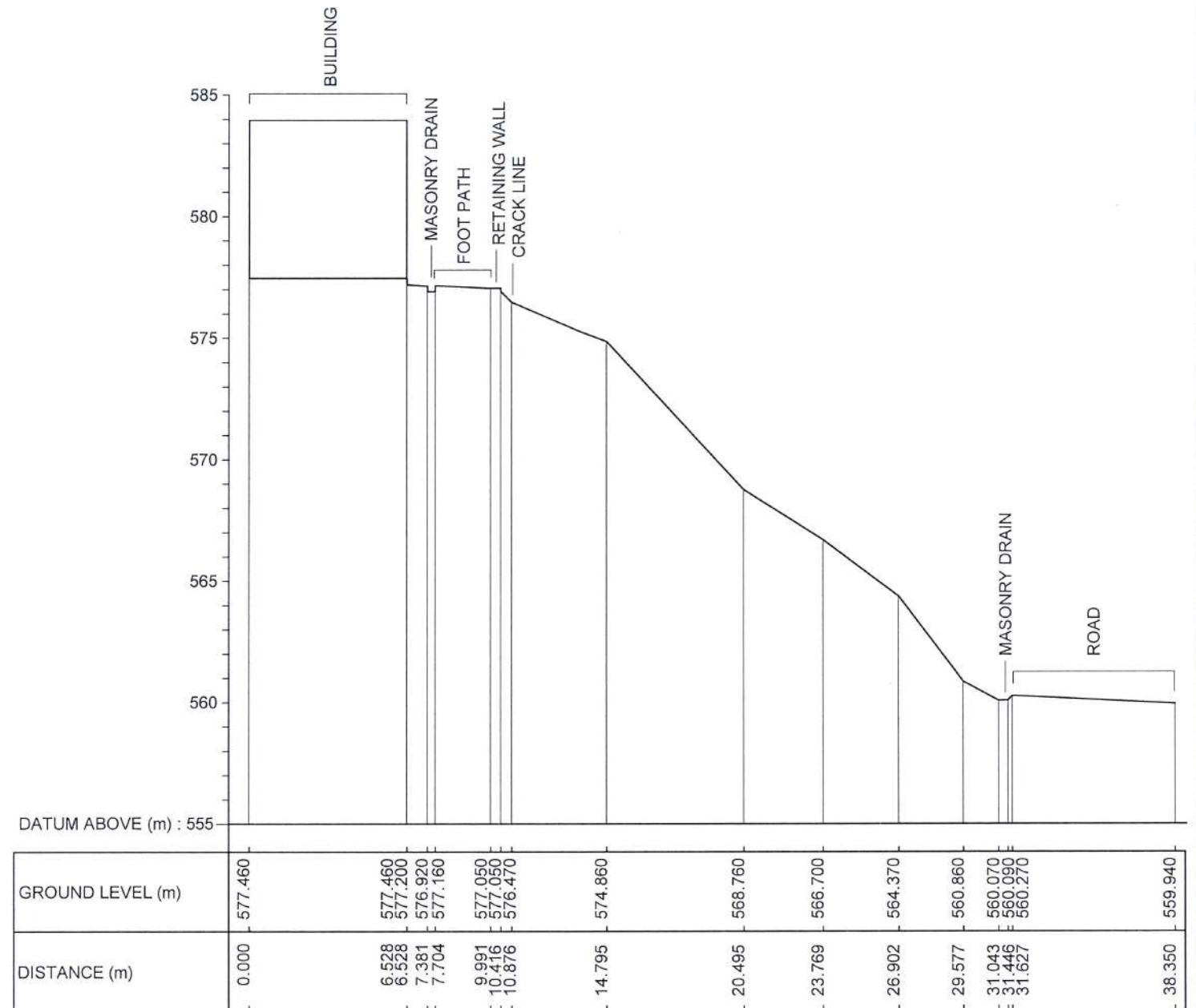
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EMPLOYER		DESIGNER		REV		DATE		REVISION DESCRIPTION		APPROVAL		PROJECT TITLE		TITLE		DESCRIPTION		NAME		SIGNATURE	
 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05		 DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05										REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT NEAR DENTAL BUILDING DHARMARAJA COLLEGE KANDY LOCATION 5		SURVEY PLAN		SURVEYED		W.L.P.N.N. WIJESINGHE			
																CHECKED		R.J.K.P.N. RANATHUNGA			
														SCALE 1:250		DATE		23.03.2026			
														PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/L5/DR 01		REVISION 00					

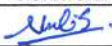


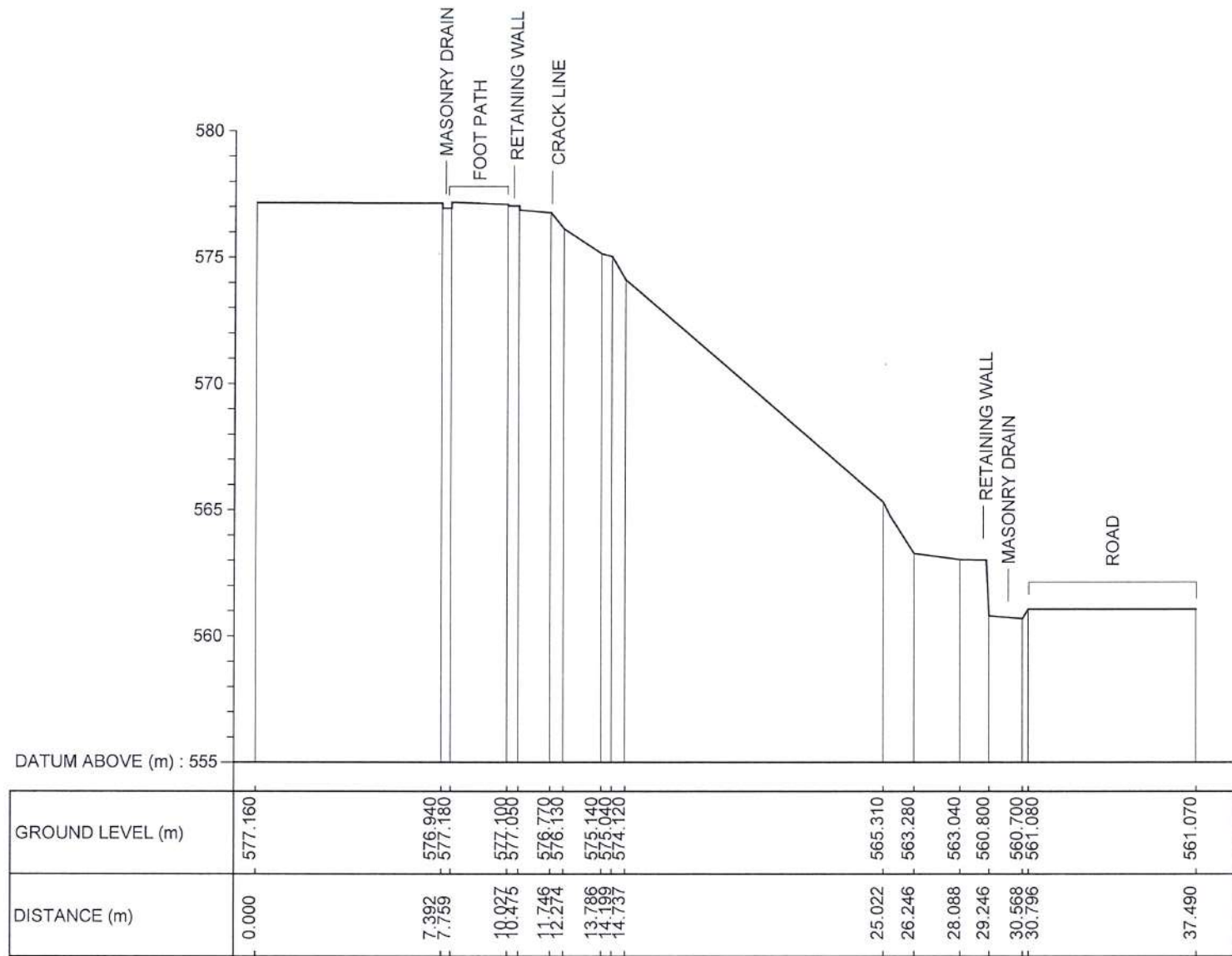


SECTION 03

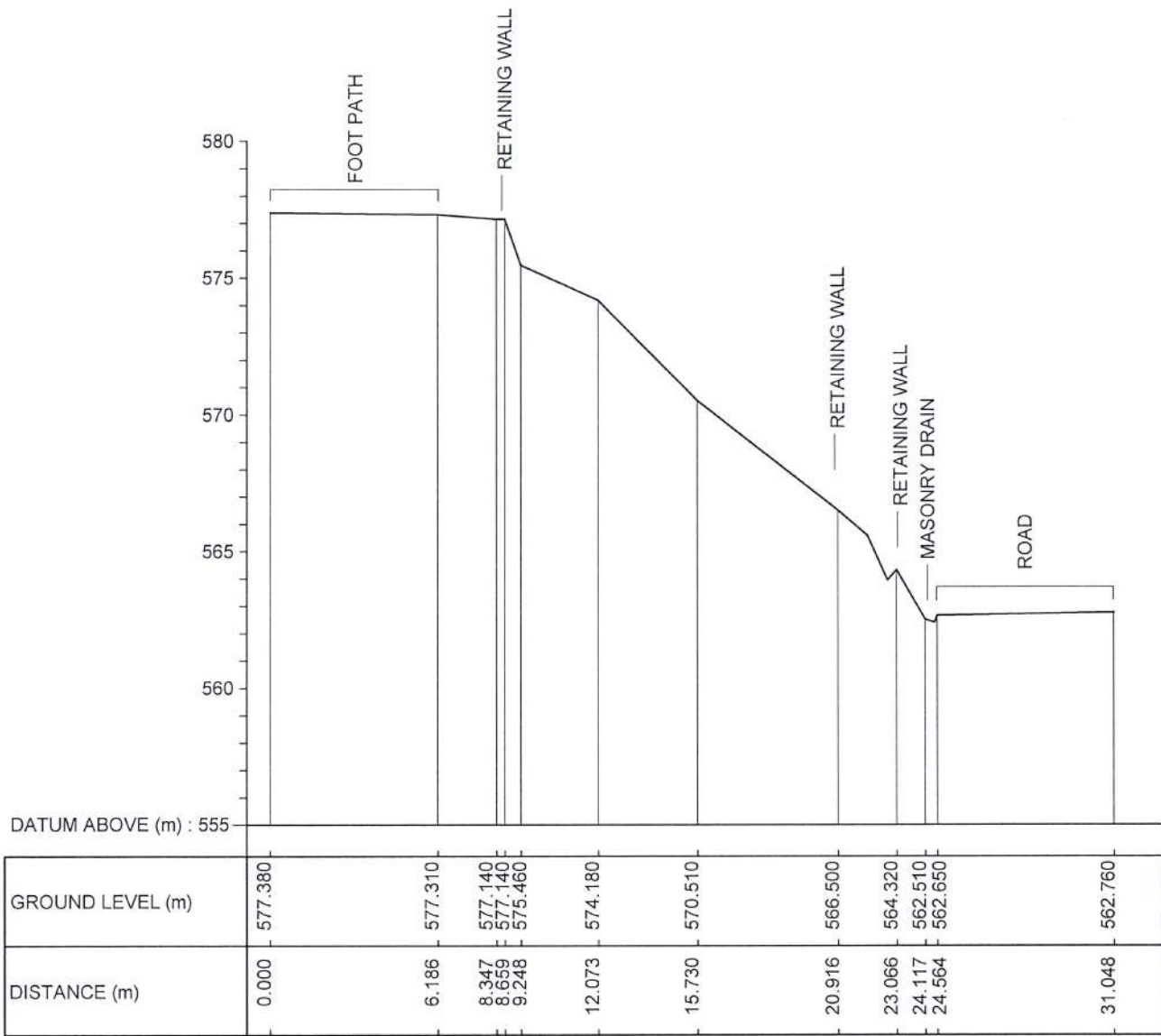


SECTION 04

 EMPLOYER DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	 DESIGNER DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT NEAR DENTAL BUILDING DHARMARAJA COLLEGE KANDY LOCATION 5	TITLE EXISTING CROSS SECTION	DESCRIPTION	NAME	SIGNATURE
								DRAWN	W.L.P.N.N. WIJESINGHE	
								CHECKED	R.J.K.P.N. RANATHUNGA	
								SCALE 1:250	DATE 23.03.2026	
								PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/L5/DR 02b	REVISION 00	



SECTION 05



SECTION 06

 EMPLOYER DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	 DESIGNER DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT NEAR DENTAL BUILDING DHARMARAJA COLLEGE KANDY LOCATION 5	TITLE EXISTING CROSS SECTION	DESCRIPTION	NAME	SIGNATURE
								DRAWN	W.L.P.N.N. WIJESINGHE	
								CHECKED	R.J.K.P.N. RANATHUNGA	
								SCALE 1:250	DATE 23.03.2026	
								PROJECT / DRAWING No. RLVMMMP/WORKS/NCB/PH III/228/L5/DR 02c	REVISION 00	



REFERENCE

- ELECTRIC POST EP
- CRACK LINE CL
- MASONRY DRAIN MDn
- RETAINING WALL RW
- SCAR
- SECTIONS
- TELEPHONE POST TP
- TREE
- REFERENCE POINTS

N	E	Z	PN
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531953	486170.2	577.33	GCP04

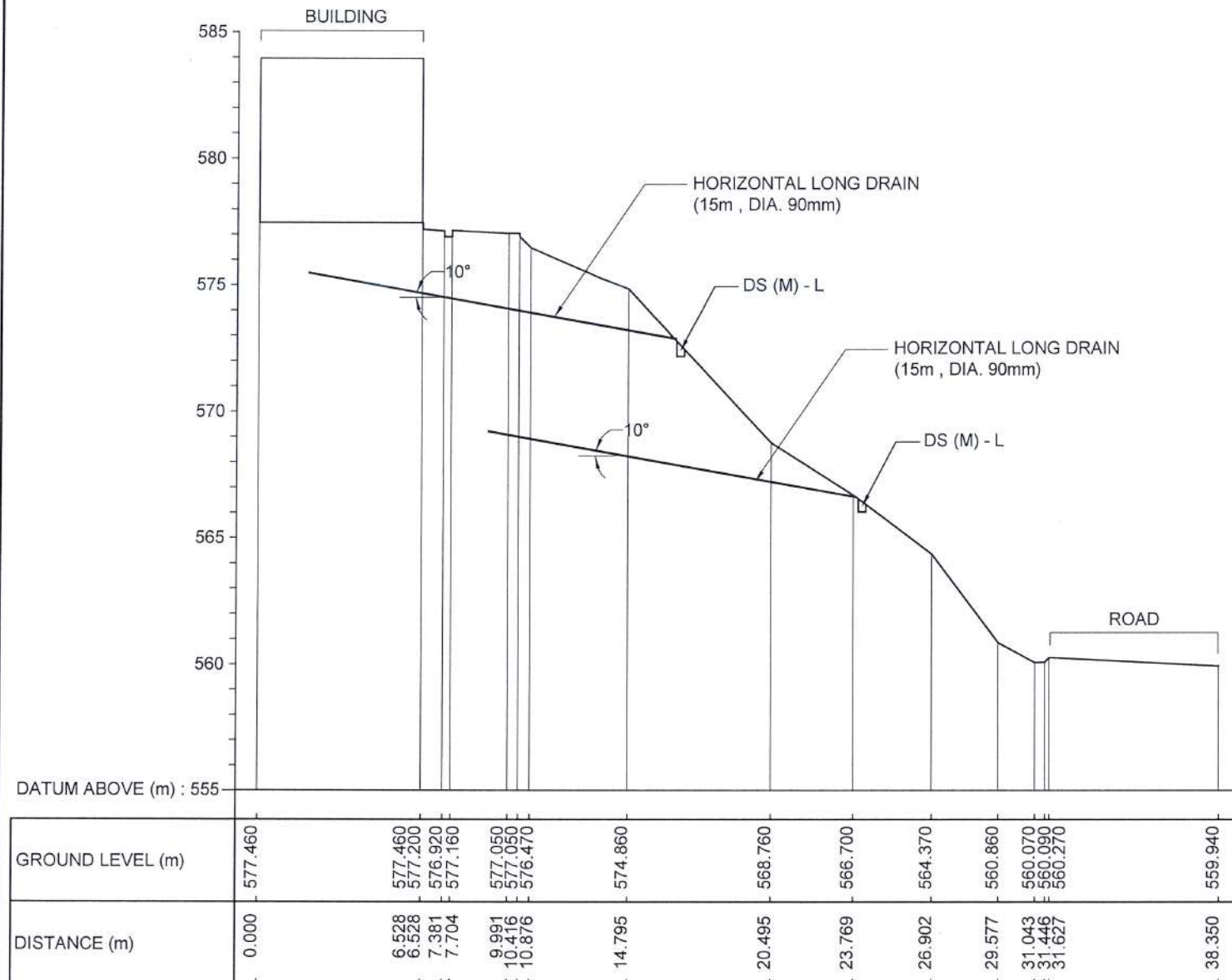
DESIGN NOTATION

- DS (M) - L
- HORIZONTAL LONG DRAIN 6m INTERVALS
- CATCH PIT

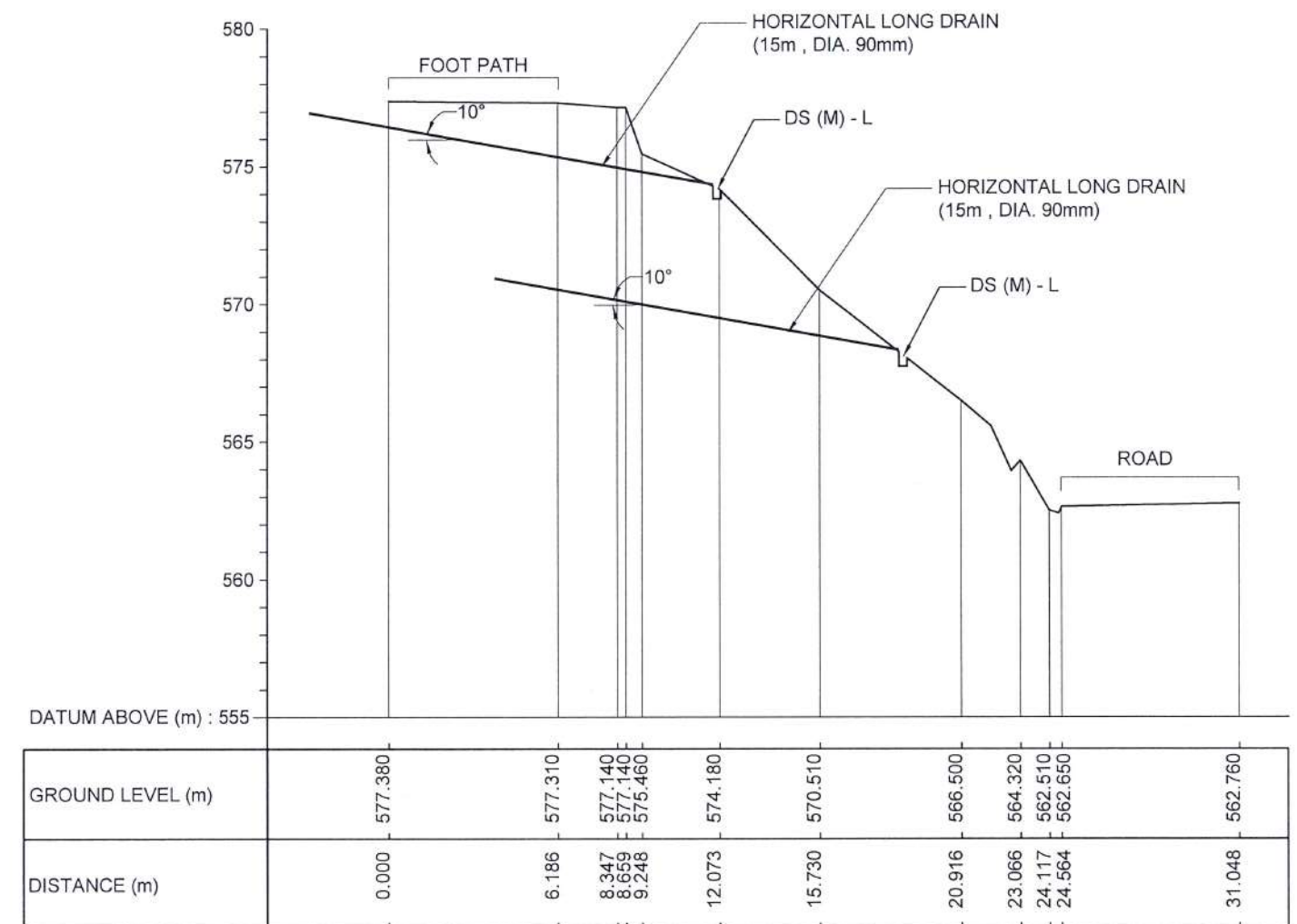
NOTES

- UNSTABLE BOULDERS AND DEBRIS SHALL BE REMOVED AS PER THE INSTRUCTION OF THE ENGINEER.
- LOCATIONS & LENGTHS OF HORIZONTAL DRAINS MIGHT BE VARIED ACCORDING TO ACTUAL SITE CONDITION
- SURFACE DRAIN LOCATIONS (PATH) & LENGTHS MIGHT BE VARIED ACCORDING TO ACTUAL SITE CONDITION.
- PROPOSED DRAINS SHALL BE CONNECTED TO THE EXISTING DRAINS / LEADER WAYS TO PROPERLY DRAIN OUT THE WATER.
- LOCATION OF THE CATCH PITS MIGHT BE VARIED ACCORDING TO THE ACTUAL SITE CONDITION.

