

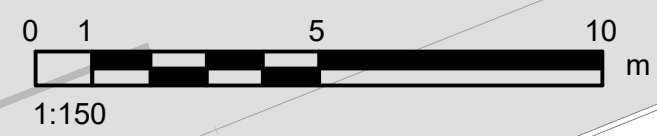
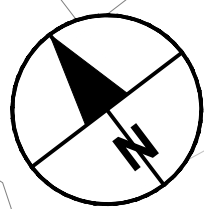
BELLMOUTH SETTING OUT COORDINATES				
POINTS	EASTING	NORTHING	LEVEL	NOTES
01	287299.32	627129.67	278.74m	END OF 30m RADIUS CURVE
02	287324.168	627133.254	278.57m	MID POINT OF 30m RADIUS CURVE
03	287337.592	627154.469	282.36m	END OF 30m RADIUS CURVE
04	287337.771	627155.813	282.56m	ENTRANCE GATE
05	287343.223	627155.086	282.45m	ENTRANCE GATE
06	287341.393	627141.352	280.36m	END OF 30m RADIUS CURVE
07	287345.43	627121.916	278.21m	MID POINT OF 30m RADIUS CURVE
08	287360.719	627109.255	278.08m	END OF 30m RADIUS CURVE
09	287330.188	627119.942	278.41m	CENTERLINE OF ROAD

NOTES:

- ALL DIMENSIONS AND LEVELS ARE IN METRES UNLESS OTHERWISE NOTED.
- DIMENSIONS SHALL NOT BE SCALED FROM THIS DRAWING.
- INFORMATION REGARDING THE LOCATION AND DEPTH OF EXISTING SERVICES ARE BASED ON EXISTING INFORMATION AND ARE INDICATIVE ONLY. THE CONTRACTOR SHALL CARRY OUT ADEQUATE SURVEYS OF EXISTING CABLES AND HAND DIG TRIAL PITS AS NECESSARY.
- THE CONTRACTOR SHALL TAKE SPECIAL CARE WITH EXISTING SERVICES BOTH SURFACE AND UNDERGROUND, IN THE WORK AREA. IF IT IS NECESSARY TRIAL PITS WILL BE DUG TO VERIFY THE LOCATION OF SERVICES IN ACCORDANCE WITH SP SAFETY RULES & HSG47.
- IF DURING EXCAVATION THE CONTRACTOR DISCOVERS ANY STRUCTURES OR SERVICES ON SITE WHICH ARE NOT SHOWN ON THE DRAWINGS, HE SHALL IMMEDIATELY INFORM THE SP ENERGY NETWORKS SITE SUPERVISOR, WHO SHALL DECIDE WHAT ACTION TO TAKE AS DEFINED IN NGTS 3.10.03 THIS IS A HOLD POINT.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE BASIS OF DESIGN REPORT, EARTHWORKS SPECIFICATION AND ALL OTHER RELEVANT DOCUMENTATION, DRAWINGS AND STANDARD DETAILS.
- CONTRACTOR IS RESPONSIBLE FOR SUBMITTING AN EARTHWORKS PLAN FOR THE PROPOSED WORKS AND SHOULD INCLUDE METHODOLOGY FOR STORING AND REMOVAL FROM SITE OF EXCAVATED MATERIAL.
- STRIPPING AND STORAGE OF TOPSOIL AND SUBSOIL SHALL BE UNDERTAKEN BY THE CONTRACTOR IN ACCORDANCE WITH BS4428. STRICT PRECAUTIONS SHALL BE TAKEN TO PREVENT THE MIXING OF TOPSOIL AND SUBSOIL.
- TOPSOIL MUST BE STORED IN HEAPS NOT EXCEEDING 1.5M IN HEIGHT AND 3.0M WIDTH. PREVENT COMPACTION AND CONTAMINATION OF STORAGE HEAPS BY FENCING AND COVERING AS APPROPRIATE.
- ALL EARTHWORKS SHALL BE IN ACCORDANCE WITH SP ENERGY NETWORKS' ENGINEERING SPECIFICATION AND DRAWINGS.
- THE CONTRACTOR SHALL AVOID MULTIPLE HANDLING OF EXCAVATED MATERIALS WHERE POSSIBLE.
- LEVEL INFORMATION FOR GROUND CONDITIONS ARE EXTRAPOLATED BETWEEN LIMITED AVAILABLE EXPLORATORY HOLES TO COVER THE SITE AREA. ACTUAL GROUND CONDITIONS MAY VARY LOCALLY AND MAY BE DIFFERENT TO THAT IS SHOWN ON THE SECTIONS. DURING CONSTRUCTION THE CONTRACTOR SHOULD CONSTRUCT THE SLOPES BASED ON THE MATERIAL ENCOUNTERED FOLLOWING THE METHODOLOGY OF THE DESIGN DRAWINGS.
- TEMPORARY CONTRACTOR'S COMPOUND DRAINAGE INFRASTRUCTURE SHOWN IS INDICATIVE ONLY. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION DRAINAGE PLAN TO SP ENERGY NETWORKS FOR APPROVAL PRIOR TO COMMENCEMENT OF WORKS.
- WHERE CONSTRUCTION RUN OFF IS DISCHARGED TO GROUND OR WATERCOURSE THE NECESSARY PERMITS SHALL BE OBTAINED AND CARRIED OUT IN ACCORDANCE WITH SEPA BEST PRACTICE. CONTRACTOR SHALL PROTECT EXISTING SERVICES AND SCOTTSWATER ASSETS AT ALL PROPOSED CROSSING POINTS AS PART OF THEIR TEMPORARY WORKS. CROSSINGS OF EXISTING SERVICES SHALL BE KEPT TO THE MINIMUM REQUIRED.
- CONFLICTING INFORMATION SHOWN ON THE DESIGNERS DRAWINGS OR DISCREPANCIES BETWEEN THE INFORMATION GIVEN BY THE SP ENERGY NETWORKS ENGINEER AND THAT PROVIDED BY OTHERS MUST BE REFERRED TO THE SP ENERGY NETWORKS ENGINEER BEFORE THE WORKS COMMENCE.
- TEMPORARY WORKS DESIGN ASSOCIATED WITH THE CONSTRUCTION OF THE WORKS SHALL BE RESPONSIBILITY OF THE CONTRACTOR.
- THE PROPOSED TEMPORARY ROAD ALIGNMENT AND ASSOCIATED CONSTRUCTION DETAILS ARE PROVIDED AS A PRELIMINARY DESIGN DUE TO THE SITE CONSTRAINTS AND SERVICES IN THE AREA. THIS DESIGN SHALL BE ASSESSED AND INVESTIGATED BY THE CONTRACTOR AS PART OF THEIR TEMPORARY WORKS DESIGN AND CONSTRUCTION WORKS MANAGEMENT RESPONSIBILITIES.
- MINIMUM EXCAVATION LEVEL TO EARTHWORKS FORMATION LEVEL TO BE 370 mm BELOW EXISTING GROUND LEVEL. EXCAVATION TO THE EARTHWORKS FORMATION LEVEL TO FOLLOW EXISTING TOPOGRAPHY.
- EXISTING SERVICES SHALL BE SPLIT DUCTED ( IF NOT ALREADY IN DUCTS OR A PIPE IN PLACE) UNDER HARDSTANDING OR TRAFFICKED AREAS. THEY ALSO SHALL BE ENCASED IN (MIN. 150 MM) C32/40 CONCRETE FOR THE LENGTH UNDER THE HARDSTANDING/TRAFFICKED AREA PLUS AN ADDITIONAL 1.5M EITHER SIDE.

