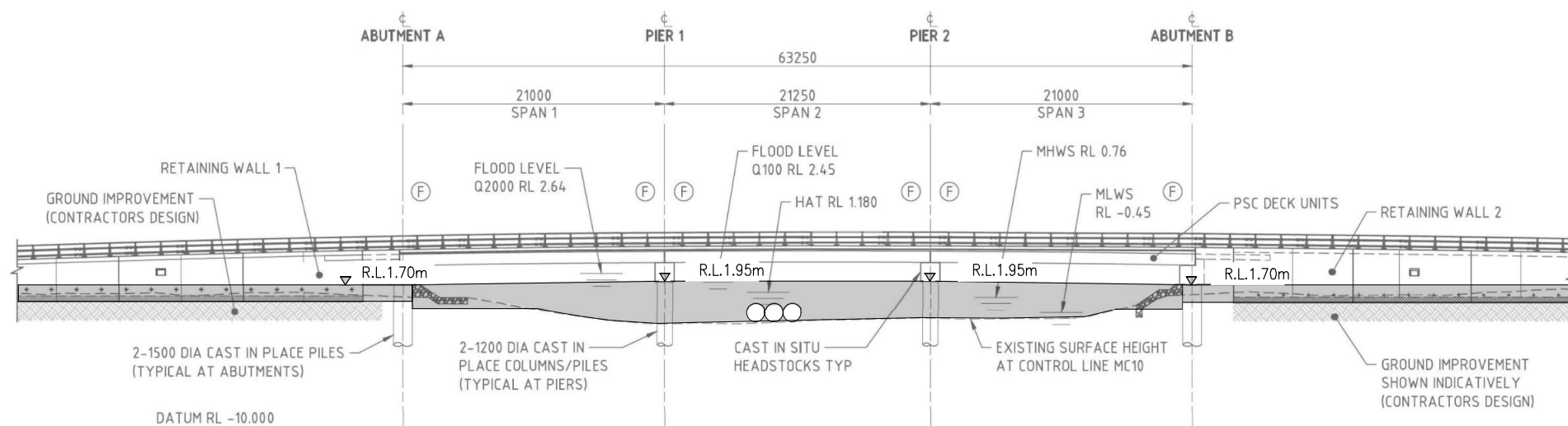


LOCATION PLAN : PILING PLATFORMS AND ACCESS TRACK



DATUM RL -10.000	
DESIGN HEIGHT	4.443 4.459
NATURAL SURFACE	0.866 0.828
CHAINAGE ALONG CONTROL LINE MC10	160.000 160.918
	180.000 181.918
	200.000 203.168
	220.000 224.168

LONGITUDINAL SECTIONS

- LEGEND**
- 2.0m SETBACK DISTANCE FROM BATTER HINGE POINT OR EDGE OF THE PLATFORM IN TRANSVERSE DIRECTION / EXCLUSION ZONE
  - 4.0m SETBACK DISTANCE FROM BATTER HINGE POINT OR EDGE OF THE ACCESS TRACK WHEN TRAVELLING AND STANDING - EXCLUSION ZONE
  - PLATFORMS, NOT TO SCALE (NTS)

