

Summary from the Improvement Plan - Batch 2

THOME MATHIRA BATCH 2

Item		04-50-003	04-50-004	04-50-006	04-50-007	04-50-009	05-50-004	05-05-002	05-05-003
KM	Bush/Site Clearing M2					Grubbing	ETL	Drains m3	
	Light	Heavy	Total	200-450	>450	m ²	m ³	Soft	Hard
1	8,000	800	8,800	-	-	7,000	10	1,874	187
2	8,000	800	8,800	-	-	7,000	10	1,744	174
3	8,000	800	8,800	-	-	7,000	10	1,561	156
4	8,000	800	8,800	-	-	7,000	10	1,420	142
5	8,000	800	8,800	-	-	7,000	10	2,392	239
6	8,000	800	8,800	-	-	7,000	10	2,392	239
7	2,064	206	2,270	-	-	1,806	10	736	74
Total	50,064	5,006	55,070	-	-	43,806	70	12,120	1,212

[illegible]

Road Improvement Plan			Road No.	County	Laikipia	From:	0+000	To:	1+000	Page:	1																			
Chain- age	Road form.	(kilometres)	Subgrade	Cross section	Method: RES, ETL or Fill	Choice of reshaping: L, T or E	Volume of ETL or Fill (m3/m)	Total	Thickness (cm,comp.)	Source (quarry No.)	Total	Thickness (cm,comp.)	Source (quarry No.)	Longitudinal gradient (in %)	Number left =	Number right =	Length of drain left =	Length of drain right =	Chainage (m) = New / Existing line	= Cross drainage	= Access culvert/drift	= Left/right	Ø 450 mm	Ø 600mm	Ø 900 mm	Earth fill (m3)	Haunch Type	Inlet (Material/Type)	Outlet (Material/Type)	Additional Instruction as per Reference
		(metres)																												
			G	A	FILL	L		240			300			0.17					1+000N	CD					6		IV	1	1	
			G	A	FILL	L		240			300								0+960Ex	CD					207		IV	1	1	
			G	A	FILL	L		240			300																			
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Quantity Assessment	Road No.	County	Laikipia	From:	0+000	To:	1+000	Page:	1
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Chainage:	0+000	0+200	0+400	0+600	0+800	1+000
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Measurements for Clearing:

	Aver. (m)	1 to 4 readings*		
Bush Clearing	8	8	8	8
Grass Cutting				
Grubbing	7	7	7	7
0 Tree and Stump Removal	0			

Free Clearance Width for Calculating areas

	Aver. (m)	1 to 4 readings*		
m	8	8	8	8
m				
m	7	7	7	7
m	0			

*) Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).

Estimated measurements for small cut to fill:

Height of cut < 0.25m	6				cm	8				cm	14				cm	19				cm	19				cm
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For Reshaping:

Existing Roads	9						24					28					17				cm	17				cm
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Quantities										Total this page
Bush Clearing	1600	m2	1,600	m2	1,600	m2	1,600	m2	1,600	8,000
Grass Cutting		m2		m2		m2		m2		0
Grubbing	1,400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	7,000
Tree and Stump Removal	0	No.	0	No.	0	No.	0	No.	0	0
										0
Height of cut < 0.25m	0	m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Height of cut > 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Drains full re-construction		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Reshaping by Labour	443	m3 (insitu)	281	m3 (insitu)	238	m3 (insitu)	356	m3 (insitu)	356	1,674
By Towed Grader / Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
By Equipment Based Meth.		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0

Quantities verified and accepted by the Contractor

For the Employer

Name:

Name:

Date:

Date:

Signature:

Signature:

