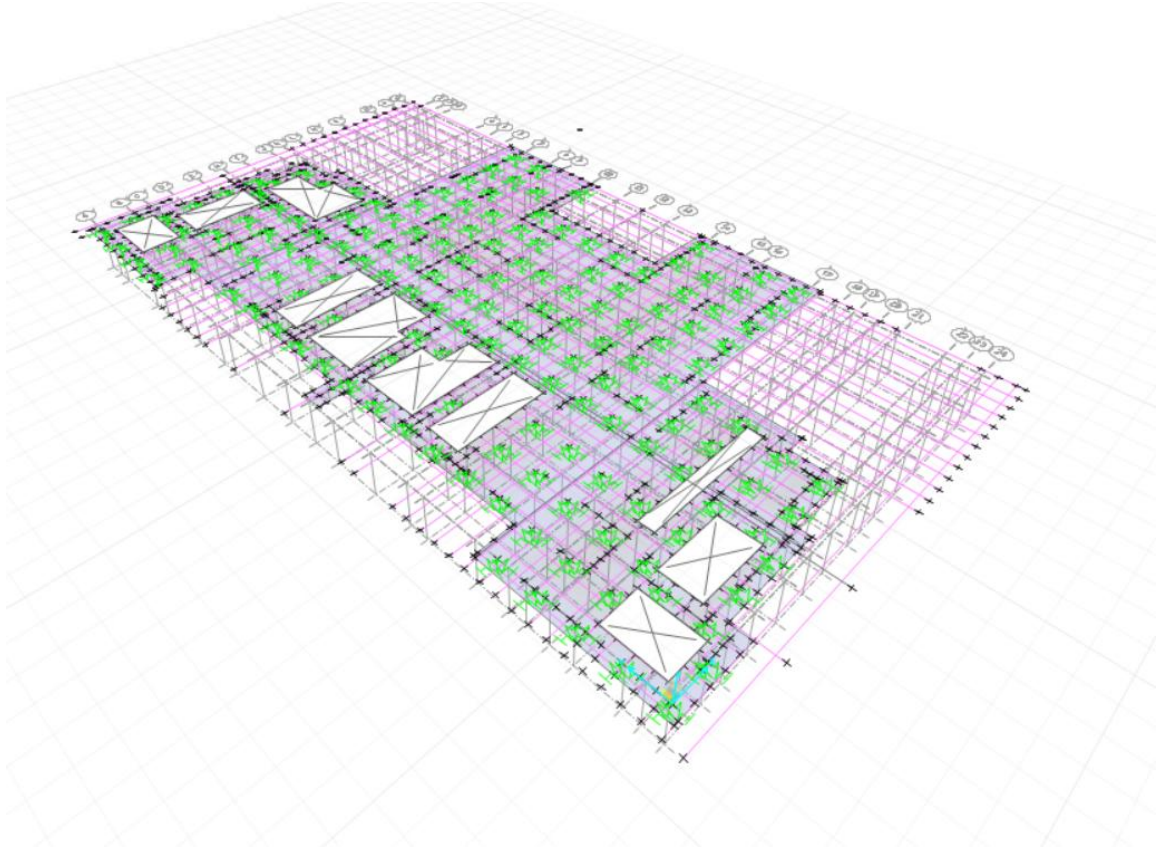


LAKE CITY APARTMENT, BAGHDAD



FOUNDATION DESIGN REPORT

Rev. 0, Dated 28.05.2024

Introduction:-

This report summarizes foundation design of Lakecity Apartment Building. Pile reactions and reinforcement calculation has been shown in this report.

Pile reactions has been calculated for following load combinations.

