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# SOIL

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**water displacement method**

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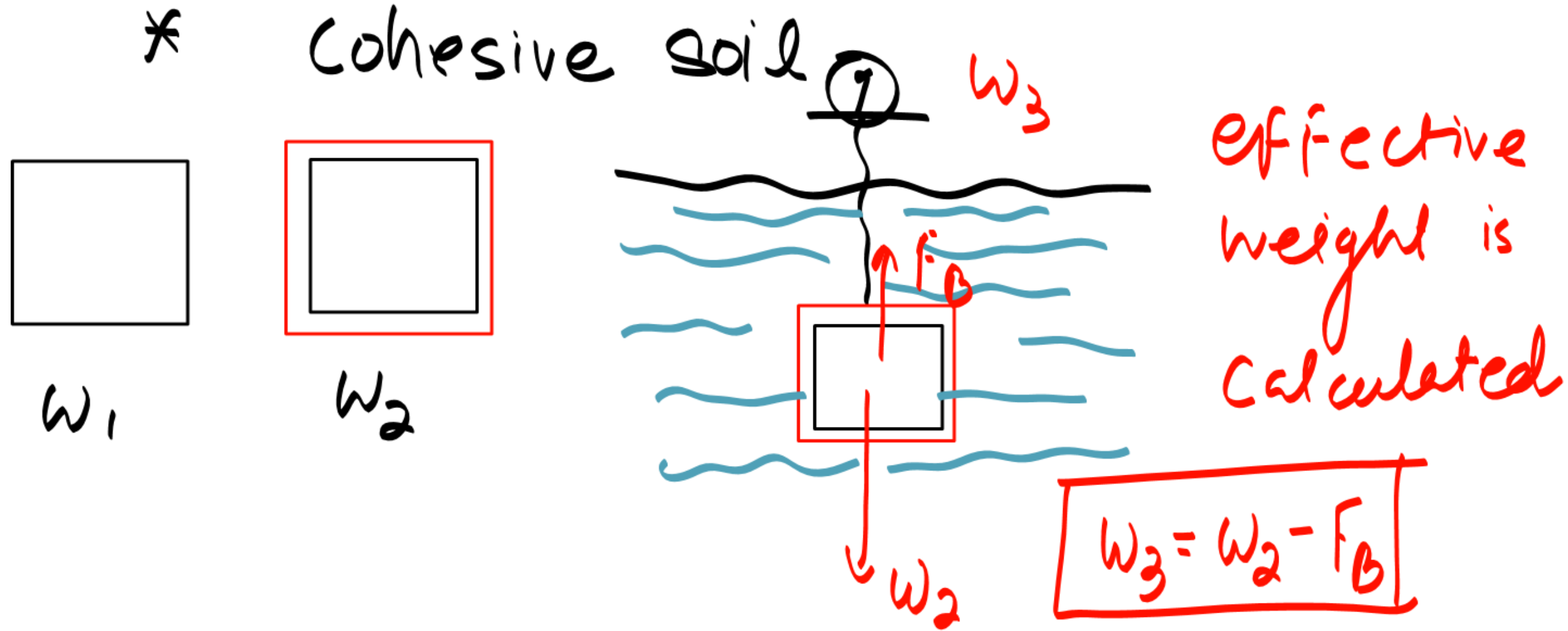
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# Submerged mass density method