EMPLOYER	DESIGNER	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE	TITLE	DESCRIPTION	NAME	SIGNATURE
 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	 DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05					REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT NEAR DENTAL BUILDING DHARMARAJA COLLEGE KANDY LOCATION 5	PLAN VIEW OF PROPOSED MITIGATION MEASURES	DRAWN	K. M. D. NISHANTHI	
								DESIGNED	R.J.K.P.N. RANATHUNGA	
								CHECKED	I.A.N.D. IDIRIMANNA	
								RECOMMENDED	PROF. S. A. S. KULATHILAKA	
								APPROVED	DR. S.H.S. JAYAKODY	
							SCALE 1:250 PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/L5/DR 03	DATE 23.03.2026 REVISION 00		



SECTION 04

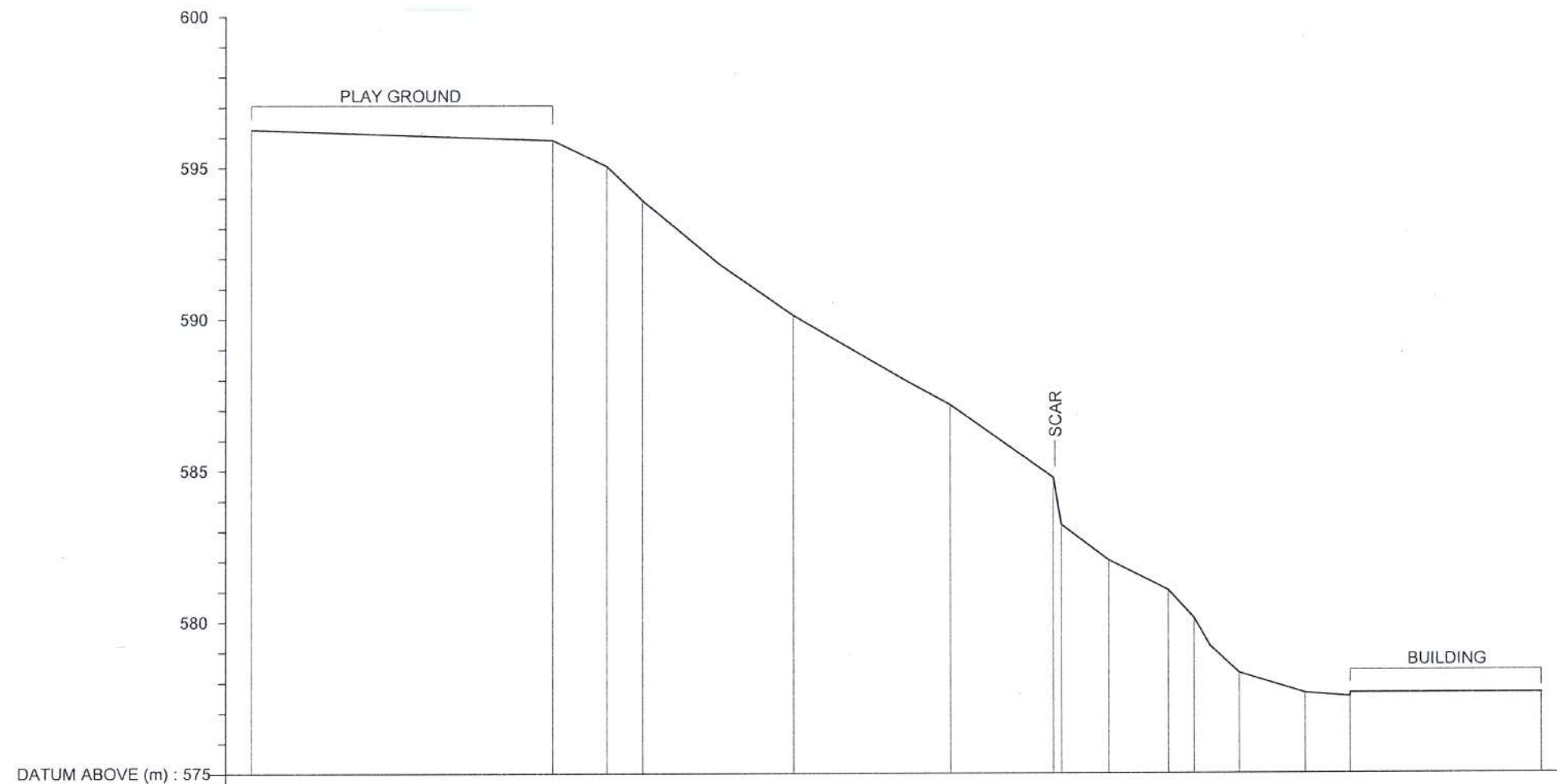


SECTION 06

EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT NEAR DENTAL BUILDING DHARMARAJA COLLEGE KANDY LOCATION 5	TITLE CROSS SECTIONS OF PROPOSED MITIGATION MEASURES		DESCRIPTION	NAME	SIGNATURE
									DRAWN	K. M. D. NISHANTHI	
									DESIGNED	R. J. K. P. N. RANATHUNGA	
									CHECKED	I. A. N. D. IDIRIMANNA	
									RECOMMENDED	PROF. S. A. S. KULATHILAKA	
									APPROVED	DR. S. H. S. JAYAKODY	
							SCALE	1:250	DATE	23.03.2026	
							PROJECT / DRAWING No.		REVISION		
							RLVMMP/WORKS/NCB/PH III/228/L5/DR 04		00		

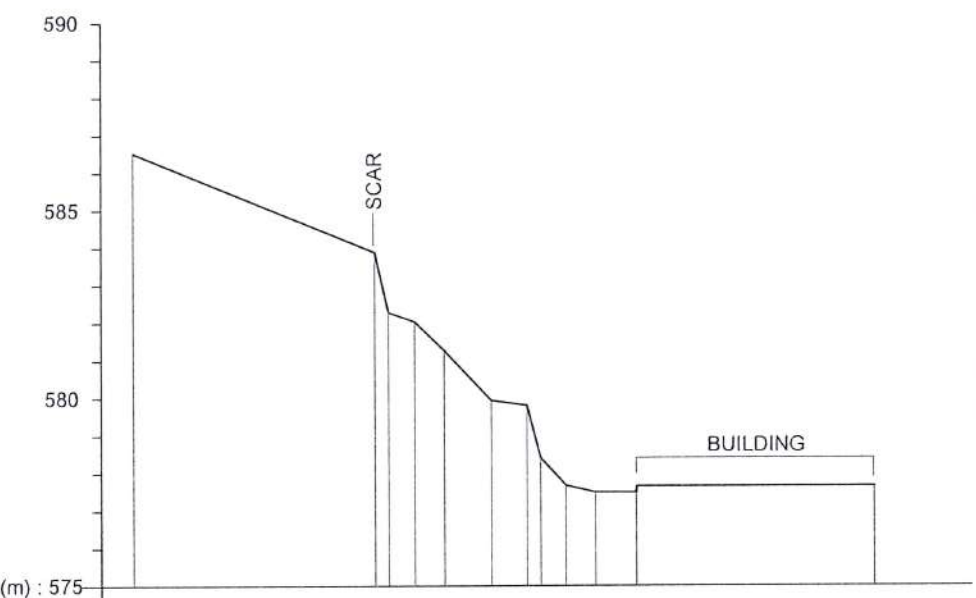


EMPLOYER		DESIGNER		REV		DATE		REVISION DESCRIPTION		APPROVAL		PROJECT TITLE		TITLE		DESCRIPTION		NAME		SIGNATURE	
 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05		 DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05										REDUCTION OF LANDSLIDE VULNERABILITY		SURVEY PLAN		SURVEYED		W.L.P.N.N. WIJESINGHE		For 	
												BY MITIGATION MEASURES PROJECT				CHECKED		R.J.K.P.N. RANATHUNGA			
												BEHIND THE SCIENCE CLASS ROOMS									
												DHARMARAJA COLLEGE, KANDY									
												LOCATION 6									
														SCALE 1:200		DATE		03.03.2026			
														PROJECT / DRAWING No.		REVISION					
														RLVMMP/WORKS/NCB/PH II/228/L6/DR 01							



GROUND LEVEL (m)	596.260		595.911	595.050	593.910	591.811	590.120	588.010	587.160	584.750	583.200	582.030	581.040	580.110	579.190	578.300	577.640	577.650		577.650
DISTANCE (m)	0.000		10.051	11.856	13.043	15.597	18.065	21.717	23.291	26.707	26.965	28.545	30.526	31.392	31.930	32.896	35.091	36.565		42.958

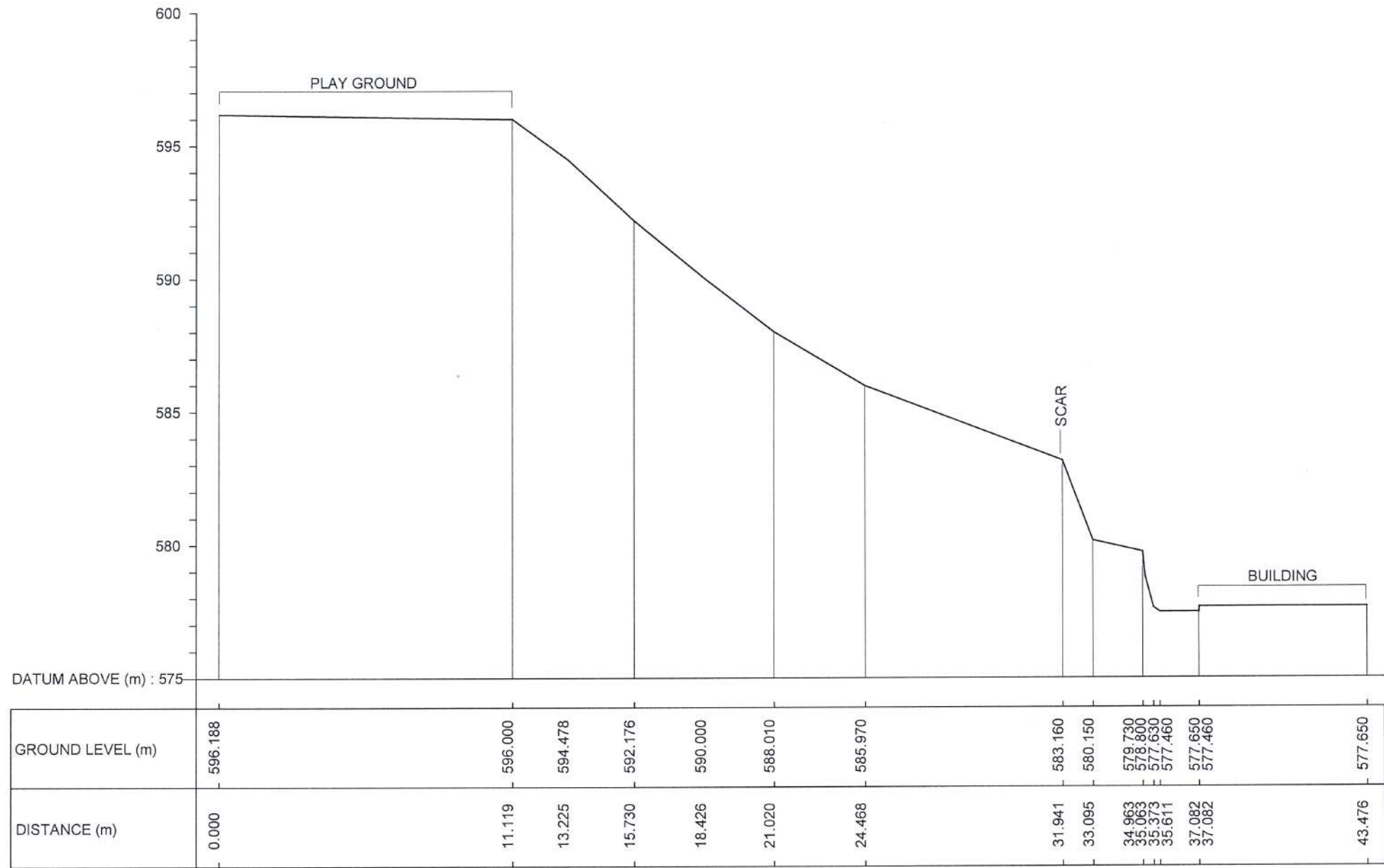
CS 01



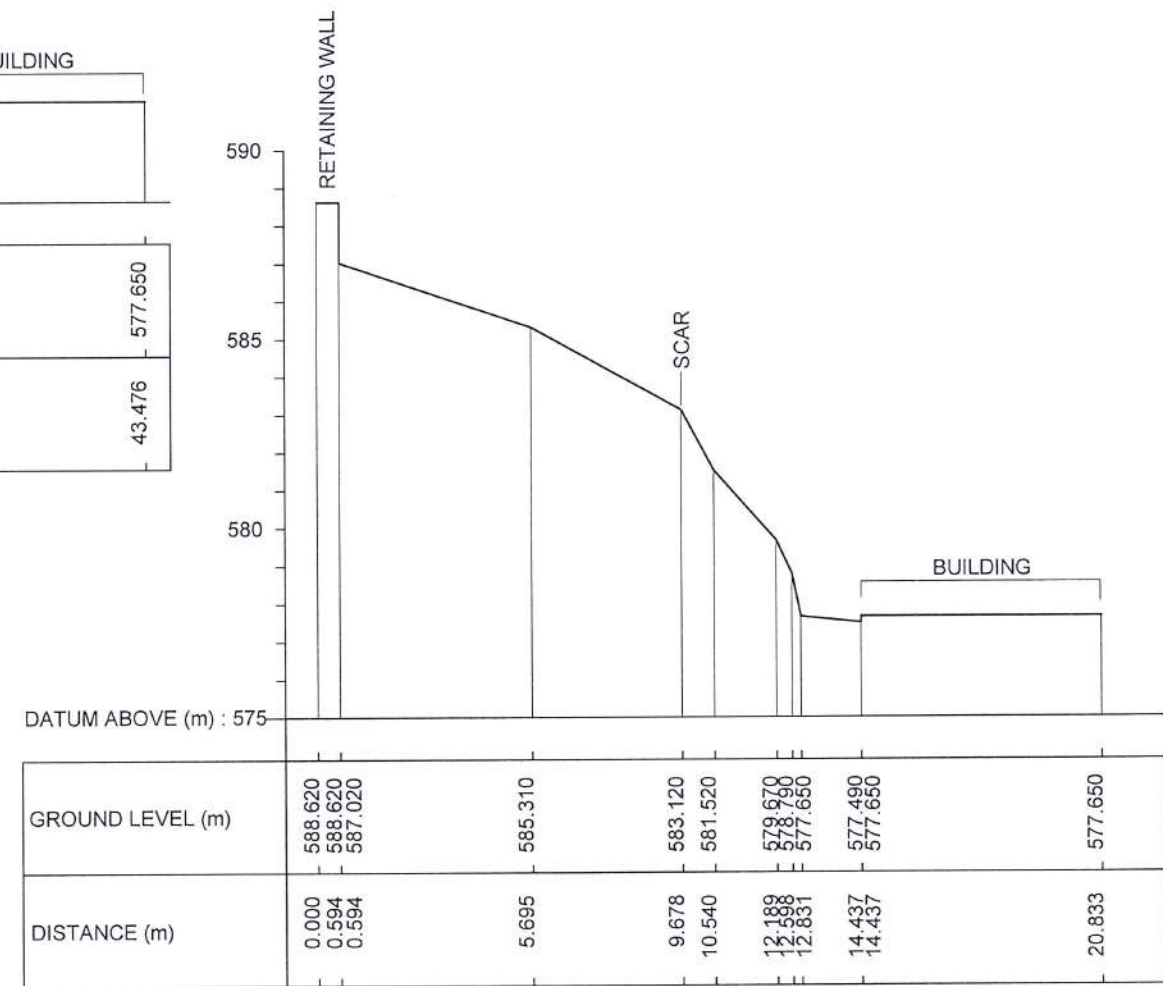
GROUND LEVEL (m)	586.520		583.880	582.280	582.040	581.270	579.940	579.810	578.410	577.670	577.490	577.490	577.650		577.650
DISTANCE (m)	0.000		6.493	6.854	7.557	8.354	9.611	10.550	10.928	11.607	12.396	13.482	13.482		19.876

CS 02

EMPLOYER		DESIGNER		REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE		TITLE		DESCRIPTION	NAME	SIGNATURE
 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	 DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05							REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT BEHIND THE SCIENCE CLASS ROOMS DHARMARAJA COLLEGE, KANDY LOCATION 6	EXISTING CROSS SECTIONS	SCALE 1:200 PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH II/228/L6/DR 02a	DATE 03.03.2026 REVISION 00	DRAWN	W.L.P.N.N. WIJESINGHE	For
												CHECKED	R.J.K.P.N. RANATHUNGA	