For Pile reactions:-

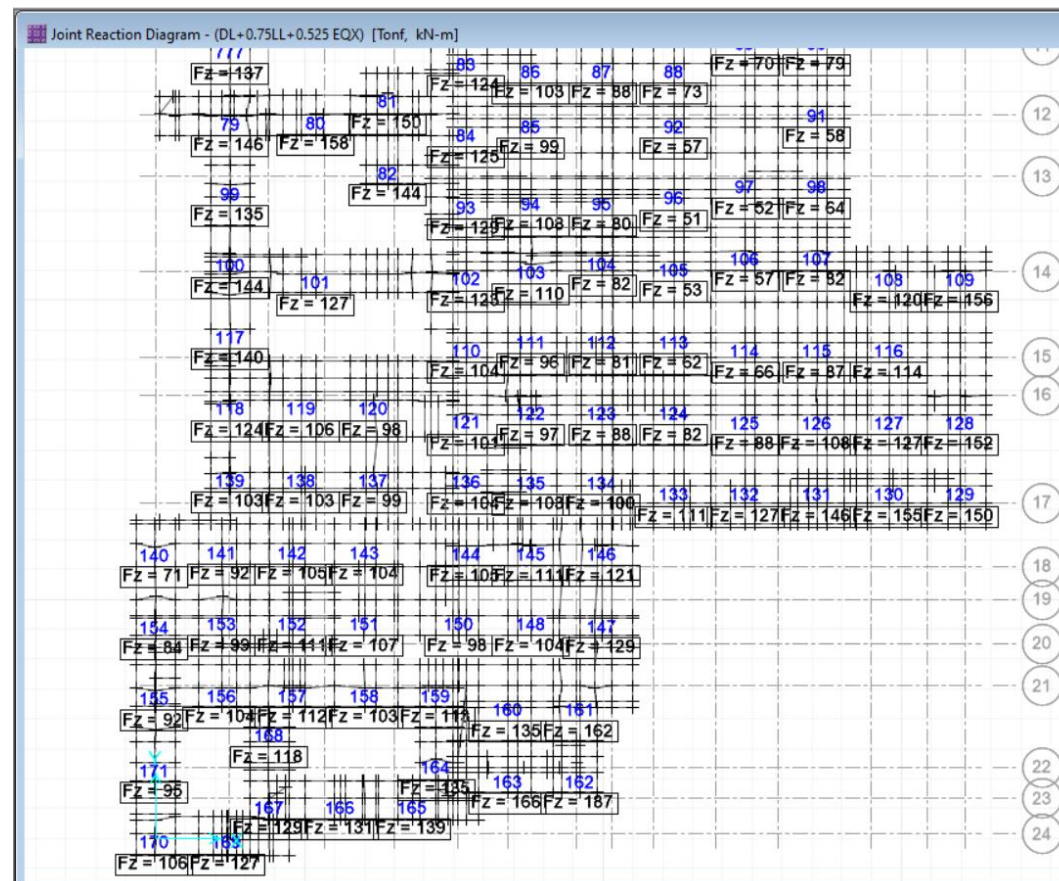
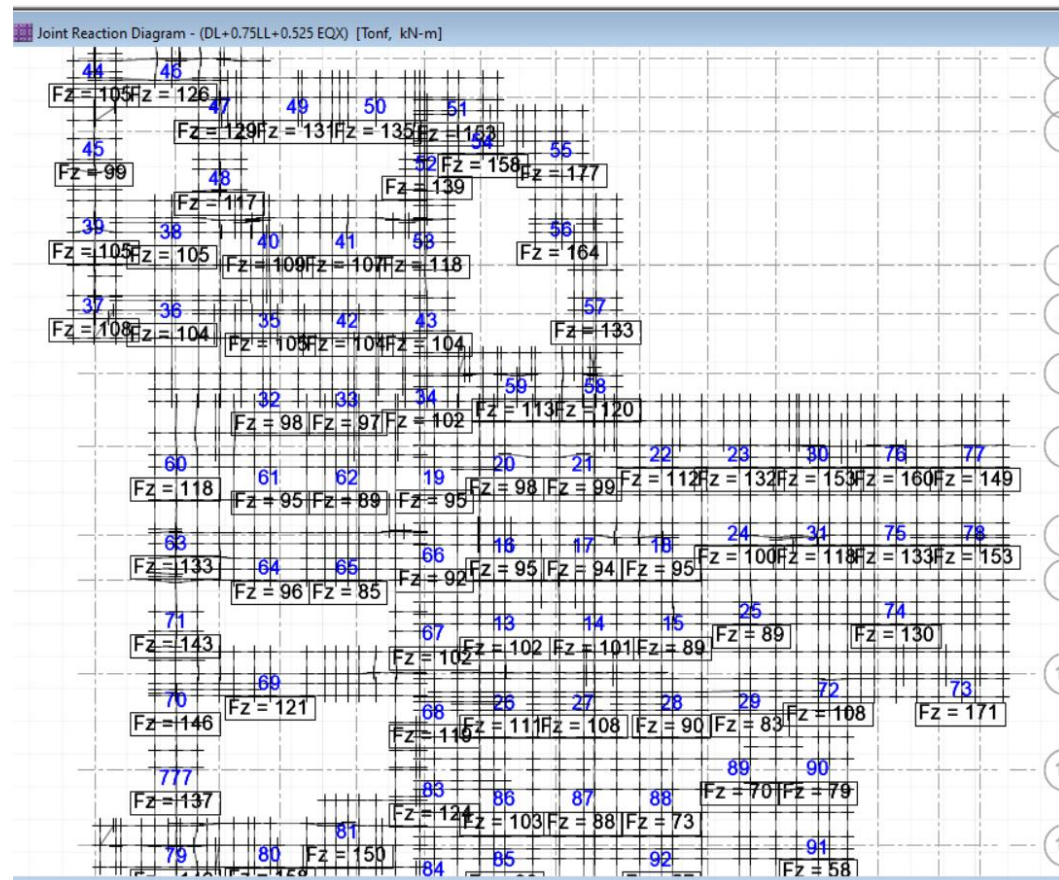
Following load combinations given in 2.4.5 of ASCE-7-16 has been used.

