TIE BEAMS

The purpose of tie beams is to connect pile caps together. Tie beams will not carry any vertical loads such as walls etc.

Unlike tie beams, grade beams carry walls and other loads.

GRADE BEAMS

For this reason, grade beams are larger than tie beams.

Pile spacing:

(a)  
(b)  
(c)
**PLINTH BEAM:**

From the term itself it is clear that the beam is at Plinth level but it can replace Grade beam. Grade beam may be at NGL if connected to columns but it can be at deeper level if it is used to connect the pile caps which are at deeper level.

For more information on the design of GRADE BEAM refer:


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