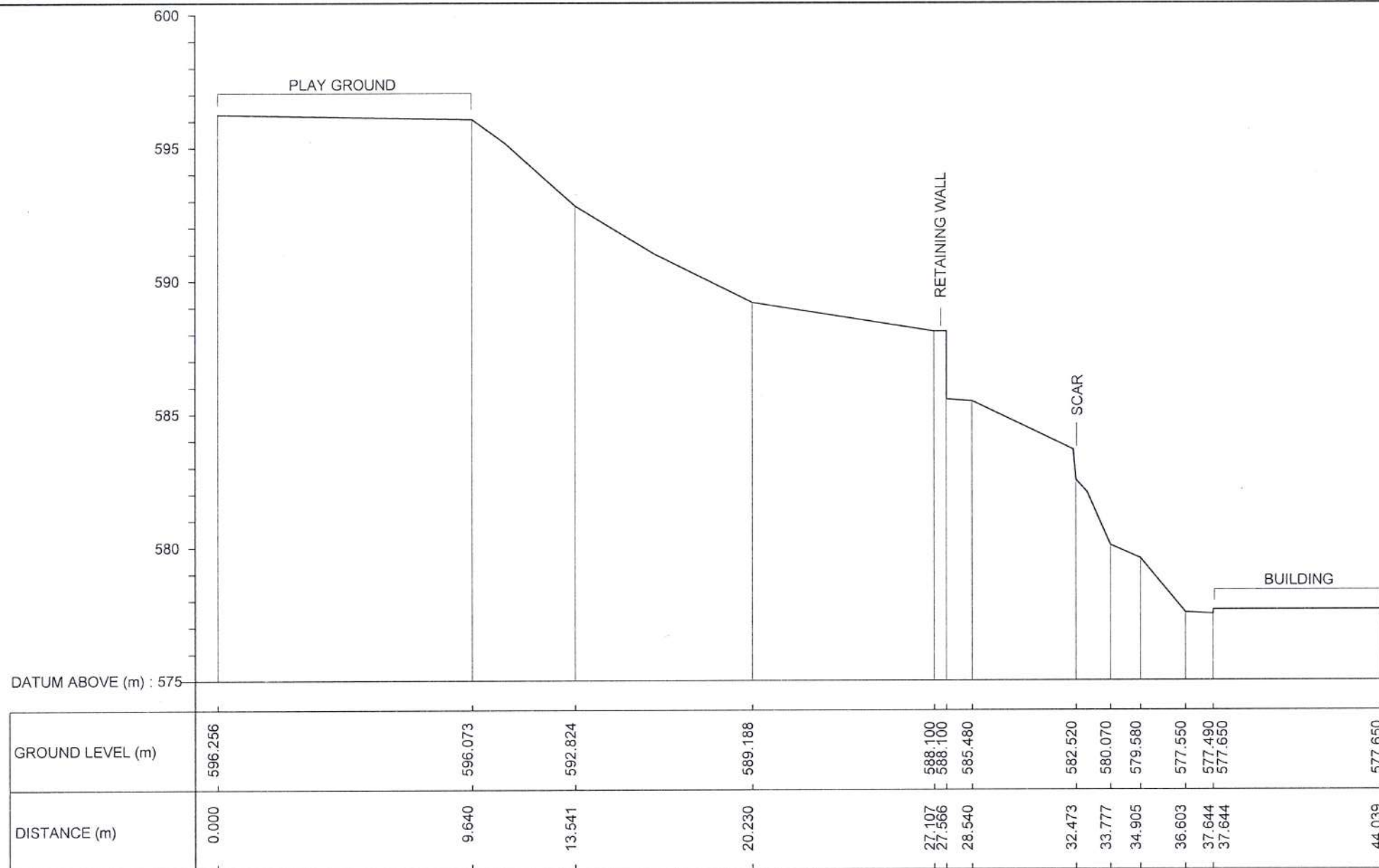


CS 03

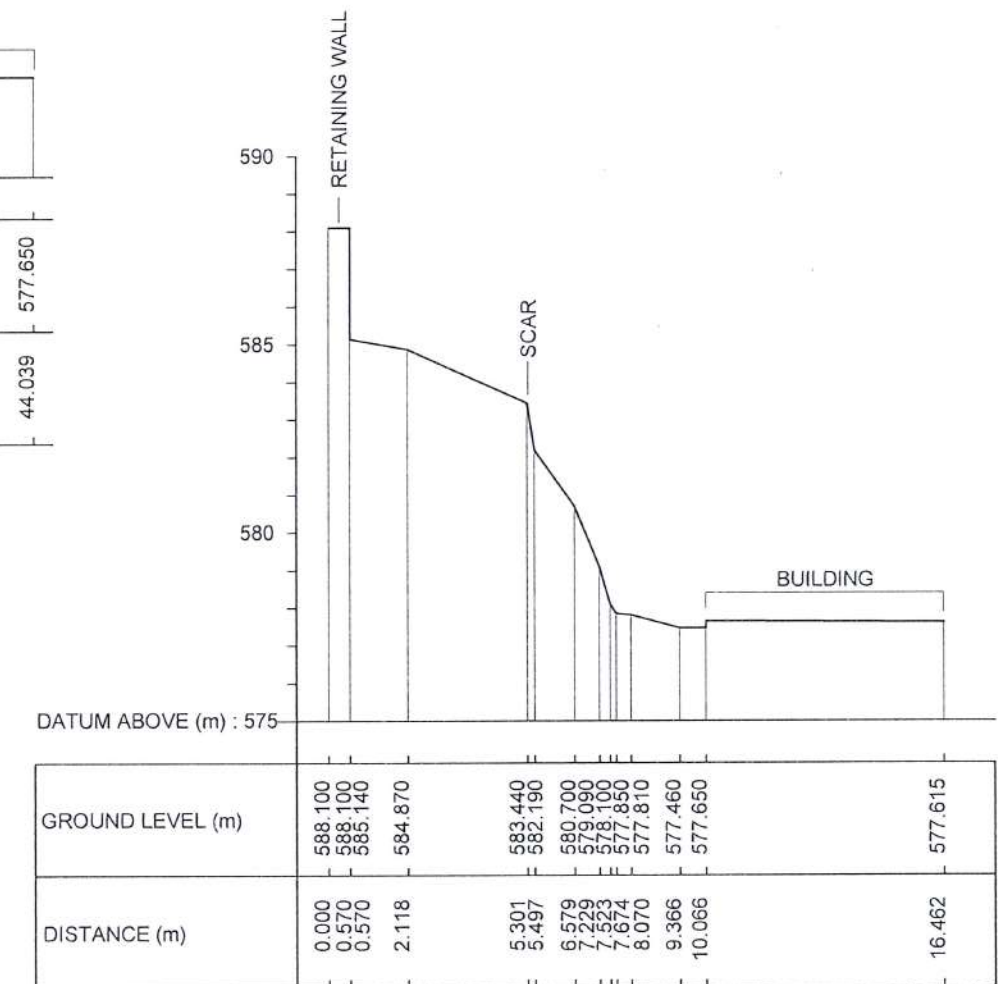


CS 04

 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	 DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT BEHIND THE SCIENCE CLASS ROOMS DHARMARAJA COLLEGE, KANDY LOCATION 6	TITLE EXISTING CROSS SECTIONS		DESCRIPTION	NAME	SIGNATURE		
									DRAWN	W.L.P.N.N. WIJESINGHE	For		
									CHECKED	R.J.K.P.N. RANATHUNGA			
						SCALE	1:200	DATE	03.03.2026	REVISION	00		
						PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH II/228/L6/DR 02b							



CS 05



CS 06

EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 		DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05		REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT BEHIND THE SCIENCE CLASS ROOMS DHARMARAJA COLLEGE, KANDY LOCATION 6	TITLE EXISTING CROSS SECTIONS			DESCRIPTION	NAME	SIGNATURE
								DRAWN	W.L.P.N.N. WIJESINGHE	For				
								CHECKED	R.J.K.P.N. RANATHUNGA					
								SCALE	1:200	DATE	03.03.2026			
								PROJECT / DRAWING No.	RLVMP/WORKS/NCB/PH II/228/L6/DR 02c	REVISION	00			



REFERENCE

- MASONRY DRAIN MDn
- RETAINING WALL RW
- SECTIONS
- TREE
- REFERENCE POINTS

DESIGN NOTATION

- DS (K) - A
- DS (C) - A
- DS (M) - B
- DS (M) - B WITH GRATING
- RESTING TYPE CONCRETE WALL (7m)
- RESHAPING AREA
- CATCH PIT

NOTES

- UNSTABLE BOULDERS AND DEBRIS SHALL BE REMOVED AS PER THE INSTRUCTION OF THE ENGINEER.
- RETAINING WALLS SHALL BE PLACED ON A HARD LAYER AND THE BASE SHALL BE DOWELED AS PER THE INSTRUCTION OF THE ENGINEER.
- SURFACE DRAIN LOCATIONS (PATH) & LENGTHS MIGHT BE VARIED ACCORDING TO ACTUAL SITE CONDITION
- PROPOSED DRAINS SHALL BE CONNECTED TO THE EXISTING DRAINS / LEADER WAYS TO PROPERLY DRAIN OUT THE WATER
- LOCATION OF THE CATCH PITS MIGHT BE VARIED ACCORDING TO THE ACTUAL SITE CONDITION.

EMPLOYER
DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF DEFENCE
NATIONAL BUILDING RESEARCH INSTITUTE
No. 99/1, JAWATTA ROAD,
COLOMBO - 05

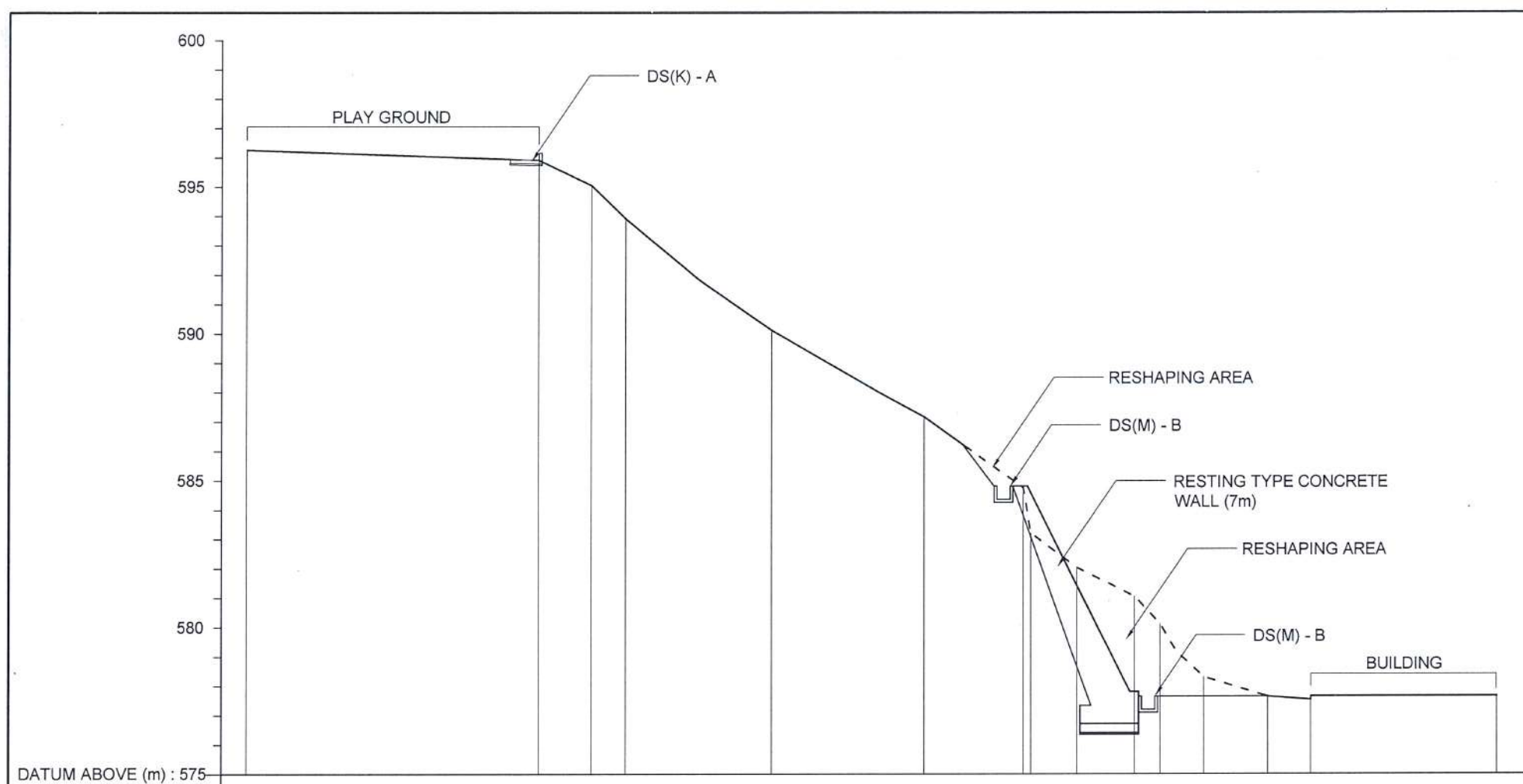
DESIGNER
DESIGN UNIT
NATIONAL BUILDING RESEARCH INSTITUTE
No. 99/1, JAWATTA ROAD,
COLOMBO - 05

REV	DATE	REVISION DESCRIPTION	APPROVAL

PROJECT TITLE
REDUCTION OF LANDSLIDE VULNERABILITY
BY MITIGATION MEASURES PROJECT
BEHIND THE SCIENCE CLASS ROOMS
DHARMARAJA COLLEGE, KANDY
LOCATION 6

TITLE	PLAN VIEW OF PROPOSED MITIGATION MEASURES
SCALE	1:200
DATE	03.03.2026
PROJECT / DRAWING No.	RLVMMP/WORKS/NCB/PH II/228/L6/DR 03
REVISION	00

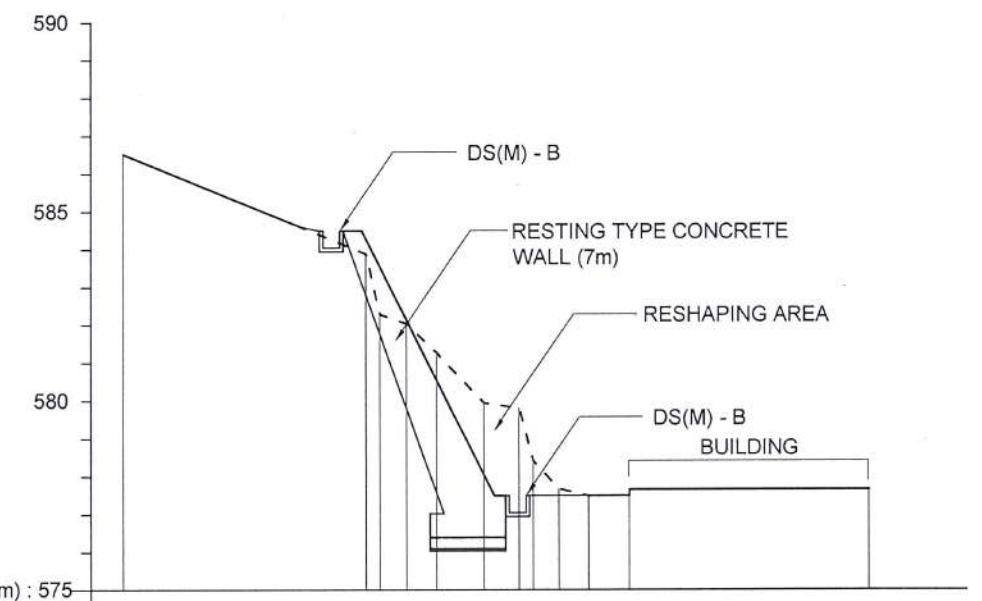
DESCRIPTION	NAME	SIGNATURE
DRAWN	K. M. D. NISHANTHI	
DESIGNED	R. J. K. P. N. RANATHUNGA	
CHECKED	I. A. N. D. IDIRIMANNA	
RECOMMENDED	PROF. S. A. S. KULATHILAKA	
APPROVED	ENG. (DR.) SANCHITHA JAYAKODY	



DATUM ABOVE (m) : 575

GROUND LEVEL (m)	596.260		595.911	595.050	593.910	591.811	590.120	588.010	587.160	584.750	583.200	582.030	581.040	580.110	579.190	578.300	577.640	577.650	577.650
DISTANCE (m)	0.000		10.051	11.856	13.043	15.597	18.065	21.717	23.291	26.707	26.965	28.545	30.526	31.392	31.930	32.896	35.091	36.565	42.958

CS 01

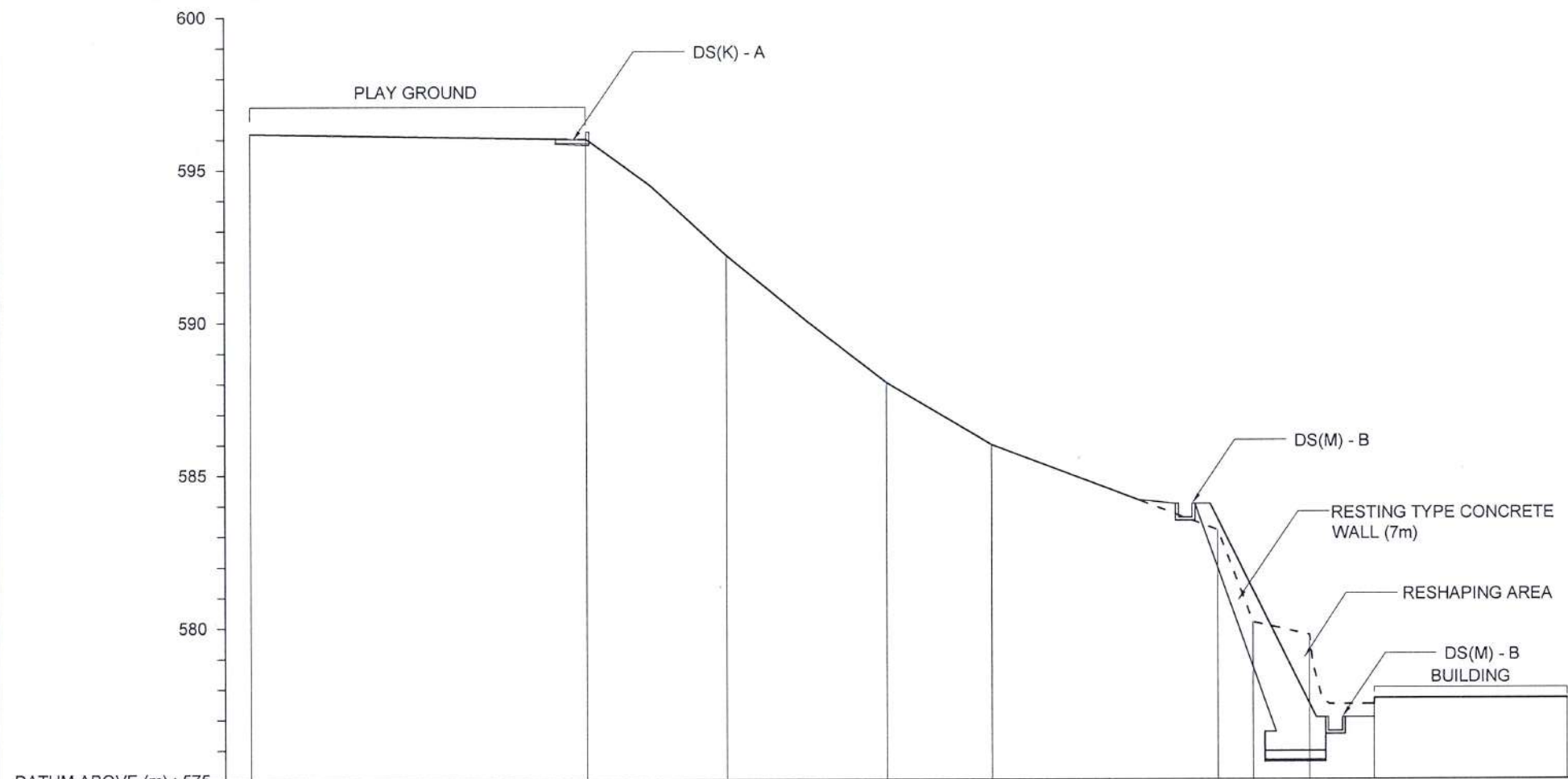


DATUM ABOVE (m) : 575

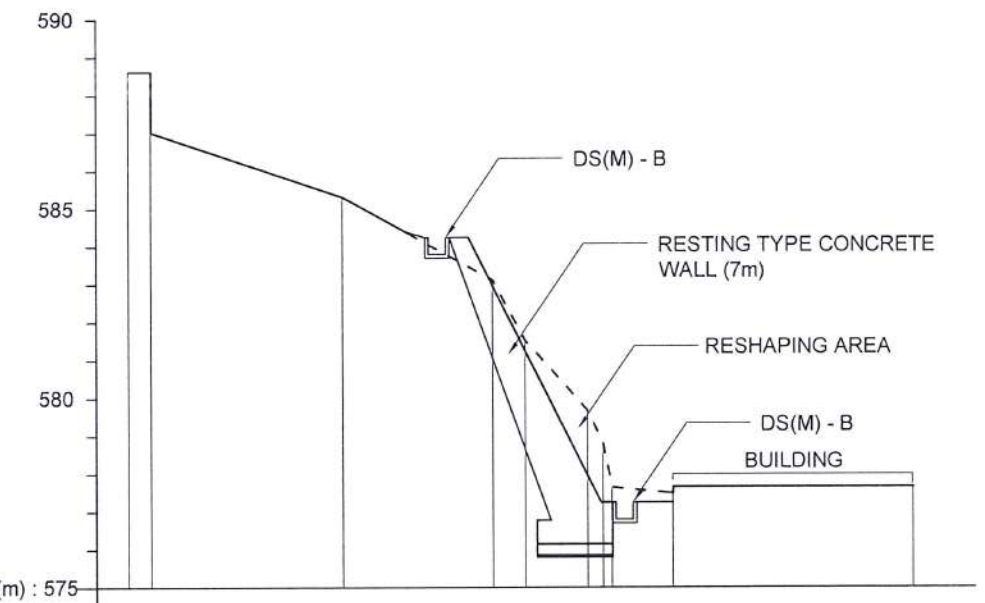
GROUND LEVEL (m)	586.520		583.880	582.280	582.040	581.270	579.940	579.810	578.410	577.670	577.490	577.490	577.650	577.650
DISTANCE (m)	0.000		6.493	6.854	7.557	8.354	9.611	10.560	10.928	11.607	12.396	13.482	13.482	19.876

CS 02

EMPLOYER	DESIGNER	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE	TITLE	DESCRIPTION	NAME	SIGNATURE
DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05					REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT DHARMARAJA COLLEGE KANDY LOCATION 6	CROSS SECTIONS OF PROPOSED MITIGATION MEASURES	DRAWN	K. M. D. NISHANTHI	
								DESIGNED	R.J.K.P.N. RANATHUNGA	
								CHECKED	I.A.N.D. IDIRIMANNA	
								RECOMMENDED	PROF. S. A. S. KULATHILAKA	
								APPROVED	ENG. (DR.) SANCHITHA JAYAKODY	
							SCALE 1:200	DATE 03.03.2026		
							PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH II/228/L6/DR 04a	REVISION 00		