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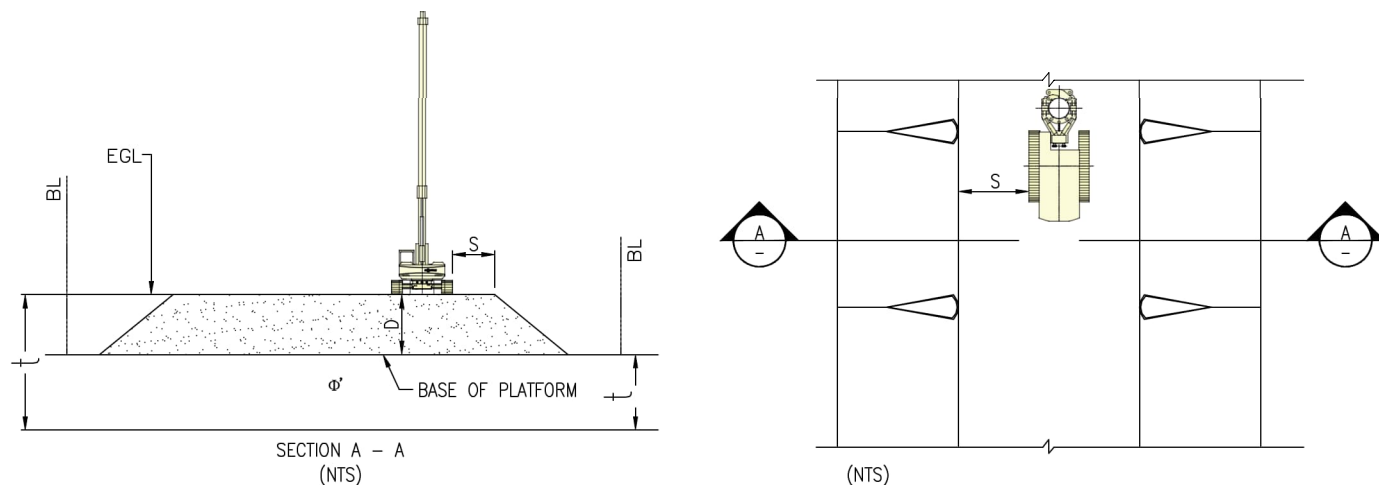
LOCATION	CONSTRUCTION PLANT AND LOADING CONSIDERED IN DESIGN	SUBGRADE		PLATFORM REQUIREMENTS			ACCESS TRACK REQUIREMENTS			HIGH STRENGTH GEOGRID FOR PLATFORM STABILITY (LONGITUDINAL LAYER)
		ASSUMED SUBGRADE STRENGTH	SUBGRADE THICKNESS	MINIMUM PLATFORM THICKNESS	MINIMUM TRANSVERSE CLEAR DISTANCE	PLATFORM MATERIAL	MINIMUM PLATFORM THICKNESS	MINIMUM TRANSVERSE CLEAR DISTANCE	PLATFORM MATERIAL	
		Su (kPa)	t (m)	D (m)	S (m)	TYPE	D (m)	S (m)	TYPE	
PLATFORMS 1, 2 & 3	BAUER BG30/LBR-155	9.00	4.00	2.00	2.60	ROCKFILL (MRTS04)	2.00	4.00	ROCKFILL (MRTS04)	REFER TO TABLE BELOW

GENERAL NOTES

- CONTRACTOR SHALL REVIEW DESIGN BASIS DOCUMENTED IN REPORT AND DRAWINGS. IF CONDITIONS DIFFER FROM THOSE NOMINATED IN THE DESIGN, CGC MUST BE CONTACTED FOR FURTHER ADVICE PRIOR TO PROCEEDING.
- GOOD PRACTICE OF TEST LOADING THE TRACKS AND FOUNDATION SYSTEM SHALL BE OBSERVED BY THE CONTRACTOR PRIOR TO THE WORKS COMMENCING. SHOULD SIGNIFICANT MOVEMENTS BE OBSERVED, WORK SHALL BE STOPPED AND CGC CONTACTED FOR FURTHER ADVICE.
- REVIEW OF BURIED SERVICES AND ASSOCIATED IMPACTS DURING PILING & CRANE WORKS ARE OUTSIDE OF SCOPE OF THIS COMMISSION AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- WORKING PLATFORMS SHALL BE ADEQUATELY CONSTRUCTED, INSPECTED, CONTROLLED AND MAINTAINED BY CONTRACTOR TO ENSURE PLATFORM IS FIT FOR PURPOSE.
- MAXIMUM PLATFORM GRADE 1V:10H U.N.O
- AREAS OUTSIDE NOMINATED CLEAR DISTANCES ARE NO - GO ZONES FOR PLANT.
- ROCKFILL SHALL MEET THE MATERIAL SPECIFICATION REQUIREMENTS OF MRTS04, INCLUDING STRENGTH, DURABILITY AND GRADING. ROCK FILL SHALL BE PLACED IN UNIFORM HORIZONTAL LAYERS NOT EXCEEDING THE THICKNESSES SPECIFIED IN MRTS04 WHICH IS DEPENDENT ON FACTORS SUCH AS COMPACTIVE EFFORT AND PARTICLE SIZE. EACH LAYER OF MATERIAL SHALL BE ROLLED UNTIL MECHANICAL INTERLOCK IS ACHIEVED. THE NUMBER OF PASSES TO ACHIEVE ADEQUATE INTERLOCK IS DEPENDENT ON FACTORS SUCH AS LAYER THICKNESS, PARTICLE SIZE AND APPLIED COMPACTIVE EFFORT AND MAY BE IN EXCESS OF 10-12 PASSES.
- THE MAXIMUM PARTICLE SIZE OF THE ROCKFILL IS DEPENDENT ON THE COMPACTED LAYER THICKNESS. THE LAYER THICKNESS AND COMPACTION EQUIPMENT SHALL BE CHOSEN TO MEET THE REQUIREMENTS OF CL15.4 OF MRTS04.
- THE WORKING PLATFORM SURFACE SHALL REMAIN DRY AT ALL TIME. WATER PONDING IS NOT ALLOWED ON THE PLATFORM SURFACE. AS SUCH, THE PLACED ROCKFILL PLATFORM SHALL ACT AS A FREE DRAINING LAYER.
- HB MAY ELECT TO INSTALL A SHEETING LAYER OF TYPE 2.3 (OR EQUIVALENT) OF 100MM THICKNESS ON TOP OF THE PLATFORM AS A TRAFFIC LAYER. IF PLACED, THIS MATERIAL SHALL BE COMPACTED TO ACHIEVE A MINIMUM DRY DENSITY OF 98% RELATIVE TO STANDARD COMPACTION.
- PLATFORM REINFORCEMENT REQUIREMENTS ARE OUTLINED IN THE TABLE BELOW.

