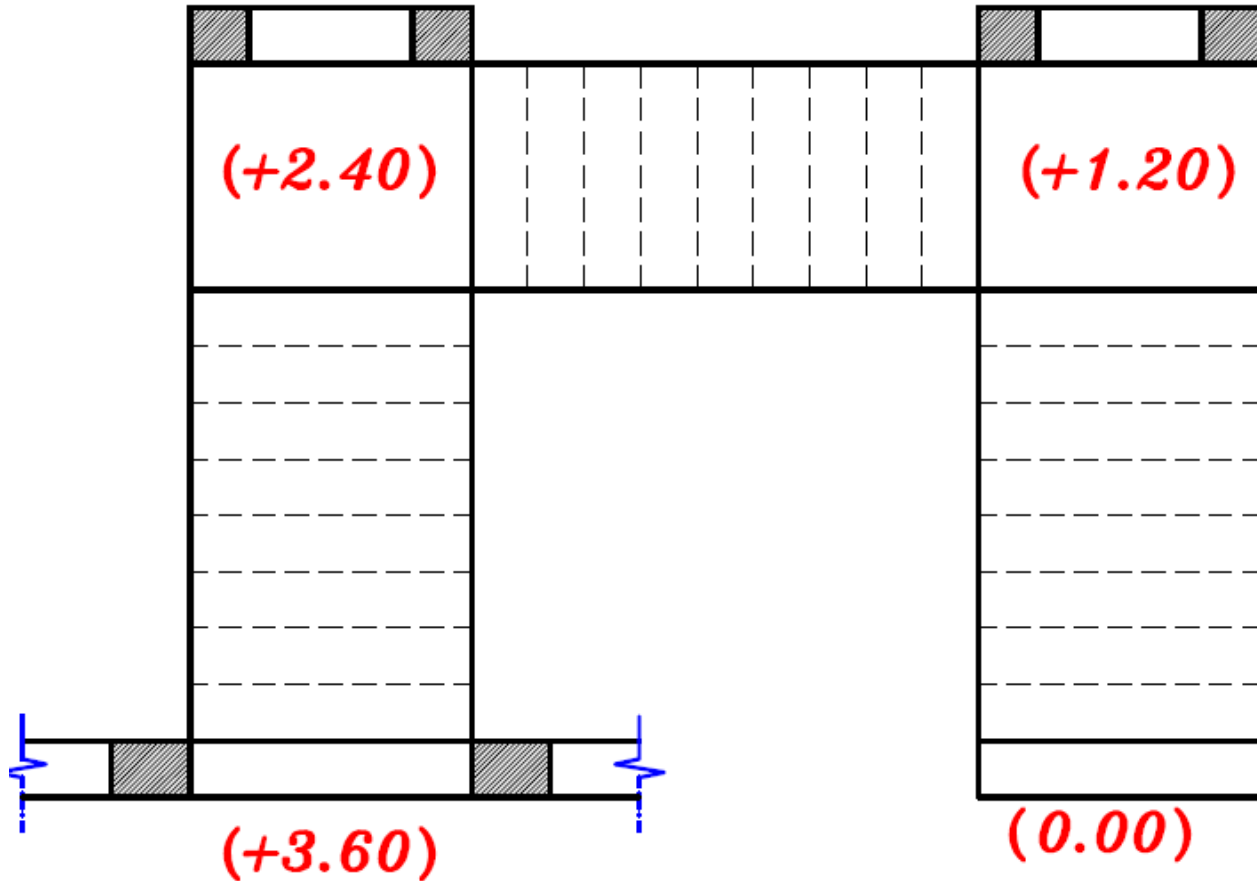


**Assume any missing data

Sheet 7 (stairs)

Question No .(1):-



The given plan shows general layout of a stairs.

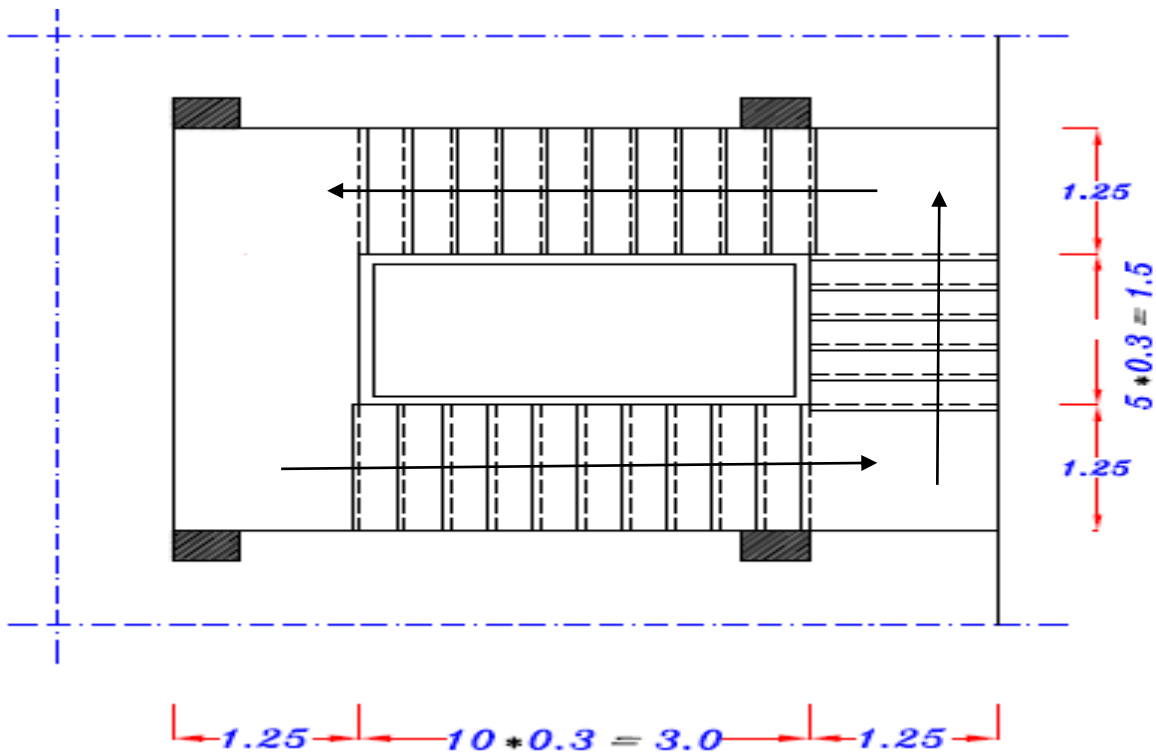
Data: -

$F_c=25 \text{ N/mm}^2$; $F_y =360 \text{ N/mm}^2$, $F.c =1.5 \text{ KN/m}^2$; $L.L=6 \text{ KN/m}^2$

Req: -

- 1-Drow the statically action of the stairs.
- 2-Design the sections of the slab. Draw details of reinforcement in plan.

Question No .(2):



For the given plan shows general layout of a stairs

Data:-

$F_c = 30 \text{ N/mm}^2$; $F_y = 400 \text{ N/mm}^2$, $F.c = 1.5 \text{ KN/m}^2$; $L.L = 6 \text{ KN/m}^2$

Req:-

- 1-Draw the statically action of the stairs.
- 2-Design the sections of the slab. Draw details of reinforcement in plan.

Good luck