

$$D_k = \begin{bmatrix} \theta & 28 \\ \theta & 29 \\ \theta & 30 \end{bmatrix}$$

$$Q_k =$$

$$\begin{bmatrix} \theta & 1 \\ -(V_1 + V_2) & 2 \\ M_1 - M_2 & 3 \\ \theta & 4 \\ -(V_2 + V_3) & 5 \\ M_2 - M_3 & 6 \\ \theta & 7 \\ -(V_3 + V_4) & 8 \\ M_3 - M_4 & 9 \\ \theta & 10 \\ -(V_4 + V_5) & 11 \\ M_4 - M_5 & 12 \\ \theta & 13 \\ -(V_5 + V_6) & 14 \\ M_5 - M_6 & 15 \\ \theta & 16 \\ -(V_6 + V_7) & 17 \\ M_6 - M_7 & 18 \\ \theta & 19 \\ -(V_7 + V_8) & 20 \\ M_7 - M_8 & 21 \\ \theta & 22 \\ -(V_8 + V_9) & 23 \\ M_8 - M_9 & 24 \\ \theta & 25 \\ -(M_1 + M_2) & 26 \\ M_9 - M_{10} & 27 \end{bmatrix}$$

@ RIGID JOINTS

$$V_h = \frac{(LL + DL)(L)}{2}$$

