

Port Baku Towers 2

Chimney Stabilisation



Azerbaijan



Cintec International Limited

Port Baku 2 Chimney Restoration Azerbaijan

Project:
Seismic strengthening
and repair of the
cracked
Chimney

Engineers
Ramboll UK Ltd.

Main Contractor:
Pasha Construction

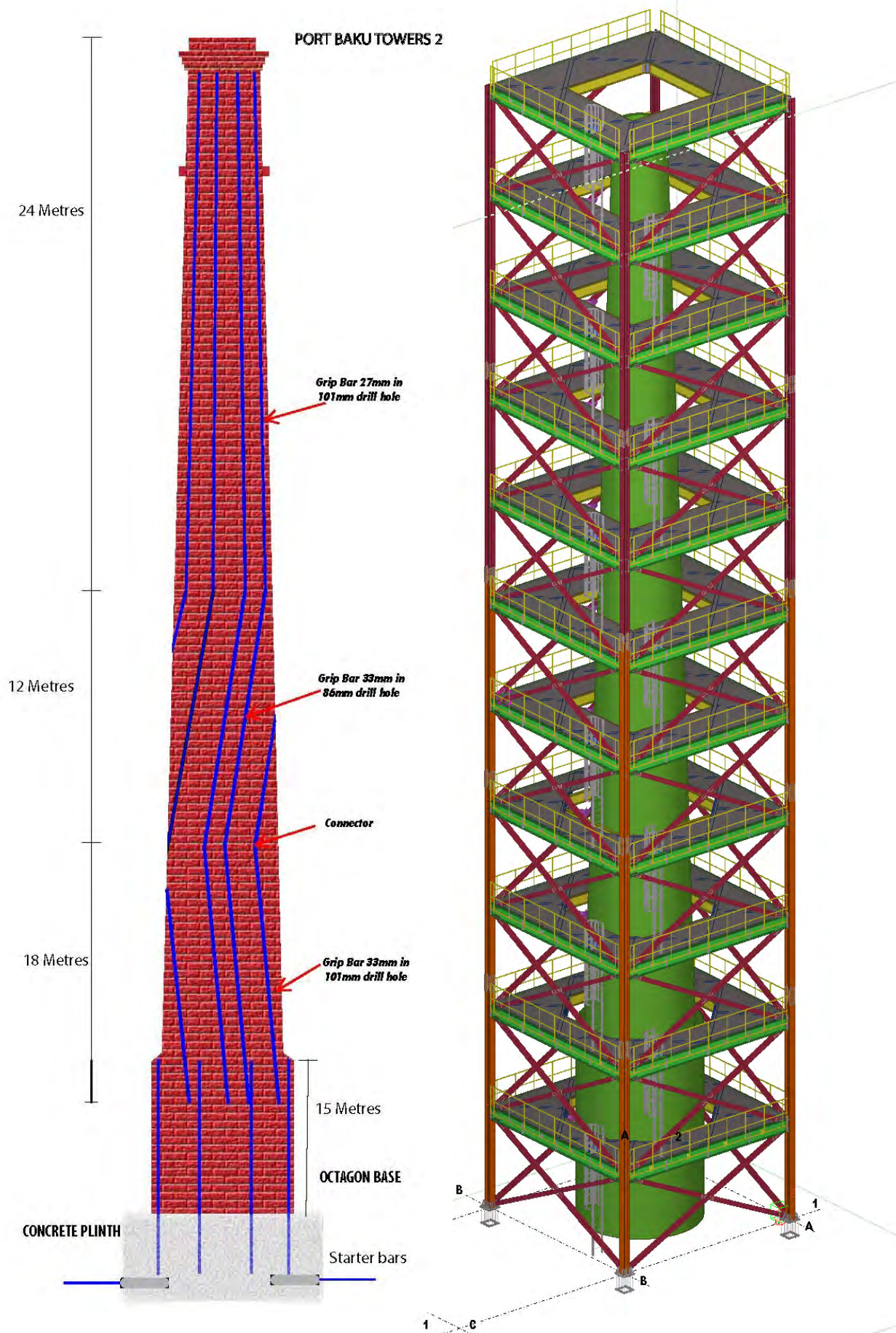
*Drilling & Installation
Contractors:*
Cintec International
Limited

Cintec Project Manager:
Dennis Lee

Cintec Supervisor:
Allan Buckley



Anchor layout and the temporary tower scaffold which, as well as for access was designed to hold the chimney in the event of a seismic event.



The top level of the chimney needed to be restored to create a flat surface for the drilling rigs and support frame.



