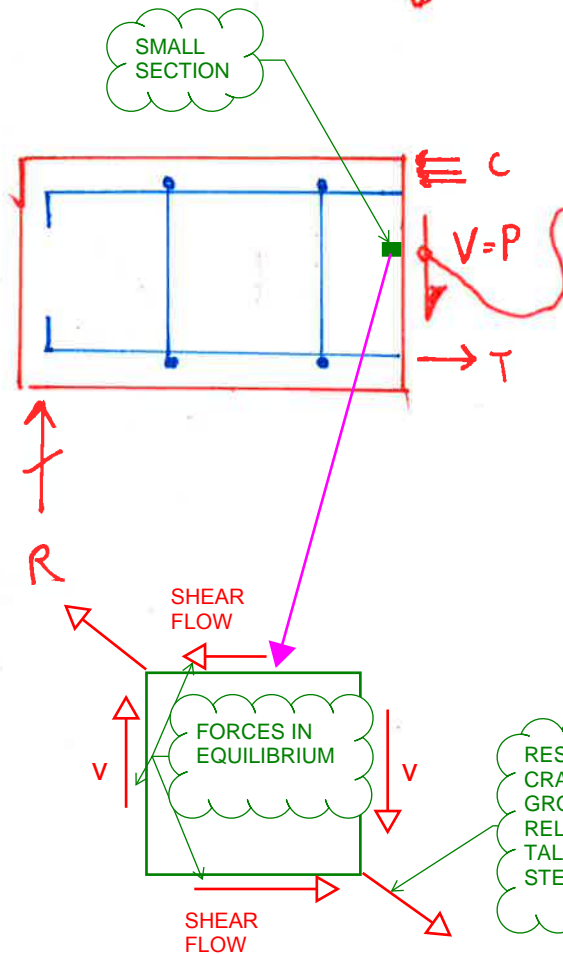
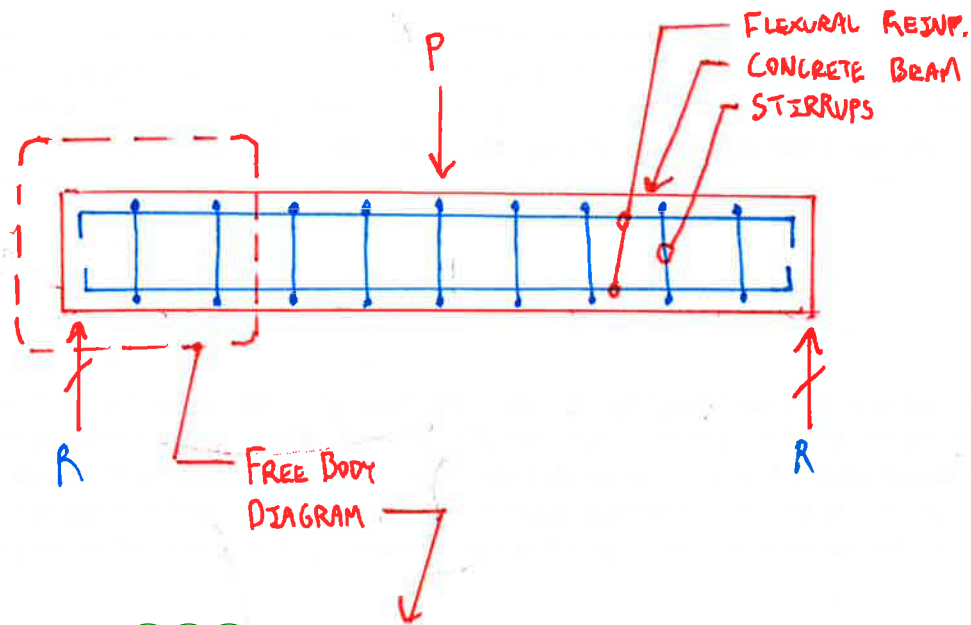


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WHAT MECHANISM PROVIDES "V" SHEAR RESISTANCE? IT'S NOT THE STIRRUPS. NOR IS IT DIAGONAL TENSION ( $V_c$ ). I THINK THAT, ON A VERTICAL PLANE, SHEAR RESISTANCE IS PROVIDED BY SHEAR FRICTION WHICH INCLUDES:

- AGGREGATE INTERLOCK
- FRICTION ON COMPRESSION BLOCK
- DOWEL ACTION

RESULTANT CROSSES THE STIRRUPS, SO AS BEAM CRACKS, THE STIRRUPS STOP THE CRACK FROM GROWING. THE SHEAR BETWEEN THE STIRRUPS IS NOT RELEVANT ONCE THE CONCRETE CRACKS, THE STEEL TAKES OVER. THE CONCRETE IS JUST HOLDING THE STEEL IN PLACE