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For:  
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## **HCH Drama Room Roof Steels**

### **1. Overview**

Following commencement of the Emergency Roof repairs to Hampton Court Houses Drama Room further rot and damage has been discovered. Having sought advice from Duffy Associates – our Structural Engineer, we have identified that the existing roof timbers are in poor structural condition and there is a serious deflection in the hip/ridge line framework that gives concern for the stability and safety of the roof.

The following method statement for the insertion of a steel frame design allows the existing roof structure to be retained by supporting it internally from beneath and without causing undue disturbance to the fabric of the building. The design offers a long-term solution for supporting the weight of the roof.

### **2. Method Statement:**

- Extend scaffolding to facilitate installation of steels
- Install 4 x pad stones to structural engineers specifications (See diagrams) at the level of the wall plate to act as a base for the new steel framework.
- Install Steel support framework to support the existing roof structure as per diagrams
- Remove Slates and Lead Flashings from South facing slope.

- Cut out rotten and water damaged timbers ( Rafters slate boards and valley boards) 1m back from identified rot and replace with appropriate tanilized and treated timber.
  - Rafter repairs to be (m10) bolted to the remaining original structure to replicate current fixings
  - Replacement slate and valley boards to be nailed to rafters and made good.
- Reinstate removed slates, replacing old mineral felt patches and damaged slates with matching reclaimed slates.
- Supply and fit new Lead to ridge lines, hips and valley.
- Install new ceiling boards (like for like) make good and decorate.
- Reputty lantern light where needed and make good.

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