



**TUBULARS  
CASE STUDY**

# DON VALLEY VIADUCT

John Lawrie Tubulars is a leading specialist in the supply of new and repurposed steel tubulars. With a keen focus on the circular economy, we purchase steel tubulars from the oil and gas industry and repurpose them as a high-quality for concrete piles in the construction and civil engineering sectors globally.

**Highlights**

Client:	Van Elle
Location:	Don Valley Viaduct Bridge Strengthening
Project:	Supply of steel casing pipe for use as piling
Casing Pipe:	320 metres of 762 x 16mm, 112m of 762 x 25mm
CO <sub>2</sub> e saving:	110 t CO <sub>2</sub> e

**Project Summary**

Originally built in 1880, the Don Valley Viaduct in Aberdeen required strengthening work in 2019. Our client Van Elle won the work to install piles that would form part of a new shock absorber anchorage system that would allow the Don Valley Viaduct to remain in use for many years.

For the project we supplied 40No. 762mm S355 Grade fully fabricated Circular Hollow Section (CHS) piles. These piles were supplied from our Montrose facility in 5m lengths using a variation of 16mm and 25mm wall thicknesses. The piles were fabricated with splice boss connections that Van Elle then installed using its T10,000 RRV Colmar's with Movax attachments.

Using up new unused surplus pipe as piling is an economical as well as environmentally friendly option for construction projects from residential construction to large-scale infrastructure projects.

To date John Lawrie has supplied over 2 million tonnes of steel tubulars for use as piling which has minimised waste, saved more than 4,326,000 t CO<sub>2</sub>e and helped establish a more robust economy. We are proud to be demonstrating innovative thinking in support of the drive towards a circular economy.