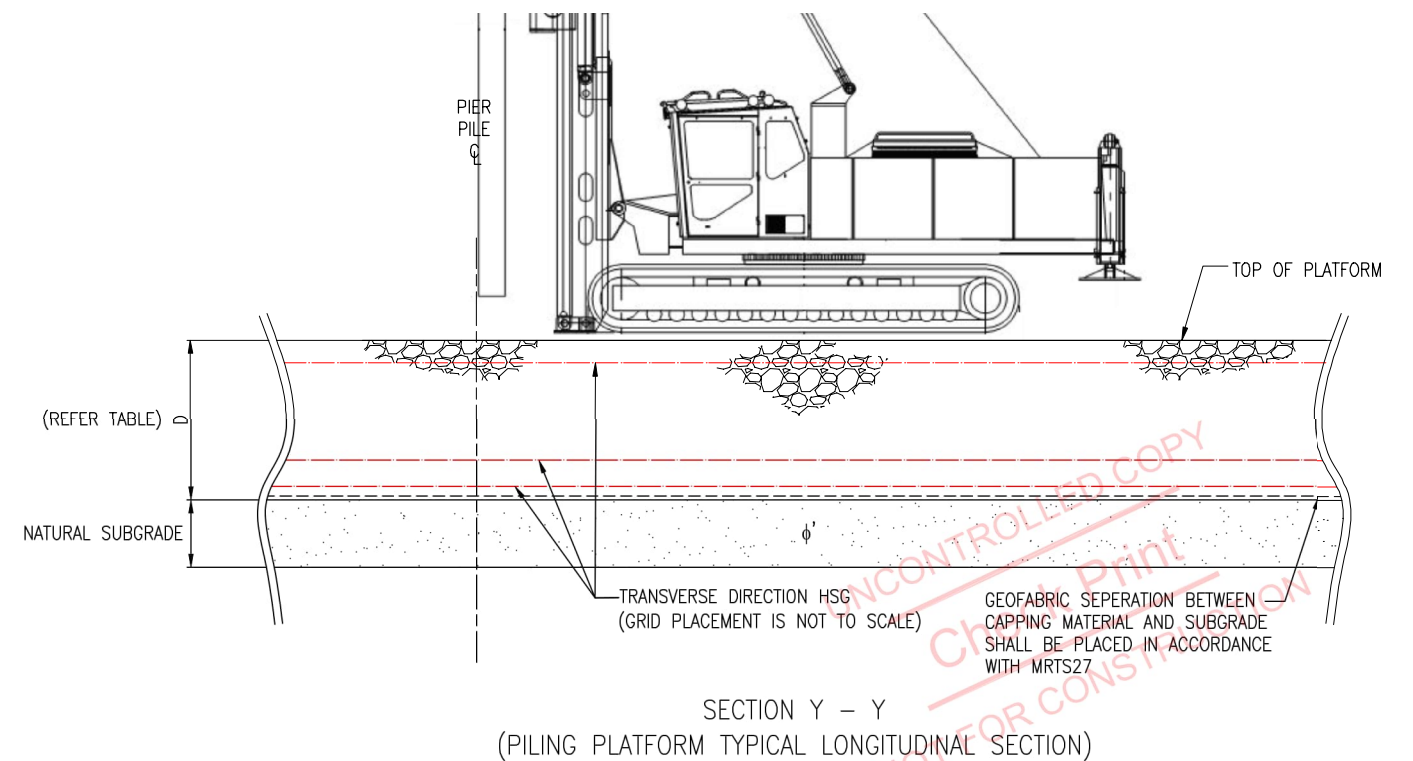
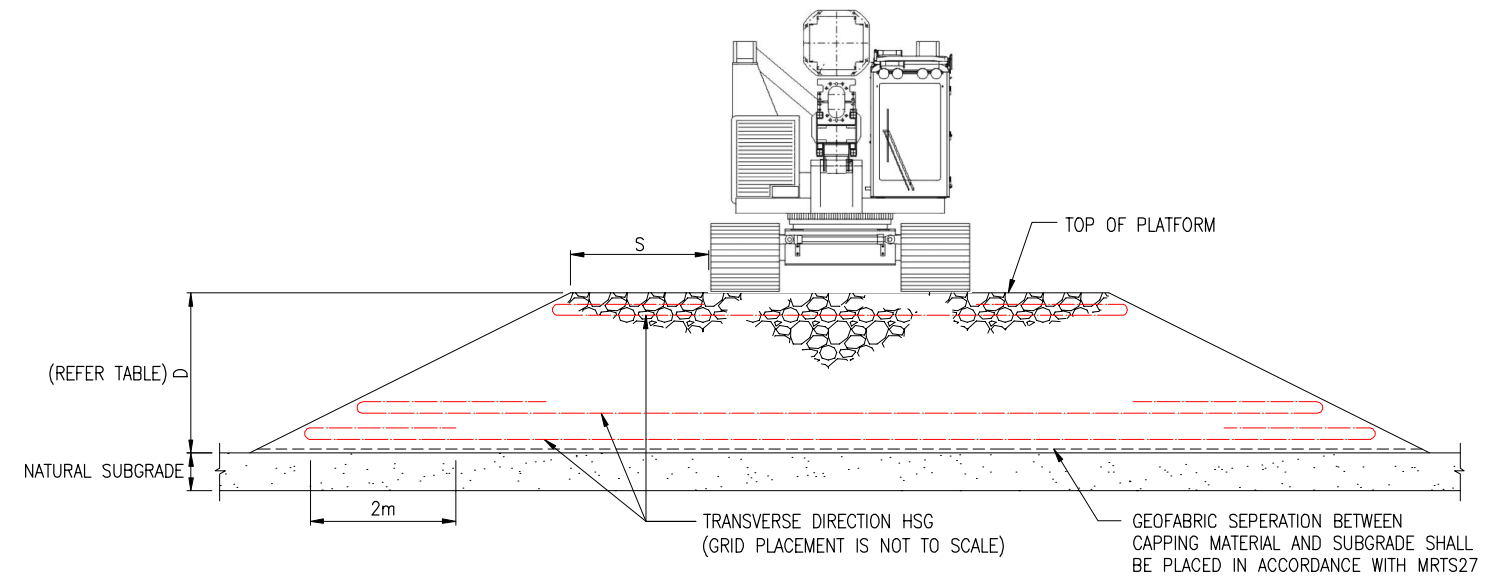
LOCATION	ID	REINFORCEMENT	DESIGN STRENGTH (TD)kN	MINIMUM COVER OVER HSG(mm)	LOCATION	MAIN DIRECTION EXTENT
PLATFORMS 1, 2, & 3	TYPE 1	BIAXIAL GEOGRID	40	300 BFS	ALL PLATFORMS	PLATFORM WIDTH (TRANSVERSE DIRECTION)
	TYPE 2	HSG	285	1400 BFS	ALL PLATFORMS	PLATFORM WIDTH (TRANSVERSE DIRECTION)
	TYPE 3	HSG	400	1700 BFS	PIERS AND RIVER CROSSING	PLATFORM WIDTH (TRANSVERSE DIRECTION)