1. $1DL+1LL$
2. $1DL+0.75LL+0.525EQ_x$
3. $1DL+0.75+0.525 EQ_y$.

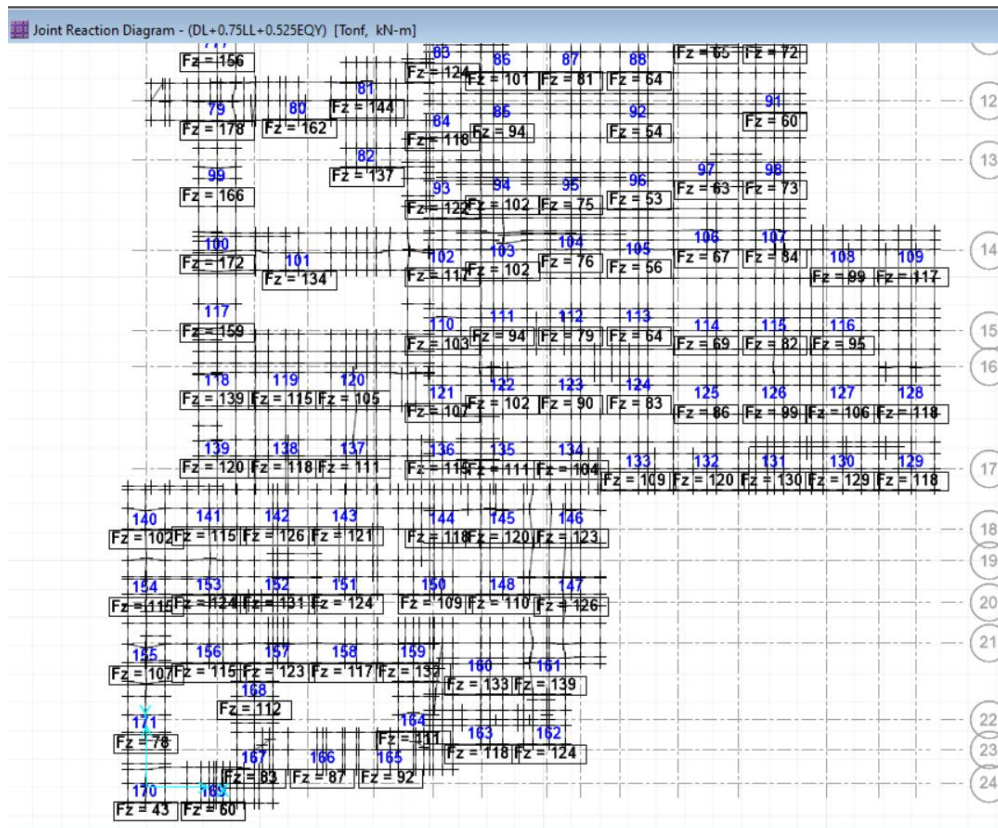
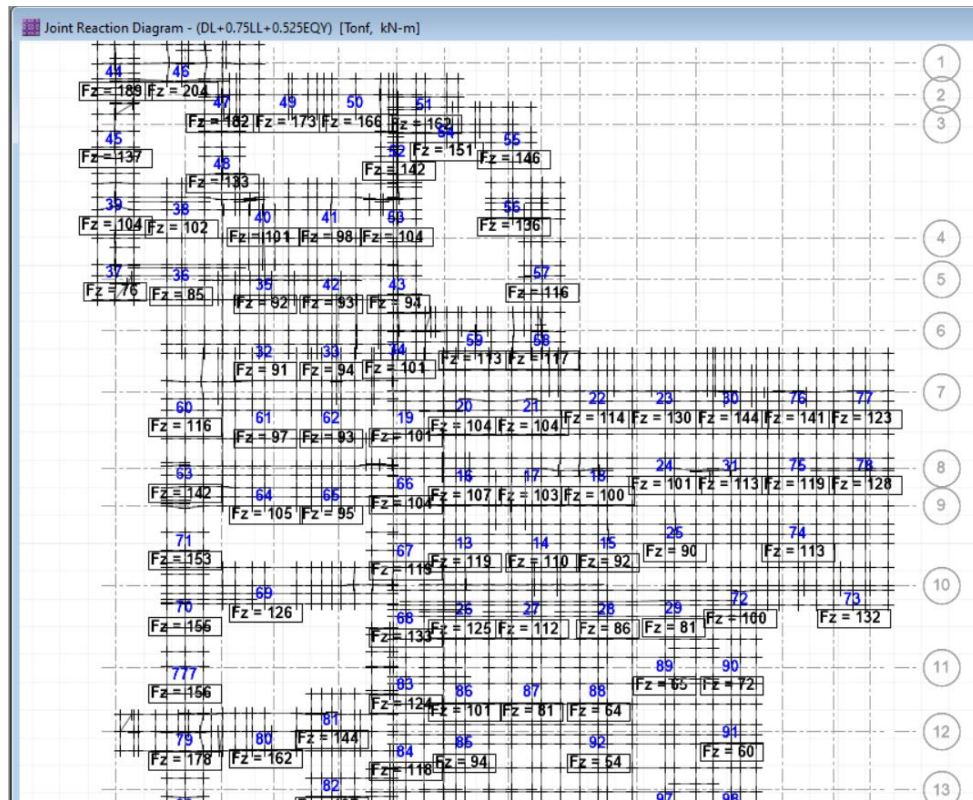
For Pile cap design:-

All load combination given in ASCE-7-16 has been used.

