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SURVEY RESULTS

COV-TEN-CON 514 stack raise works

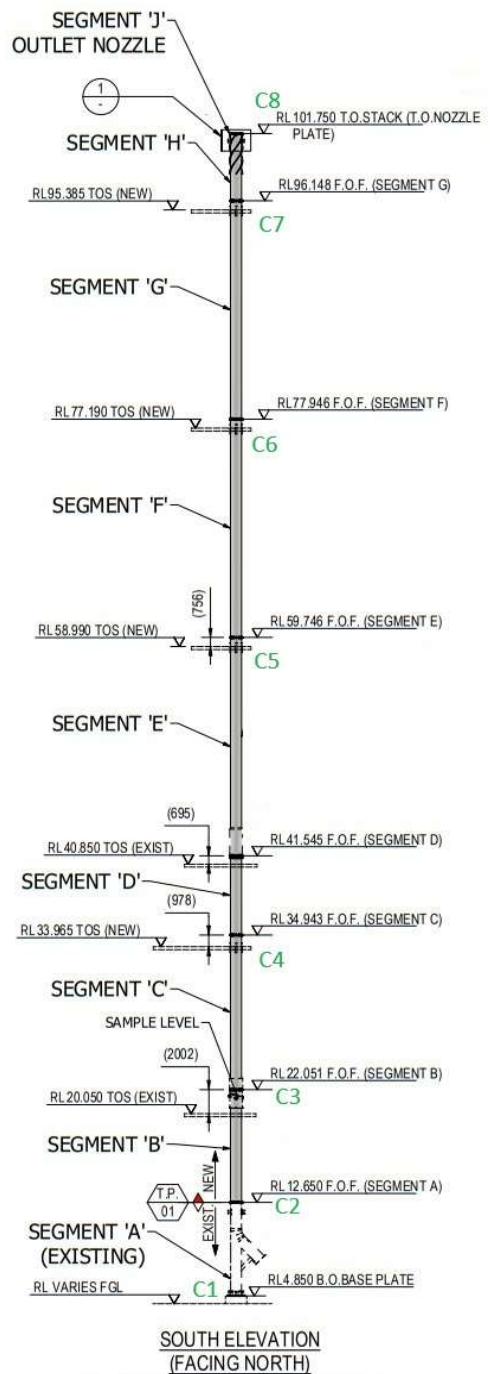
TOWER 1 Stack asbuilt

Method.

Local control points used to establish the position of the instrument (Leica MS50 +/-1mm)

3 points were recorded at each level on the stack as shown from 3 instrument positions.

The center was then calculated from these measurements and also the coordinate differences from the base position.



Measurements

Top of Stack

The under side of the top flange was measured for height calculations. The thickness of the flange, nozzle plate and gasket added. Plans COV-R390-ME-DWG-0022 + 0021.

Top RL = $101.726 + 0.025 + 0.003 + 0.025 = 101.779\text{mRL}$

The outside face of the top flange was measured to calculate the center.

Pt1 E:261.938 N:381.741

Pt2 E:261.280 N:382.203

Pt3 E:260.829 N:381.754

C8 E:261.382 N:381.649 RL:101.779

E:+0.026 N:-0.048

Segment G Platform (just below guide plates on stack)

Pt4 E:261.838 N:381.723

Pt5 E:261.369 N:382.145

Pt6 E:260.921 N:381.670

C7 E:261.380 N:381.686 RL:94.830

E:+0.024 N:-0.011

Segment F Platform (just below guide plates on stack)

Pt7 E:261.844 N:381.724

Pt8 E:261.140 N:382.095

Pt9 E:260.923 N:381.699

C6 E:2261.384 N:381.703 RL:76.678

E:+0.027 N:+0.006

Segment E Platform (just below guide plates on stack)

Pt10 E:261.823 N:381.721

Pt11 E:261.519 N:382.146

Pt12 E:260.907 N:381.700

C5 E:261.365 N:381.715 RL:58.426

E:+0.008 N:+0.018

Segment C Platform (just below guide plates on stack)

Pt13 E:261.800 N:381.716

Pt14 E:261.335 N:382.168

Pt15 E:260.888 N:381.762

C4 E:261.342 N:381.710 RL:34.861

E:-0.014 N:+0.013

Segment B (just below top flange)

Pt16 E:261.808 N:381.717

Pt17 E:261.350 N:382.166

Pt18 E:260.893 N:381.701

C3:261.350 N:381.709 RL:21.894

E:-0.006 N:+0.012

Segment A (new flange)

Pt19 E:261.348 N:382.221

Pt20 E:260.841 N:381.708

Pt21 E:261.351 N:381.203

C2 E:261.350 N:381.712 RL:12.655

E:-0.007 N:+0.015

Segment A (base of stack)

Pt22 E:261.740 N:381.938

Pt23 E:261.076 N:382.053

Pt24 E:260.916 N:381.588

C1 E:261.356 N:381.697 RL:5.310

Chris John
BE SURVEYS