- HSG AND GEOGRID TO BE EXTENDED INTO THE ABUTMENT GROUND IMPROVEMENT ZONES INSTEAD OF OVERLAPPING AT THE END OF THE PILING PLATFORM. IF THIS EXTENSION IS NOT POSSIBLE AND FOR TRANSVERSE LAYERS OF REINFORCEMENT THE HSG AND GEOGRID SHALL BE WRAPPED A MINIMUM 2M BACK INTO THE EMBANKMENT/PLATFORM AT ALL EDGES TO ENSURE ADEQUATE TENSION IS MAINTAINED AT ALL TIMES WITH A MINIMUM 150MM LAYER OF MATERIAL CAPPED ABOVE AND BELOW THE GEOGRID (INCLUDING TOP AND BOTTOM LAPS).
- HSG AND GEOGRID TO BE PLACED CONTINUOUSLY IN THE MAIN DIRECTION WITH MINOR DIRECTION OVERLAP OF MINIMUM 500mm.
- HSG AND GEOGRID TO BE PLACED AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION AND IN LINE WITH MRTS100.



- SPECIFIED SETBACK DISTANCE TO BE MAINTAINED AT ALL TIMES - REFER TO TW01-002 & TW01-003 FOR THE SETBACK/EXCLUSION ZONES.
- HB MAY ELECT TO CONSTRUCT THE TEMPORARY PLATFORM USING TYPE 2.3 (OR EQUIVALENT) AT THE PILE POSITIONS. IN SUCH A CASE, MAXIMUM WIDTH OF PLACEMENT AREA SHALL BE 1.6M (0.8M ON EITHER SIDE OF PILE CENTRE LINE). THIS AREA SHALL BE DESIGNATED AS EXCLUSION ZONE FROM PILING LOADING PERSPECTIVE. IF PLACED, THIS MATERIAL SHALL BE COMPACTED TO ACHIEVE A MINIMUM DRY DENSITY OF 98% RELATIVE TO STANDARD COMPACTION. LAYERS PLACEMENT SHALL BE CARRIED OUT IN ACCORDANCE WITH MRTS04 CL.15.3.

HOLD POINT	PROCESS HELD	RELEASE BY	DETAILS
TW02_HP_01	PLACEMENT OF PLATFORM MATERIAL	CGC	FOUNDATION INSPECTION, TESTING & VALIDATION BY CGC
TW02_HP_02	PLACEMENT OF ROCKFILL OVER HSG	CGC	INSPECTION OF HSG LAYOUT BY CGC
TW02_HP_03	MOBILISATION OF RIG ONTO PLATFORM	CGC	PROOF ROLL OF PLATFORM / CAPPING MATERIAL, WITNESSED BY CGC



