



# Steel Piling Group | Case Study

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## Inner City Basement

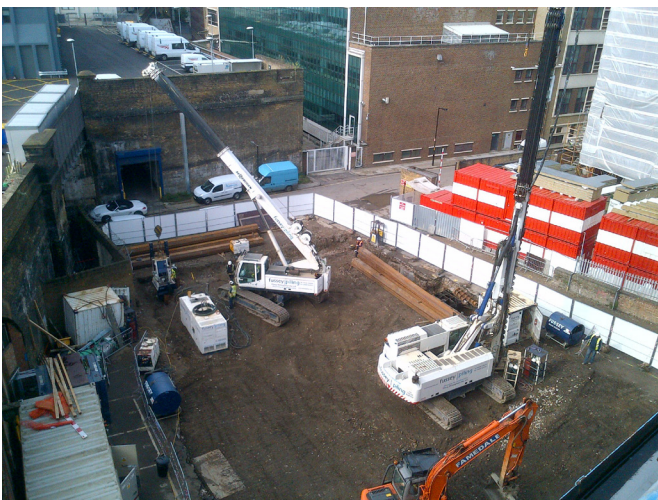
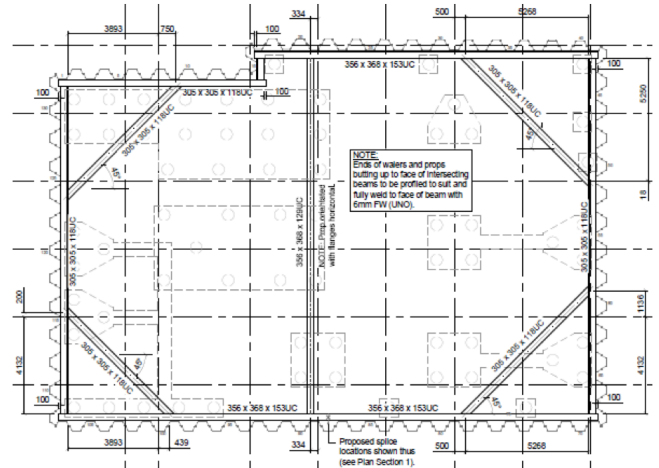
Ewer Street, Southwark, London



<b>Client</b>	Elliott Thomas	<b>Ground Conditions</b>	Made Ground, overlaying Sand and Gravel, overlaying London Clay.
<b>Contractor</b>	Fussey Piling Limited	<b>Value</b>	£140k approx.
<b>Location</b>	Ewer Street, Southwark, London	<b>Completion Date</b>	2013
<b>Scope</b>	Permanent cofferdam for basement construction		
<b>Piles</b>	Arcelor Mittal PU22-1mm 10.0m lengths in Grade S355GP		

Elliott Thomas appointed Fussey Piling to design and install a permanent cofferdam, 78m perimeter (with temporary steel framing), on a compact London site for a new accommodation block housing 150 students. The basement provided for plant rooms, cycle storage and laundry facilities.

Layer	Level (m AOD)		Soil Description
	Top	Base	
1	2.8	0.5	Made Ground
2	0.5	-6.8	Sand & Gravel
3	-6.8	Not Proven	London Clay



The site sat between Network Rail assets (approx. 5m clearance), local roads and existing office buildings, whilst the Jubilee Line ran 14m below the toe of the piles.

Fussey Piling utilised one of their WP150 "Silent & Vibration-Free" sheet pile presses, working with a Sennebogen crawler crane, to minimise disturbance to neighbouring properties and structures.

The perimeter was pre-augered to the full depth of the piles before installation, using an auger mounted to a Bauer RTG16T, to ensure the sheet piles entered the ground smoothly.