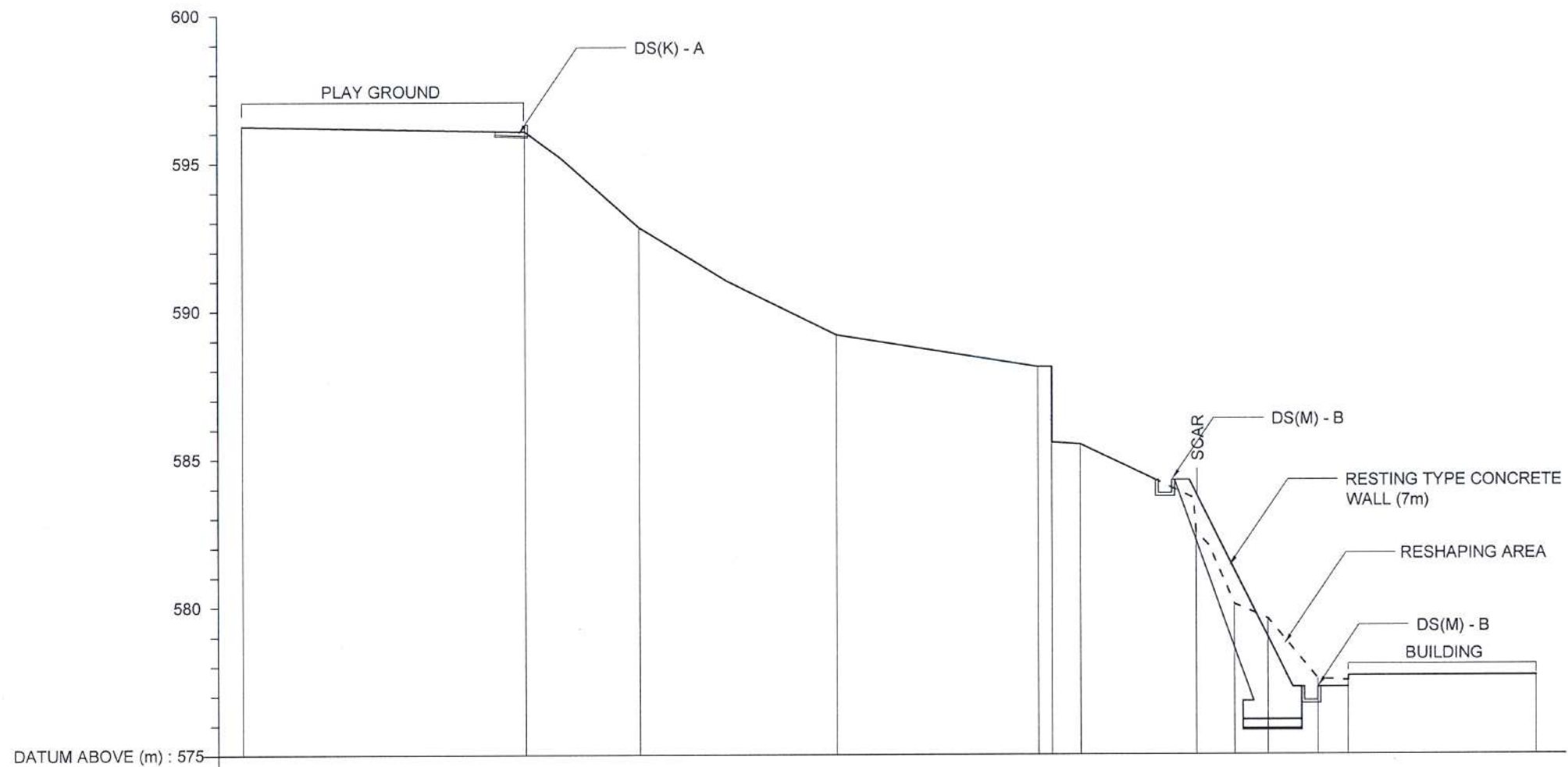


CS 03



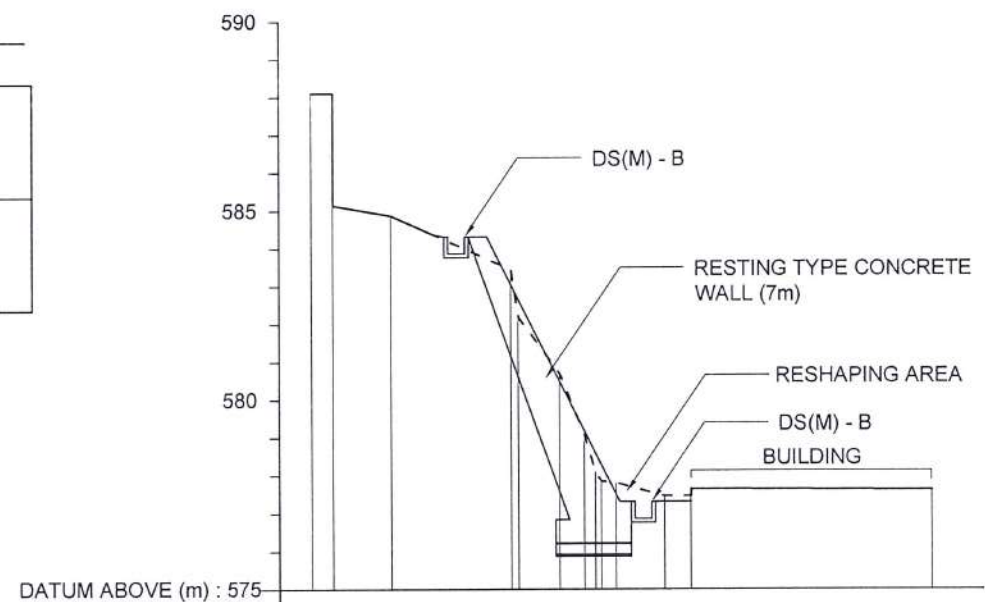
CS 04

EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT DHARMARAJA COLLEGE KANDY LOCATION 6	TITLE CROSS SECTIONS OF PROPOSED MITIGATION MEASURES		DESCRIPTION	NAME	SIGNATURE
									DRAWN	K. M. D. NISHANTHI	
									DESIGNED	R.J.K.P.N. RANATHUNGA	
									CHECKED	I.A.N.D. IDIRIMANNA	
									RECOMMENDED	PROF. S. A. S. KULATHILAKA	
									APPROVED	ENG. (DR.) SANCHITHA JAYAKODY	



GROUND LEVEL (m)	596.256	596.073	592.824	589.188	588.100	588.560	585.480	582.520	580.070	579.580	577.550	577.490	577.650
DISTANCE (m)	0.000	9.640	13.541	20.230	27.107	27.566	28.540	32.473	33.777	34.905	36.603	37.644	44.039

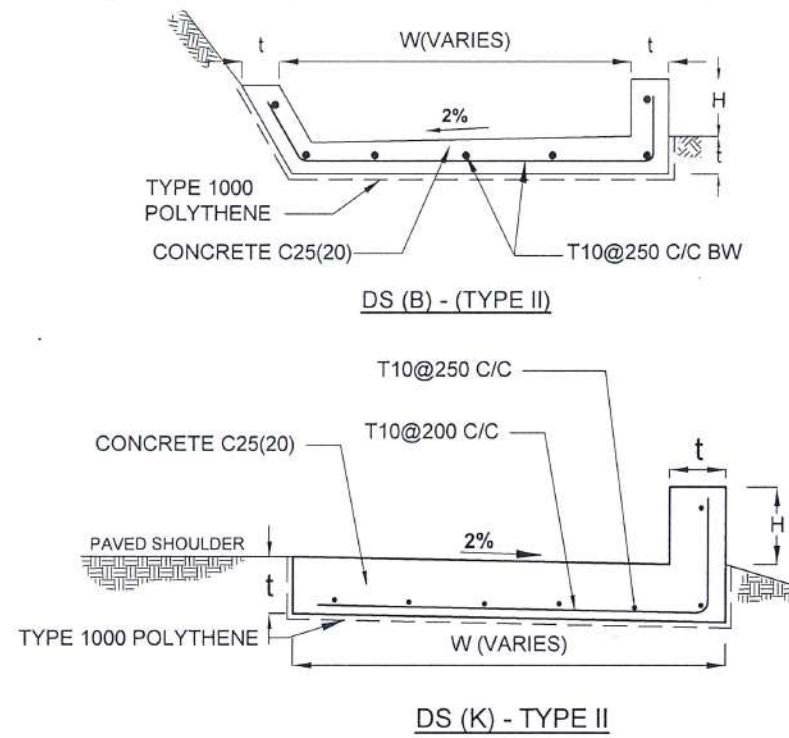
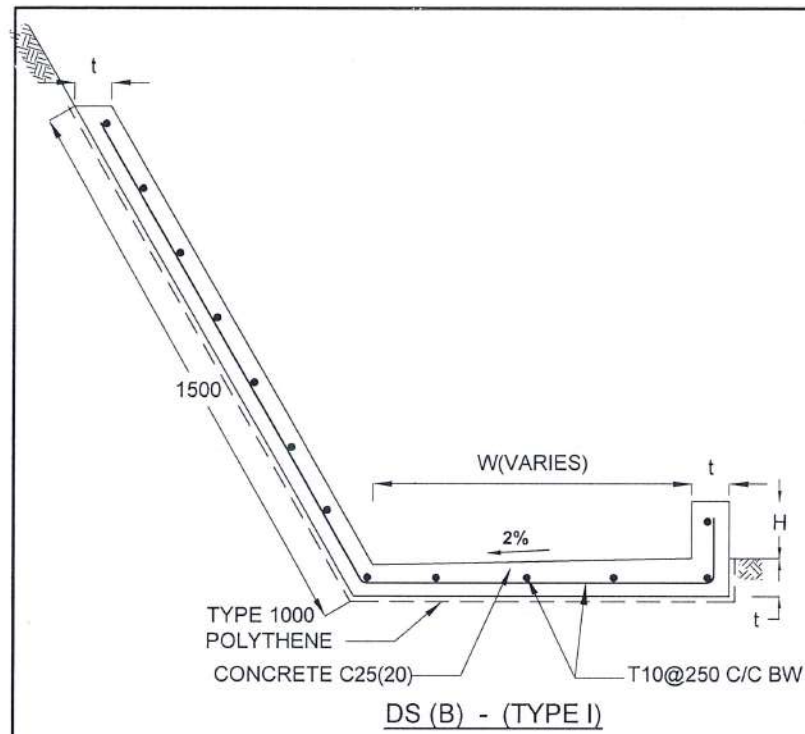
CS 05



GROUND LEVEL (m)	588.100	588.100	585.140	584.870	583.440	582.190	580.700	579.090	578.000	577.850	577.810	577.460	577.650
DISTANCE (m)	0.000	0.570	0.570	2.118	5.301	5.497	6.579	7.229	7.523	7.674	8.070	9.366	10.066
													16.462

CS 06

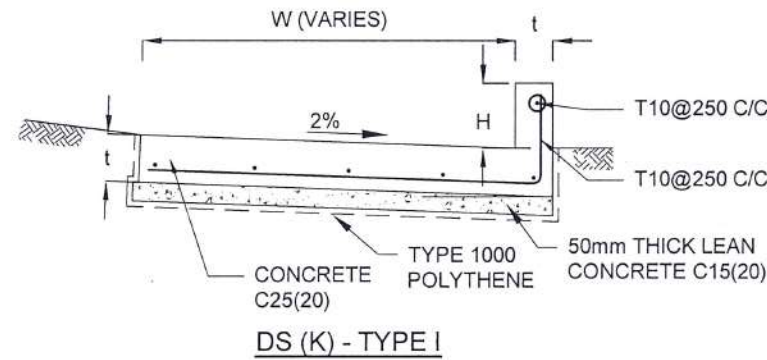
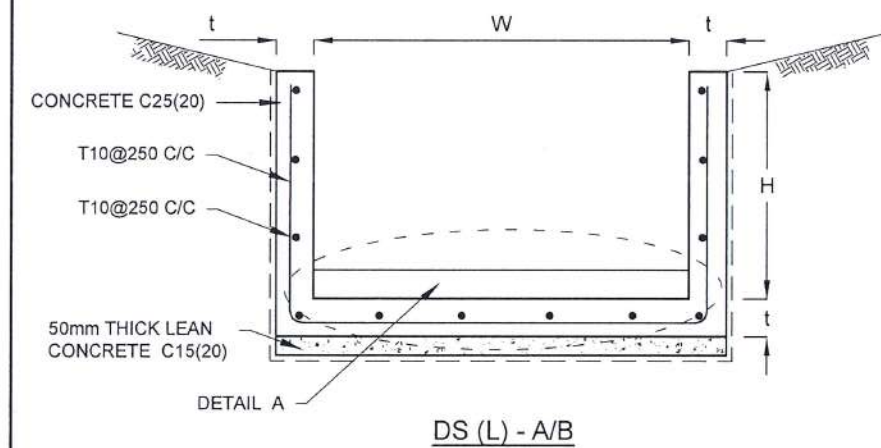
EMPLOYER		DESIGNER		REV		DATE		REVISION DESCRIPTION		APPROVAL		PROJECT TITLE		TITLE		DESCRIPTION		NAME		SIGNATURE	
 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 		 DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05										REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT DHARMARAJA COLLEGE KANDY LOCATION 6		CROSS SECTIONS OF PROPOSED MITIGATION MEASURES		DRAWN		K. M. D. NISHANTHI			
																DESIGNED		R.J.K.P.N. RANATHUNGA			
																CHECKED		I.A.N.D. IDIRIMANNA			
																RECOMMENDED		PROF. S. A. S. KULATHILAKA			
														SCALE 1:200		DATE		03.03.2026			
														PROJECT / DRAWING No. RLVMPP/WORKS/NCB/PH II/228/L6/DR 04c		REVISION 00		APPROVED		ENG. (DR.) SANCHITHA JAYAKODY	



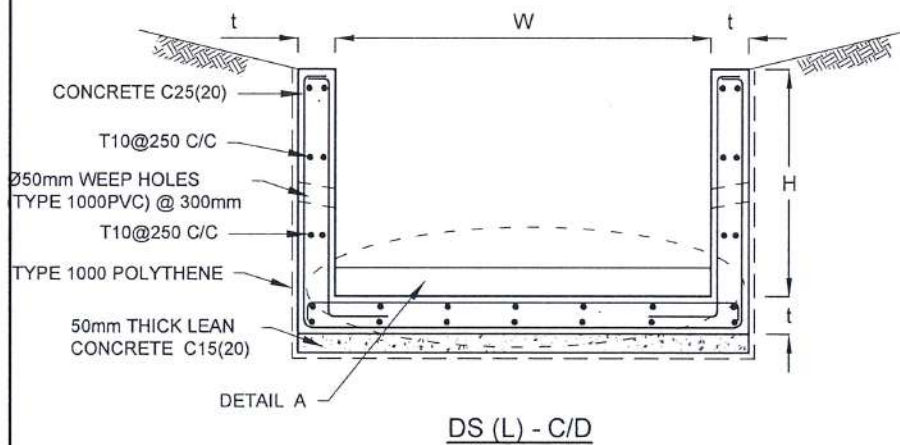
DRAIN TYPE	W (mm)	H (mm)	t (mm)
DS (B) - A	500	150	100
DS (B) - B	1000	150	100
DS (B) - C	1500	150	100
DS (B) - D	2000	150	100
DS (B) - E	2500	250	100

NOTES

- DEPTH OF EXCAVATION MAY VARY ACCORDING TO SITE CONDITIONS.
- STEPS SHALL BE CONSTRUCTED AT SURFACE DRAIN ON SLOPING GROUND ACCORDING TO THE SITE CONDITIONS AS INSTRUCTED BY THE ENGINEER.
- ENERGY BREAKERS SHALL BE CONSTRUCTED IN STAGGERED PATTERN AT THE STEEP DRAIN SEGMENTS AS PER THE INSTRUCTIONS OF THE ENGINEER.
- DOWELS SHALL BE INSTALLED ACCORDING TO THE GROUND CONDITIONS AS INSTRUCTED BY THE ENGINEER.
- COVER SLABS NEED TO BE PROVIDED ONLY FOR THE REGIONS AS INSTRUCTED BY THE ENGINEER.
- COVER SLAB WIDTH (W_c) SHOULD BE TAKEN AS THE SUM OF DRAIN WIDTH AND 2x DRAIN WALL THICKNESS. [$W_c = W + 2xt$]
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
- 10 mm THICK EXPANSION JOINT SHALL BE INTRODUCED IN EVERY 5m INTERVAL.



DRAIN TYPE	W (mm)	H (mm)	t (mm)
DS (K) - A	1000	200	100
DS (K) - B	1000	300	100
DS (K) - C	1150	200	200



DRAIN TYPE	W (mm)	H (mm)	t (mm)
DS (L) - A	1000	600	100
DS (L) - B	1000	800	125
DS (L) - C	1000	1000	125
DS (L) - D	2000	2000	150

CONCRETE

- USE FOLLOWING CONCRETE GRADES FOR STRUCTURE
 - SCREED - C15(20)
 - WALLS / BASE / ENERGY BREAKERS - C25(20)

REINFORCEMENT

- HIGH YIELD REINFORCEMENT BARS DENOTED BY "T" SHALL CONFORM TO THE REQUIREMENTS OF TYPE 2 OF BS 4449 AND HAVE A CHARACTERISTIC TENSILE STRENGTH OF 460N/mm².
- BARS OF CUT LENGTH LARGER THAN THE SUPPLIED LENGTH TO BE LAPPED FOR A LENGTH OF 40 x BAR DIA. AND LAPPING SHOULD BE STAGGERED.
- ANCHORAGE LENGTH SHOULD BE 40X BAR DIA.
- REINFORCEMENT BARS SHALL BE BENT IN ACCORDANCE WITH STANDARD SPECIFICATIONS.
- COVER TO REINFORCEMENT
 - BURIED FACES AND DRAIN INVERTS - 40 mm
 - ALL OTHER FACES - 25 mm

EMPLOYER

 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
 MINISTRY OF DEFENCE
 NATIONAL BUILDING RESEARCH INSTITUTE
 No. 99/1, JAWATTA ROAD,
 COLOMBO - 05

DESIGNER

 DESIGN UNIT
 NATIONAL BUILDING RESEARCH INSTITUTE
 No. 99/1, JAWATTA ROAD,
 COLOMBO - 05

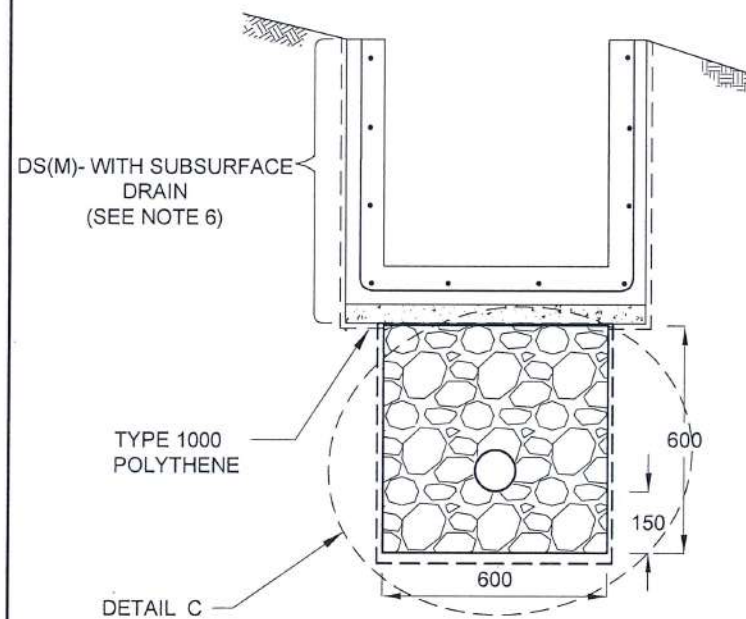
REV	DATE	REVISION DESCRIPTION	APPROVAL

PROJECT TITLE
 REDUCTION OF LANDSLIDE VULNERABILITY
 BY MITIGATION MEASURES PROJECT
 DHARMARAJA COLLEGE
 KANDY

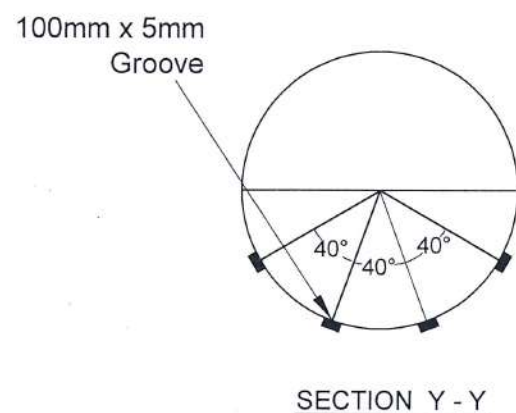
TITLE
 DETAILS OF DRAINS
 (SURFACE DRAIN - 2 OF 2)

SCALE: N.T.S. DATE: 25.05.2026
 PROJECT / DRAWING No. RLVMM/WORKS/NCB/PH III/228/A2 REVISION: 00

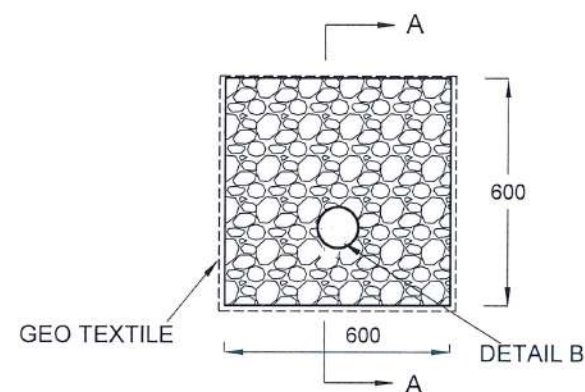
DESCRIPTION	NAME	SIGNATURE
DRAWN	K. M. D. NISHANTHI	
DESIGNED	R.J.K.P.N. RANATHUNGA	
CHECKED	I.A.N.D. IDRIMANNA	
RECOMMENDED	PROF. S. A. S. KULATHILAKA	
APPROVED	ENG. (DR.) SANCHITHA JAYAKODY	



