

EARTHWORKS

		TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT			
STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME
km + m	m	m²	m³	m²	m³	m²	m³	m²	m³
10+083		2.02			0				
	17		34.8			0	0		
10+100		2.02			0				
	20		50.4				112		
10+120		3.02			11				
	20		113.8				272		
10+140		8.36			16				
	20		133.1				309		
10160.000		4.95			15			CUT	376
	8.000		26.4			137		ROCK	0
10+168		1.65			19			R.FAC	0.495
	4		17.7			81		FILL	911
10+172		6.78			19			F.FAC	1.15
						0		EX. F	672
BRIDGE									
10+250		0.00			40				
	10		0.0			394			
10+260		0.00			40				
	20		0.0			937			
10+280		0.00			54				
	20		0.0			1068			
10+300		0.00			53				
	20		0.9			826			
10+320		0.09			29				
	20		0.9			398			
10+340		0.00			10				
	20		26.4			133			
10+360		2.64			3				
	20		82.0			34			
10+380		5.56			0				
	20		161.1			6			
10+400		10.55			0			CUT	1159
	20		228.6			1		ROCK	0
10+420		12.31			0			R.FAC	0.495
	20		258.8			0		FILL	3797
10+440		13.57			0			F.FAC	1.15
	20		230.0			0		EX. F	3208
10+460		9.43			0				
	20		106.0			0			
10+480		1.17			0				
	20		17.1			0			
10+500		0.54			0				
	20		33.1			0			
10+520		2.77			0				
	10		13.9			0			
10+530		0.00			0				
COLUMN TOTAL									
		1535.0				4708			
DRIVES									
10+100	RT	43.7		0		CUT ROCK R.FAC FILL F.FAC EX. F		48 0 0.495 43 1.15 2	
10+338	LT	4		43		EX. F		2	
REMARKS									
EARTH AND ROCK EXCAVATION 1583									
SOLID ROCK EXCAVATION 0									
EARTH EXCAVATION 1583									
PLANIMETERED FILL 4751									
LESS FACTORED SOLID ROCK 0									
LESS DISPLACEMENT OF ANY LARGE STRUCTURES 0									
NET PLANIMETERED FILL 4751									
FACTOR 1.15									
PLANIMETERED FILL INCLUDING FACTOR 5464									
MATERIALS AVAILABLE FOR FILLS									
EARTH EXCAVATION 1583									
CHANNEL EXCAVATION x 0.90 2418									
COFFERDAM EXCAVATION x 0.50 80									
TRENCH EXCAVATION x 0.50 673									
STRUCTURE EXCAVATION x 0.50 196									
TOTAL MATERIAL AVAILABLE FOR FILL 4949									
TOTAL FILL INCLUDING FACTOR 5464									
TOTAL MATERIAL FOR FILL 4949									
BORROW 514									
EXCESS EXCAVATION									
PROJECT NAME: CAMBRIDGE									
PROJECT NUMBER: BRf 027-1(4)									
FILE NAME: s78f163forms.xls PLOT DATE: 2/28/2012									
PROJECT LEADER: M.EVANS-MONGEO DRAWN BY: EVANS-MONGEO									
DESIGNED BY: S.SCRIBNER CHECKED BY: EVANS-MONGEO									
EARTHWORK SHEET SHEET 140 OF 214									