HEALTH, SAFETY & ENVIRONMENTAL INFORMATION

- IN ADDITION TO THE HAZARD 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) & 'VSE' (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. PARTICULAR CARE IS REQUIRED WHILE WORKING IN THE SURROUNDING AREA TO THE EXISTING 40kV ZV ON ROUTE.
  - PARTICULAR CARE IS REQUIRED WHEN WORKING AROUND THE 2 No EXISTING SCOTTISH WATER PIPES RUNNING WITHIN THE FIELD PARALLEL TO B7078. CONTRACTOR TO FOLLOW AND ADHERE TO APPROPRIATE SCOTTISH WATER DOMS 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 CONTRACTOR).
  - 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 SURFACE 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.




REFERENCE DRAWINGS:

FOR LONGITUDINAL SECTIONS, REFER DRAWING BT3423-2-1100-DO-AECOEC-1021.  
FOR CROSS-SECTIONS, REFER DRAWING BT3423-2-1100-DO-AECOEC-1022.  
FOR ROAD CONSTRUCTION DETAILS, REFER DRAWING BT3423-2-1100-DO-AECOEC-1024.  
FOR EARTHWORKS SPECIFICATION, REFER BT3423-2-1100-ST-AECOEC-0006.

NOTES:

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OG	28.02.25	JM	EP	RQ	TENDER DESIGN REISSUE
OF	21.02.25	JM	EP	RQ	TENDER DESIGN REISSUE
OE	30.12.24	EP	JM	RQ	TENDER DESIGN ISSUE
OD	06.11.24	GM	EP	RQ	OUTLINE DESIGN ISSUE
OC	30.10.24	JM	EP	RQ	OUTLINE DESIGN ISSUE
OB	03.10.24	EP	JM	RQ	OUTLINE DESIGN ISSUE
-	18.09.24	EP	JM	RQ	OUTLINE DESIGN ISSUE
Rev.	Date	Drawn	Reviewed	Approved	Reason / Description of changes.
<div><div><div>FOR INFORMATION</div></div></div>					Project:  REDSHAW 400/132kV SUBSTATION ENABLING WORKS
<div><div>Drawn</div><div>Rev'd</div><div>App'd</div></div>					
<div><div>Drawn</div><div>Rev'd</div><div>App'd</div></div>					Location:  REDSHAW
<div><div>Drawn</div><div>Rev'd</div><div>App'd</div></div>					Org. Title:  SUBSTATION ACCESS ROAD JUNCTION LAYOUT
<div><div>Drawn</div><div>Rev'd</div><div>App'd</div></div>					Org. No.: BT3423-2-1100-DO-AECOEC-1026
<div><div>Drawn</div><div>Rev'd</div><div>App'd</div></div>					Sheet: Next:
<div><div>Drawn</div><div>Rev'd</div><div>App'd</div></div>					Scale: 1:150

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