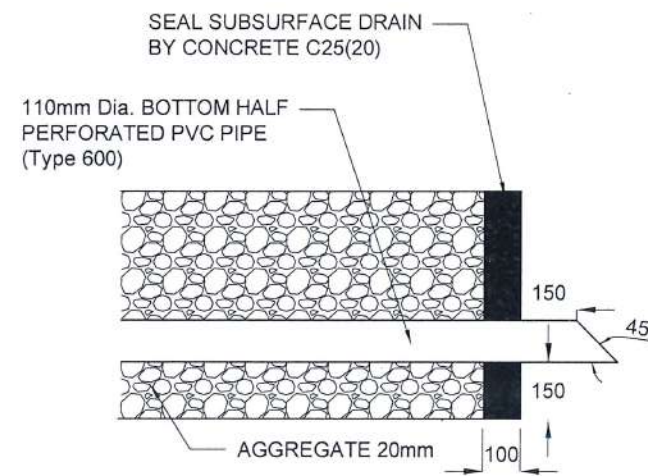
**SUBSURFACE DRAIN
[DS (S) -A]**



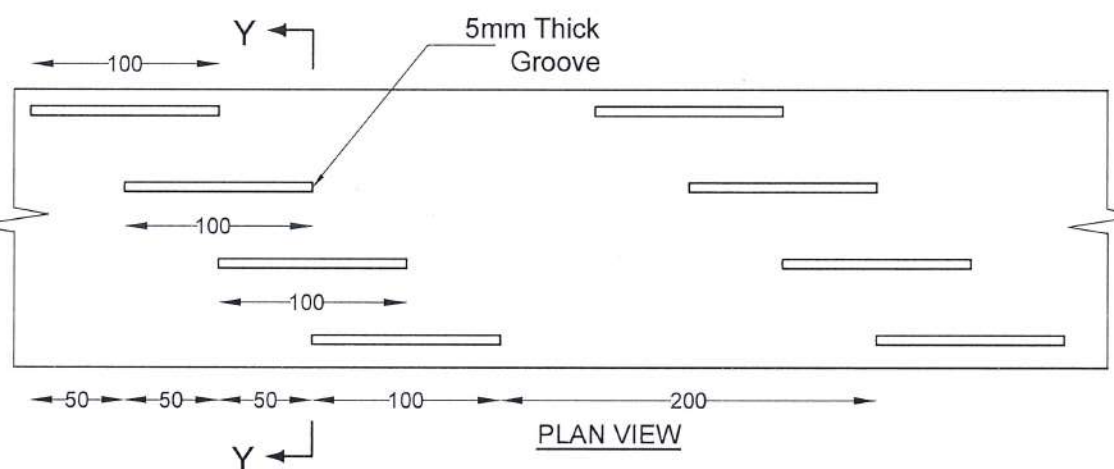
SECTION Y - Y



DETAIL C / DS (S) -A

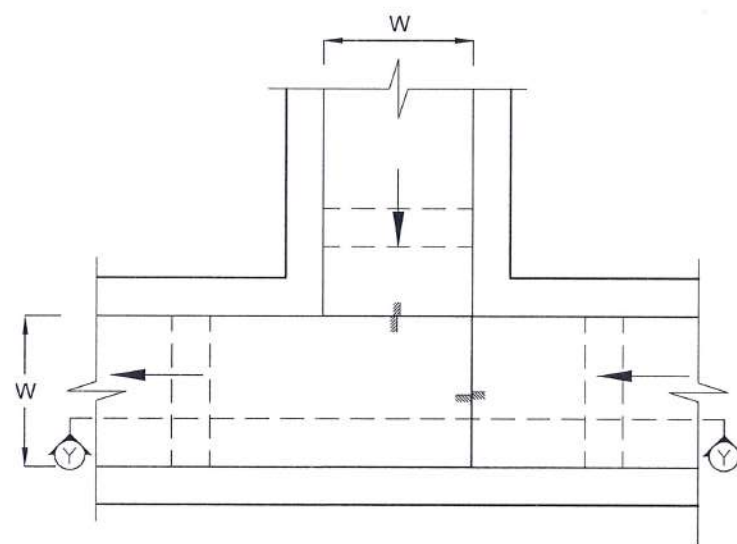


**SECTION A-A
(OUTLET DETAIL SUBSURFACE DRAIN)**

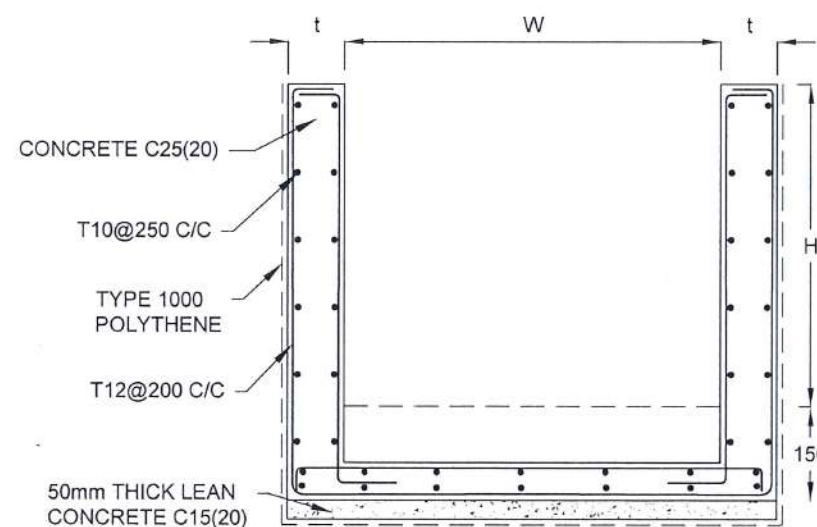


PLAN VIEW

DETAIL - B (PERFORATED PIPE FOR SUB-SURFACE DRAINS)



PLAN VIEW OF CATCH PIT (CP)



SECTION Y-Y (CP-R)

NOTES

1. W,H,t ; SHALL BE THE SAME AS RESPECTIVE DRAIN SECTION.
2. CP - R SHALL BE USED WHERE $H \geq 900\text{mm}$
3. DEPTH OF EXCAVATION MAY VARY ACCORDING TO SITE CONDITIONS.
4. DOWELS SHALL BE INSTALLED ACCORDING TO THE GROUND CONDITIONS AS INSTRUCTED BY THE ENGINEER.
5. 10 mm THICK EXPANSION JOINT SHALL BE INTRODUCED IN EVERY 5m. INTERVAL.
6. DETAILS OF SURFACE DRAIN PORTION OF THE SUBSURFACE DRAINS SHALL BE AS PER DS(M), DS(B), DS(K) OR DS(C) SECTIONS ACCORDINGLY.
7. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.

CONCRETE

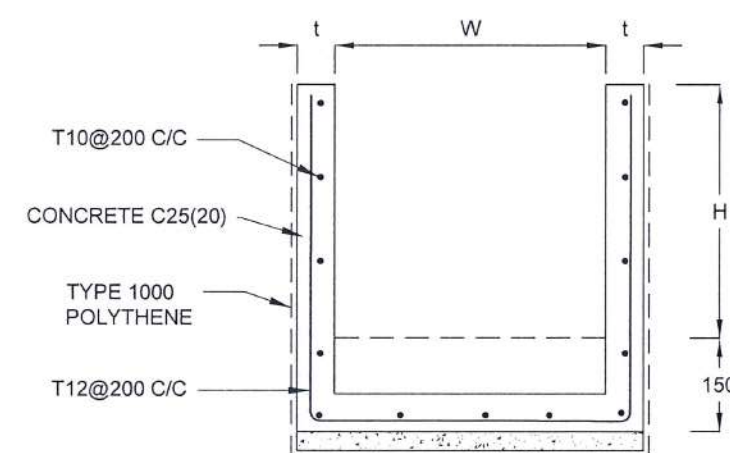
8. USE FOLLOWING CONCRETE GRADES FOR STRUCTURE

[a]	SCREED	- C15(20)
[b]	WALLS / BASE / ENERGY BREAKERS	- C25(20)

REINFORCEMENT

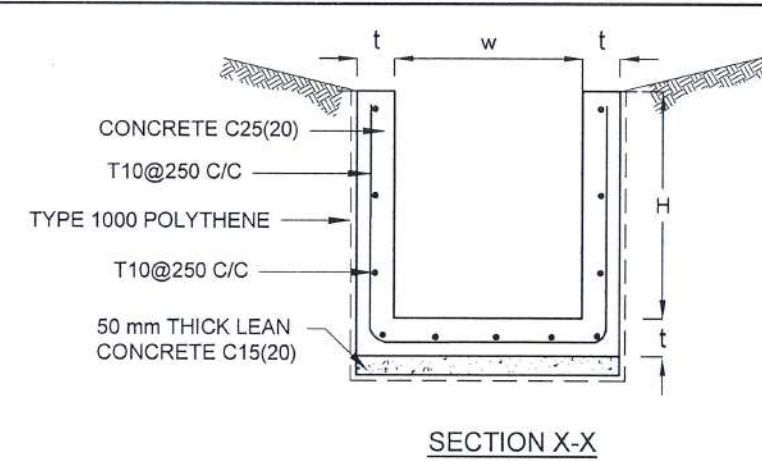
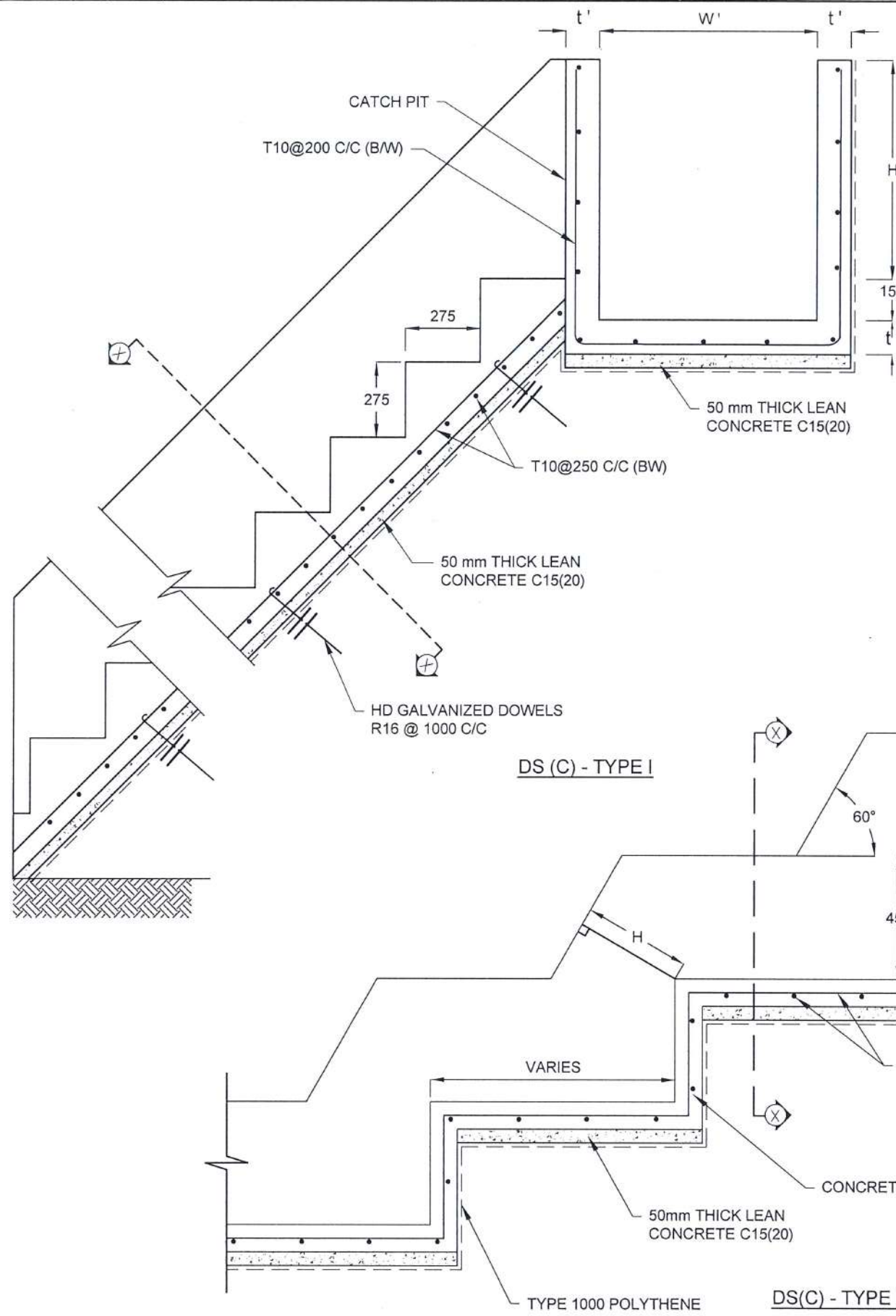
9. HIGH YIELD REINFORCEMENT BARS DENOTED BY "T" SHALL CONFORM TO THE REQUIREMENTS OF TYPE 2 OF BS 4449 AND HAVE A CHARACTERISTIC TENSILE STRENGTH OF 460N/mm^2 .
10. BARS OF CUT LENGTH LARGER THAN THE SUPPLIED LENGTH TO BE LAPPED FOR A LENGTH OF $40 \times \text{BAR DIA.}$ AND LAPPING SHOULD BE STAGGERED.
11. ANCHORAGE LENGTH SHOULD BE $40 \times \text{BAR DIA.}$
12. REINFORCEMENT BARS SHALL BE BENT IN ACCORDANCE WITH STANDARD SPECIFICATIONS.
13. COVER TO REINFORCEMENT

[a]	BURIED FACES AND DRAIN INVERTS	- 40 mm
[b]	ALL OTHER FACES	- 25 mm



SECTION Y - Y

EMPLOYER	DESIGNER	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE	TITLE	DESCRIPTION	NAME	SIGNATURE
 DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	 DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05					REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT DHARMARAJA COLLEGE KANDY	DETAILS OF DRAINS (SUBSURFACE DRAIN AND CATCHPIT)	DRAWN	K. M. D. NISHANTHI	
								DESIGNED	R. J. K. P. N. RANATHUNGA	
								CHECKED	I. A. N. D. IDIRIMANNA	
								RECOMMENDED	PROF. S. A. S. KULATHILAKA	
								APPROVED	ENG. (DR.) SANCHITHA JAYAKODY	
							SCALE N.T.S. DATE 25.05.2026 PROJECT / DRAWING No. RLVMP/WORKS/NCB/PH III/228/A3 REVISION 00			



NOTES

- USE EITHER TYPE I OR TYPE II CASCADE DRAIN ACCORDING TO THE ACTUAL GROUND CONDITION AS INSTRUCTED BY THE ENGINEER.
- LENGTH OF THE STEPS OF CASCADE WILL BE VARIED ACCORDING TO THE SITE CONDITIONS.
- DEPTH OF EXCAVATION SHALL BE VARIED ACCORDING TO SITE CONDITIONS.
- DOWELS SHALL BE INSTALLED ACCORDING TO THE GROUND CONDITIONS AS INSTRUCTED BY THE ENGINEER.
- 10 mm THICK EXPANSION JOINT SHALL BE INTRODUCED IN EVERY 5m INTERVAL.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.

CONCRETE

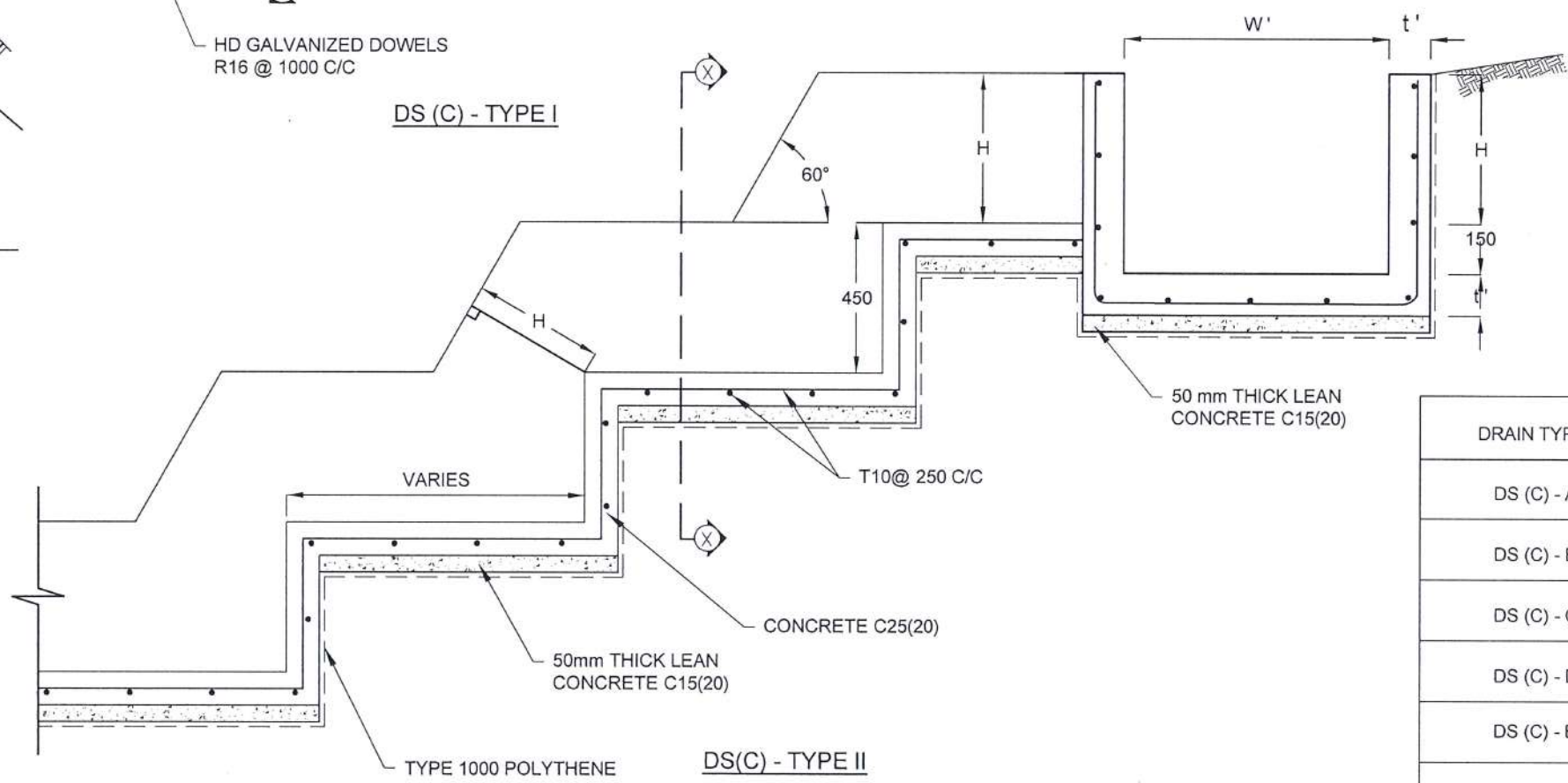
- USE FOLLOWING CONCRETE GRADES FOR STRUCTURE

[a]	SCREED	- C15(20)
[b]	WALLS / BASE / ENERGY BREAKERS	- C25(20)

