

TOPSOIL STORAGE AREAS (SCALE: 1:2000)

**KEY:**

	CUT SLOPE (GRADIENT VARIES)		FILL SLOPE (GENERALLY 1:2 GRADIENT)		PLANNING BOUNDARY (20.645 Ha)
	0-0.5m TOPSOIL FILL				
	0.5-1.0m TOPSOIL FILL				
	1.0-1.5m TOPSOIL FILL				
	1.5-2.0m TOPSOIL FILL				
	2.0-2.5m TOPSOIL FILL				
	2.5-3.0m TOPSOIL FILL				

**NOTES:**

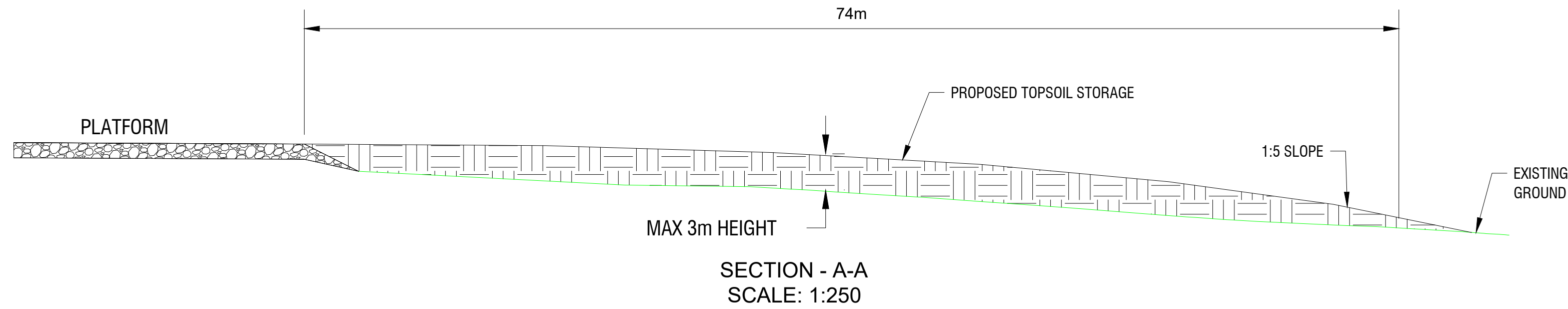
- TOPSOIL TO BE STORED IN AREAS SHOWN ON PLAN, NO HIGHER THAN 3m IN ANY LOCATION.
- 0.3m-THICK LAYER OF TOPSOIL TO BE LAID ON TOP OF GRANULAR CUT & FILL SLOPES.
- REFER TO EARTHWORKS SPECIFICATION FOR FURTHER DETAILS IN RELATION TO TOPSOIL STORAGE.

APPROXIMATE TOTAL TOPSOIL TO BE STORED WITHIN STORAGE AREAS & ON GRANULAR CUT/FILL SLOPES = **26,820m<sup>3</sup>**

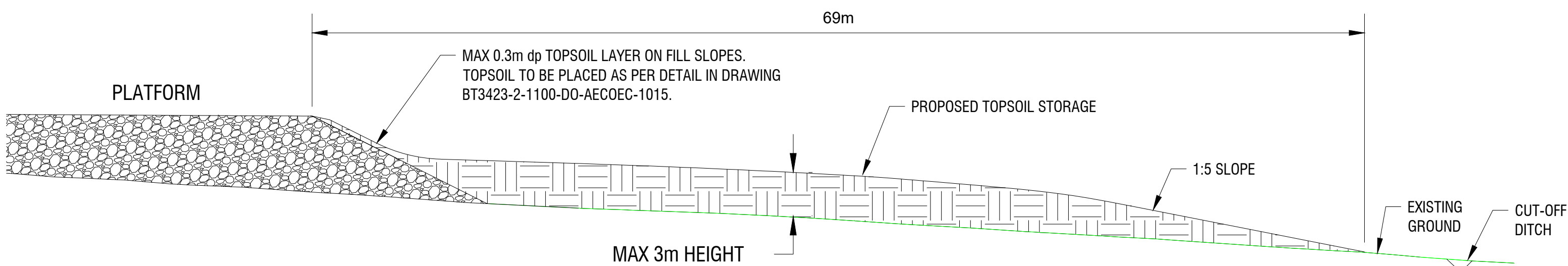
**HEALTH, SAFETY & ENVIRONMENTAL INFORMATION**

