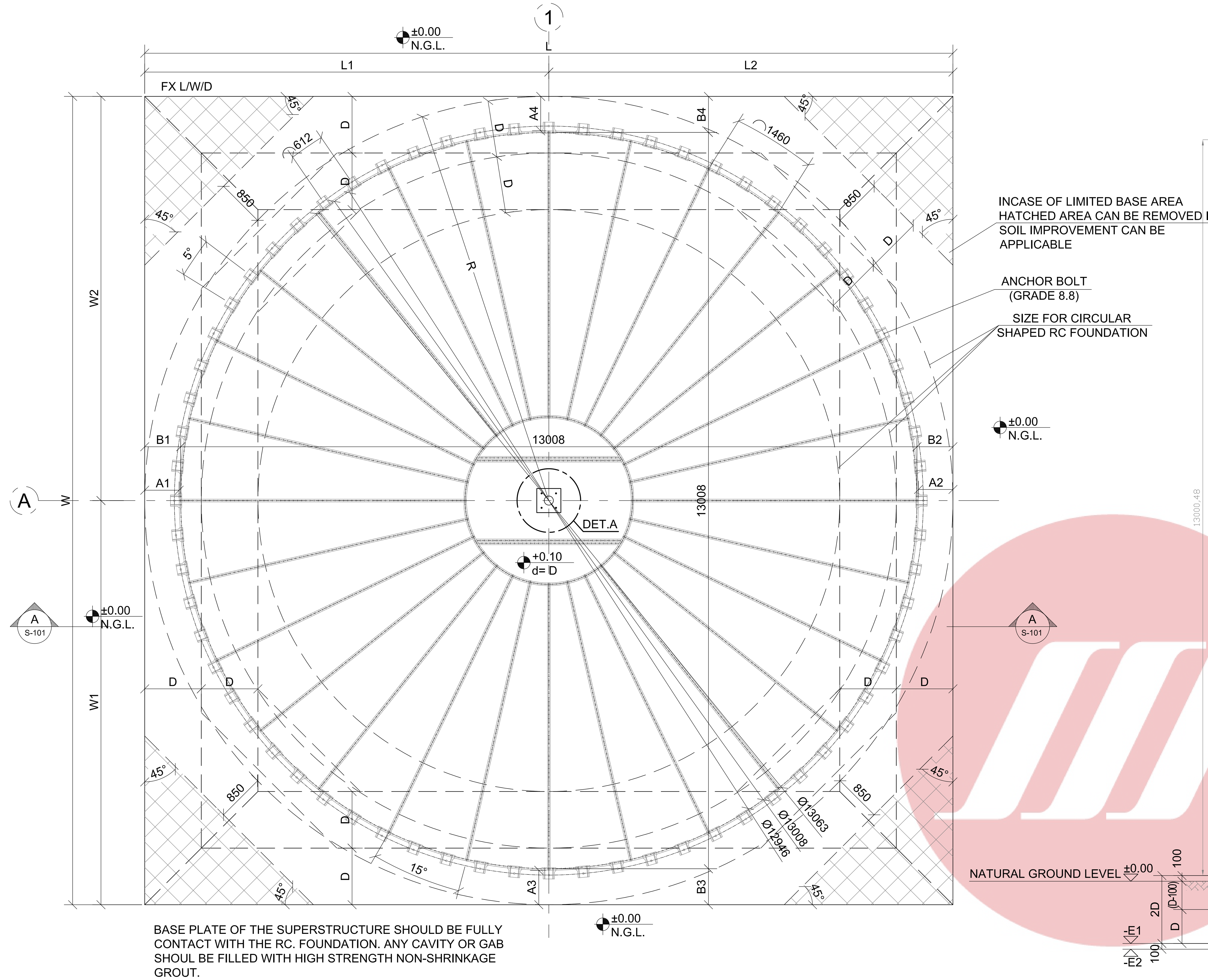
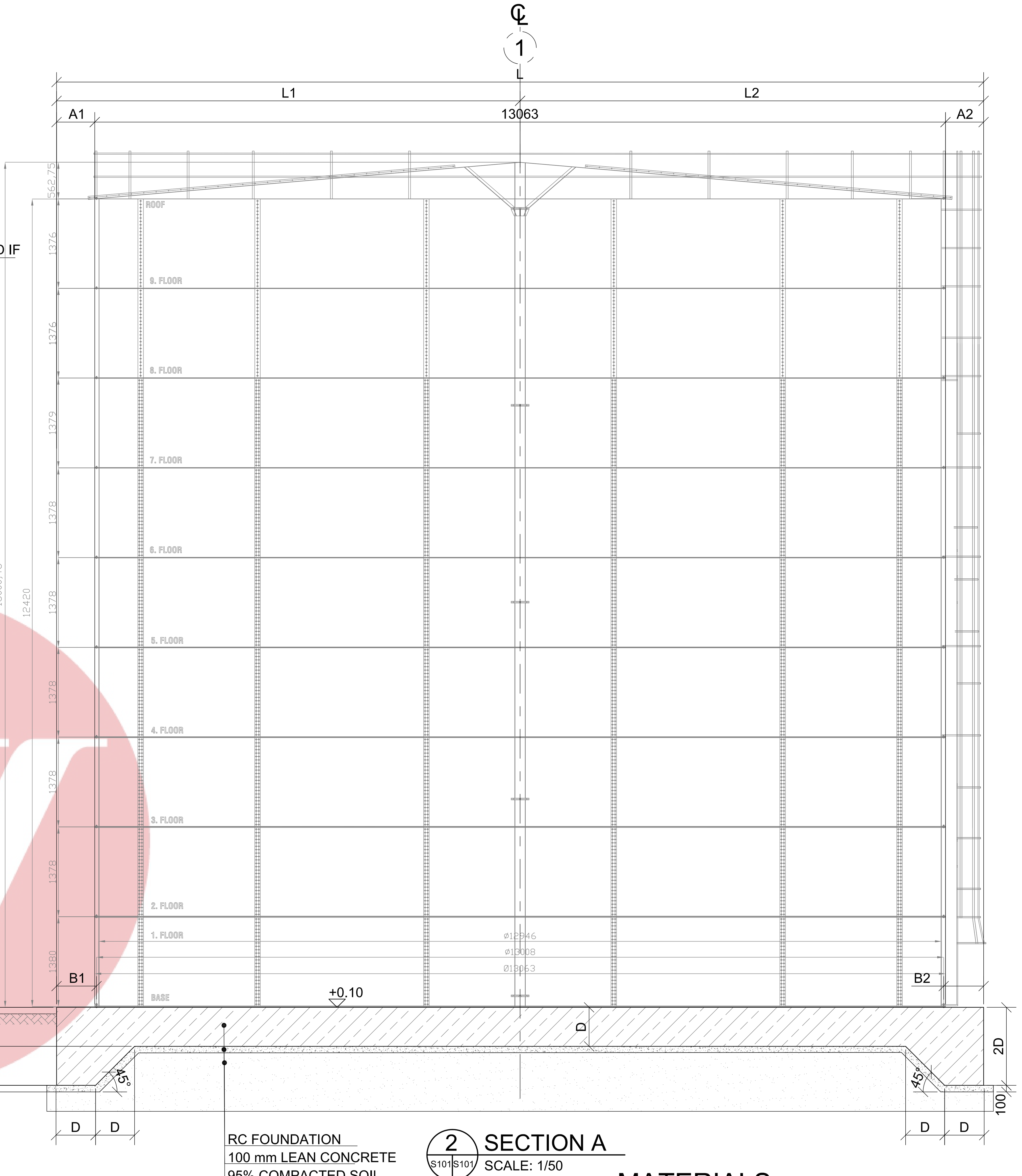