$$F_B = \text{weight of water disp. by (soil + wax)} \\ = V_w \times \gamma_w$$

$$\gamma_s = \frac{W_1}{\text{Vol of soil}}$$

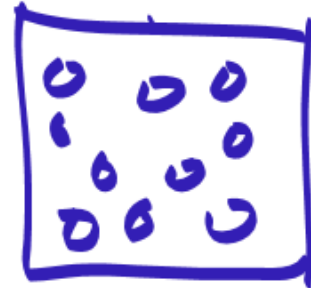
$$V_w = \frac{W_2 - W_3}{\gamma_w}$$

$$V_s = V_w - V_{\text{wax}}$$

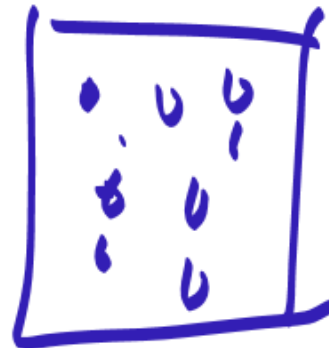
$Y_{Bulk}$

$Y_t$

$Y_{margin}$



$$Y_{sat} = Y_t$$



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# Sand replacement method



10:30

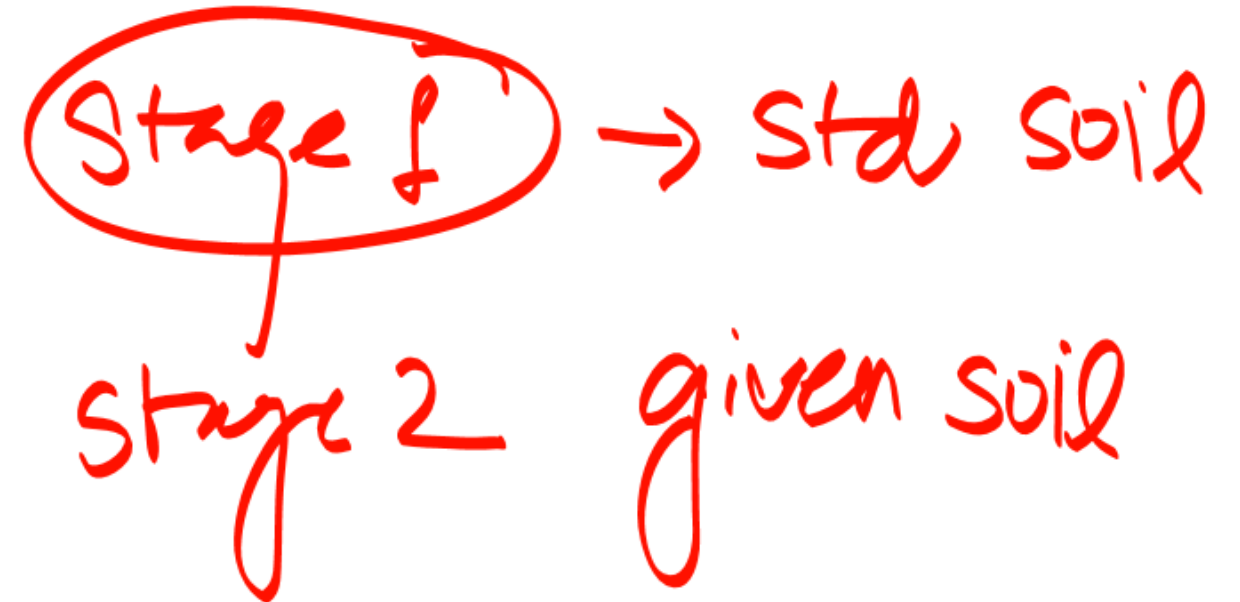
12 AE/3E

Cohesionless  
Soil

2 PM

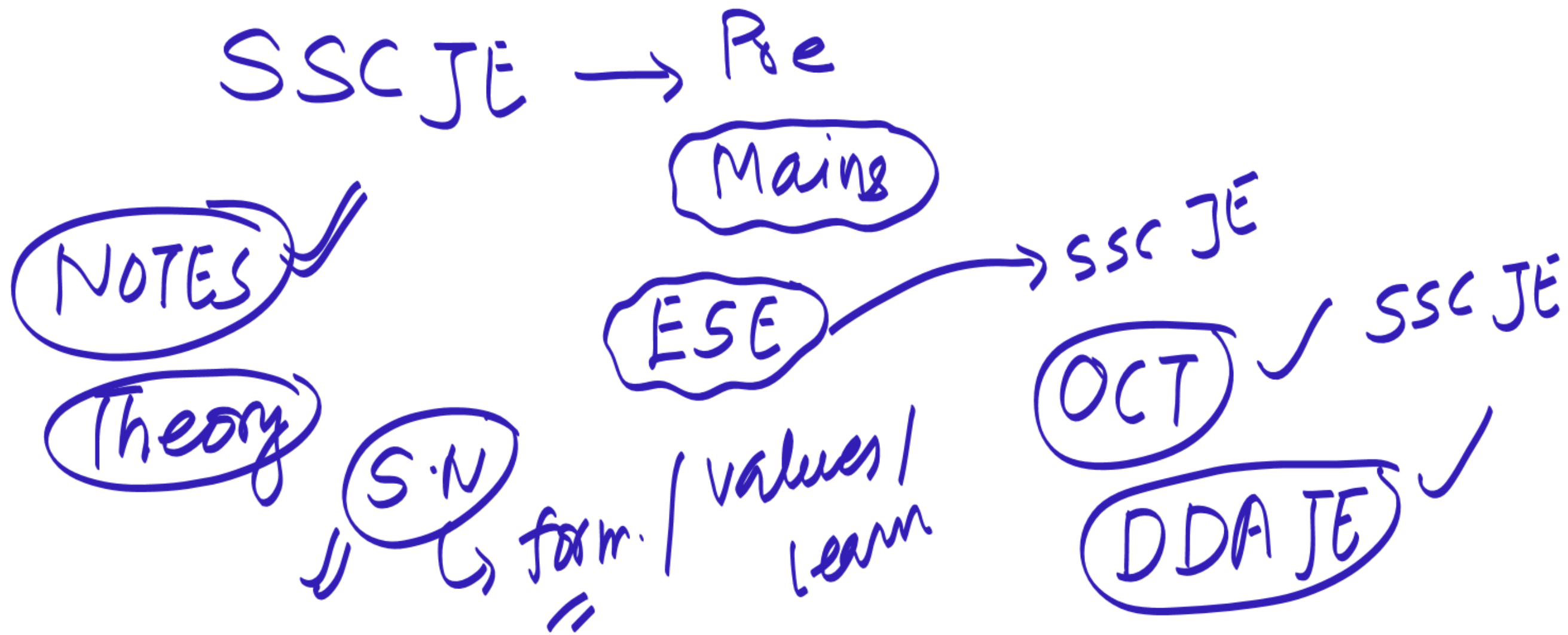
Field method

Road construction



H.P.W





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