IN ADDITION TO THE HAZARDS/RISKS TYPICALLY ASSOCIATED WITH THE WORKS SHOWN ON THESE DRAWINGS, THE FOLLOWING HAZARDS HAVE BEEN IDENTIFIED AS REQUIRING PARTICULAR CONSIDERATION

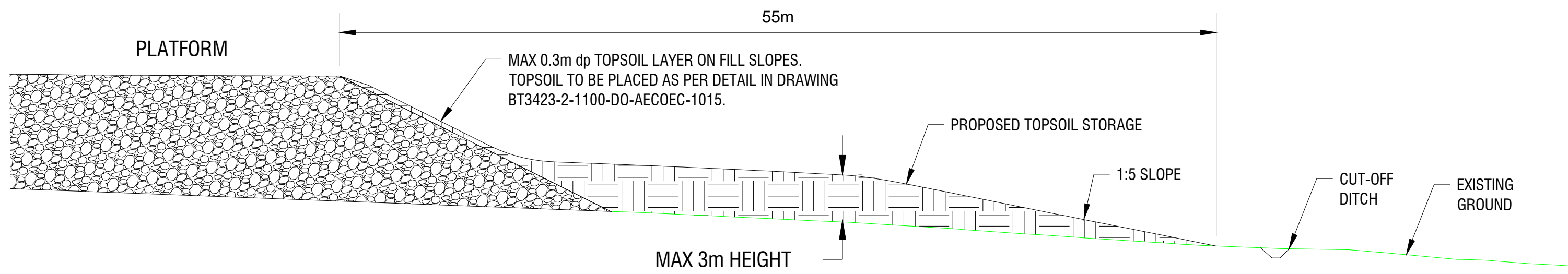
- WORKS TO BE CARRIED OUT ADJACENT TO A HIGH VOLTAGE ENVIRONMENT. ALL WORKS TO PROCEED IN ACCORDANCE WITH HSG 47 (UNDERGROUND CABLES) & 'GSR' (OVERHEAD LINES) & SCOTTISH POWER ELECTRICAL & MECHANICAL SAFETY RULES HANDBOOK 5th EDITION. TREAT ALL CABLES AS LIVE UNTIL PROVEN OTHERWISE. LOCATION OF THE KNOWN EXISTING SERVICES IS SHOWN FROM EXISTING INFORMATION AND GPR SURVEY RECORDS AND IS THEREFORE INDICATIVE ONLY. CARE IS REQUIRED SINCE UNKNOWN SERVICES MAY EXIST. THE ACTUAL LOCATION OF THE SERVICES SHOULD BE CONFIRMED BY THE CONTRACTOR AS PER SCOTTISH WATER REQUIREMENTS (i.e. USE OF SW APPROVED CONTRACTORS).
- PARTICULAR CARE IS REQUIRED WHEN WORKING AROUND THE 2 No EXISTING SCOTTISH WATER PIPES RUNNING WITHIN THE FIELD PARALLEL TO B7076. CONTRACTOR TO FOLLOW AND ADHERE TO APPROPRIATE SCOTTISH WATER DONS PROCEDURES IN PLACE FOR THE SCHEME AT ALL TIMES. LOCATION OF SW ASSETS IS SHOWN BASED ON EXISTING INFORMATION AND GPR SURVEY RECORDS AND IS THEREFORE INDICATIVE ONLY. THE ACTUAL LOCATION OF THE PIPES SHOULD BE CONFIRMED BY THE CONTRACTOR AS PER SCOTTISH WATER REQUIREMENTS (i.e. USE OF SW APPROVED CONTRACTORS).
- EXCAVATIONS SHOULD BE ADEQUATELY SUPPORTED AND PROTECTED DURING CONSTRUCTION. EXCAVATION MAY BE REQUIRED BENEATH GROUND WATER LEVEL. THE CONTRACTOR SHOULD DEVELOP APPROPRIATE MITIGATION SUCH AS SUMP AND PUMP AS WHEN REQUIRED.
- STEEP GROUND - CARE TO BE TAKEN WHEN MOVING AND OPERATING MACHINERY. ALL VEHICLES AND MACHINERY TO BE APPROPRIATE FOR THE CONDITIONS.
- SURFACE WATER SHOULD BE MANAGED AT THE SITE DURING THE EXCAVATION PROCESS EITHER WITH THE INSTALLATION OF THE PERMANENT OR TEMPORARY DRAINAGE SYSTEM TO HELP PREVENT SLIPPAGE IN THE SLOPE AND TO MAXIMISE THE MATERIAL FOR REUSE.
- CARE SHOULD BE TAKEN TO PREVENT ANY CONTAMINATION OR SILT RUN-OFF FROM ENTERING ANY ADJACENT WATERCOURSES OR DRAINAGE SYSTEMS. 10m BUFFER SHALL BE LEFT TO EXISTING WATERCOURSES AT ALL TIMES.
- CARE SHOULD BE TAKEN WHEN WORKING ADJACENT TO EXISTING EQUIPMENT/STRUCTURES TO PREVENT ANY DE-STABILISATION OF FOUNDATIONS/STRUCTURES BY CONSTRUCTION, EXCAVATION OR EQUIPMENT MOVEMENT.
- LOCATIONS FOR STORAGE OF EXCAVATED MATERIAL TO BE REVIEWED BY CONTRACTOR FOR SLOPE STABILITY AND AGREED WITH THE SPEN CONSTRUCTION MANAGER.



