

**Applecross Remedial Designs**  
**Bill of Quantities v3.0, Issued 06.10.25**



Location	Details	Unit	Total
<b>Plane bed channel &amp; associated green bank protection</b>	Length of plane bed channel section	m	190
	CUT - Existing channel substrate	m <sup>3</sup>	67
	CUT - Excavation of river left bank	m <sup>3</sup>	580
	FILL - Inset floodplain (river right)	m <sup>3</sup>	630
	FILL - Design channel substrate - median grain size (i.e. D50) of 130 mm, comprising of a grade of 2 mm – 250 mm rounded material	m <sup>3</sup>	240
	Removal/burial of existing boulder bank protection	m	100
	Length of bank for construction of green bank protection (GBP)	m	70
	Rock rolls (2m x 0.3m), based on three-tier structure consisting 6 rock rolls along length of GBP.	No.	210
	Pre-vegetated coir roll (2m x 0.3m) based on one tier/roll along length of GBP.	No.	35
	Chestnut stakes (~100 mm diameter, 1.2-1.4 m length) at 400mm centres along length of GBP	No.	174
	Fixing twine (3mm)	-	-
Appropriate coastal/upland seed mix (rate as per suppliers guidelines)	-	-	
<b>Set-bank green bank protection</b>	Length of bank for construction of green bank protection (GBP)	m	311
	Rock rolls (2m x 0.3m), based on a two-tier structure consisting 3 rock rolls along length of GBP.	No.	468
	Fixing twine (3mm)	-	-
<b>Step pool</b>	Length of step pool channel construction	m	56
	Anchor' boulders (average 450 dia., max 600mm dia., average mass 125kg/boulder) ( <i>can use site-won material if rounded and appropriately sized. If importing, must be granite or hard metamorphic rock-type</i> ).	Tonnes	58
	Quarried rounded stone material of alluvial/ fluvio-glacial origin for bed substrate, comprising a mix of cobble (64 to 256 mm) and coarse gravel (2 to 64 mm) sized sediments to produce a general grade of D50 ~120 mm.	m <sup>3</sup>	160
	Appropriate coastal/upland seed mix (rate as per suppliers guidelines)	-	-
<b>Bund</b>	Total length of constructed bund (river right)	m	93
	FILL - bund construction using a sediment mix ranging from approximately 1 mm to 150 mm.	m <sup>3</sup>	205
	CocoBN coir matting	m <sup>2</sup>	180
	Wooden T-pegs for staking matting (4/m <sup>2</sup> )	No.	45
<b>Downstream bridge bank protection</b>	Removal of existing rock armour	m	30
	Rock rolls (2m x 0.3m), based on three-tier structure consisting 6 rock rolls along length of GBP.	No.	72
	Rock rolls forming a bank surface rock mattress, based on one-tier structure consisting 3 rock rolls along length of GBP, tapering at upstream end into step pool section	No.	48
	Coir rolls (2m x 0.3m) based on one tier/roll along length of GBP.	No.	15
	Chestnut stakes (~100 mm diameter, 1.2-1.4 m length) at 400mm centres along length of GBP	No.	40
	Fixing twine (3mm)	-	-
	Gripple Terra-LockTM ground anchors (Type: TL406-TLA3-4MM-2M-Z) - 1 anchor per 0.9m <sup>2</sup> in a grid pattern	No.	30
Appropriate coastal/upland seed mix (rate as per suppliers guidelines)	-	-	
<b>Daylighting of tributary culvert</b>	Length of culvert to be daylighted	m	51
	CUT - Estimated excavation for construction of channel and inset floodplain	m <sup>3</sup>	250
	Rock rolls (2m x 0.3m)	No.	6
	Turfs (thickness of 200mm)	m <sup>2</sup>	600
	Native seed mix	-	-
	<i>Potential requirements (i.e. in the event that the restored floodplain substrate is not of the appropriate size)</i> CUT - additional excavation through design channel (150-200mm below final design bed level)	m <sup>3</sup>	7.60
FILL - channel substrate to be mix of 2-200 mm rounded material, of fluvial or glacio-fluvial origin (i.e. with an estimated D50 of 100 mm).	m <sup>3</sup>	7.60	