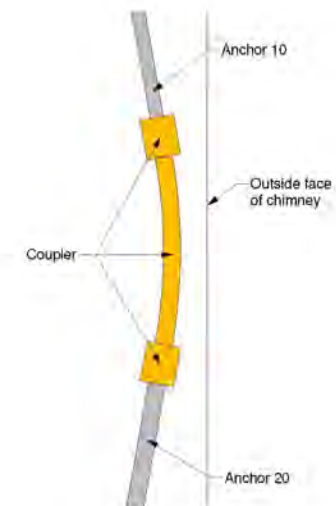


The top opening of the chimney was covered with a steel formwork which the rigs were attached to then covered in plywood. The steel formwork was lifted and rotated to the next hole positions until all eight anchors had been drilled and installed.

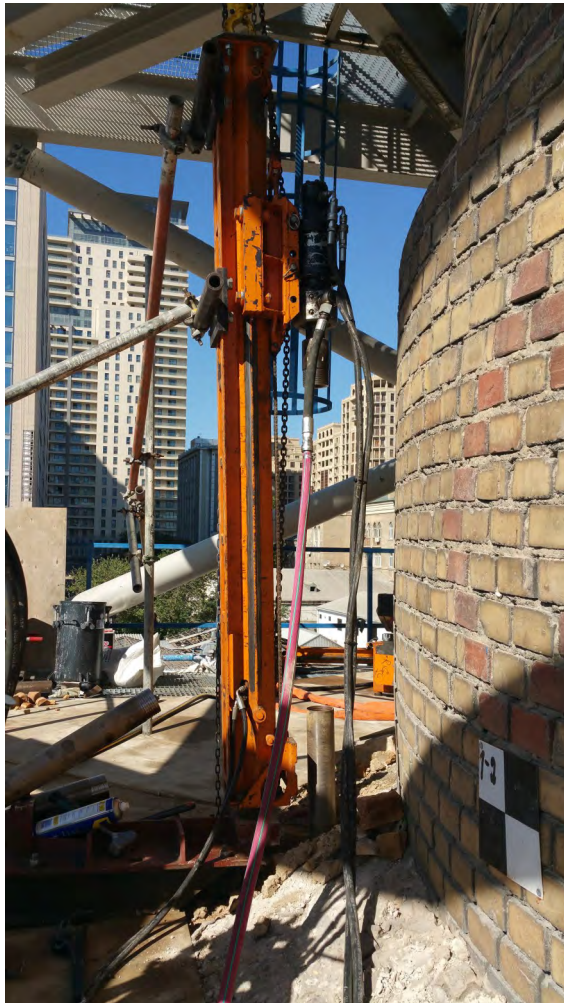


Vertical 24mt holes 101 mm diameter were drilled, angled to suit the outside taper of the chimney

The 18mt and 12mt vertically inclined anchors were connected with a cranked section to create a continuous anchor.

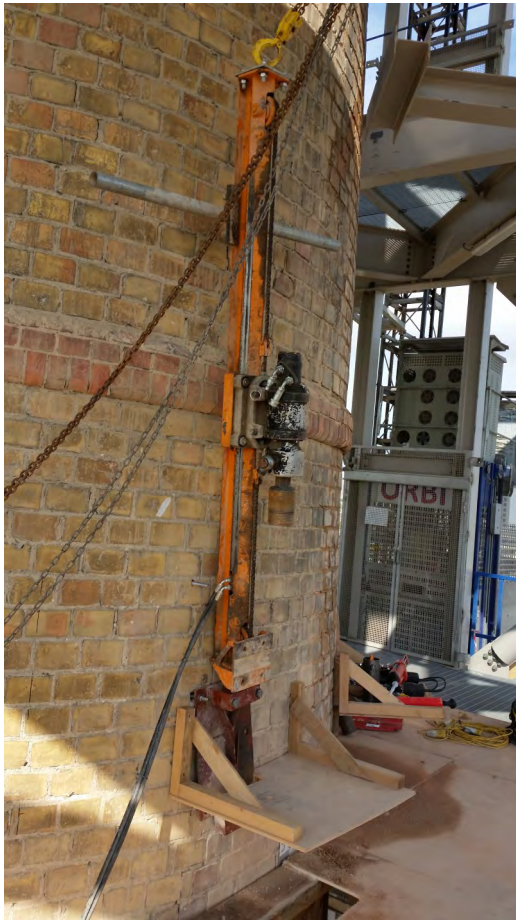


DETAIL 1
SECTION THROUGH
ANCHOR 20 & 10 COUPLER
(1:10)



Lower 15mt long Grip Bar
33mm anchors installed in
the Octagon base finishing
in the brickwork foundation below
ground level.





Precise set up of drilling rig on side of chimney was required. Using digital levels.

Lasers within the barrel ensured an accurate entry point for the drill.





6mt long 25mm starter bars were installed in the brickwork footings. 3mts drilled into the chimney base and 3mt bare bar to cast into the new concrete plinth below ground level.





All cracks were stitched horizontally with M16 stud anchors in 40mm holes.



Artists Impression of the finished development with the restored and strengthened chimney at its centre.



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