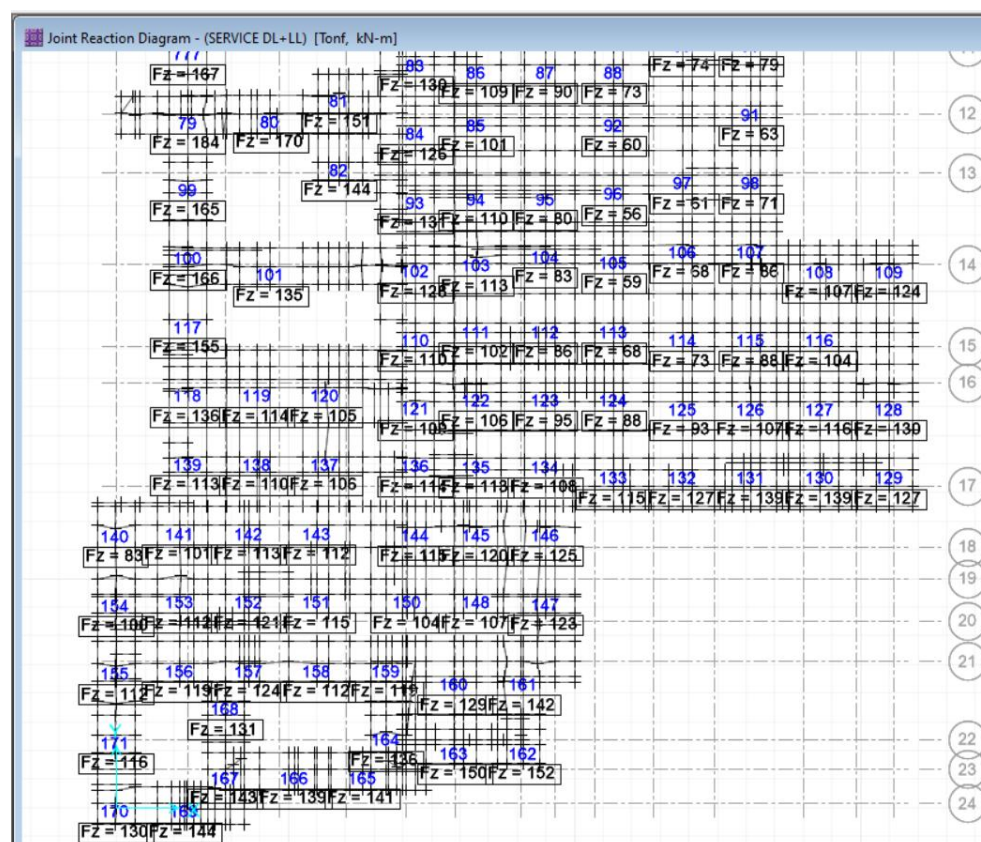
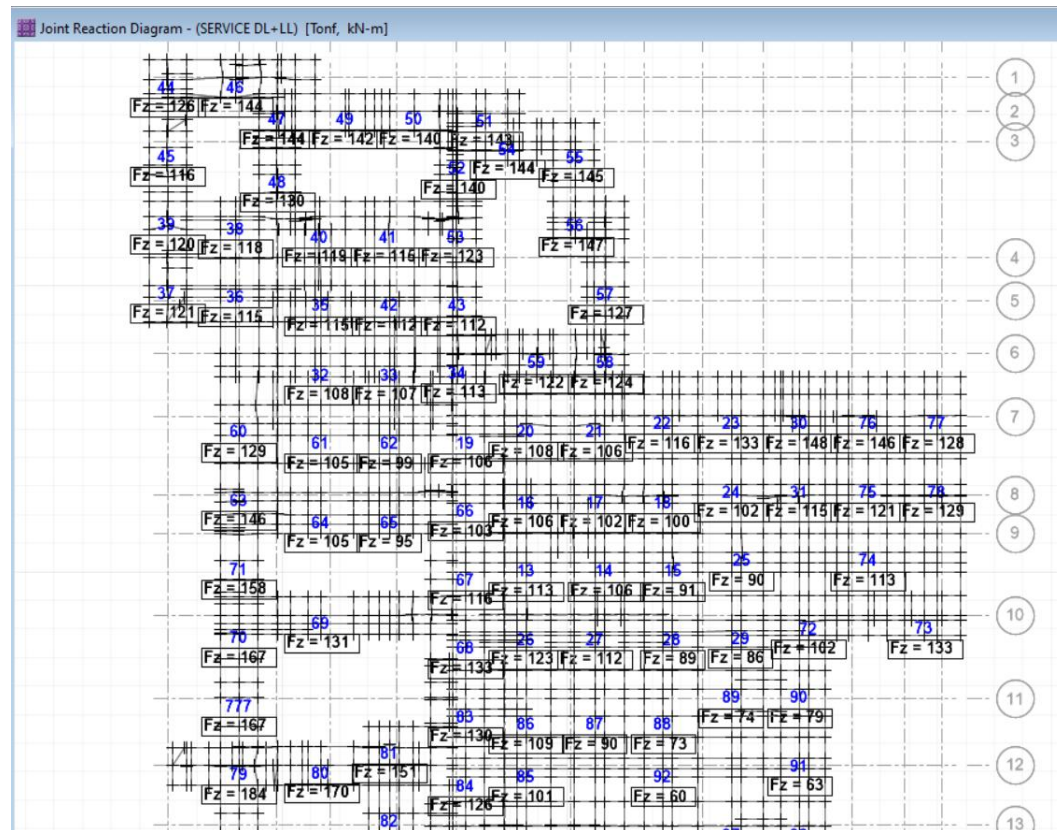
PILE REACTIONS(in ton) IN LOAD CASE- 1DL+0.75LL+0.525EQx



