$$
K_{74}^{2} = \begin{bmatrix}
-\left(\frac{\left(13+9\sqrt{2}\right)U}{\left(2+\sqrt{2}\right)t}\right) & \frac{-2U}{\sqrt{12-8\sqrt{2}}\left(2+\sqrt{2}\right)t} & 0 & 0 & \frac{\left(2-3\sqrt{2}\right)U}{2\sqrt{2+\sqrt{2}}t} & \frac{-2\left(3+2\sqrt{2}\right)}{\sqrt{2+\sqrt{2}}} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -2\sqrt{\frac{3}{2+\sqrt{2}}} \\
\frac{-2U}{\sqrt{12-8\sqrt{2}}\left(2+\sqrt{2}\right)t} & \frac{\left(13\sqrt{12-8\sqrt{2}}+2\left(-2+\sqrt{2}-8\sqrt{6-4\sqrt{2}}\right)\right)U}{\sqrt{12-8\sqrt{2}}\left(-2+\sqrt{2}\right)t} & 0 & 0 & \frac{\left(\sqrt{8-4\sqrt{2}}+2\sqrt{4-2\sqrt{2}}+4\sqrt{2-\sqrt{2}}\right)U}{2\sqrt{12-8\sqrt{2}}t} & \frac{6-4\sqrt{2}}{\sqrt{2-\sqrt{2}}} & 0 & 0 & 0 & 0 & 0 & 0 & 2\sqrt{\frac{3}{2-\sqrt{2}}} \\
0 & 0 & \frac{-9U}{2t} & \frac{-3U}{2t} & 0 & \frac{-3U}{\sqrt{2}t} & \frac{\left(-2+3\sqrt{2}\right)U}{2\sqrt{2+\sqrt{2}}t} & -\frac{\left(\left(\sqrt{8-4\sqrt{2}}+2\sqrt{4-2\sqrt{2}}+4\sqrt{2-\sqrt{2}}\right)U\right)}{2\sqrt{12-8\sqrt{2}}t} & 4-\frac{U^2}{2t^2} & -\left(\frac{U^2}{\sqrt{2}t^2}\right) & \frac{-\left(\sqrt{3}U^2\right)}{2t^2} & -\left(\frac{\sqrt{\frac{3}{2}}U^2}{t^2}\right) & \frac{3\sqrt{3}U}{2t} & \frac{\sqrt{\frac{3}{2}}U}{t} \\
0 & 0 & \frac{-3U}{2t} & \frac{-7U}{t} & 2+\frac{U^2}{2t^2} & \frac{3\sqrt{2}U}{t} & 0 & 0 & 0 & 0 & 2\sqrt{3} & 0 & -\left(\frac{\sqrt{3}U}{t}\right) & 0 \\
\frac{\left(2-3\sqrt{2}\right)U}{2\sqrt{2+\sqrt{3}}t} & \frac{\left(\sqrt{8-4\sqrt{2}}+2\sqrt{4-2\sqrt{2}}+4\sqrt{2-\sqrt{2}}\right)U}{2\sqrt{12-8\sqrt{2}}t} & 0 & 2+\frac{U^2}{2t^2} & \frac{-9U}{2t} & -\left(\frac{U^2}{\sqrt{2}t^2}\right) & 0 & 0 & \frac{-3U}{2t} & 0 & \frac{-3\sqrt{3}U}{2t} & \frac{\sqrt{6}U}{t} & \frac{\sqrt{3}\left(4-\frac{U^2}{t^2}\right)}{2} & \frac{\sqrt{\frac{3}{2}}U^2}{t^2} \\
\frac{-2\left(3+2\sqrt{2}\right)}{\sqrt{2+\sqrt{2}}} & \frac{6-4\sqrt{2}}{\sqrt{2-\sqrt{2}}} & \frac{-3U}{\sqrt{2}t} & \frac{3\sqrt{2}U}{t} & -\left(\frac{U^2}{\sqrt{2}t^2}\right) & \frac{-6U}{t} & 0 & 0 & 0 & -6 & 0 & 2\sqrt{3} & 0 & 0 \\