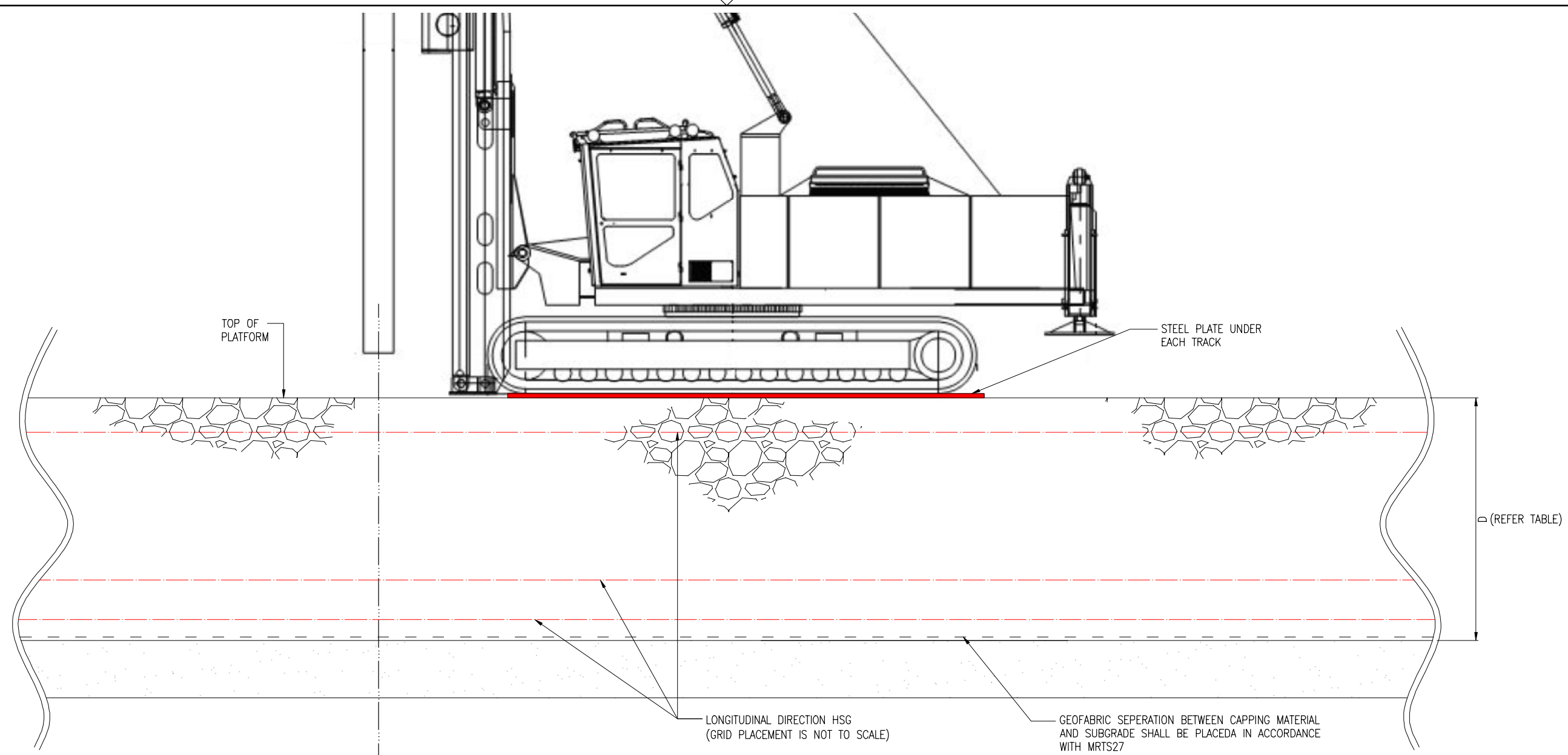
KEY  
 LONGITUDINAL HSG

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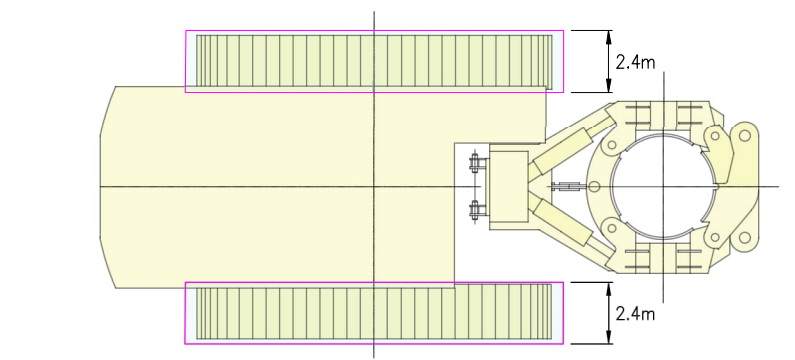
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TIME  
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TYPICAL DETAIL  
(PILING PLATFORM)



TYPICAL DETAIL  
STEEL PLATE ARRANGEMENT  
(FOR PILING RIG UNDER BRE LOADING CASES OF HANDLING, PENETRATING AND EXTRACTING)

STEEL PLATE AND SETBACK NOTES:

1. THE PILING RIG IS TO OPERATE ON STEEL PLATES (OR DURABASE MATS) AT ALL TIMES FOR THE LOADING CASES OF HANDLING, PENETRATING, AND EXTRACTING TO ACHIEVE A MINIMUM EQUIVALENT BEARING WIDTH OF 2.4m UNDER THE FULL LENGTH OF EACH TRACK.
2. A MINIMUM SETBACK OF 2.0m MEASURED FROM THE BATTER HINGE POINT AND THE EDGE OF THE RIG TRACK (OR STEEL PLATE) SHALL BE MAINTAINED AS A MINIMUM WHILE UNDERTAKING PILING OPERATIONS.
3. STEEL PLATES USED SHALL HAVE ADEQUATE STRUCTURAL CAPACITY TO TRANSFER RIG LOADING PRESSURES UNIFORMLY TO PLATFORM (TO BE CONFIRMED BY OTHERS).
4. BIAxIAL GEOGRID/HSG PLACED WITHIN THE PILE POSITIONS MAY NEED TO BE CUT OUT PRIOR TO PLACING CAPPING MATERIALS. THE CUT OUT SHALL BE OF MAXIMUM 200mm WIDER THAN THE DIAMETER OF THE PILE. THIS IS TO BE CARRIED OUT FOR AVOIDING ENTANGLEMENT OF THE BIAxIAL GEOGRID/HSG WITH THE PILING EQUIPMENT DURING THE PILE PILING EXCAVATION.

KEY  
--- TRANSVERSE DIRECTION HSG

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