ELEVATION OF DRILLED SHAFTS AND ROCK SOCKETS
(SHALLO W SOIL OR DEEP SOIL) SHAFT
(Modified reprint of Standard Drawing detail for illustration purpose only. Modification shown with highlighted color).

Note:
Provide minimum rock socket length, $L_s$, using maximum value from following conditions.

1. Minimum rock socket length, $L_s$, = Nominal socket diameter, $D_s$. $L_s$ shall be measured from the anticipated tip of casing.

2. Determine minimum rock socket length based on reinforcement length requirement in accordance with EPG 751.37.6 and AASHTO LRFD 10.8.3.9.3. Point of fixity generally is assumed at anticipated tip of casing elevation for shallow soil drilled shaft. Point of fixity could be at a higher elevation with a more refined analysis. Point of fixity for deep soil drilled shaft generally is determined by analysis. The location of the maximum bending moment and the bending moment at the point of fixity may be considered in determining the length of reinforcement required for development.

3. Determine minimum rock socket length required to resist load and settlement in accordance with EPG 751.37.2. Side resistance shall be neglected or reduced when recommended by the Geotechnical Section for the case of unusable rock socket segmental length.

4. Seismic concerns.