PILE REACTIONS (in ton) IN 1DL+0.75LL+0.525EQy

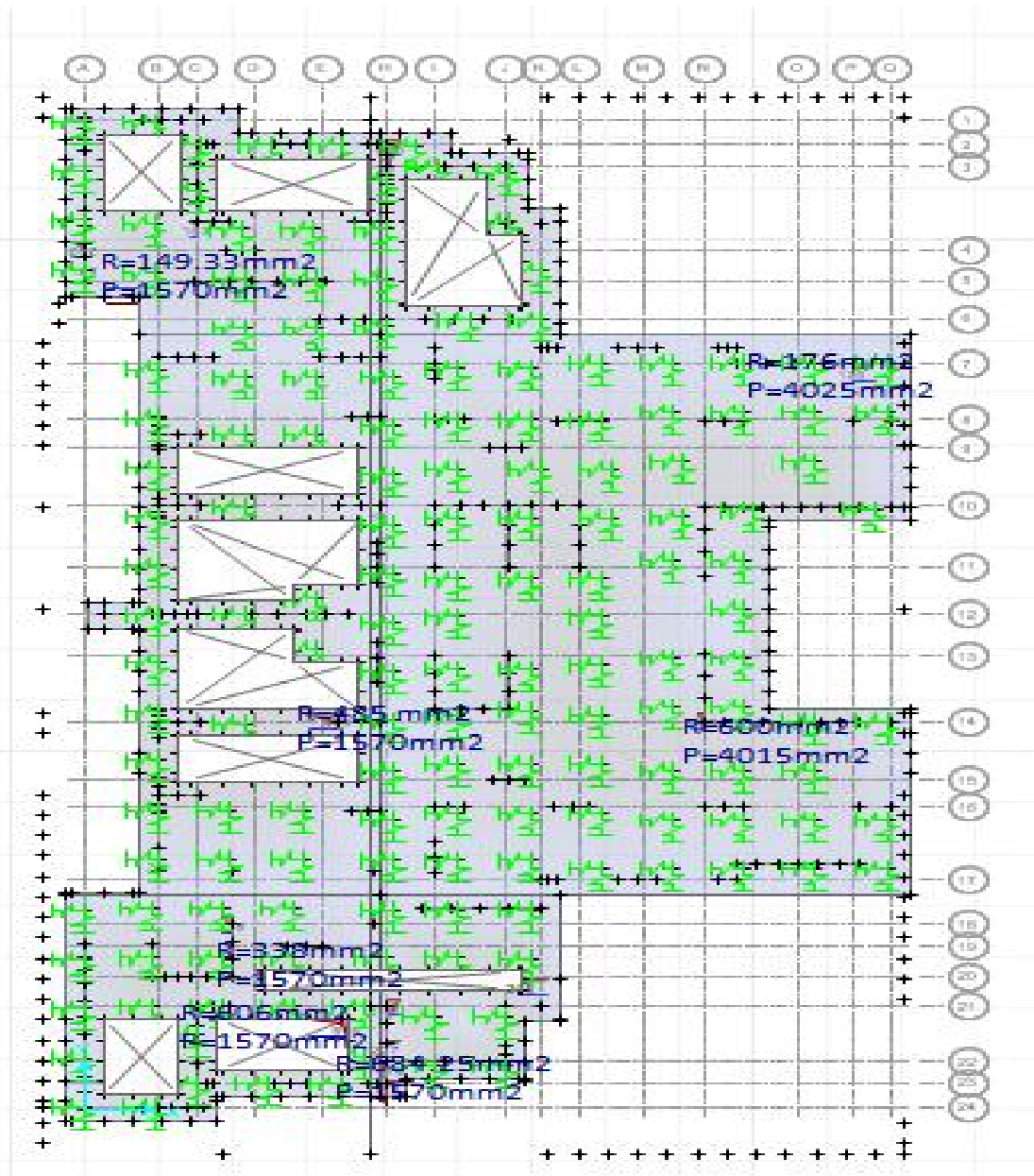


