

Inspection and test plan – Bulk Earthworks

Project no.	CC0408	Project name	MR	REH BESS		Date	SGJV Approval	SAMSUNG-GCOR-000121		
ITP no.	CC0408-ITP-003	Revision no.	С	Revision date	03.05.2024	Layer thickness				
Plant and equ	uipment used	Excavator, Dozer, Moxy, Stabiliser, Grader, Roller, Tandems, Trucks & Trailers, Dozer								
Lot no.		Location (chainages, detailed description or marked up plan)								
SGJV ITP no.	MRH00B00-QAIT	P0002								

						Verify of acceptance by					Remarks / record	
						Syma	al Infrast	ructure	S	GJV	Principal	(eg. test reports,
Item no.	Activity	Ref docs	Acceptance criteria	Acceptance	Frequency	Key Resp Sign/ date Key Sign/ date Sign/ date					Sign/ date	certificates, checklist etc)
1.0 P	reliminaries											
1.1	Determine lot size	N/A	What is the lot size?	m²	Prior to start of Works	S	SE		S			Lot Map
1.2	Survey set-out	N/A	Is the most current survey file what the team is working to and has the work area been set out for line and level?	□ Yes □ No □ N/A	Each lot & Each possession	W	SE		S			N/A
1.3	Water management	EMP	Where necessary, have batters been rounded and catch drains constructed to allow for potential surface runoff during the course of excavation? Are environmental controls set up as per the site EMP?	□ Yes □ No □ N/A	Each lot & Each possession	S	SE		S			N/A
1.4	Clearing	CC0408- ITP- 002 or MRH00B00- QAITP0001	Has the area been cleared and grubbed in accordance with CC0408- ITP-002 or MRH00B00-QAITP0001?	□ Yes □ No □ N/A	Prior to start of Works	W	SE		S			N/A

Is the area in cut / fill / both?

If in **cut** proceed to step 2.0 and strike out section 3.0.

If in fill please strike out section 2.0 and proceed to section 3.0

If in **both** proceed to step 2.0 as well as section 3.0

2.0 Bulk earthworks - Cut



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2.1	Excavation material classification	MRH/00/P/00- PM/SPC/0003 Rev 3; Page 53	Has the material being excavated been inspected with category agreed upon by Superintendent? Tick category below: Topsoil Unsuitable material Fill material Other:	□ Yes □ No □ N/A	Prior to start of Works	W	SE		S			Test reports
2.2	Stockpile	N/A	Has the stockpile location been approved by SGJV.	□ Yes □ No □ N/A	Prior to start of Works	Н	SE		Н			SGJV approved stockpile plan
2.3	Subgrade preparation or scarification	MRH/A0/B/00- CV/DWG/0040	Has the cut surface been trimmed to an even surface free from lose material or scarified/ripped? Have surface levels been checked to avoid over excavation?	□ Yes □ No □ N/A	Each lot & Each possession	S	SE		Н			Test reports/as- built survey
2.4	Lime mix	MRH/A0/B/00- CV/DWG/0040	Has lime demand testing been completed and submitted?	□ Yes □ No □ N/A	Prior to starting	Ħ	SE		H			☐ Test reports No longer applicable.
2.5	Lime stabilisation	MRH/A0/B/00- CV/DWG/0040	Has the prepared subgrade been lime stabilised as per the IFC design?	□ Yes □ No □ N/A	Each lot & Each possession	¢.	SE		₩			Photos/As-built report No longer applicable.
2.6	Compaction	AS3798 Table 8.1 MRH/00/P/00- PM/SPC/0003 MRH/A0/B00- CV/DWG/0008	Compaction Scale: minimum 3 tests per lot, or 1 test per 1000m2 Has the subgrade been adequately compacted achieving 100% SDD? Is the subgrade material within +/- 2% of the optimum moisture content.	□ Yes □ No □ N/A	Each lot & Each possession	W	SE		S			☐ Test reports



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			Has the layer thickness conformed with Item No. 4.2 'Acceptance criteria' ?									
2.7	Test Rolling	MRH/A0/B/00- CV/DWG/0040	Does the layer withstand test rolling without visible deformation or springing? List Attendees: Type of equipment used: Water cart Tandem Others:	☐ Yes ☐ No ☐ N/A If 'no' please see below. If 'yes' please proceed.	Each lot & Each possession	н	SE		н			☐ Proof Roll Inspection Checklist
	cation of soft wet or le material	N/A	What quantity of soft, wet, or unstable material is present?	m²	As required	W	SE		S			Photos (if required)
Treatm materi	nent of unsuitable al	N/A	Has rectification process been submitted to SGJV for review. What was the rectification process used.	□ Yes □ No □ N/A	As required	W	SE		S			Aconex Correspondence
3.0 B	ulk earthworks -	Fill										
3.1	Fill material classification	MRH/00/P/00- PM/SPC/0003 page 53	Has the material to be used as fill been approved for use? Material Type:	□ Yes □ No □ N/A	Prior to start of Works	S	SE		Н			Material Acceptance correspondence/C ertificate
3.2	Stripped surface - test rolling (If applicable)	MRH/A0/B/00- CV/DWG/0040	Does the stripped surface to be filled withstand test rolling without visible deformation or springing?	☐ Yes ☐ No ☐ N/A If 'no' please see below.	Each lot & Each possession	Н	SE		Н			☐ Proof roll checklist



