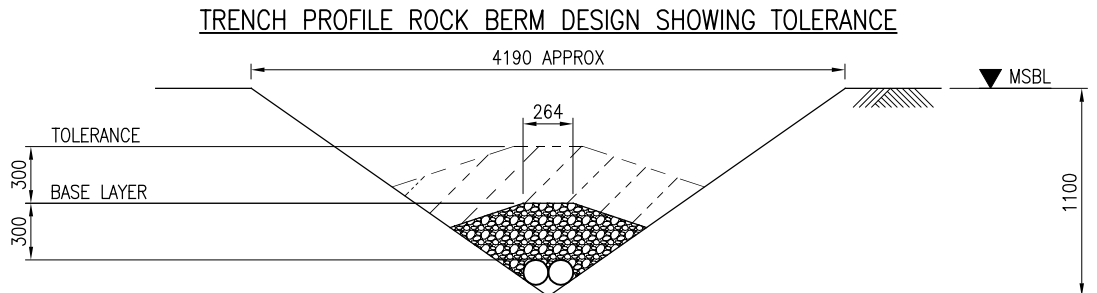
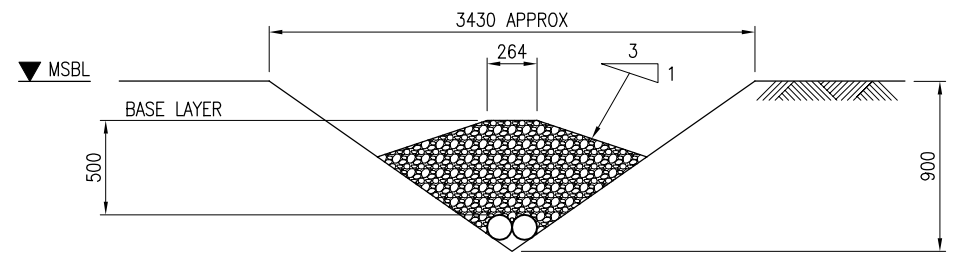


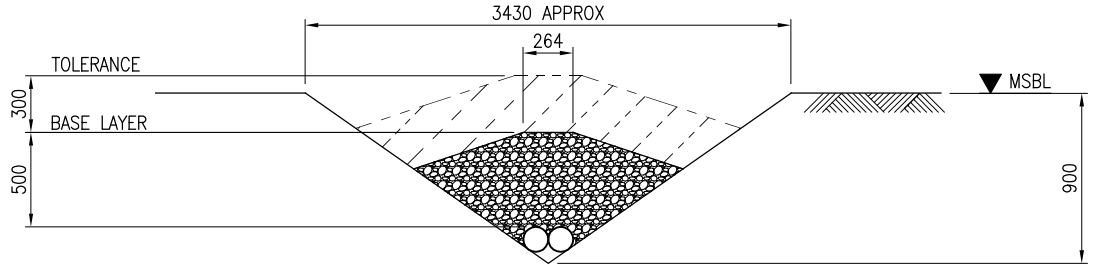
TRENCH PROFILE AND ROCK BERM DESIGN TYPE A LOCATIONS:
 S4 (KP 4.011 TO KP 4.073) & S15 (KP 7.134 TO KP 7.159)
 SCALE 1:20



