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

Location	Details	Unit	Total
Plane bed channel & associated green bank protection	Length of plane bed channel section	**m**	190
	CUT - Existing channel substrate	**m³**	67
	CUT - Excavation of river left bank	**m³**	580
	FILL - Inset floodplain (river right)	**m³**	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	**m³**	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)	-	-
Set-bank green bank protection	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)	-	
Step pool	Length of step pool channel construction	**m**	56
	Anchor' boulders (average 450 dia., max 600mm dia., average mass 125kg/boulder) *(can use site-won material if rounded and appropriately sized. If importing, must be granite or hard metamorphic rock-type).*	**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.	**m³**	160
	Appropriate coastal/upland seed mix (rate as per suppliers guidelines)	-	-
Bund	Total length of constructed bund (river right)	**m**	93
	FILL - bund construction using a sediment mix ranging from approximately 1 mm to 150 mm.	**m³**	205
	CocoBN coir matting	**m²**	180
	Wooden T-pegs for staking matting (4/m²)	**No.**	45
Downstream bridge bank protection	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 0.9m² in a grid pattern	**No.**	30
	Appropriate coastal/upland seed mix (rate as per suppliers guidelines)	-	-
Daylighting of tributary culvert	Length of culvert to be daylighted	**m**	51
	CUT - Estimated excavation for construction of channel and inset floodplain	**m³**	250
	Rock rolls (2m x 0.3m)	**No.**	6
	Turfs (thickness of 200mm)	**m²**	600
	Native seed mix	-	-
	Potential requirements (i.e. in the event that the restored floodplain substrate is not of the appropriate size)		
	CUT - additional excavation through design channel (150-200mm below final design bed level)	***m³***	*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).	***m³***	*7.60*