Road Improvement Plan		County		Laikipia		From:		1+000		To:		2+000		Page:		2	
Chain- age	(kilometres)		Road form.	(metres)		Earthworks / Reshaping	Gravel	Improved Subgrade	Longitudinal gradient (in %)		Mitre drains	Catch water	Culverts		Head- walls	Scour Checks	
	Subgrade			Cross section													
2+000	G A FILL L		2+000	G A FILL L		2+000	200	300	-0.60				2+000N				
	G A FILL L			G A FILL L									CD				
1+900	G A FILL L		1+900	G A FILL L		1+900	200	300	-0.79								
	G A FILL L			G A FILL L													
1+800	G A FILL L		1+800	G A FILL L		1+800	200	300	-0.15								
	G A FILL L			G A FILL L													
1+700	G A FILL L		1+700	G A FILL L		1+700	200	300	-0.19								
	G A FILL L			G A FILL L													
1+600	G A FILL L		1+600	G A FILL L		1+600	200	300	0.67								
	G A FILL L			G A FILL L													
1+500	G A FILL L		1+500	G A FILL L		1+500	200	300	0.74				1+520N				
	G A FILL L			G A FILL L									CD				
1+400	G A FILL L		1+400	G A FILL L		1+400	200	300	0.52								
	G A FILL L			G A FILL L													
1+300	G A FILL L		1+300	G A FILL L		1+300	200	300	0.27								
	G A FILL L			G A FILL L													
1+200	G A FILL L		1+200	G A FILL L		1+200	200	300	2.53								
	G A FILL L			G A FILL L													
1+100	G A FILL L		1+100	G A FILL L		1+100	200	300	-0.25								
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	G A FILL L			G A FILL L			200	300									
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For Reshaping: Difference in Level between Exist. Camber and Side Drain for calculating volumes <table border="1"> <tr> <td>Existing Roads</td> <td>13</td><td></td><td></td><td></td><td></td> <td></td> <td>36</td><td></td><td></td><td></td><td></td> <td></td> <td>10</td><td></td><td></td><td></td><td></td> <td></td> <td>20</td><td></td><td></td><td></td><td></td> <td>cm</td> <td>28</td><td></td><td></td><td></td><td></td> <td>cm</td> </tr> </table>																		Existing Roads	13						36						10						20					cm	28					cm																																																																																																																
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Quantities <table border="1"> <tr> <th colspan="10"></th> <th>Total this page</th> </tr> <tr> <td>Bush Clearing</td> <td>1600</td> <td>m2</td> <td>1,600</td> <td>m2</td> <td>1,600</td> <td>m2</td> <td>1,600</td> <td>m2</td> <td>1,600</td> <td>8,000</td> </tr> <tr> <td>Grass Cutting</td> <td></td> <td>m2</td> <td></td> <td>m2</td> <td></td> <td>m2</td> <td></td> <td>m2</td> <td></td> <td>0</td> </tr> <tr> <td>Grubbing</td> <td>1400</td> <td>m2</td> <td>1,400</td> <td>m2</td> <td>1,400</td> <td>m2</td> <td>1,400</td> <td>m2</td> <td>1,400</td> <td>7,000</td> </tr> <tr> <td>Tree and Stump Removal</td> <td></td> <td>No.</td> <td>0</td> <td>No.</td> <td>0</td> <td>No.</td> <td>0</td> <td>No.</td> <td>0</td> <td>0</td> </tr> <tr> <td colspan="10"></td> <td>0</td> </tr> <tr> <td>Height of cut < 0.25m</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>0</td> </tr> <tr> <td>Height of cut > 0.25m</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>0</td> </tr> <tr> <td>Embankment</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>0</td> </tr> <tr> <td>Drains full re-construction</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>0</td> </tr> <tr> <td>Reshaping by Labour</td> <td>400</td> <td>m3 (insitu)</td> <td>151</td> <td>m3 (insitu)</td> <td>432</td> <td>m3 (insitu)</td> <td>324</td> <td>m3 (insitu)</td> <td>238</td> <td>1,544</td> </tr> <tr> <td>By Towed Grader / Labour</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>0</td> </tr> <tr> <td>By Equipment Based Meth.</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>m3 (insitu)</td> <td></td> <td>0</td> </tr> </table>																												Total this page	Bush Clearing	1600	m2	1,600	m2	1,600	m2	1,600	m2	1,600	8,000	Grass Cutting		m2		m2		m2		m2		0	Grubbing	1400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	7,000	Tree and Stump Removal		No.	0	No.	0	No.	0	No.	0	0											0	Height of cut < 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	Height of cut > 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	Drains full re-construction		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	Reshaping by Labour	400	m3 (insitu)	151	m3 (insitu)	432	m3 (insitu)	324	m3 (insitu)	238	1,544	By Towed Grader / Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	By Equipment Based Meth.		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
										Total this page																																																																																																																																																						
Bush Clearing	1600	m2	1,600	m2	1,600	m2	1,600	m2	1,600	8,000																																																																																																																																																						
Grass Cutting		m2		m2		m2		m2		0																																																																																																																																																						
Grubbing	1400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	7,000																																																																																																																																																						
Tree and Stump Removal		No.	0	No.	0	No.	0	No.	0	0																																																																																																																																																						
										0																																																																																																																																																						
Height of cut < 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0																																																																																																																																																						
Height of cut > 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0																																																																																																																																																						
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0																																																																																																																																																						
Drains full re-construction		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0																																																																																																																																																						
Reshaping by Labour	400	m3 (insitu)	151	m3 (insitu)	432	m3 (insitu)	324	m3 (insitu)	238	1,544																																																																																																																																																						
By Towed Grader / Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0																																																																																																																																																						
By Equipment Based Meth.		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0																																																																																																																																																						
Quantities verified and accepted by the Contractor Name: Date: Signature:																																																																																																																																																																
For the Employer Name: Date: Signature:																																																																																																																																																																