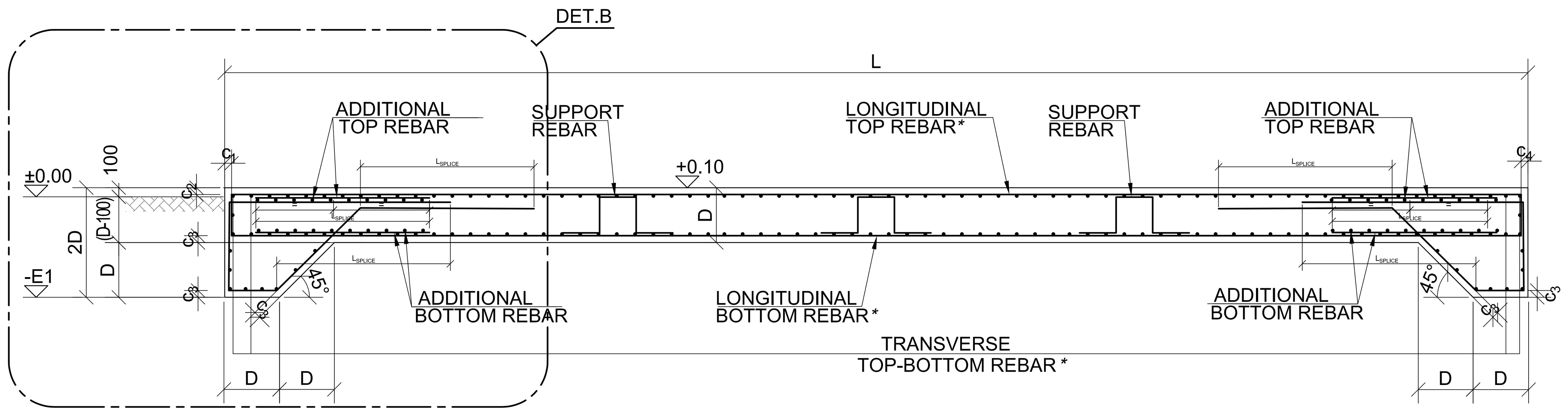


