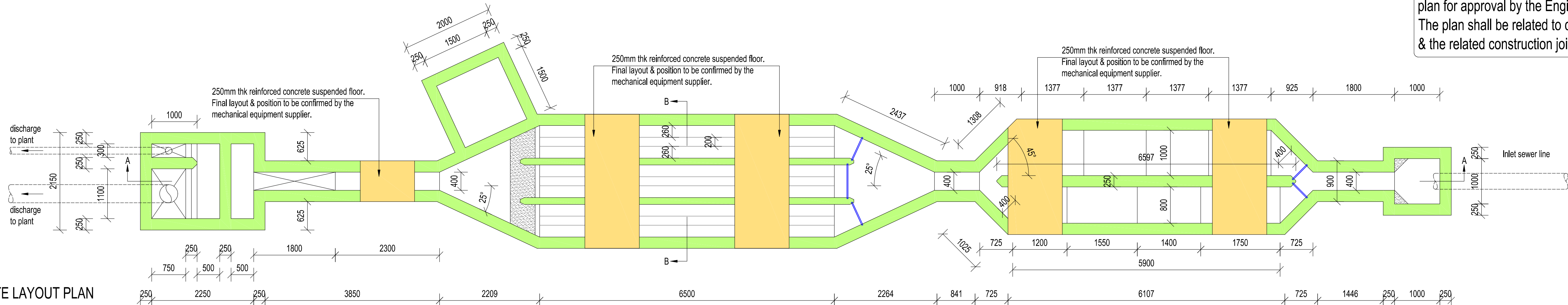
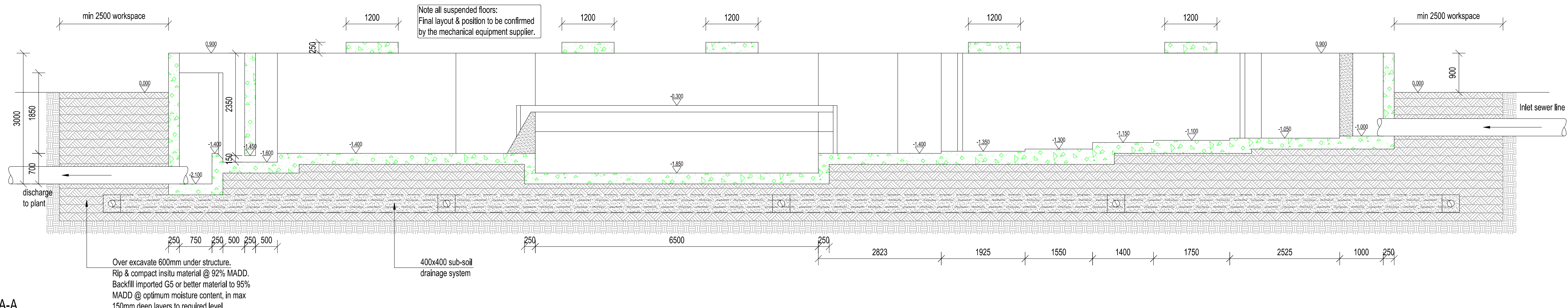


The Contractor shall submit a concrete casting plan for approval by the Engineer.
The plan shall be related to casting lifts, panels & the related construction joints/waterstops.



CONCRETE LAYOUT PLAN
scale 1:50



SECTION A-A
scale 1:50

NOTES

1. STRUCTURAL CONCRETE:

- 1.1. CONCRETE GRADE
- W35MPA/19 WATER RETAINING STRUCTURES SPECIAL DESIGN.
- PENETRON WATERPROOFING ADMIX OR SIMILAR TO BE ADDED TO THE CONCRETE

- 1.2. MIN CEMENT CONTENT = 325KG/M3.
MAX CEMENT:WATER RATION = 0.55.
CHARACTERISTIC CUBE STRENGTH = W35MPA @ 28DAYS UNO.

- 1.3. NON SHRINKING AND LOW EXPANSION AGGREGATES ARE TO BE USED.
CONCRETE MIX DESIGN TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ANY
WORK.