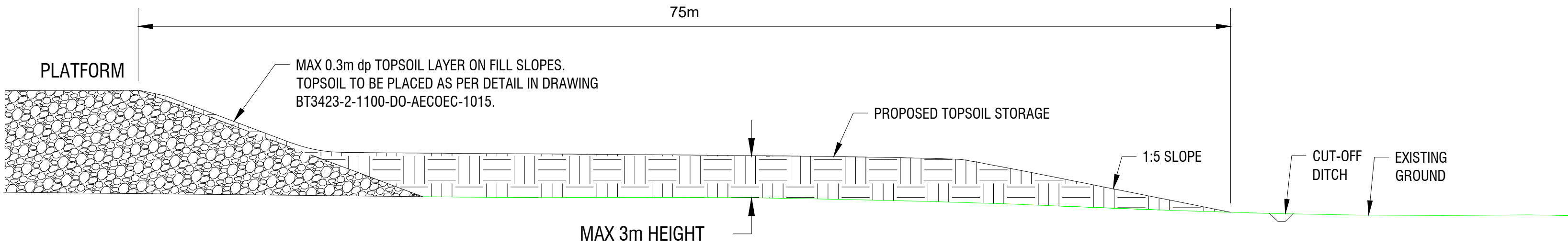
SECTION - A-A  
SCALE: 1:250



SECTION - B-B  
SCALE: 1:250



SECTION - C-C  
SCALE: 1:250



SECTION - D-D  
SCALE: 1:250

**REFERENCE DRAWINGS:**

FOR SITE CLEARANCE, REFER DRAWING BT3423-2-1100-DO-AECOEC-1003.  
FOR CROSS-SECTIONS THROUGH PROPOSED PLATFORM, REFER DRAWING BT3423-2-1100-DO-AECOEC-1011.  
FOR TYPICAL PLATFORM CONSTRUCTION DETAILS, REFER DRAWING BT3423-2-1100-DO-AECOEC-1015.  
FOR SUBSTATION ACCESS ROAD, REFER DRAWING BT3423-2-1100-DO-AECOEC-1020.  
FOR PROTECTION OF SCOTTISH WATER PIPES, REFER DRAWING BT3423-2-1100-DO-AECOEC-1030.  
FOR INDICATIVE CUT & FILL DEPTHS, REFER DRAWING BT3423-2-1100-DO-AECOEC-1040.  
FOR PROPOSED DRAINAGE LAYOUT, REFER DRAWING BT3423-2-1100-DO-AECOEC-1050.  
FOR TEMPORARY CONTRACTORS COMPOUND, REFER DRAWING BT3423-2-1100-DO-AECOEC-1060.

**NOTES:**

SUBSTATION ELECTRICAL LAYOUT BASED ON SPEN DRAWING BT3423-2-00JA-DA-SPTK-1111 Rev.0M, December 2024  
TOPOGRAPHIC SURVEY CARRIED OUT BY L&M SURVEYS, January 2024.

OC	28.02.25	JM	EP	RQ	TENDER DESIGN REISSUE
OB	21.02.25	JM	EP	RQ	TENDER DESIGN REISSUE
OA	19.12.24	JM	EP	RQ	TENDER DESIGN ISSUE
Rev.	Date	Drawn	Reviewed	Approved	Reason / Description of changes.
<div><div></div><div><div>FOR INFORMATION</div><div>Status Stamp:</div></div></div>					
Project: REDSHAW 400/132kV SUBSTATION ENABLING WORKS					
Location: REDSHAW					
Org. Title: PROPOSED SOIL STORAGE AREAS					
Drawn: JM, Rev'd: EP, App'd: RQ					
Org. No.: BT3423-2-1100-DO-AECOEC-1080, SPEN Ref. No.: ###					
Sheet: 0C, Next: As shown, Scale: As shown, Size: A1					
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