1 REINFORCEMENT PLAN
SCALE: 1/50

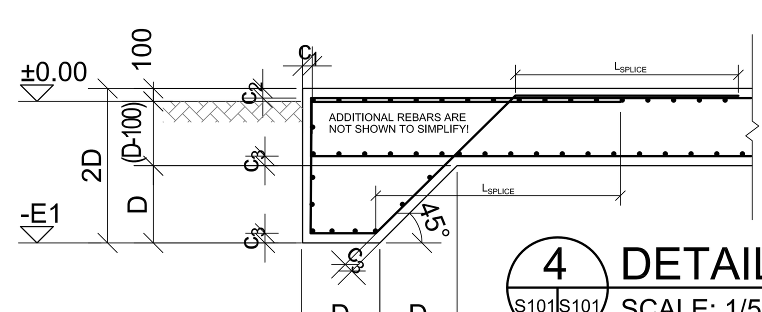


2 SECTION A
SCALE: 1/50



* TOP & BOTTOM REBAR OVERLAPPING HAS TO BE STAGGERED.

3 REINFORCEMENT DETAIL
SCALE: 1/50



4 DETAIL B
SCALE: 1/50

GENERAL NOTES:

1. UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN MILIMETERS AND ALL ELEVATIONS ARE IN METERS
2. BEFORE CONSTRUCTION ALL DIMENSIONS WILL BE CHECKED BY CONTRACTOR.
3. BEFORE CONSTRUCTION SUPERSTRUCTURE DETAILS, MECHANICAL DETAILS, INLETS, OUTLETS WILL BE CHECKED BY CONTRACTOR. ANY DISCREPANCY IN STRUCTURE DETAIL SHOULD BE REPORTED TO D.O.R.
4. BEFORE CONSTRUCTION ALL EMBEDDED MEMBERS, PLATES AND GROUTING WILL BE CONTROLLED BY CONTRACTOR.
5. ±0.00 ELEVATION CORRESPONDS TO NATURAL GROUND LEVEL. REFERENCE CIVIL DRAWINGS FOR DATUM ELEVATION.
6. TOP OF FOUNDATION ELEVATIONS ARE GIVEN AS THE DISTANCE IN MILIMETERS FROM SITE FINISHED GRADE.
7. ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED AS 150 kPa UNDER GRAVITY LOADS AND 225 kPa (50% INCREASE) UNDER TOTAL DESIGN LOAD (INCLUDING WIND OR SEISMIC). THE LOWER BEARING CAPACITY AS PER THE RESULT OF GEOTECHNICAL REPORT FOR CONSTRUCTION SITE SHOULD BE REPORTED TO D.O.R.
8. THE SITE CLASS IS CONSIDERED AS ZD FOR UNDETERMINED SITES AND MODULUS OF SUB-GRADE REACTION IS ASSUMED AS 50,000 kPa/m.
9. A MAX. TOTAL SETTLEMENT LIMIT IS CONSIDERED AS 25 mm AND A MAX. DIFFERENTIAL SETTLEMENT LIMIT IS CONSIDERED AS 13 mm. THE LOWER SETTLEMENT LIMIT AS PER THE RESULT OF GEOTECHNICAL REPORT FOR CONSTRUCTION SITE SHOULD BE REPORTED TO D.O.R.
10. THE TOP OF CONCRETE SURFACE SHOULD BE FLAT WITHOUT ANY CAVITY, ROUGHNESS OR SLOPE. THE TOP OF FOOTING SHOULD BE FLASH WITH THE WATER STORAGE TANK BASE PLATE. THE TOP OF CONCRETE SURFACE SHOULD BE LEVELED AND SMOOTHED WITH HIGH STRENGTH NON-SHRINKAGE GROUT IF THERE IS ANY DISORDER AND SLOPE.