- 1.4. CONCRETE TO BE THOROUGHLY MACHINE VIBRATED AND AROUND ALL JOINTS, PENETRATIONS AND WATER STOPS. SPECIAL CARE MUST BE TAKEN TO ENSURE GOOD VIBRATION OF THE CONCRETE.

- 1.5. STEEL SHUTTERS ARE TO BE USED FOR WALLS AND STRIPPED 5 DAYS AFTER CASTING OF CONCRETE. CONCRETE BASE IS TO BE WET CURED FOR 5 DAYS.
ALL EXPOSED SURFACES SMOOTH FINISH.

- 1.6. NO PLASTIC FERRULES FOR FORMWORK TIES WILL BE ALLOWED.

- 1.7. NO FIXINGS WILL BE PERMITTED INTO CONCRETE UNO.

- 1.8. THE STRUCTURE WILL BE POURED IN LIFTS/SECTIONS. JOINTS TO BE PROPERLY CLEANED AND DAMP PRIOR TO CASTING OF NEXT LIFT/SECTION.

- ### 1.9. STRUCTURE DESIGNED FOR 0.2MM CRACK WIDTH.

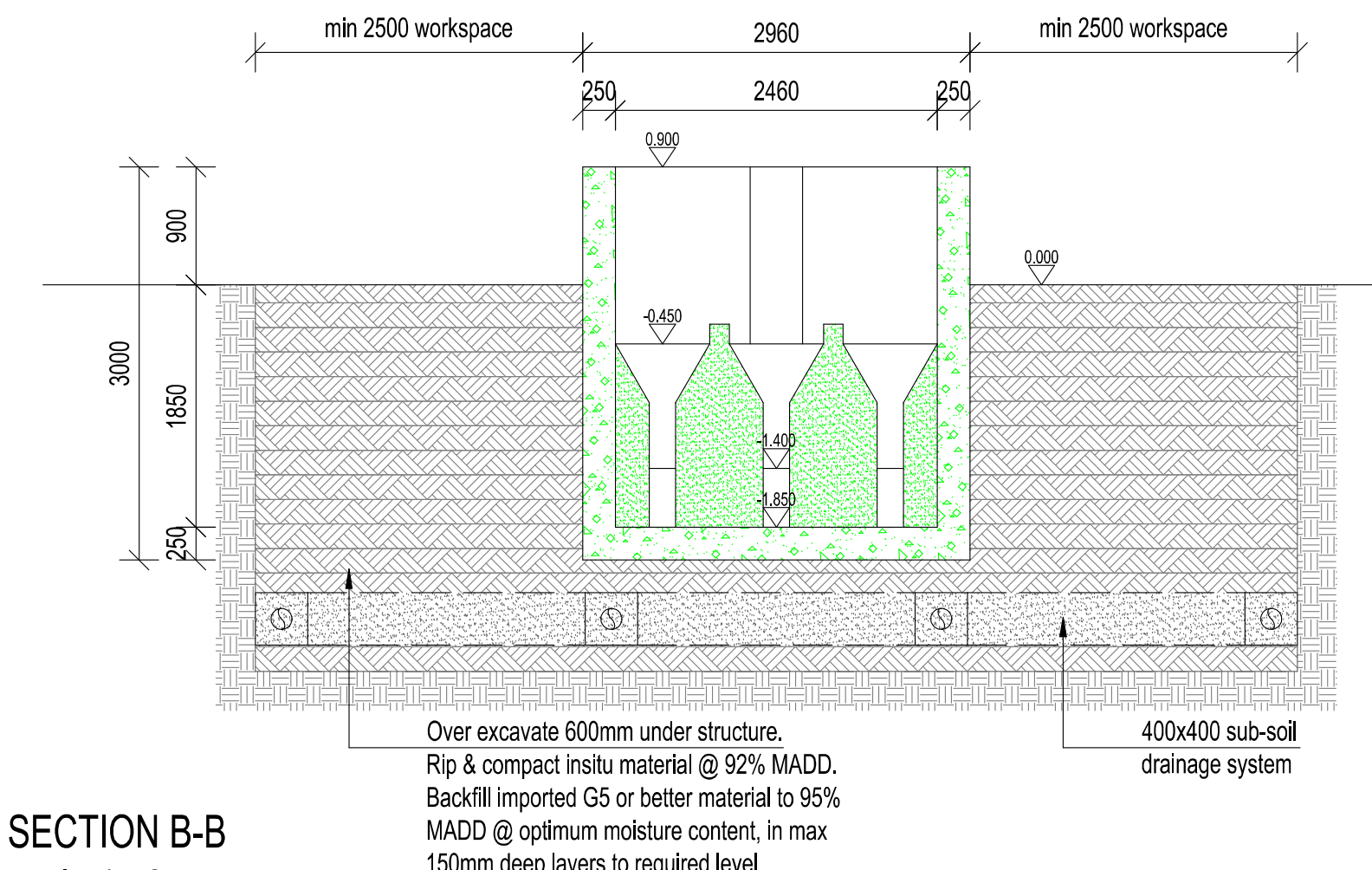
2. ENGINEER TO INSPECT AND APPROVE ALL WORK BEFORE CASTING OF CONCRETE.

