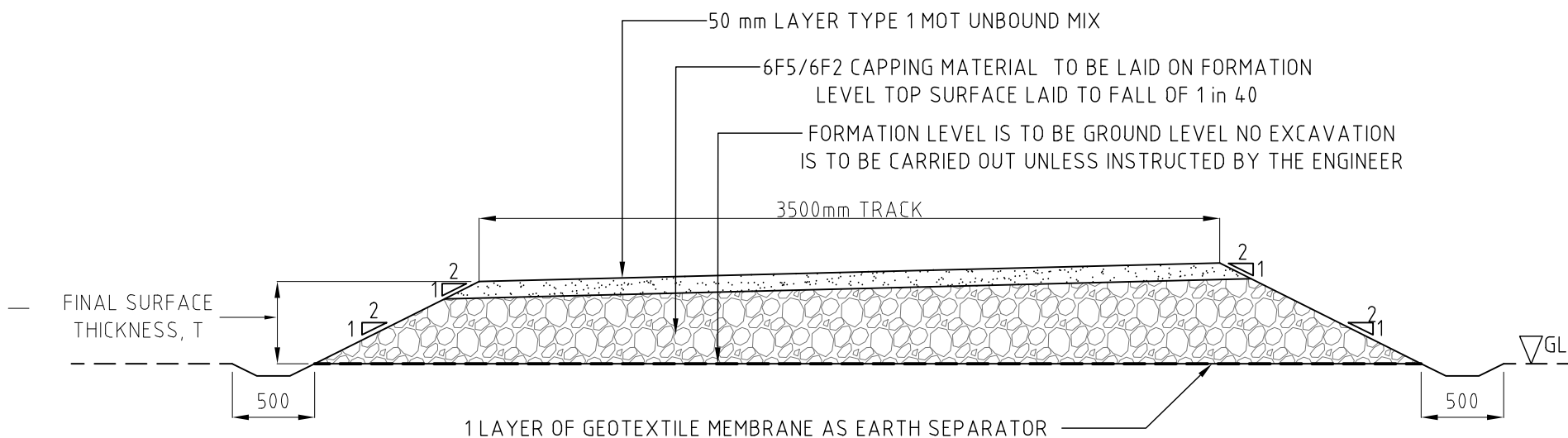
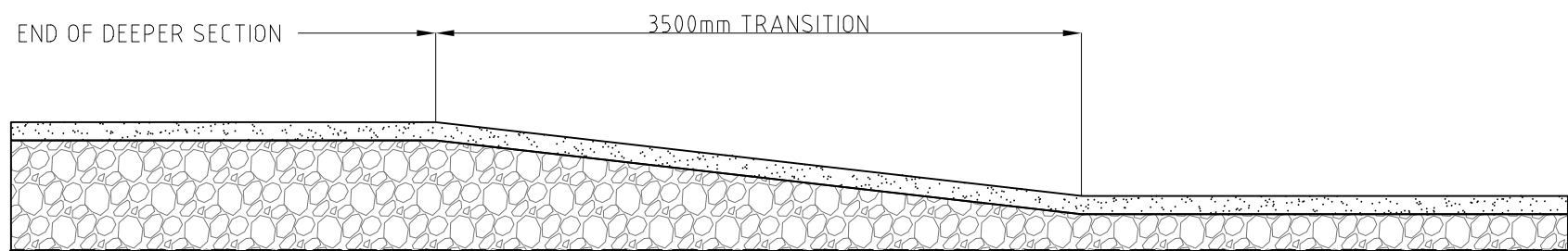