11. FOUNDATIONS ARE TO BE PLACED ON UNDISTURBED SOIL OR COMPACTED FILL CONFORMING TO RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT (MAX UNCOMPACTED FILL LIFT=250mm).
12. ALL FILL PLACED UNDER FOOTING SHALL BE STRUCTURAL FILL AND SHALL BE COMPACTED TO NOT LESS THAN 95% PERCENT MAXIMIM DENSITY PER ASTM D1557 MODIFIED PROCTOR TEST AND PN-88 B-04481.
13. FX.X/X/X DENOTES CONCRETE FOUNDATION MARK. SEE SHEET S-102 FOR FOUNDATIONS SCHEDULE.
14. PROVIDE FOUNDATION DRAINS AROUND EXTERIOR PERIMETER OF THE FOUNDATION. REFER TO CIVIL DRAWINGS FOR DRAIN DETAILS AND ROUTING.
15. PRIOR TO PLACING CONCRETE, ANY WATER PRESENT IS TO BE PUMPED OUT FROM THE BOTTOM OF EXCAVATIONS.

MATERIALS:

- CONCRETE GRADE		f_c'= 30 MPa
- LEAN CONCRETE GRADE		f_c'= 16 MPa
- MORTAR COMPRESSIVE STRENGTH (ASM C-270)		f_c'= 12.4 MPa
- NON-SHRINK GROUT GRADE (ASTM C-1019)		f_c'= 35.0 MPa
- REINFORCEMENT (ASTM A615M)		f_y= 420 MPa
- ALL STRUCTURAL STEEL MEMBERS AND PLATES		f_y= 235 MPa
- ANCHOR BOLT, NUT, WASTER	GRADE 8.8	f_y= 660 MPa

CONCRETE COVER:

- CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	c= 75 mm
- EXPOSED TO WEATHER OR CONTACT WITH GROUND	c= 50 mm
- NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	c= 40 mm

LEGEND:

CONSTRUCTION JOINT : C.J.
EXPANSION JOINT : E.J.

0 200 400 800mm
SCALE = 1:10

0 1000 2000 4000mm
SCALE = 1:50

Client:

Contractor:

MARK	DESCRIPTION	DATE
1	IFA CONCEPT DESIGN SUBMITTAL	APRIL 03, 2023

DESIGNED BY: E.N.C.
DRAWN BY: T.C.T.
CHECKED BY: T.S.
SUBMITTED BY: T.C.A.
SIZE: ANSI D
ISSUE DATE: APRIL 2023
SOLICITATION NO.: ---
CONTRACT NO.: ---
PLOT DATE: 04/03/23
FILENAME: MEK-BKS-14-S-101PN.dwg

MEKSİS
MEKANİK SİS. İMAL.VE MÜH.A.Ş.
Adres:Sincan sanayi sit 3.cad No:97 SİNCAN/ANKARA
Tel:(0312)271 43 05-06Pbx Fax:(0312)271 43 04

TECTA ENGINEERING
ANKARA, TURKEY

FIRE WATER STORAGE TANKS
TURKEY

MEK-BKS-14 SERIES
(MEK-BKS-14S)

RC. RAFT FOUNDATION PLAN & TYPICAL DETAILS - 1/2

SHEET REFERENCE NUMBER
BKS-14
S-101