GDOT Viaduct at International Boulevard near CNN, Atlanta

Drilled Shaft Load Test by O-Cell
GT Class “A” Prediction
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GDOT Bridge at International Blvd. CNN
GDOT Bridge at International Blvd.

GDOT Bridge at CNN

Drilled Shaft: \( d = 1.37 \text{ m} \) \( L = 20.88 \text{ m} \)

\[ Q_{\text{total}} = Q_s + Q_b \]

- Pred. \( Q_s \)
- Pred. \( Q_b \)
Original Prediction - GDOT Bridge at CNN

GDOT International Blvd. at CNN
Axial Load, $Q$ (kN)

Top Deflection, $w_t$ (mm)

- $Q_t$ Predicted
- O-cell top down
- O-cell Creep Limit

GDOT Bridge at CNN

Actual Construction of Drilled Shaft

Residual Soils (ML/SM)

Partially-Weathered Rock (PWR)

2.9 m
11.8 m
6.2 m

$d = 1.68$ m
$d = 1.59$ m
$d = 1.44$ m

Stage 2 O-cell
Stage 1 O-cell
Adjusted Analysis - GDOT Bridge at CNN

In-Situ Testing

GT Cone
Rig and
Drilled Shaft
Rig at GDOT
Viaduct near
CNN