DETAIL 1:
TYPICAL SECTION THROUGH FLOATING ACCESS TRACK IF
SUBGRADE CBR VALUE IS GREATER THAN 10



DETAIL 2:
TYPICAL SECTION THROUGH FLOATING ACCESS TRACK



TYPICAL TRANSITION BETWEEN FLOATING TRACKS OF
DIFFERENT DEPTHS

NOTES

1. THIS DESIGN IS SUITABLE FOR GROUND WITH LOW PLASTICITY CLAY WITH PLASTICITY INDEX (PI) OF 15% AND PHI OF 30DEGREES. THE THICKNESS MAY VARY FOR OTHER TYPES OF GROUND CONDITION.
2. THIS DESIGN ASSUMES A CORRELATION OF CBR = 0.62CU (REF. BLACK 1961), AND CBR VALUE TO THE ULTIMATE GROUND BEARING CAPACITY OF CBR = QU/70 (REF. BLACK 1961). FOR GENERAL GUIDANCE ONLY.
3. THIS DESIGN IS BASED ON ASSUMED MAXIMUM WHEEL LOAD OF 57.5 KN OF TPA TRAKWAY WAGON FULLY LADEN WITH AXLE LOAD = 11500 KG OR 11.5T ACTING OVER AN AREA OF 0.5M X 0.5M.
4. THIS DESIGN ASSUMES GROUND COMPRISING OF A SINGLE UNIFORM STRATUM.
5. THE MAXIMUM ALLOWABLE COMPACTION LAYER THICKNESS SHALL BE 100MM. FOR FURTHER GUIDANCE ON THE ACCEPTABLE METHOD OF COMPACTION REFER TO HA CODE SERIES 600 EARTHWORKS - TABLE 6/4, METHOD 6.

SAFETY REQUIREMENTS REQUIRED FOR ACCESS
TRACKS


1. THE STONE FILL TRACK SHOULD BE WELL DRAINED AND KEPT IN GOOD CONDITION FOR THE DURATION OF THE WORKS. DRAINAGE SHOULD BE PROVIDED BY DOWN SLOPE ROUTE FROM THE SUB-GRADE TO THE DRAIN TO KEEP WATER OUT OF THE CAPPING AND SUB-GRADE.
2. ADEQUATE QUALITY CONTROL SHOULD BE UNDERTAKEN DURING PLACEMENT AND COMPACTION OF THE STONE FILL.
3. THE SURFACE OF THE TRACK SHOULD BE WELL COMPACTED AND LEVEL. TRACKS SHOULD BE MONITORED REGULARLY FOR ASSESSMENT OF THE PERFORMANCE DURING PLANT OPERATIONS.
4. REGULAR MAINTENANCE SHOULD BE CARRIED OUT TO KEEP A LEVEL SURFACE, REPAIRS CARRIED OUT PROMPTLY WHEN PROBLEMS ARE IDENTIFIED AND THE STONE FILL SHOULD BE REINSTATED AFTER ANY DAMAGE.
5. INTEGRITY OF THE STONE FILL TRACKS INCLUDING RAMPS AND ACCESSES SHOULD BE PRESERVED THROUGH ITS WORKING LIFE.
6. PROVIDE A MINIMUM OF 2% SURFACE GRADIENT FOR SURFACE WATER RUN-OFF.

TABLE 1 ACCESS TRACK THICKNESS DESIGN			
SUB-GRADE CBR VALUE	DCP (mm/blow)	TOTAL THICKNESS (T)	DETAIL No.
BETWEEN 1.5 TO 2.5	150 > DCP > 92	400mm	2
BETWEEN 2.5 TO 3.5	92 > DCP > 68	300mm	
BETWEEN 3.5 TO 5	68 > DCP > 48	200mm	
BETWEEN 5 TO 10	48 > DCP > 26	100mm	
GREATER THAN 10	DCP < 25	SURFACE GRADING & 50mm STONE WEARING COURSE ONLY	1

MAXIMUM PERMISSIBLE LAYER STIFFNESS IS CONSIDERED 100MPa
DCP = DYNAMIC CONE PENETROMETER READING

NOTES:

1. DCP TO BE CARRIED-OUT ALONG THE TRACK AT EVERY 100M INTERVAL.
2. FOR ACCESS TRACK WITH SPAN LESS THAN 100M, A MINIMUM OF 2NO. DCP TEST BE CARRIED-OUT, IDEALLY AT EACH END.
3. DESIGN OFFICE TO BE CONSULTED WHEN SITE IS ENVIRONMENTALLY RESTRICTED SUCH AS SSSI, RAMSAR, AND WHEN DCP READING EXCEEDS 150MM/BLOW.

DATE	08/10/2024			REMARKS
ISSUE	P01	CHECKED	RT	FIRST ISSUE
DRAWN	KBI	APPROVED	DA	
SSE SCHEME No.	LT455			
CLIENT				
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TITLE				
INDICATIVE STONE ACCESS TRACK CONSTRUCTION DETAILS				
SITE LT455 - KINTORE - HURLIE - 400kV				ISSUE
SSE DRAWING NUMBER XU-LT455-MES-TRAC-XX-D-E0-5107				P01
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