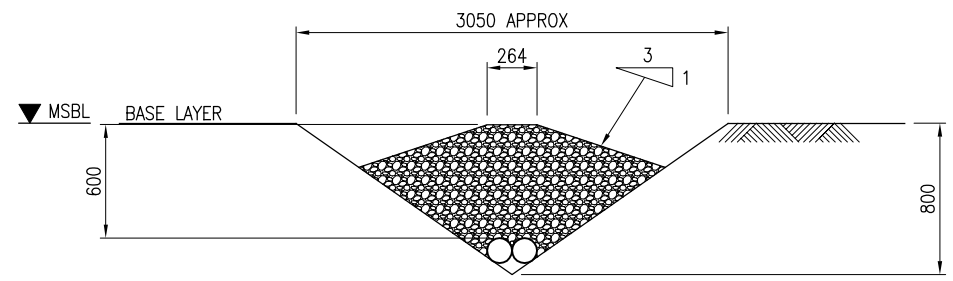
TRENCH PROFILE AND ROCK BERM DESIGN TYPE A LOCATIONS:
 S4 (KP 4.011 TO KP 4.073) & S15 (KP 7.134 TO KP 7.159)
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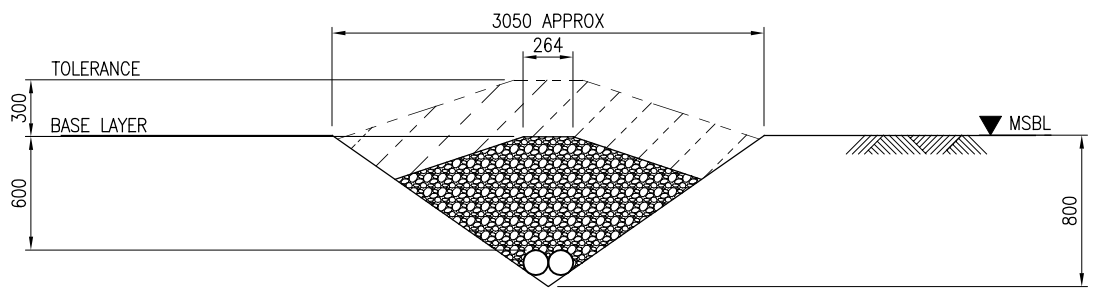
TRENCH PROFILE AND ROCK BERM DESIGN TYPE B LOCATIONS:
 S5 (KP 4.143 TO KP 4.173), S7 (KP 4.691 TO KP 4.709), S9 (5.759 TO KP 5.774),
 S13 (KP 6.809 TO KP 6.860), S14 (KP 6.963 TO KP 7.049) & S16 (KP 7.184 TO KP 7.199)
 SCALE 1:20



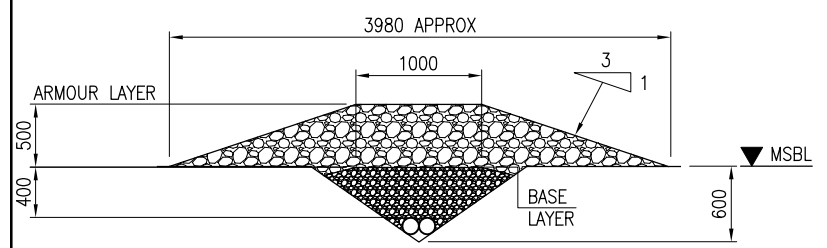
TRENCH PROFILE AND ROCK BERM DESIGN TYPE B LOCATIONS:
 S5 (KP 4.143 TO KP 4.173), S7 (KP 4.691 TO KP 4.709), S9 (5.759 TO KP 5.774),
 S13 (KP 6.809 TO KP 6.860), S14 (KP 6.963 TO KP 7.049) & S16 (KP 7.184 TO KP 7.199)
 SCALE 1:20



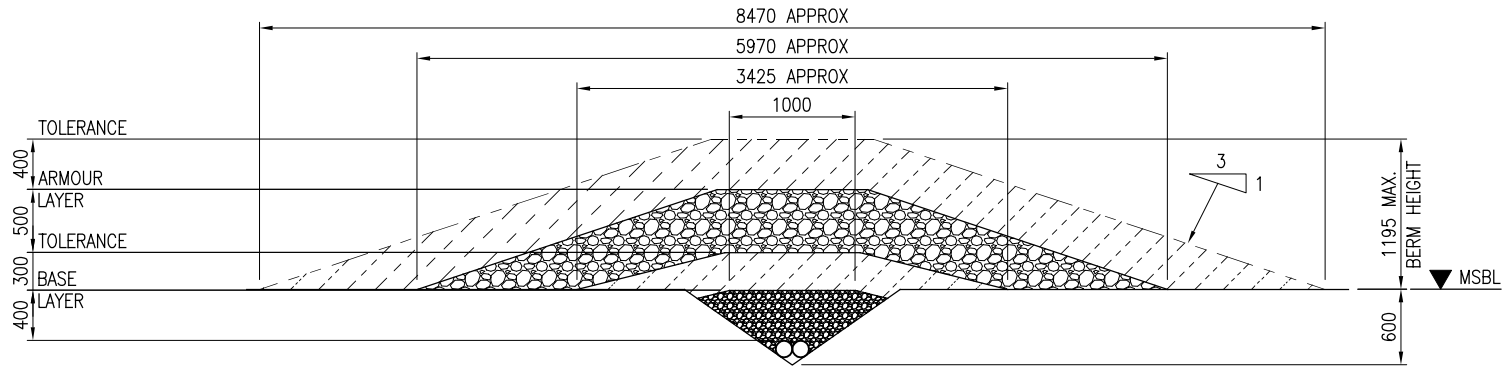
TRENCH PROFILE AND ROCK BERM DESIGN TYPE C LOCATIONS:
 S3 (KP 3.842 TO KP 3.980), S10 (KP 6.021 TO KP 6.087), S11 (KP 6.202 TO KP 6.435)
 & S12 (KP 6.702 TO KP 6.726)
 SCALE 1:20



