$$\begin{array}{c|c} & \overline{\phantom{a}} \\ \hline \vdash p^{\perp} \Downarrow [\cdot][\cdot]p; \cdot \end{array}^{\mathrm{I}} \\ \vdash [\cdot][1:p^{\perp}]\cdot; \cdot//^{1} \vdash [\cdot][\cdot]p; \cdot} \\ \vdash [\cdot][1:p^{\perp}]\cdot; \cdot//^{1} \vdash [\cdot][\cdot]\cdot; p} \\ \hline \begin{matrix} \vdash [\cdot][1:p,1:p^{\perp}]\cdot; \cdot \\ \hline \vdash [\cdot][\cdot]: \cdot; \cdot^{1}p, \cdot^{1}p^{\perp} \end{matrix} \end{array}^{*} \end{array}$$