REINFORCEMENT

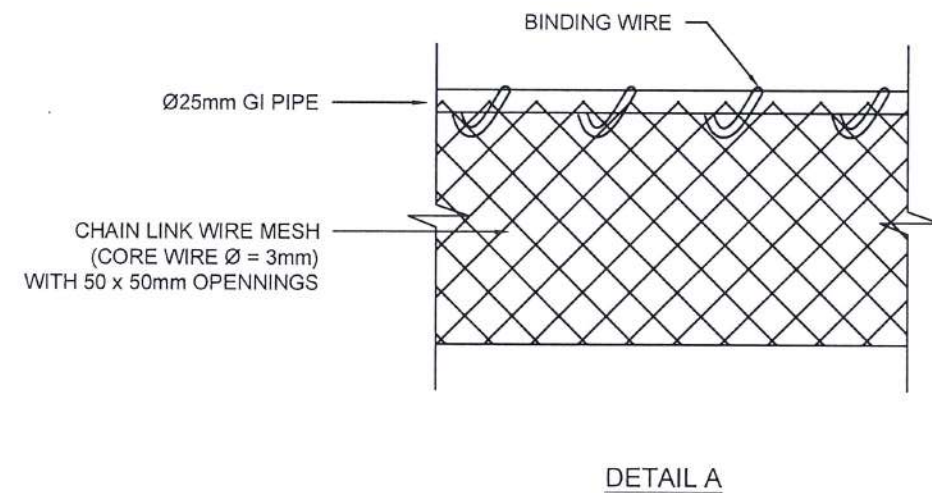
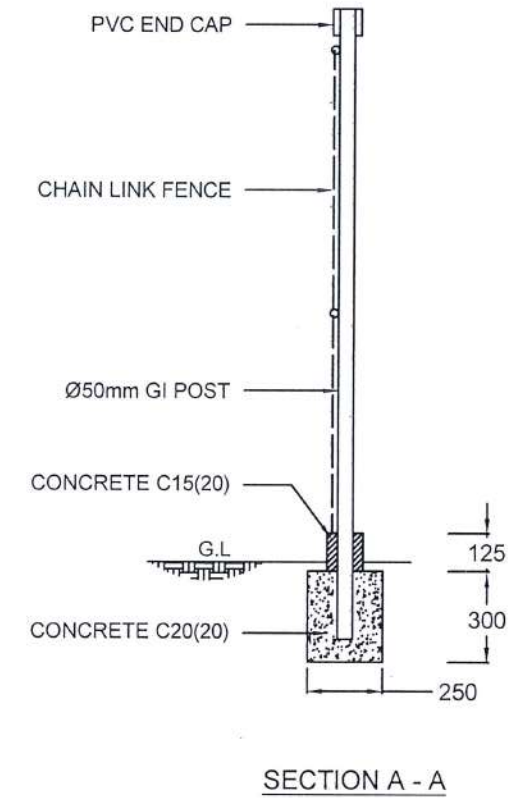
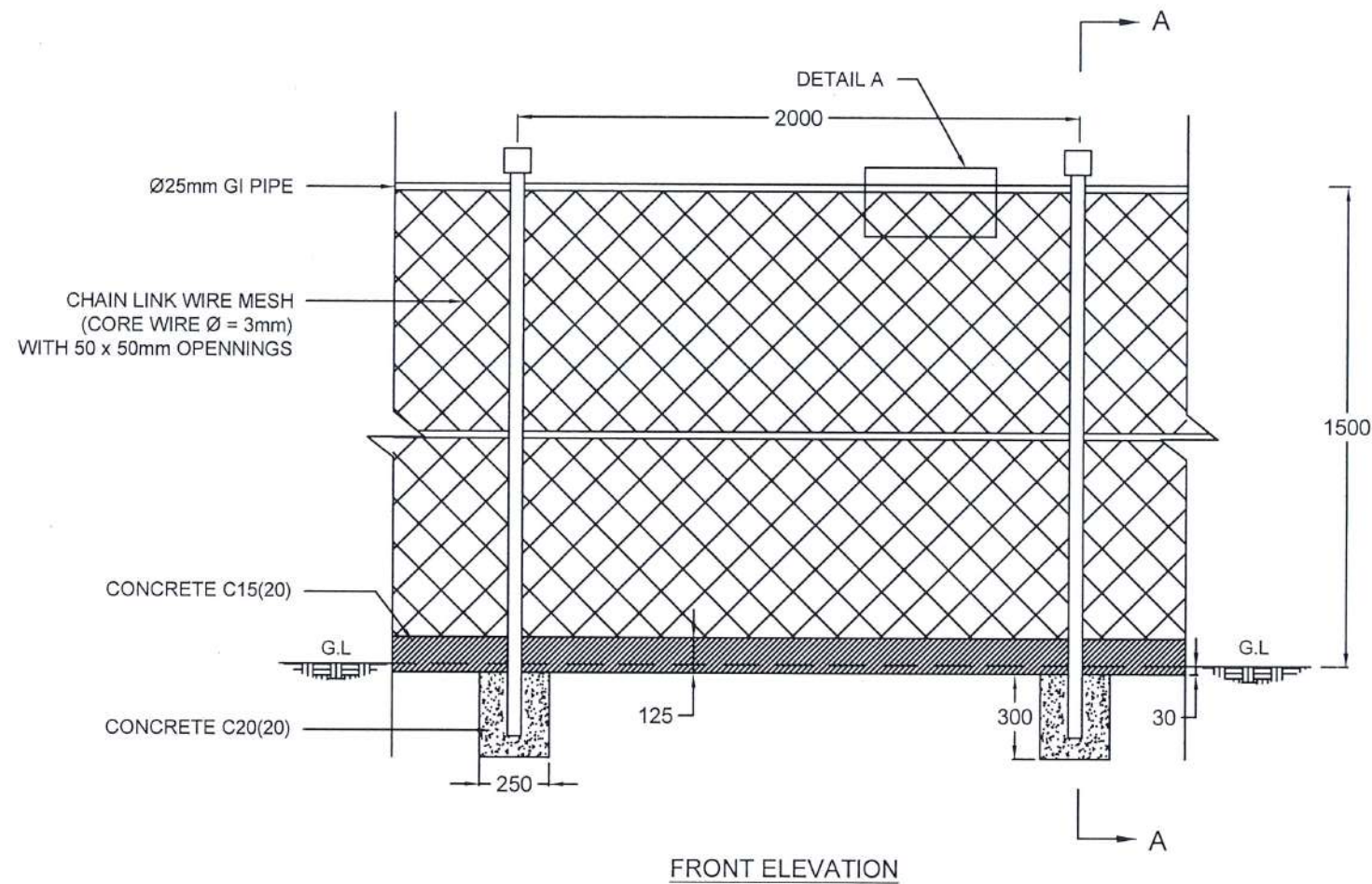
- HIGH YIELD REINFORCEMENT BARS DENOTED BY "T" SHALL CONFORM TO THE REQUIREMENTS OF TYPE 2 OF BS 4449 AND HAVE A CHARACTERISTIC TENSILE STRENGTH OF 460N/mm².
- BARS OF CUT LENGTH LARGER THAN THE SUPPLIED LENGTH TO BE LAPPED FOR A LENGTH OF 40 x BAR DIA. AND LAPPING SHOULD BE STAGGERED.
- ANCHORAGE LENGTH SHOULD BE 40X BAR DIA.
- REINFORCEMENT BARS SHALL BE BENT IN ACCORDANCE WITH STANDARD SPECIFICATIONS.
- COVER TO REINFORCEMENT

[a]	BURIED FACES AND DRAIN INVERTS	- 40 mm
[b]	ALL OTHER FACES	- 25 mm



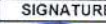
DRAIN TYPE	W (mm)	H (mm)	t (mm)	W' (mm)	t' (mm)
DS (C) - A	450	450	100	600	100
DS (C) - B	450	600	100	750	100
DS (C) - C	600	600	100	800	100
DS (C) - D	750	750	100	800	100
DS (C) - E	800	800	125	1000	125
DS (C) - F	1000	750	125	1200	125

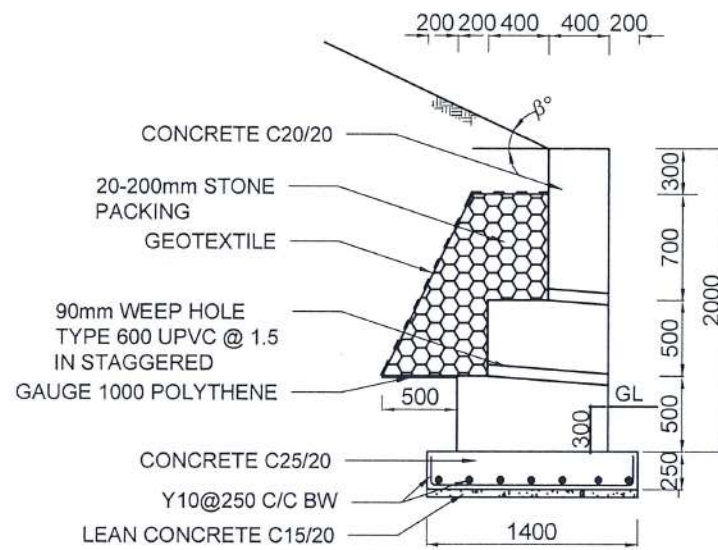
EMPLOYER DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	DESIGNER DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT DHARMARAJA COLLEGE KANDY	TITLE DETAILS OF DRAINS (CASCADE DRAIN)	DESCRIPTION	NAME	SIGNATURE
							SCALE	N.T.S.	DATE	25.05.2026
							PROJECT / DRAWING No.	RLVMP/WORKS/NCB/PH III/228/A4	REVISION	00
									RECOMMENDED	PROF. S. A. S. KULATHILAKA
									APPROVED	ENG. (DR.) SANCHITHA JAYAKODY



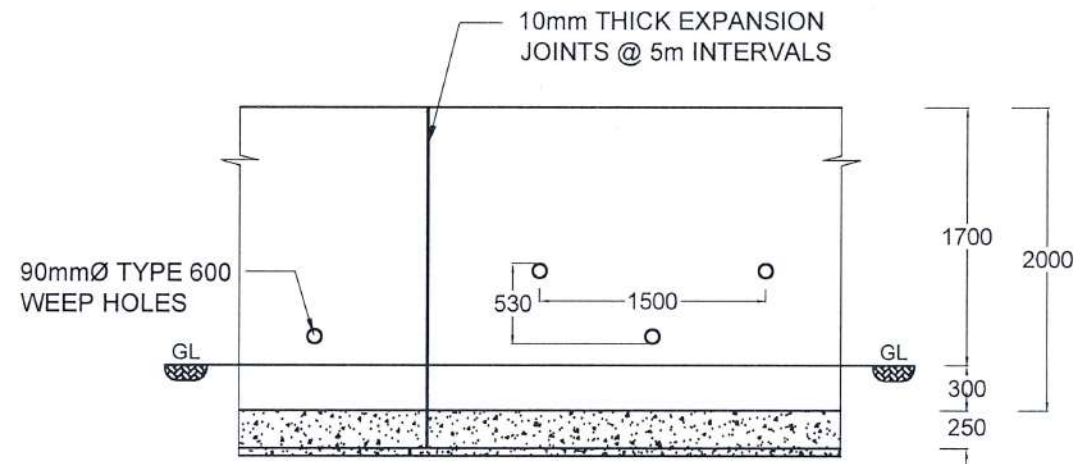
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS
2. GI POST SHOULD BE COVERED WITH GREEN COLOUR ANTI-CORROSIVE PAINT.
3. PRIOR APPROVAL IS REQUIRED FOR CHAIN LINK WIRE MESH, GI POST AND PVC CAP.

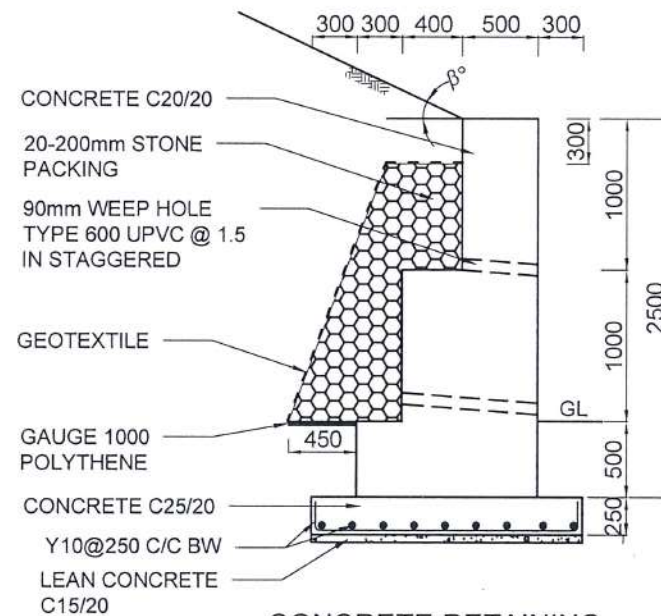
EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05 		DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05		REV DATE REVISION DESCRIPTION APPROVAL	PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT DHARMARAJA COLLEGE KANDY	TITLE DETAILS OF CHAIN LINK FENCE SCALE N.T.S. DATE 25.05.2026 PROJECT / DRAWING No. RLVMMP/WORKS/NCB/PH III/228/B REVISION 00	DESCRIPTION NAME SIGNATURE DRAWN K.M.D. NISHANTHI  DESIGNED R.J.K.P.N. RANATHUNGA  CHECKED I.A.N.D. IDIRIMANNA  RECOMMENDED PROF. S.A.S. KULATHILAKA  APPROVED ENG. (DR.) SANCHITHA JAYAKODY 
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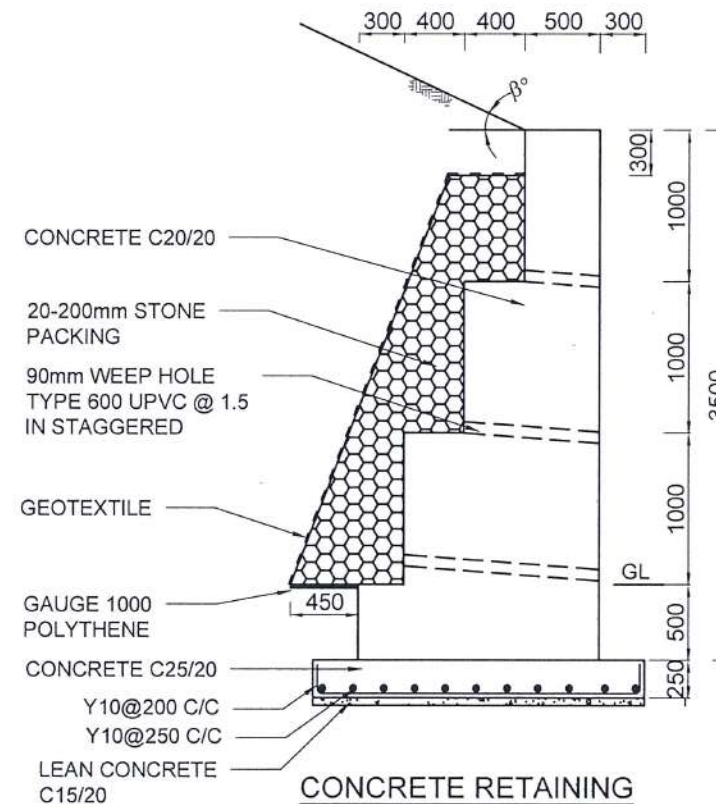
CONCRETE RETAINING
WALL (2m)



FRONT ELEVATION



CONCRETE RETAINING
WALL (2.5m)



CONCRETE RETAINING
WALL (3.5m)

NOTES

- 10mm THICK EXPANSION JOINTS SHOULD BE PROVIDED @ EVERY 5m INTERVALS.
- DOWELS SHALL BE INSTALLED IF HARD ROCK IS ENCOUNTERED AS PER THE ENGINEERS INSTRUCTIONS
- WHERE THE EARTH CUT HEIGHT IS LESS THAN THAT OF THE APPLICABLE TYPICAL WALL, THE HEIGHT OF THE WALL SHOULD BE REDUCED TO FIT THE CUT HEIGHT, FROM ITS BOTTOM END WHILE MAINTAINING THE GIVEN TOP WIDTH.

CONCRETE

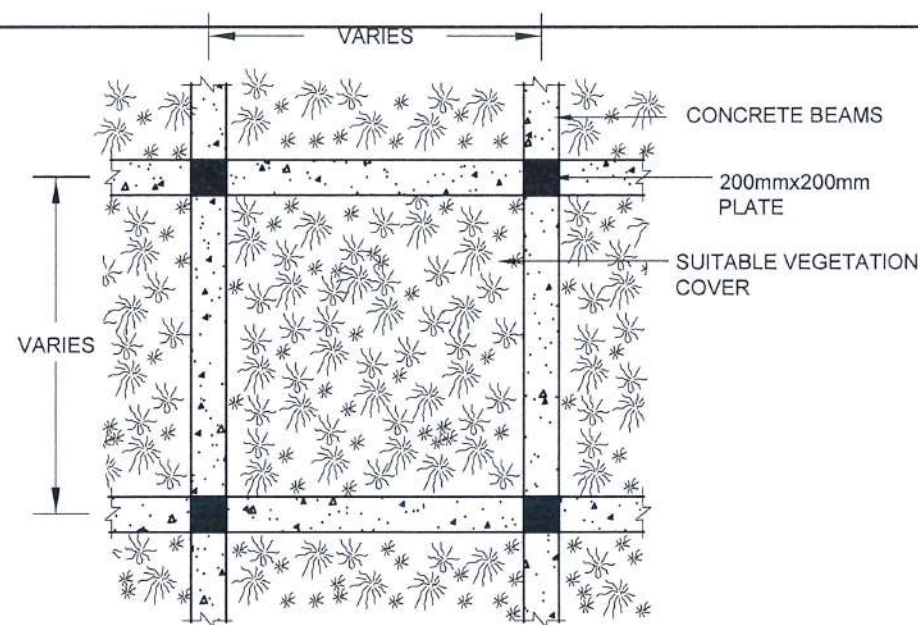
- USE FOLLOWING CONCRETE GRADES FOR STRUCTURE

[a] SCREED	- GR. 15/20
[b] BASE	- GR. 25/20
[c] WALL	- GR. 20/20

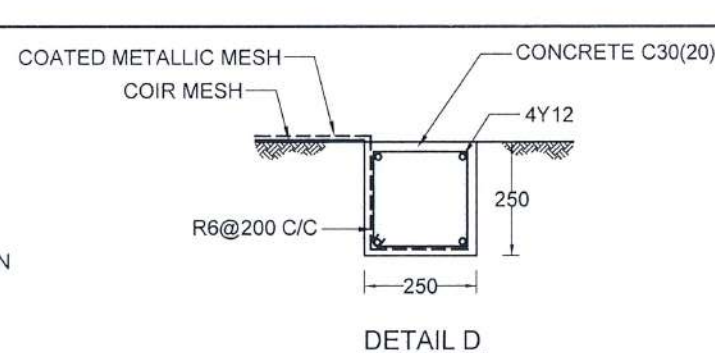
REINFORCEMENT

- ALL BARS MARKED "T" SHALL BE HIGH YIELD DEFORMED BARS OF YIELD STRENGTH NOT LESS THAN 460N/mm².
- BARS OF CUT LENGTH LARGER THAN THE SUPPLIED LENGTH TO BE LAPPED WITH LENGTH OF 50Ø, WHERE Ø IS THE DIAMETER AND LAPPING SHOULD BE STAGGERED.
- ANCHORAGE LENGTH SHOULD BE 40 x BAR DIA.
- CLEAR CONCRETE COVER FOR ALL FOUNDATION REINFORCEMENT BELLOW GROUND LEVEL TO BE 50 mm.

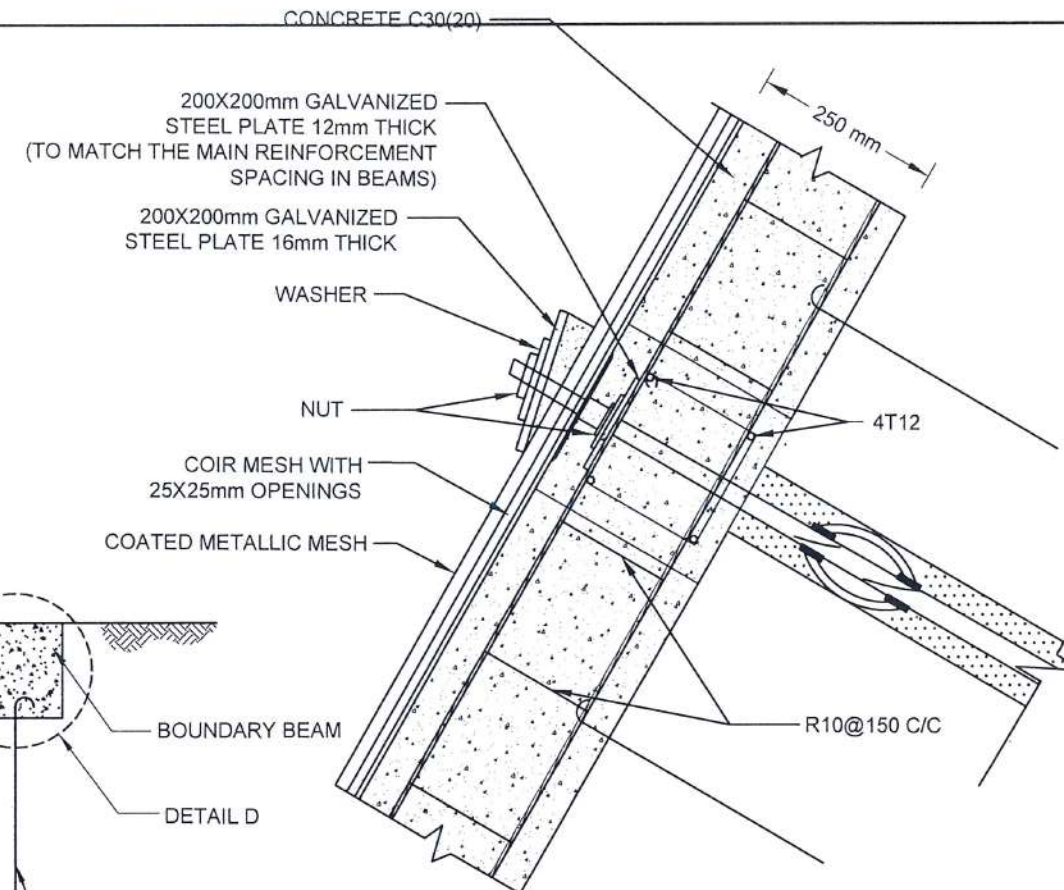
EMPLOYER	DESIGNER	REV	DATE	REVISION DESCRIPTION	APPROVAL	PROJECT TITLE	TITLE	DESCRIPTION	NAME	SIGNATURE
DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05					REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT DHARMARAJA COLLEGE KANDY	DETAILS OF RETAINING WALL	DRAWN	K. M. D. NISHANTHI	
								DESIGNED	R.J.K.P.N. RANATHUNGA	
								CHECKED	I.A.N.D. IDIRIMANNA	
								RECOMMENDED	PROF. S. A. S. KULATHILAKA	
								APPROVED	ENG. (DR.) SANCHITHA JAYAKODY	
								SCALE	N.T.S.	
								DATE	25.05.2026	
								PROJECT / DRAWING No.	RLVMMP/WORKS/NCB/PH III/228/C	
								REVISION	00	