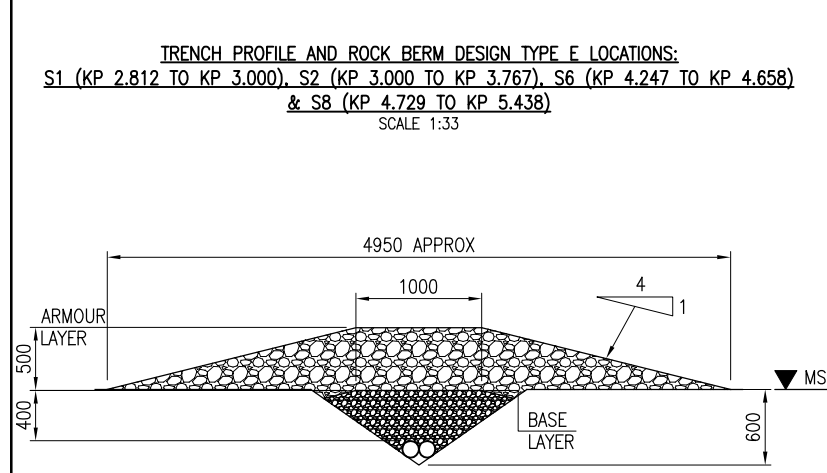
TRENCH PROFILE AND ROCK BERM DESIGN TYPE C LOCATIONS:
 S3 (KP 3.842 TO KP 3.980), S10 (KP 6.021 TO KP 6.087), S11 (KP 6.202 TO KP 6.435)
 & S12 (KP 6.702 TO KP 6.726)
 SCALE 1:20



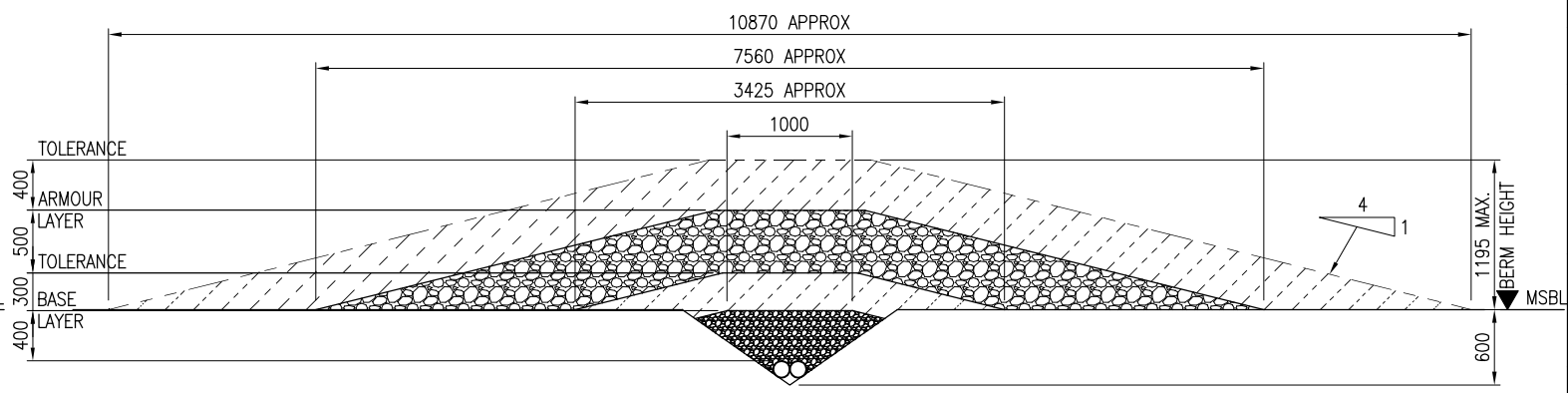
TRENCH PROFILE AND ROCK BERM DESIGN TYPE E LOCATIONS:
 S1 (KP 2.812 TO KP 3.000), S2 (KP 3.000 TO KP 3.767), S6 (KP 4.247 TO KP 4.658)
 & S8 (KP 4.729 TO KP 5.438)
 SCALE 1:33