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Item no.	Activity	Ref docs	Acceptance criteria	Acceptance	Frequency	Key	Resp	Sign/ date	Key	Sign/ date	Sign/ date	certificates, checklist etc)
			List Attendees:	If 'yes' please proceed to item 3.3								
	cation of soft wet or le material	N/A	What quantity of soft, wet or unstable material is present?	m² m³		н	SE		S			Photos / Visual inspection
Treatm materia	nent of unsuitable al	N/A	What rectification process is to be undertaken	□ Yes □ No □ N/A	As required	S	SE		S			Aconex Correspondence /Approval from SGJV
3.3	Preparation of surface	MRH/A0/B/00- CV/DWG/0040	Has adequate water been added to the stripped surface to ensure adhesion to the next layer?	□ Yes □ No □ N/A	Each lot & Each possession	S	SE		S			Photos (if required)
3.4	Fill Placement	MRH/00/P/00- PM/SPC/0003 MRH/A0/B00- CV/DWG/0008	Has fill been placed in maximum 200mm and minimum 100mm compacted layer thickness? Rock in the fill should be less than 75 mm. Fill should be free of clay and	□ Yes □ No □ N/A	Each lot & Each possession	S	SE		S			Photos (if required)
3.5	Moisture	AS 3798	free from organic. Has the material maintained at optimum moisture content (within +/- 2% of optimum moisture), with additional water being added if required during compaction?	⊠ Yes □ No □ N/A	As required	S	SE		Ø			Test Reports
3.6	Lime mix	MRH/A0/B/00- CV/DWG/0040	Has mix demand testing been completed and submitted?	□ Yes □ No □ N/A	Once	H	SE		Ħ			☐ Test reports No longer applicable.



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Item no.	Activity	Ref docs	Acceptance criteria	Acceptance	Frequency	Key	Resp	Sign/ date	Key	Sign/ date	Sign/ date	certificates, checklist etc)	
3.7	Lime stabilisation	MRH/A0/B/00- CV/DWG/0040	Has the prepared subgrade been lime stabilised as per the IFC design?	□ Yes □ No □ N/A	Each lot & Each possession	Ş	SE		₩			Photos/As-built report No longer applicable.	
3.8	Compaction	MRH/A0/B00- CV/DWG/0008	Compaction Scale: minimum 3 tests per lot, or 1 test per 1000m2 Has the subgrade been adequately compacted achieving 100% SDD? Is the subgrade material within +/- 2% of the optimum moisture content.	□ Yes □ No □ N/A	Each lot & Each possession	W	SE		S			☐ Test reports	
3.9	Test Rolling	MRH/A0/B/00- CV/DWG/0040	Does the layer withstand test rolling without visible deformation or springing? List Attendees: Type of equipment used: Water cart Tandem Other:	☐ Yes ☐ No ☐ N/A If 'no' please see below. If 'yes' please proceed	Each lot & Each possession	Н	SE		н			☐ Proof Roll Inspection Checklist	
	cation of soft wet or le material	N/A	What quantity of soft, wet or unstable material is present?	m² m³	As required	S	SE		S			Photos (if required)	



						Verify of acceptance by Rei					Remarks / record	
						Symal Infrastructure SGJV Principal			(eg. test reports,			
Item no.	Activity	Ref docs	Acceptance criteria	Acceptance	Frequency	Key	Resp	Sign/ date	Key	Sign/ date	Sign/ date	certificates, checklist etc)
Treatm materia	nent of unsuitable al	N/A	Has rectification process been submitted to SGJV for Review? What was the rectification process used?	□ Yes □ No □ N/A	As required	н	SE		S			Photos (if required)
4.0 C	onformance chec	k										
4.1	Width and alignment	IFC Drawings	Has the pavement been constructed at the correct width and alignment as detailed in the construction drawings?	□ Yes □ No □ N/A	Once	W	SE		Н			☐ As built report
4.2	Subgrade level and shape	IFC Drawings	Has the prepared subgrade been surveyed in accordance with and verifying specified requirements? Is the subgrade within +/-20mm of design surface.	□ Yes □ No □ N/A	As required	W	SE		н			☐ As built report
Comm	ents:											
Works	complete (signer S	S)	D	Pate works complete								
	nforms (signer SE)	•	-	_	no. raised					or this lot		



SGJV / Client Representative signoff:

Name	Company	Signature	Date
Name	Company	Signature	Date

Responsibility (Resp.) Key: **PM** - Project Manager, **PE**-Project Engineer, **SE**- Site Engineer, **CS**-Civil Superintendent, **SS**-Site Supervisor, **SV**-Surveyor, **CR**-Client Representative **Inspection key: W** – Witness, H – Hold Point, **S** - Surveillance