3. ALL PIPEWORK AND VALVES SHALL BE TO THE MECHANICAL ENGINEER'S SPECIFICATIONS.

4. ALL WATERSTOPS ARE TO BE SANS APPROVED. WATERSTOPS TO BE INCLUDED IN ALL JOINTS IN CONCRETE AS SHOWN ON THE DRAWINGS.

5. RESERVOIR IS TO BE TESTED STRICTLY IN ACCORDANCE WITH RELEVANT SANS 1200 SECTIONS.

- 6. CUBE TESTING SHALL BE STRICTLY IN ACCORDANCE WITH SANS1200G CLAUSE 7:
- SAMPLES SHALL BE TAKEN ON-SITE IN THE PRESCRIBED PROCEDURE.
- CUBES SHALL BE MADE IN THE PRESCRIBED PROCEDURE.
- A TEST WILL BE SIX (6) (150x150) CUBES; THREE (3) CUBES TO BE CRUSHED @ 7 & 28 DAYS RESPECTIVELY.
- FIVE (5) TESTS SHALL BE DONE PER 6m³ OF CONCRETE DELIVERED FOR THE FIRST TEN (10) LOADS.
- THERAFOR TESTS SHALL BE DONE @ A RATE OF ONE (1) TEST FOR EACH DAY OF CASTING AND FROM AT LEAST EVERY 50m³ OF CONCRETE OF EACH GRADE PLACED.



SECTION B-B
scale 1:50

CONSULTANT		REFERENCE DRAWINGS			REVISION			APPROVAL			PROJECT NAME REFURBISHMENT & UPGRADING OF THE TWEEFONTEIN WASTE WATER TREATMENT WORKS DRAWING NAME INLETWORKS - CONCRETE LAYOUT PLAN & SECTIONS			CONTRACT NO		
CONSULTING ENGINEERS		REV NO	DESCRIPTION	DRAWING	REV NO	DESCRIPTION	DATE	INT	DESIGN BY: S. LAYNES	SIGNATURE				DATE	PROJECT NO 2024/025	
K&A PROJECT NO									DRAWN BY: M. PIENAAR						PROVINCE MPUMALANGA	
K&A REVISION NO									CHECKED BY: M. KROMHOUT						DISTRICT	
 "We Develop – Re a Tlhabolola" 63 SMIT AVENUE, FLAMWOOD P.O. BOX 1793 KLERKSDOORP, 2571 KLERKSDOORP, 2571 TEL: (+27) 18 464 4482, FAX: (+27) 18 464 2384 E-MAIL: king@kinga.co.za									APPROVED BY: M. KROMHOUT			DATE APRIL 2024		SCALE INDICATED	SHEET NO 1 OF 1	
													DRAWING NO 050			