Quantity Assessment		County		Laikipia		From:		2+000		To:		3+000		Page:		3	
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Chainage:		2+000		2+200		2+400		2+600		2+800		3+000	
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Measurements for Clearing:

	###	1 to 4 readings*								
Bush Clearing	8	8			8		m	8	8	8
Grass Cutting							m			
Grubbing	7	7			7		m	7	7	7
0 Tree and Stump Removal	0						m	0		

Free Clearance Width for Calculating areas

											Aver. (m)				1 to 4 readings*				
m	8	8			8		m	8	8	8		m	8	8		8			m
m							m					m							m
m	7	7			7		m	7	7	7		m	7	7		7			m
m	0						m	0				m	0						m

Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).

Estimated measurements for small cut to fill:

Height of cut < 0.25m	23						cm	21					cm	8					cm	8					cm
-----------------------	----	--	--	--	--	--	----	----	--	--	--	--	----	---	--	--	--	--	----	---	--	--	--	--	----

Height of Cut for calculating volumes

Height of cut < 0.25m	23						cm	21					cm	8					cm	8					cm
-----------------------	----	--	--	--	--	--	----	----	--	--	--	--	----	---	--	--	--	--	----	---	--	--	--	--	----

For Reshaping:

Existing Roads	30							21					3					29					cm	21				cm
----------------	----	--	--	--	--	--	--	----	--	--	--	--	---	--	--	--	--	----	--	--	--	--	----	----	--	--	--	----

Difference in Level between Exist. Camber and Side Drain for calculating volumes

Existing Roads	30							21					3					29					cm	21				cm
----------------	----	--	--	--	--	--	--	----	--	--	--	--	---	--	--	--	--	----	--	--	--	--	----	----	--	--	--	----

Quantities										Total this page
Bush Clearing	1600	m2	1,600	m2	1,600	m2	1,600	m2	1,600	8,000
Grass Cutting		m2		m2		m2		m2		0
Grubbing	1400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	7,000
Tree and Stump Removal		No.	0	No.	0	No.	0	No.	0	0
										0
Height of cut < 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Height of cut > 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Drains full re-construction		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Reshaping by Labour		m3 (insitu)	313	m3 (insitu)	508	m3 (insitu)	227	m3 (insitu)	313	1,361
By Towed Grader / Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
By Equipment Based Meth.		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0

Quantities verified and accepted by the Contractor

For the Employer

Name: _____ Date: _____ Signature: _____

Name: _____ Date: _____ Signature: _____

Quantity Assessment		County		Laikipia		From:		3+000		To:		4+000		Page:		4	
Chainage:		3+000		3+200		3+400		3+600		3+800		4+000					

Measurements for Clearing:		###		1 to 4 readings*)		Free Clearance Width for Calculating areas												Aver. (m)		1 to 4 readings*)			
Bush Clearing	8	8	8	8	m	8	8	8	8	m	8	8	8	8	m	8	8	8	8	m			
Grass Cutting					m					m					m					m			
Grubbing	7	7	7	7	m	7	7	7	7	m	7	7	7	7	m	7	7	7	7	m			
0 Tree and Stump Removal	0				m	0				m	0				m	0				m			

Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).