TRENCH PROFILE AND ROCK BERM DESIGN TYPE E LOCATIONS:
 S1 (KP 2.812 TO KP 3.000), S2 (KP 3.000 TO KP 3.767), S6 (KP 4.247 TO KP 4.658)
 & S8 (KP 4.729 TO KP 5.438)
 SCALE 1:33

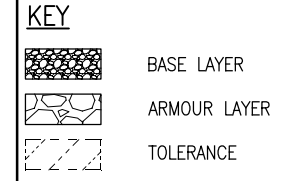


TRENCH PROFILE AND ROCK BERM DESIGN TYPE F LOCATION:
 S17 (KP 7.407 TO KP 7.641)
 SCALE 1:33



TRENCH PROFILE AND ROCK BERM DESIGN TYPE F LOCATION:
 S17 (KP 7.407 TO KP 7.641)
 SCALE 1:33

- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETRES UNO.
 - PRE-CUT TRENCH GEOMETRY AND CABLE BUNDLE POSITION ARE IDEALISED AND INDICATIVE.
 - ROCK DESIGNS TAKEN FROM TIDEWAY OFFSHORE SOLUTIONS DOC No. 1JND14006D004428 WORK METHOD STATEMENT. LOCATION AND EXTENTS OF EACH ROCK BERM TYPE SHOWN ON LLOYD'S REGISTER DRAWINGS.
 - POWER CABLES ARE 132mm OD AND STRAPPED TOGETHER WITH A SINGLE 22mm OD FIBRE OPTIC CABLE SANDWICHED BETWEEN AS SHOWN.



ROCK BERM INSTALLATION TOLERANCES

DESIGN	ROCK GRADE	DESCRIPTION
A	1"-5" DIA.	+0.3m ON DESIGN DIMENSION
B	1"-5" DIA.	+0.3m ON DESIGN DIMENSION
C	1"-5" DIA.	+0.3m ON DESIGN DIMENSION
E	1"-5" DIA. BASE LAYER OVERLAIN BY 5-40Kg ARMOUR LAYER	+0.3m ON BASE LAYER +0.4m ON ARMOUR LAYER 1:3 PROFILE
F	1"-5" DIA. BASE LAYER OVERLAIN BY 5-40Kg ARMOUR LAYER	+0.3m ON BASE LAYER +0.4m ON ARMOUR LAYER 1:4 PROFILE

DRAWING No.	DRAWING TITLE
	REFERENCE DRAWINGS

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REV	DATE	REVISION	BY	DO CHK	ENG	ENG CHK	PM
R01	27.11.17	ISSUED FOR COMMENT					

PROJECT **CM HVDC CONNECTION**

CLIENT **Scottish & Southern Electricity Networks**

CLIENT DRG. No. **-**

TITLE **PORTGORDON NEARSHORE ROCK PLACEMENT DESIGN CROSS PROFILES LOCATIONS S1 TO S17 KP2.818 TO KP 7.641**

DRAWN	F.MASSON	DATE	24.11.17	OFFICE	ASSIGN. No.	SCALE	DWG. SIZE
CHECKED	D.MORROW	DATE	24.11.17	ABD	A-301013-S02	AS NOTED	A1
ENG.	A.SMALL	DATE	24.11.17				
CLIENT APP.		DATE			DRAWING NUMBER		REV.
					A-301013-S02-SKCH-002		R01