0 & 0 & \frac{\left(-2+3\sqrt{2}\right)U}{2\sqrt{2+\sqrt{2}}t} & 0 & 0 & 0 & \frac{-5U}{\left(2+\sqrt{2}\right)t} & \frac{2U}{\sqrt{12-8\sqrt{2}}\left(2t+\sqrt{2}t\right)} & 0 & \frac{2\left(3+\sqrt{2}\right)}{\sqrt{2+\sqrt{2}}} & 0 & -2\left(1+\sqrt{2}\right)\sqrt{\frac{3}{2+\sqrt{2}}} & 0 & 0 \\
0 & 0 & -\left(\left(\sqrt{8-4\sqrt{2}}+2\sqrt{4-2\sqrt{2}}+4\sqrt{2-\sqrt{2}}\right)U\right) & 0 & 0 & 0 & \frac{2U}{\sqrt{12-8\sqrt{2}}\left(2t+\sqrt{2}t\right)} & \frac{\left(5\sqrt{12-8\sqrt{2}}-2\left(-2+\sqrt{2}+\sqrt{6-4\sqrt{2}}\right)\right)U}{\sqrt{12-8\sqrt{2}}\left(-2+\sqrt{2}\right)t} & 0 & \frac{2\left(-3+\sqrt{2}\right)}{\sqrt{2-\sqrt{2}}} & 0 & 2\left(\sqrt{\frac{3}{2-\sqrt{2}}}-\sqrt{\frac{6}{2-\sqrt{2}}}\right) & 0 & 0 \\
0 & 0 & 4-\frac{U^2}{2t^2} & 0 & \frac{-3U}{2t} & 0 & 0 & 0 & \frac{-7U}{2t} & \frac{3U}{\sqrt{2}t} & \frac{-3\sqrt{3}U}{2t} & -\left(\frac{\sqrt{\frac{3}{2}}U}{t}\right) & 0 & 0 \\
0 & 0 & -\left(\frac{U^2}{\sqrt{2}t^2}\right) & 0 & 0 & -6 & \frac{2\left(3+\sqrt{2}\right)}{\sqrt{2+\sqrt{2}}} & \frac{2\left(-3+\sqrt{2}\right)}{\sqrt{2-\sqrt{2}}} & \frac{3U}{\sqrt{2}t} & \frac{-6U}{t} & -\left(\frac{\sqrt{\frac{3}{2}}U}{t}\right) & -\left(\frac{\sqrt{3}U}{t}\right) & 0 & -2\sqrt{3} \\
0 & 0 & \frac{-\left(\sqrt{3}U^2\right)}{2t^2} & 2\sqrt{3} & \frac{-3\sqrt{3}U}{2t} & 0 & 0 & 0 & \frac{-3\sqrt{3}U}{2t} & -\left(\frac{\sqrt{\frac{3}{2}}U}{t}\right) & \frac{-9U}{2t} & \frac{5U}{\sqrt{2}t} & -2 & 0 \\
0 & 0 & -\left(\frac{\sqrt{\frac{3}{2}}U^2}{t^2}\right) & 0 & \frac{\sqrt{6}U}{t} & 2\sqrt{3} & -2\left(1+\sqrt{2}\right)\sqrt{\frac{3}{2+\sqrt{2}}} & 2\left(\sqrt{\frac{3}{2-\sqrt{2}}}-\sqrt{\frac{6}{2-\sqrt{2}}}\right) & -\left(\frac{\sqrt{\frac{3}{2}}U}{t}\right) & -\left(\frac{\sqrt{3}U}{t}\right) & \frac{5U}{\sqrt{2}t} & \frac{-4U}{t} & 0 & 2 \\
0 & 0 & \frac{3\sqrt{3}U}{2t} & -\left(\frac{\sqrt{3}U}{t}\right) & \frac{\sqrt{3}\left(4-\frac{U^2}{t^2}\right)}{2} & 0 & 0 & 0 & 0 & 0 & -2 & 0 & \frac{-3U}{t} & \frac{\sqrt{2}U}{t} \\
-2\sqrt{\frac{3}{2+\sqrt{2}}} & 2\sqrt{\frac{3}{2-\sqrt{2}}} & \frac{\sqrt{\frac{3}{2}}U}{t} & 0 & \frac{\sqrt{\frac{3}{2}}U^2}{t^2} & 0 & 0 & 0 & 0 & -2\sqrt{3} & 0 & 2 & \frac{\sqrt{2}U}{t} & \frac{-2U}{t}
\end{bmatrix}
$$