

$$O_y = A_y = S + \sum D_{sw} = 1202.67225 + \frac{46.345}{2} = 1225.84475$$

$$AB' + A_y + P - D_{j_A} = 0, AB' = \frac{4.39}{3.333} AB'_y \rightarrow AB' = \frac{4.39}{3.333} (A_y + P - D_{j_A}) = 1405.1684854321447$$

$$AB + AB'_y = 0 \rightarrow \overrightarrow{AB} = \frac{2.857}{4.39} AB' = -\frac{2.857}{4.39} (AB_y) = -914.4715285714285$$

$$BC + AB = 0 \rightarrow BC = -AB = 914.4715285714285$$

$$BB' + P + D_{j_{B'}} = 0 \rightarrow BB' = -157.689425$$

$$B'C = \frac{4.39}{3.333} (BC_y - D_{j_{B'}}) = -\frac{4.39}{3.333} (AB'_y + BB' - D_{j_{B'}}) = -1200.9917294881577$$

$$B'A' = -AB'_x - B'C_x = -132.87647142857134$$

$$CA' = -B'C_y - D_{j_C} = -\frac{3.333}{4.39} (B'C) - D_{j_C} = 753.7058499999999$$

$$CD + BC + B'C_x + D_{j_C} = 0 \rightarrow CD = -132.87647142857134$$

$$A'D_y + CA' + D_{j_{A'}} = 0 \rightarrow A'D = -\frac{4.39}{3.333} (CA' + D_{j_{A'}}) = -990.143151416817$$

$$A'Z - A'B' + A'D_x = 0 \rightarrow A'Z = A'B' - \frac{2.857}{4.39} A'D = 511.50014999999996$$

$$DZ + P + A'D_y + D_{j_D} = 0 \rightarrow DZ = -\frac{3.333}{4.39} A'D - P - D_{j_D} = 593.3432999999998$$

$$DE + CD - A'D_x = 0 \rightarrow DE = \frac{2.857}{4.39} A'D - CD = -511.50014999999996$$

$$ZE_y + DZ + D_{j_Z} = 0 \rightarrow ZE = -\frac{4.39}{3.333} (DZ + D_{j_Z}) = -779.1554570050047$$

$$ZY + A'Z + ZE_x = 0 \rightarrow ZY = -\frac{2.857}{4.39} ZE - A'Z - D_{j_Z} = -4.432500000000175$$

$$EY + ZE_y + D_{j_E} + P = 0 \rightarrow EY = -\frac{3.333}{4.39} ZE - D_{j_E} - P = 433.0576249999998$$

$$EF - DE + ZE_x = 0 \rightarrow EF = -\frac{2.857}{4.39} ZE - DE = -4.432500000000175$$

$$YF_y + EY + D_{j_Y} = 0 \rightarrow YF = -\frac{4.39}{3.333} (EY + D_{j_Y}) = -568.5266662881371$$

$$FX + YF_y + P + D_{j_F} = 0 \rightarrow FX = -\frac{3.333}{4.39} YF - P - D_{j_F} = 272.78444999999977$$

$$FG + EF + YF_x = 0 \rightarrow FG = -\frac{2.857}{4.39} YF - EF = 374.42474999999996$$

$$XG_y + FX + D_{j_X} = 0 \rightarrow XG = -\frac{4.39}{3.333} (FX + D_{j_X}) = -357.41467266087386$$

$$YX + ZY + YF_x = 0 \rightarrow YX = -\frac{2.857}{4.39}YF - ZY = 374.42474999999996$$

$$XW + YX + XG_x = 0 \rightarrow XW = -\frac{2.857}{4.39}XG - YX = -141.82236428571446$$

$$GH + FG + XG_x = 0 \rightarrow GH = -\frac{2.857}{4.39}XG - FG = -141.82236428571446$$

$$GW + XG_y + P + D_{j_G} = 0 \rightarrow GW = -\frac{3.333}{4.39}XG - P - D_{j_G} = 112.428149999999975$$

$$WH_y + GW + D_{j_W} = 0 \rightarrow WH = -\frac{4.39}{3.333}(GW + D_{j_W}) = -146.49859435332812$$

$$WV + XW + WH_x = 0 \rightarrow WV = -\frac{2.857}{4.39}WH - XW = 237.16238571428565$$

$$HV + D_{j_V} = 0 \rightarrow HV = -D_{j_V} = -0.7181249999999999$$