Estimated measurements for small cut to fill:		Height of Cut for calculating volumes																							
Height of cut < 0.25m					cm	22				cm	7				cm	18				cm	8				cm

For Reshaping:		Difference in Level between Exist. Camber and Side Drain for calculating volumes																							
Existing Roads	16					36					44					18				cm	23				cm

Quantities										Total this page	
Bush Clearing	1600	m2	1,600	m2	1,600	m2	1,600	m2	1,600	8,000	
Grass Cutting		m2		m2		m2		m2		0	
Grubbing	1400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	7,000	
Tree and Stump Removal		No.	0	No.	0	No.	0	No.	0	0	
										0	
Height of cut < 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	
Height of cut > 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)	9	m3 (insitu)	4	13	
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	
Drains full re-construction		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	
Reshaping by Labour	367.2	m3 (insitu)	151	m3 (insitu)	65	m3 (insitu)	346	m3 (insitu)	292	1,220	
By Towed Grader / Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	
By Equipment Based Meth.		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	

Quantities verified and accepted by the Contractor				Name:		Date:		Signature:	
For the Employer				Name:		Date:		Signature:	

Quantity Assessment		County		Laikipia		From:		4+000		To:		5+000		Page:		5	
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Chainage:		4+000		4+200		4+400		4+600		4+800		5+000	
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Measurements for Clearing:

		1 to 4 readings*								
Bush Clearing	8	8		8			m	8	8	8
Grass Cutting							m			
Grubbing	7	7		7			m	7	7	7
0 Tree and Stump Removal	0						m	0		

Free Clearance Width for Calculating areas

		Aver. (m)					1 to 4 readings*						
m	8	8		8			m	8	8	8		m	
m							m					m	m
m	7	7		7			m	7	7	7		m	m
m	0						m	0				m	m

Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).

Estimated measurements for small cut to fill:

Height of cut < 0.25m	7					cm	9				cm	1				cm	16				cm
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Height of Cut for calculating volumes

For Reshaping:

Existing Roads	12						10					7					10				cm	8				cm
----------------	----	--	--	--	--	--	----	--	--	--	--	---	--	--	--	--	----	--	--	--	----	---	--	--	--	----

Difference in Level between Exist. Camber and Side Drain for calculating volumes

Quantities										Total this page
Bush Clearing	1600	m2	1,600	m2	1,600	m2	1,600	m2	1,600	8,000
Grass Cutting		m2		m2		m2		m2		0
Grubbing	1400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	7,000
Tree and Stump Removal		No.	0	No.	0	No.	0	No.	0	0
										0
Height of cut < 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Height of cut > 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Drains full re-construction		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
Reshaping by Labour	410	m3 (insitu)	432	m3 (insitu)	464	m3 (insitu)	432	m3 (insitu)	454	2,192
By Towed Grader / Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0
By Equipment Based Meth.		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0

Quantities verified and accepted by the Contractor

For the Employer

Name: _____ Date: _____ Signature: _____

Name: _____ Date: _____ Signature: _____

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Quantity Assessment		County		Laikipia		From: 5+000		To: 6+000		Page: 6	
Chainage:		5+000		5+200		5+400		5+600		6+000	

Measurements for Clearing:												Free Clearance Width for Calculating areas												
1 to 4 readings*)												Aver. (m) 1 to 4 readings*)												
Bush Clearing	8	8		8			m	8	8		8		m	8	8		8		m	8	8		8	
Grass Cutting							m					m					m					m		
Grubbing	7	7		7			m	7	7		7		m	7	7		7		m	7	7		7	
0 Tree and Stump Removal	0						m	0				m	0				m	0				m		

Note: The user is free to select the number of reading required according to the site conditions. (min. 1 max. 4 for each section).

Estimated measurements for small cut to fill:												Height of Cut for calculating volumes											
Height of cut < 0.25m												Height of cut < 0.25m											
7												9											
cm												cm											

For Reshaping:												Difference in Level between Exist. Camber and Side Drain for calculating volumes											
Existing Roads												Existing Roads											
12												10											
cm												cm											

Quantities										Total this page	
Bush Clearing	1600	m2	1,600	m2	1,600	m2	1,600	m2	1,600	8,000	
Grass Cutting		m2		m2		m2		m2		0	
Grubbing	1400	m2	1,400	m2	1,400	m2	1,400	m2	1,400	7,000	
Tree and Stump Removal		No.	0	No.	0	No.	0	No.	0	0	
										0	
Height of cut < 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	
Height of cut > 0.25m		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	
Embankment		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	
Drains full re-construction		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	
Reshaping by Labour	410	m3 (insitu)	432	m3 (insitu)	464	m3 (insitu)	432	m3 (insitu)	454	2,192	
By Towed Grader / Labour		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	
By Equipment Based Meth.		m3 (insitu)		m3 (insitu)		m3 (insitu)		m3 (insitu)		0	

Quantities verified and accepted by the Contractor				Name:		Date:		Signature:	
For the Employer				Name:		Date:		Signature:	

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