

## AVV Solutions Ltd

### Case Study

- **Project:** Royal Liberty School
  
- **Main Contractor:** [Willmott Dixon Construction](#)
- **Architect:** [Vincent and Gorbing](#)
- **External Works:** Restoration of existing grade II\* listed 18th century façade and early 20th century extension.
  - Restoration of the existing Portland stone façade was achieved using the Thermotech and Vortex cleaning systems.
  - Portland stone repairs and replacement and repointing in a lime mortar.
  - Structural embedment repairs, commonly referred to as masonry stitching.
  - Replacement of existing cramps with grade 316 stainless steel cramps.
  - Construction of a new access ramp to the 1920's building.
  - On the 20th Century extension new window openings have been formed as new doorway entrances formed in reconstituted stone from [Haddonstone](#).
  - Construction of a new sports hall.
- **Internal Works:** Internal masonry repairs including removal and reinstatement of traditional plasters.
  - Internal traditional Lime with Timber Lath Plastering
  - Reinstatement of laths and hessian
  - Gypsum Plastering
  - Run In-Situ Moulding Repairs and Replacements
- **End Use:** Remain as an active school

### **Facts about the building:**

Built originally in 1769-70 as a country house for John A. Wallinger, the Royal Liberty School is a state comprehensive secondary school for boys. Being initially a traditional English grammar school, the school joined the Success for all Education trust in 2017. The school is situated on Upper Brentwood Road about 400 metres north of Gidea Park railway station, and approximately halfway between Gidea Park and Ardleigh Green to the north-east of Romford. Royal Liberty officially become a school in 1921, the first headmaster was Barrett Hartley.

With good grounding in subjects like maths, science and geography from their RL curriculum, pupils were considered ideal to be recruited during the world as pilots and navigators, and unfortunately around 100 former students died in the war.

Royal Liberty was the first school in Europe to install an electronic computer (an Elliott 903 similar to the 920 military version) in 1965.

