Witten

$$\prescript{}{m+}{d}^{+} = \frac{\prescript{-1/2}{}{Q}_m\, d \;\Big|\; Q_m\, 1}{0 \;\Big|\; Q}$$

$$\frac{\prescript{-1/2}{}{Q}_m\, d \;\Big|\; Q_m\, 1}{0 \;\Big|\; Q}\; \frac{\prescript{-1/2}{}{Q}_m\, d \;\Big|\; Q_m\, 1}{0 \;\Big|\; Q}^{+} = \frac{\prescript{-1/2}{}{Q}_m\, d \;\Big|\; Q_m\, 1}{0 \;\Big|\; Q}\; \frac{\prescript{-1/2}{}{Q}_n\, d \;\Big|\; 0}{Q_n\, 1 \;\Big|\; Q}$$

$$= \frac{\prescript{-1}{}{Q}_m\, d_n\, d + \prescript{2}{}{Q}_m\, 1_n\, 1 \;\Big|\; \prescript{2}{}{Q}_m\, 1}{\prescript{}{n}{1}\, \prescript{2}{}{Q} \;\Big|\; \prescript{2}{}{Q}}$$

$$\underline{x}^m \;\Big|\; \underline{y} \quad \prescript{}{m+}{d}^{+}\, \prescript{}{n+}{d}^{+}\frac{\underline{x}^n}{\underline{y}} = \underline{x}^m \;\Big|\; \underline{y}\; \frac{\prescript{-1}{}{Q}_m\, d_n\, d + \prescript{2}{}{Q}_m\, 1_n\, 1 \;\Big|\; \prescript{2}{}{Q}_m\, 1}{\prescript{}{n}{1}\, \prescript{2}{}{Q} \;\Big|\; \prescript{2}{}{Q}}\; \frac{\underline{x}^n}{\underline{y}}$$

$$= \underline{x}^m \;\Big|\; \underline{y}\; \frac{\prescript{-1}{}{Q}_m\, d_n\, d\,\underline{x}^n + \prescript{2}{}{Q}_m\, 1_n\, 1\,\underline{x}^n + \prescript{2}{}{Q}_m\, 1\,\underline{y}}{\prescript{}{n}{1}\, \prescript{2}{}{Q}\,\underline{x}^n + \prescript{2}{}{Q}\,\underline{y}}$$

$$= \underline{x}^m\, \prescript{-1}{}{Q}_m\, d_n\, d\,\underline{x}^n + \prescript{2}{}{Q}\,\underline{x}^m\, \prescript{}{m}{1}\, \prescript{}{n}{1}\,\underline{x}^n + \prescript{2}{}{Q}\,\underline{x}^m\, \prescript{}{m}{1}\,\underline{y} + \underline{y}\, \prescript{}{n}{1}\, \prescript{2}{}{Q}\,\underline{x}^n + \underline{y}\, \prescript{2}{}{Q}\,\underline{y}$$

$$= \underline{x}^m\, \prescript{-1}{}{Q}_m\, d_n\, d\,\underline{x}^n + \prescript{2}{}{Q}\,\overbrace{\underline{y} + \underline{x}^m\, \prescript{}{m}{1}}$$