PILE REACTIONS (in ton) IN 1DL+1LL

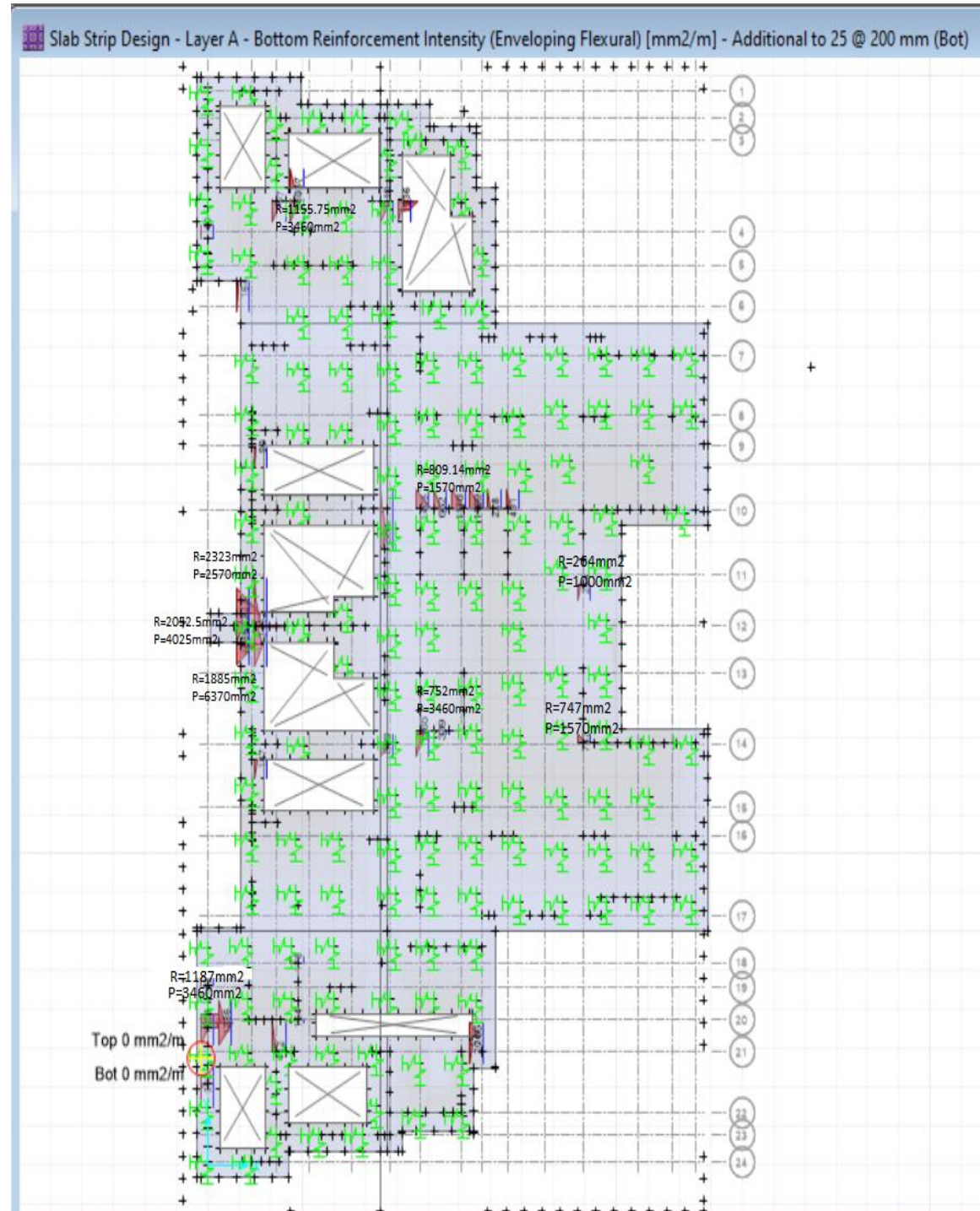


REINFORCEMENT REQUIRED & PROVIDED