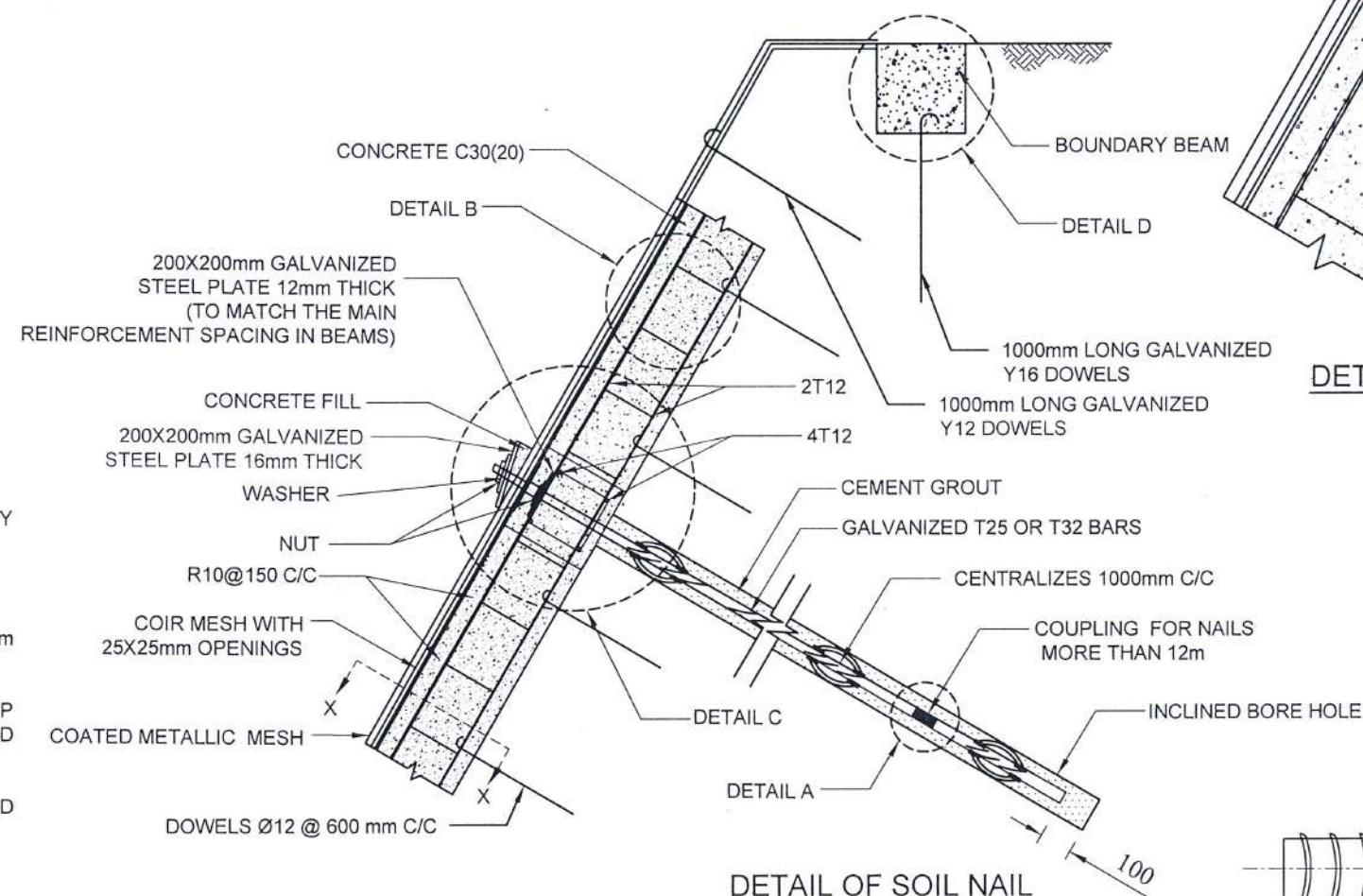
DETAIL - B



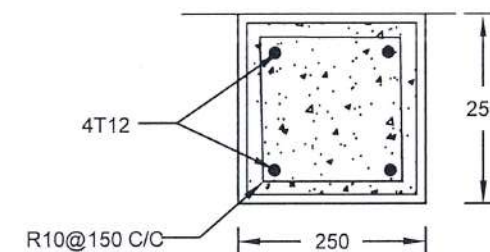
DETAIL D



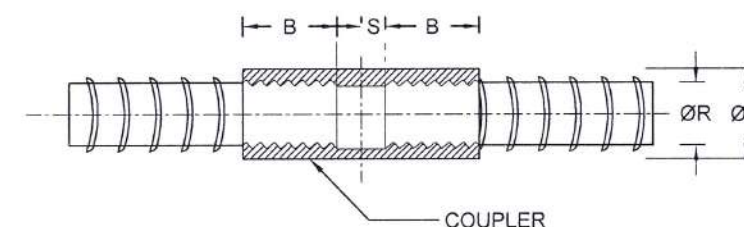
DETAIL C



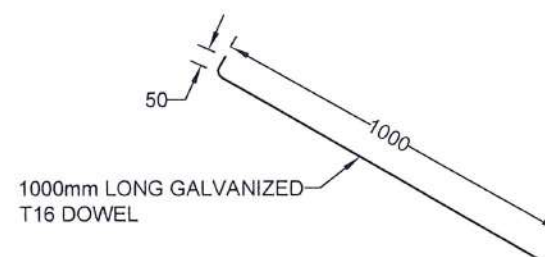
DETAIL OF SOIL NAIL



SECTION X-X



COUPLER DETAILS - A (NAIL LENGTH >12m)



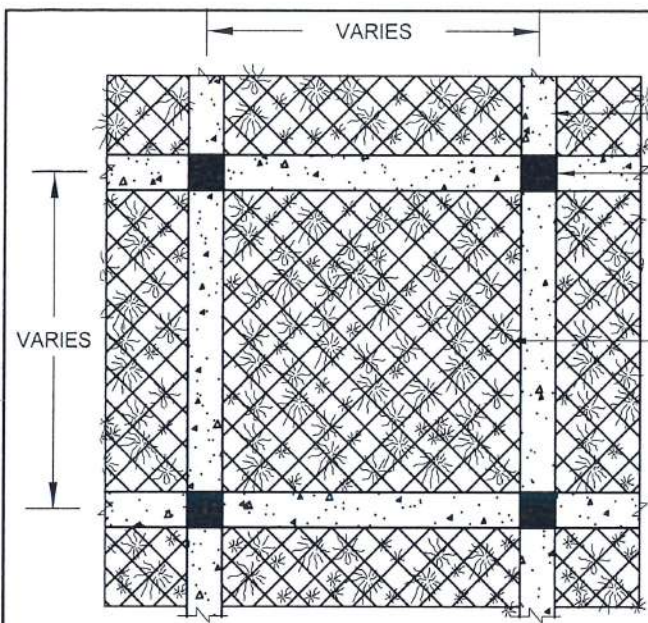
DETAILS OF DOWELS

NOTES

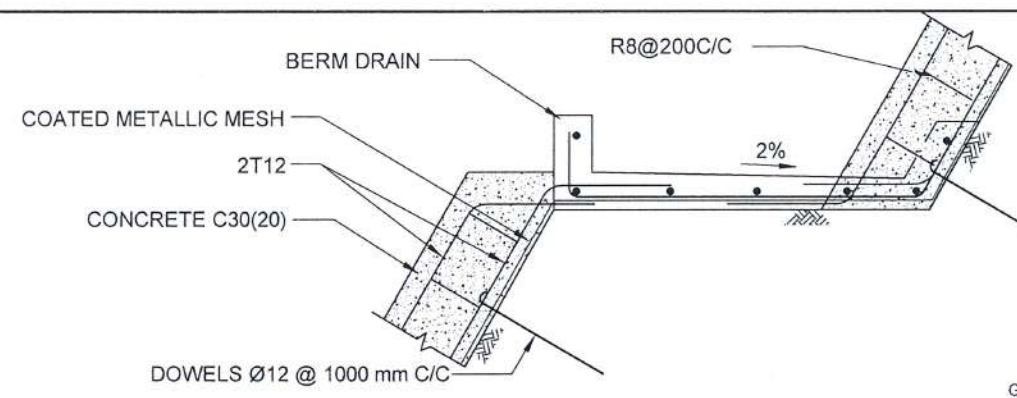
- ALL DIMENSIONS ARE IN MILLIMETERS.
- STRUCTURAL CONC. AS PER SPECIFICATION.
- MINIMUM CLEAR COVER TO R/F - 50mm OR AS SPECIFIED BY THE ENGINEER.
- STRUCTURAL MEMBERS AS PER SPECIFICATION.
- LAP LENGTH FOR R/F BARS 40 x BAR DIA.
- TWO SETS OF 4T12 BARS PLACED PERPENDICULAR TO EACH OTHERS BY CONNECTING NAIL HEADS VERTICALLY AND HORIZONTALLY ON SLOPE FACE.
- TURFING / SODDING / SEEDING / PLANTING USED FOR VEGETATION COVER.
- THE BAR COUPLER SHALL ONLY BE USE FOR SOIL NAILING OF MORE THAN 12m LONG.
- THE TENSILE STRENGTH OF THE BAR COUPLER SHALL BE CAPABLE TO DEVELOP AT LEAST 95% OF TENSILE STRENGTH OF THE REBAR AS TESTED AND CERTIFIED BY THE MANUFACTURE.
- SPACING BETWEEN NAIL HEAD ARE VARIED ACCORDING TO THE GROUND CONDITION.
- DOWEL SPACING FOR BOUNDARY BEAM SHALL BE 2m.
- BOUNDARY BEAM SHALL BE STRUCTURALLY CONNECTED TO ALREADY CONSTRUCTED GRID BEAMS AT EACH JUNCTION.
- MINIMUM OF 2 DOWELS SHALL BE TYPICALLY USED TO FIX THE HIGH TENSILE WIRE MESH AGAINST THE SLOPE AT EACH SLOPE SPACE IN BETWEEN THE GRID BEAMS, AS SHOWN IN THE DRAWING.
- SPACING AND LOCATIONS OF DOWELS INSTALLED TO FIX THE HIGH TENSILE WIRE MESH AGAINST THE SLOPE SHALL BE VARIED ACCORDING TO THE SITE CONDITION.

REINFORCEMENT BAR DIAMETER (ØR)	COUPLER OUTER BAR DIAMETER (ØC)	MIN - THREADED LENGTH OF COUPLER (B)	NON -THREADED LENGTH OF COUPLER (S)
25 mm	36 mm	50 mm	2.5 mm
32 mm	46 mm	64 mm	2.5 mm

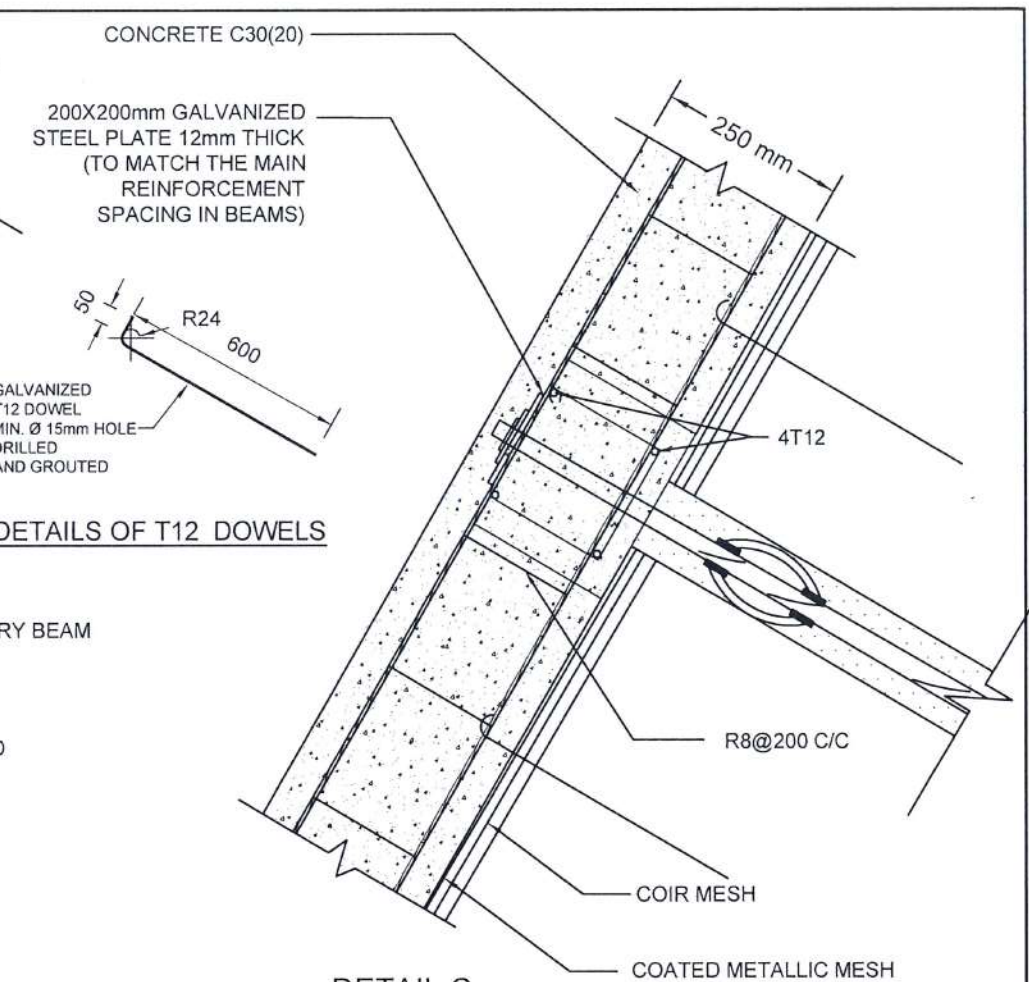
EMPLOYER  DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF DEFENCE NATIONAL BUILDING RESEARCH INSTITUTE NO. 99 /1, JAWATTA ROAD COLOMBO - 05		DESIGNER  DESIGN UNIT NATIONAL BUILDING RESEARCH INSTITUTE No. 99/1, JAWATTA ROAD, COLOMBO - 05	<table><tr><th>REV</th><th>DATE</th><th>REVISION DESCRIPTION</th><th>APPROVAL</th></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>	REV	DATE	REVISION DESCRIPTION	APPROVAL																													PROJECT TITLE REDUCTION OF LANDSLIDE VULNERABILITY BY MITIGATION MEASURES PROJECT DHARMARAJA COLLEGE KANDY	<table><tr><td colspan="2" rowspan="4">TITLE</td><td colspan="2">DETAILS OF SOIL NAILING WITH EMBEDDED GRID BEAM</td></tr><tr><td>SCALE</td><td>N.T.S.</td></tr><tr><td>DATE</td><td>25.052026</td></tr><tr><td colspan="2">PROJECT / DRAWING No. : RLVMMP/WORKS/NCB/PH III/228/D1</td></tr><tr><td colspan="2"></td><td>REVISION</td><td>00</td></tr></table>	TITLE		DETAILS OF SOIL NAILING WITH EMBEDDED GRID BEAM		SCALE	N.T.S.	DATE	25.052026	PROJECT / DRAWING No. : RLVMMP/WORKS/NCB/PH III/228/D1				REVISION	00	<table><tr><th>DESCRIPTION</th><th>NAME</th><th>SIGNATURE</th></tr><tr><td>DRAWN</td><td>K.M.D. NISHANTHI</td><td></td></tr><tr><td>DESIGNED</td><td>R.J.K.P.N. RANATHUNGA</td><td></td></tr><tr><td>CHECKED</td><td>I.A.N.D. IDRIMANNA</td><td></td></tr><tr><td>RECOMMENDED</td><td>PROF. S.A.S. KULATHILAKA</td><td></td></tr><tr><td>APPROVED</td><td>ENG.(DR.) SANCHITHA JAYAKODY</td><td></td></tr></table>	DESCRIPTION	NAME	SIGNATURE	DRAWN	K.M.D. NISHANTHI		DESIGNED	R.J.K.P.N. RANATHUNGA		CHECKED	I.A.N.D. IDRIMANNA		RECOMMENDED	PROF. S.A.S. KULATHILAKA		APPROVED	ENG.(DR.) SANCHITHA JAYAKODY	
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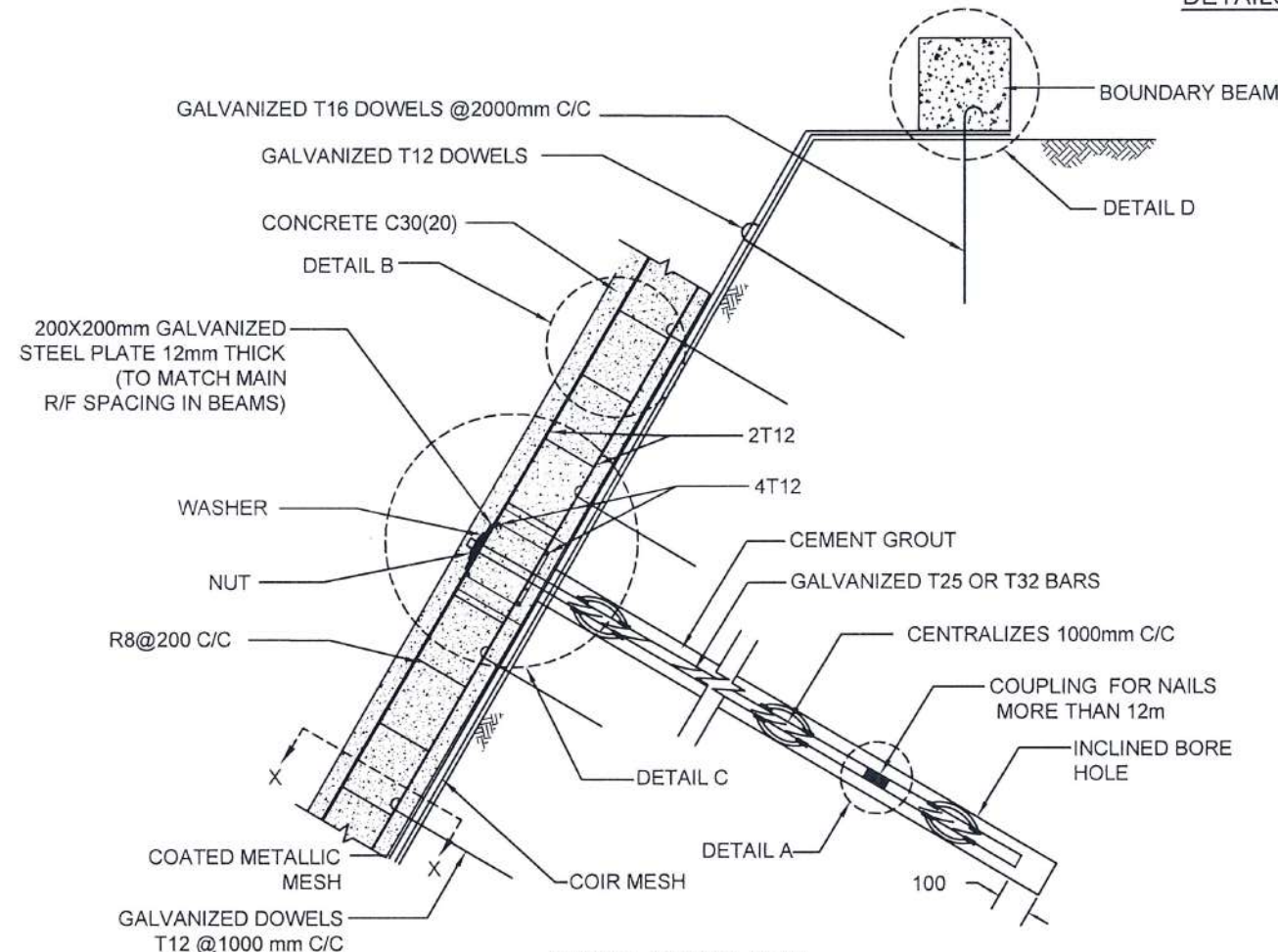
DETAIL - B