IN PILE CAP

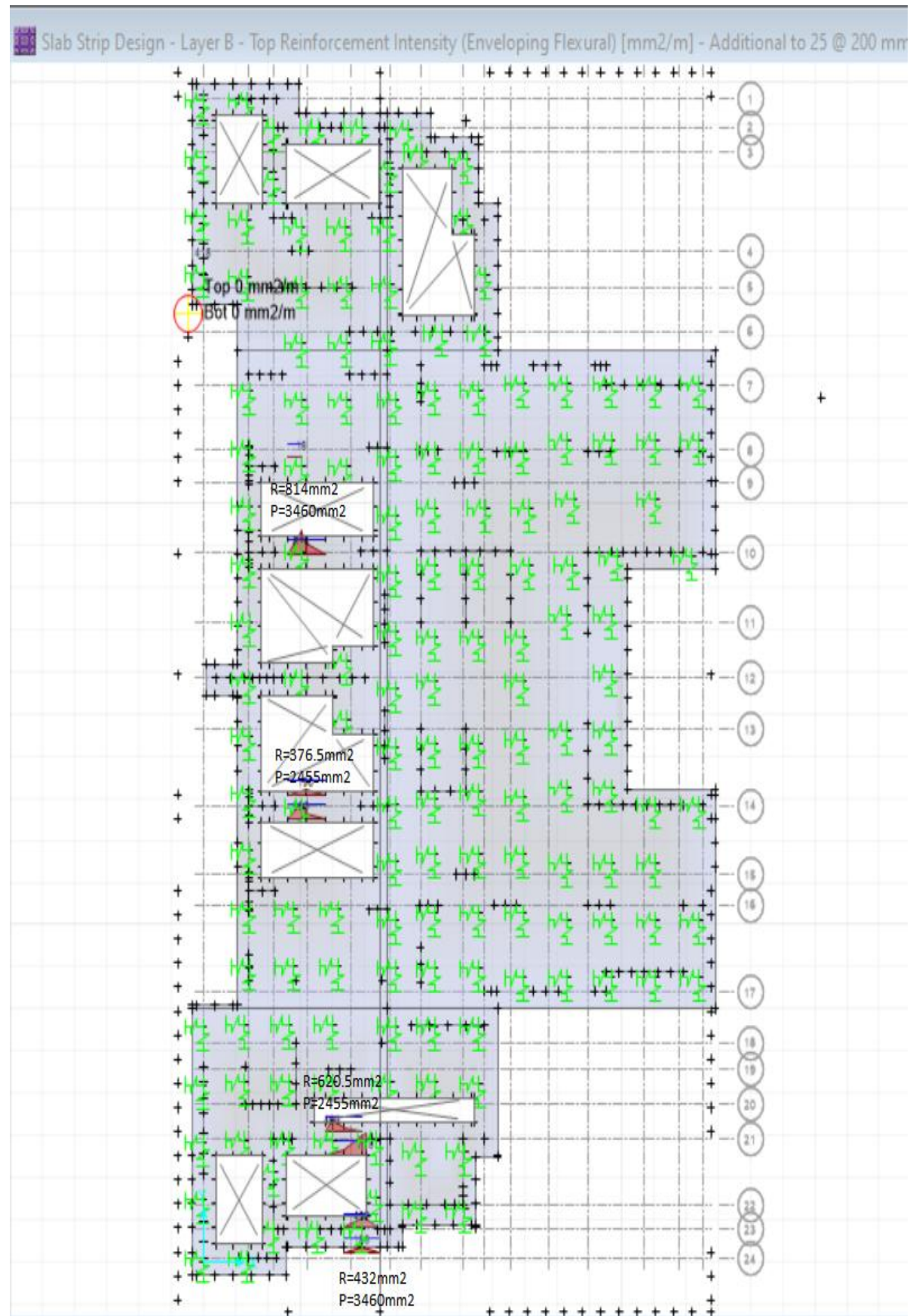
BOTTOM-X



BOTTOM-Y



TOP-X



TOP-Y