DETAIL OF FACING AT BERM

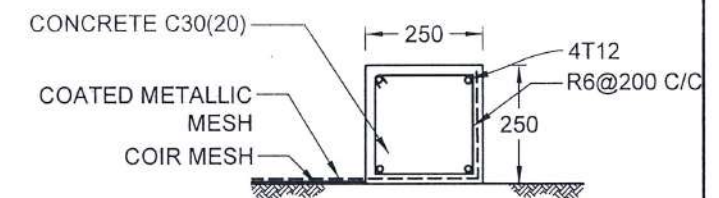


DETAILS OF T12 DOWELS

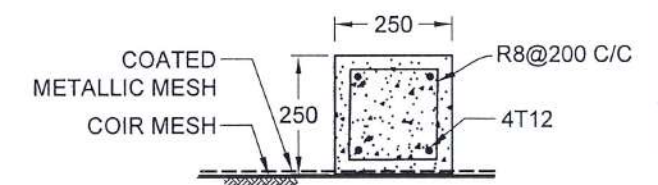


DETAIL OF SOIL NAIL

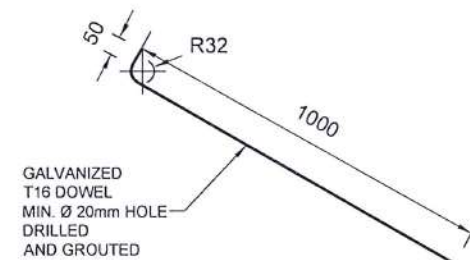
DETAIL C



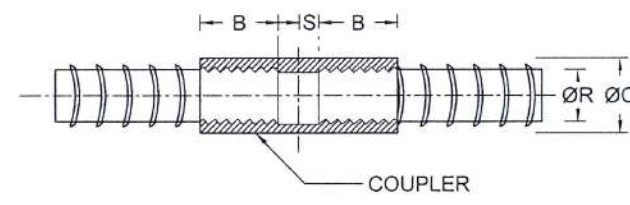
DETAIL D



SECTION X-X



DETAILS OF T16 DOWELS



COUPLER DETAILS - A (NAIL LENGTH >12m)

REINFORCEMENT BAR DIAMETER (ØR)	COUPLER OUTER BAR DIAMETER (ØC)	MIN - THREADED LENGTH OF COUPLER (B)	NON - THREADED LENGTH OF COUPLER (S)
25 mm	36 mm	50 mm	2.5 mm
32 mm	46 mm	64 mm	2.5 mm

NOTES

- ALL DIMENSIONS ARE IN mm.
- ALL CONSTRUCTIONS SHALL BE AS PER SPECIFICATION.
- MINIMUM CLEAR COVER TO R/F - 50mm OR AS SPECIFIED BY THE ENGINEER.
- LAP LENGTH FOR R/F BARS 40 x BAR DIA.
- TURFING / SODDING / SEEDING / PLANTING USED FOR VEGETATION COVER
- THE BAR COUPLER SHALL ONLY BE USE FOR SOIL NAILING OF MORE THAN 12m LONG UNLESS OTHERWISE SPECIFIED
- THE TENSILE STRENGTH OF THE BAR COUPLER SHALL BE CAPABLE TO DEVELOP AT LEAST 95% OF TENSILE STRENGTH OF THE REBAR AS TESTED AND CERTIFIED BY THE MANUFACTURE
- SPACING BETWEEN NAIL HEAD ARE VARIED ACCORDING TO THE GROUND CONDITION
- BOUNDARY BEAM SHALL BE STRUCTURALLY CONNECTED TO ALREADY CONSTRUCTED GRID BEAMS AT EACH JUNCTION
- BOUNDARY BEAM SHALL BE FOUNDED ON SLOPES ≤ 30° AT CROWN AREAS.
- MINIMUM OF 2 DOWELS SHALL BE TYPICALLY USED TO FIX THE COATED METALLIC MESH AGAINST THE SLOPE AT EACH SLOPE SPACE IN BETWEEN THE GRID BEAMS, AS SHOWN IN THE DRAWING
- SPACING AND LOCATIONS OF DOWELS INSTALLED TO FIX THE COATED METALLIC MESH AGAINST THE SLOPE SHALL BE VARIED ACCORDING TO THE SITE CONDITION

EMPLOYER

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DESIGNER

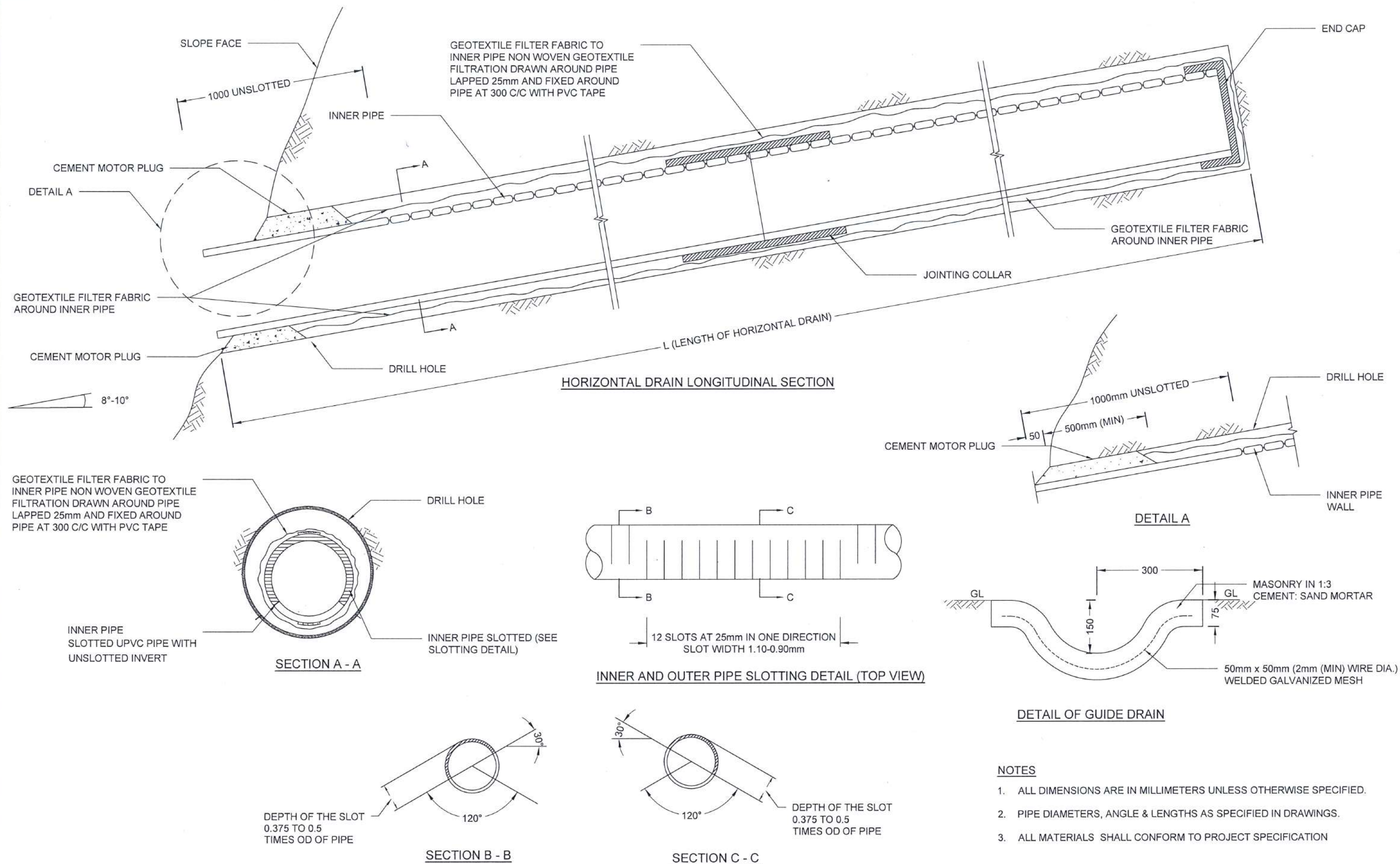
 DESIGN UNIT
 NATIONAL BUILDING RESEARCH INSTITUTE
 No. 99/1, JAWATTA ROAD,
 COLOMBO - 05

REV	DATE	REVISION DESCRIPTION	APPROVAL

PROJECT TITLE
 REDUCTION OF LAND SLIDE VULNERABILITY
 BY MITIGATION MEASURES PROJECT
 DHARMARAJA COLLEGE
 KANDY

TITLE
 DETAILS OF SOIL NAILING WITH
 NON EMBEDDED GRID BEAM
 SCALE: N.T.S. DATE: 25.05.2026
 PROJECT / DRAWING No. RLVMP/WORKS/NCB/PH III/228/D2 REVISION 00

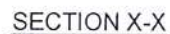
DESCRIPTION	NAME	SIGNATURE
DRAWN	K.M.D. NISHANTHI	
DESIGNED	R.J.K.P.N. RANATHUNGA	
CHECKED	I.A.N.D. IDIRIMANNA	
RECOMMENDED	PROF. S.A.S. KULATHILAKA	
APPROVED	ENG.(DR.) SANCHITHA JAYAKODY	



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. PIPE DIAMETERS, ANGLE & LENGTHS AS SPECIFIED IN DRAWINGS.
3. ALL MATERIALS SHALL CONFORM TO PROJECT SPECIFICATION

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Dim: Height	B_T (mm)	B_B (mm)	X_1 (mm)	X_2 (mm)	t_f (mm)	D_{min} (mm)	n_1	n_2
2m	300	800	200	100	200	600	0.30	0.20
3m	300	900	200	100	200	600	0.30	0.20
4m	400	1100	200	100	250	800	0.30	0.20
5m	400	1400	200	100	250	1000	0.40	0.27
6m	500	1700	250	150	300	1200	0.40	0.27
7m	500	2000	300	200	300	1400	0.50	0.38

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. RETAINING WALL TYPE SHALL BE DECIDED ACCORDING TO THE ACTUAL SITE CONDITION.
3. SLOPE SHALL BE ABLE TO STAND ON ITS OWN UNTIL THE WALL IS MADE. NOT SUITABLE FOR COLLAPSING SOILS.
4. WHERE THE EARTH CUT HEIGHT IS LESS THAN THAT OF THE APPLICABLE TYPICAL WALL, THE HEIGHT OF THE WALL SHOULD BE REDUCED TO FIT THE CUT HEIGHT, FROM ITS BOTTOM END WHILE MAINTAINING THE GIVEN TOP WIDTH.
5. BACK SLOPE ANGLE, LEVEL AND FROM MAY VARY AS PER THE DESIGN AT EACH SITE.
6. ALLOWABLE BEARING CAPACITY SHALL BE 150kN/m^2 FOR 2-4m HIGH WALLS AND 200kN/m^2 FOR 5-7m HIGH WALL.
7. DOWELS SHALL BE INSTALLED IF HARD ROCK IS ENCOUNTERED AS PER THE ENGINEERS INSTRUCTIONS.
8. 10mm THICK EXPANSION JOINTS SHOULD BE PROVIDED AT EVERY 5m INTERVALS WITH APPROVED MATERIAL.
9. WEEP HOLES TO BE PROVIDED AT 1.5m C/C (HORIZONTALLY) STAGGERED USING 90mm DIA UPVC PIPES (TYPE 600) WITH A MINIMUM SLOPE OF 1: 20 TO ALLOW PROPER DRAINAGE.

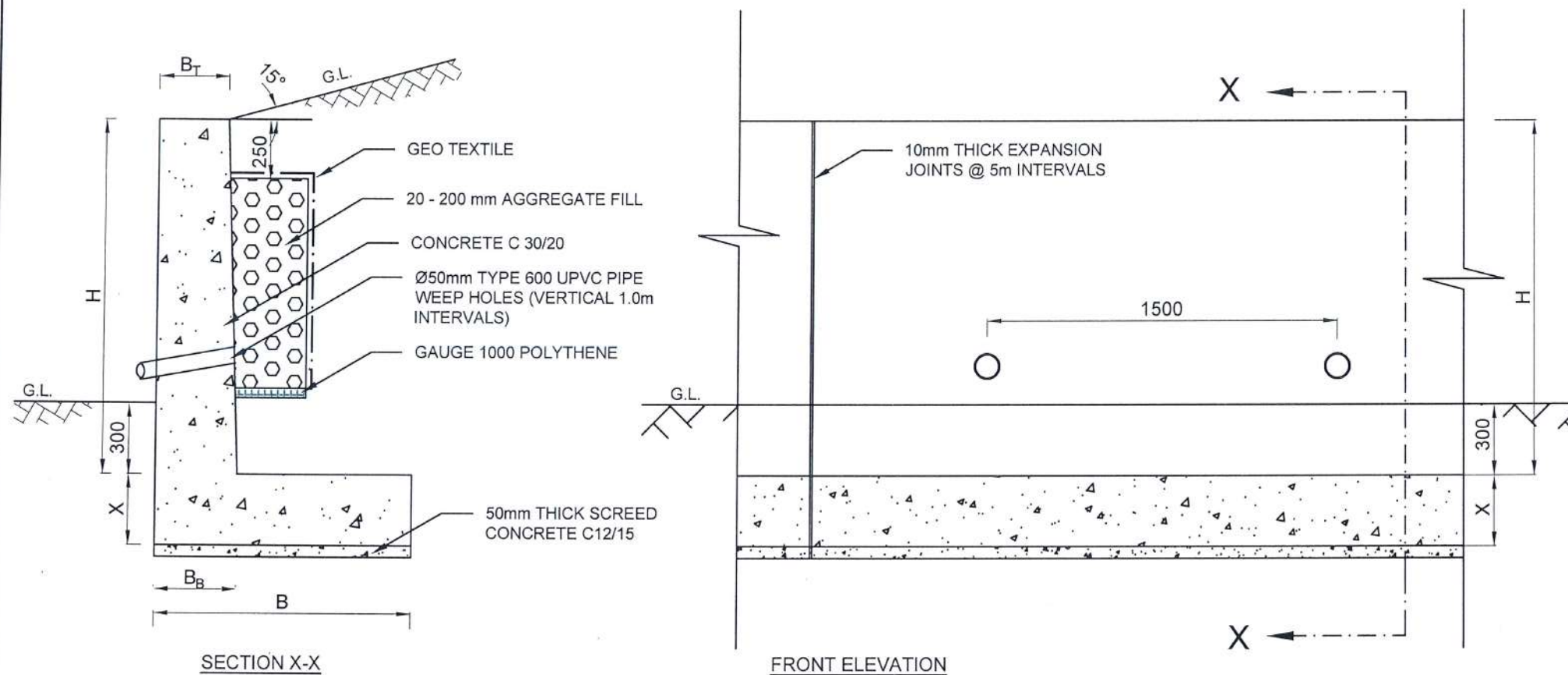
CONCRETE

10. THE FOLLOWING CONCRETE GRADES SHOULD BE USED FOR STRUCTURES
- | | |
|---------------------|-------------|
| (a) SCREED CONCRETE | - C. 15(20) |
| (b) WALL | - C. 15(40) |
| (c) BASE | - C. 30(20) |

REINFORCEMENT

12. HIGH YIELD REINFORCEMENT BARS DENOTED BY "T" SHALL CONFORM TO THE REQUIREMENTS OF TYPE 2 OF BS 4449 AND HAVE A CHARACTERISTIC TENSILE STRENGTH OF 460N/mm²
13. CLEAR CONCRETE COVER FOR ALL REINFORCEMENT TO BE 50 mm.
14. REINFORCEMENT BARS SHALL BE BENT IN ACCORDANCE WITH STANDARD SPECIFICATIONS.
15. BARS OF CUT LENGTH LARGER THAN THE SUPPLIED LENGTH TO BE LAPPED FOR A LENGTH OF 40x BAR DIA. AND LAPPING SHOULD BE STAGGERED.
10. ANCHORAGE LENGTH SHOULD BE 40 x BAR DIA.

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								DRAWN	K. M. D. NISHANTHI	
								DESIGNED	R. J. K. P. N. RANATHUNGA	
								CHECKED	I. A. N. D. IDRIMANNA	
								RECOMMENDED	PROF. S. A. S. KULATHILAKA	
		SCALE	NTS	DATE	14.05.2026		APPROVED	ENG. (DR.) SANCHITHA JAYAKODY		
		PROJECT / DRAWING No.					REVISION			
		PI VMMRM/WORKS/NCB/PH III/228/E					00			



NOTES

1. ALL DIMENSION ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. AGGREGATE BACKFILL AND GEO-TEXTILE SHOULD BE CONFORMED TO THE SPECIFICATIONS PROVIDED.
3. HEIGHT OF THE WALL SHALL BE SELECTED CONFORMING TO THE CUT HEIGHT OF THE LOCATION AS PER THE INSTRUCTIONS GIVEN BY ENGINEER.
4. TEMPORARY SHORING WILL BE NEEDED DURING THE EXCAVATION FOR THE RETAINING WALLS.
5. WALL HEIGHTS SHOULD BE SELECTED TO BE SUITED TO THE CUT HEIGHT AT THE SITE BASED ON THE ACTUAL SITE CONDITION AS PER THE ENGINEERS INSTRUCTIONS.
6. DEPTH OF EXCAVATION MAY VARY ACCORDING TO SITE CONDITIONS.
7. ALLOWABLE BEARING CAPACITY SHALL BE 150 kN/m².
8. THE SOIL PROVIDING PASSIVE RESISTANCE AT THE TOE SHALL BE MAINTAINED AT ALL TIMES. ANY ACCIDENTAL EXCAVATION OR REMOVAL OF THIS SOIL WILL ADVERSELY AFFECT WALL STABILITY AND SHALL NOT BE PERMITTED.
9. THE FOUNDATION LEVEL SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO PLACING CONCRETE.
10. DOWELS SHALL BE INSTALLED IF HARD ROCK IS ENCOUNTERED AS PER THE ENGINEERS INSTRUCTIONS.
11. 10mm THICK EXPANSION JOINTS SHOULD BE PROVIDED AT EVERY 5m INTERVALS WITH APPROVED MATERIAL.
12. 50mm DIAMETER WEEP HOLES SHOULD BE PROVIDED AS GIVEN IN THE DRAWING AND SHOULD BE STAGGERED TO A MINIMUM SLOPE OF 1: 20.

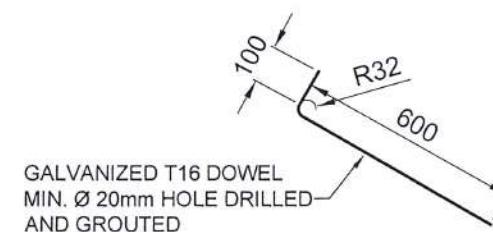
CONCRETE

13. THE FOLLOWING CONCRETE GRADES SHOULD BE USED FOR STRUCTURES

(a) SCREED CONCRETE	- C. 15(20)
(b) BASE/WALL	- C. 30(20)

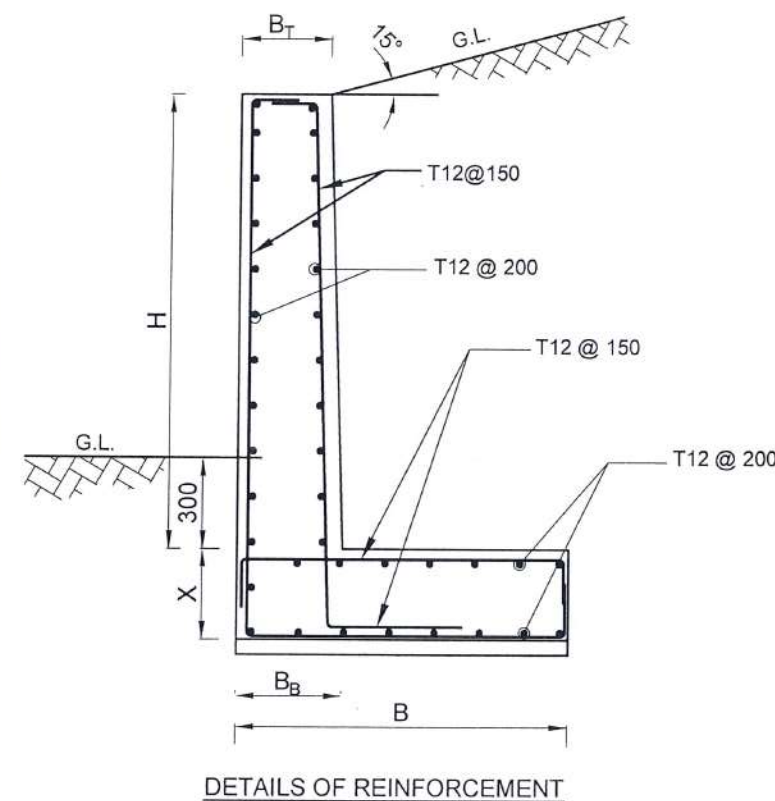
REINFORCEMENT

14. HIGH YIELD REINFORCEMENT BARS DENOTED BY 'T' SHALL CONFORM TO THE REQUIREMENTS OF TYPE 2 OF BS 4449 AND HAVE A CHARACTERISTIC TENSILE STRENGTH OF 460N/mm².
15. MINIMUM COVER FOR THE REINFORCEMENT SHOULD BE 50mm.
16. REINFORCEMENT BARS SHALL BE BENT IN ACCORDANCE WITH STANDARD SPECIFICATIONS.
17. BARS OF CUT LENGTH LARGER THAN THE SUPPLIED LENGTH TO BE LAPPED FOR A LENGTH OF 40 x BAR DIA. AND LAPPING SHOULD BE STAGGERED.
18. ANCHORAGE LENGTH SHOULD BE 40 x BAR DIA.



DETAILS OF T12 DOWELS

DIM.	B _T (mm)	B _B (mm)	B (mm)	H (mm)	X (mm)
HEIGHT					
1.5 m	300	350	1100	1500	300
2.0 m	300	450	1450	2000	300
2.5 m	350	500	2200	2500	300
3.0 m	350	500	2500	3000	300



DETAILS OF REINFORCEMENT

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