METHOD STATEMENT

1.0 Introduction.

This statement is prepared by **R G Services** and relates to work to be carried out by **R G SERVICES** for **RISE CONTRACTORS LTD.**

2.0 Contract details.

Main Contractor	:	Rise Contracts Ltd Unit 16 Metro Business Centre Kangley Bridge Road Sydenham London SE26 5BW Tel No : 020 8676 9450
Sub-contractor	:	R G Services 50 Lime Grove Doddinghurst Brentwood Essex Tel: 01277 824073
Contract site	:	6 New Square Linclon's Inn London WC2A 3QS

3.0 Author.

This method statement has been prepared by Robert Green of R G Services.
Telephone : 01277 824073
Mobile : 07720 297301

4.0 Scope of works.

This statement relates to strengthening work to be carried out to principle timber floor beams at the above site.

Phase 1 works will commence on Monday 19th December 2011 and last for three weeks.
Phases 2 ,3, and 4 will commence 16th January 2012 and last for thirteen weeks.

5.0 Welfare facilities.

Welfare and First Aid facilities are provided by and shared with the Main Contractor.

6.0 Supervision.

On site supervision and implementation of the method statement will be the responsibility of :-

R S Green (07720 297301) and D R Diss (0795 207847)

7.0 Tools.

Tools used to carry out the work will comprise general carpentry hand tools and small power tools such as circular saws, chain saws, drills reciprocating saws, and grinders.
All power tools will be 110v.

8.0 Personal Protective Equipment.

Hard hats, high visibility jackets, gloves and site boots will be worn at all times.
Additional protective equipment such as goggles, masks, ear defenders and leg defenders will be worn as appropriate.

9.0 Delivery, unloading and storage.

All deliveries will be on vehicles of various size (depending on component) to a maximum of 10 ton.

Unloading will be carried out by hand or truck mounted crane outside the building in New Square.

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Maximum weight of individual component will be 93 kilos.

To gain access to the work areas, the materials will be manhandled via the main entrance and staircase.

On-site storage to be provided by the Main Contractor.

10.0 Sequence and method of work.

10.01 Reinforcement of timber floor beam using reinforced slot method.

10.01.01 The beams to be strengthened temporarily supported by adjustable props from the floor below in order to reduce possibility of incidental deflection during slot cutting.

10.01.02 Flooring over the beam and for approximately 200mm either side of the beam is to be removed to provide access.

10.01.03 Beam then to be inspected to ensure compliance with data provided and to determine where possible any defects. Significant defects or deviation from data provided to be reported and instructions sought.

10.01.04 Beam and immediate area to be examined for services that may interfere with the cutting operation. Any services found to be reported and instructions sought.

10.01.05 The top face of the beam is to be examined and de-nailed.

10.01.06 The top face of the beam to be marked out in accordance with the Engineers details and guide battens screwed into position.

10.01.07 If necessary temporary boarding to be fixed either side of slot to ensure secure footing for operative.

10.01.08 Using the guides a cut is made with the chainsaw either side of the proposed slot for the full specified length of the slot.

10.01.09 Using a drill and auger holes are drilled at either end of the slot for the proposed full depth of the slot.

10.01.10 Further holes are then drilled to full depth between the two ends.

10.01.11 Using an adze and chisel the waste timber is then cut from the slot and the slot trimmed to the specified size.

10.01.12 Splits, shakes and mortice ends that are exposed within the slot are sealed using filler/resin as appropriate to prevent leak of bonding resin.

10.01.13 Low viscosity epoxy resin is mixed in accordance with the manufacturers instructions and a layer approximately 50mm thick poured evenly into the bottom of the slot.

10.01.14 The lower bars of the arrangement are laid into position and spacers placed on top of them along their length.

10.01.15 Further layers of resin, bars and spacers are then progressively laid in the same manner until the full bar pattern is achieved.

10.01.16 The resin is left for at least 48 hours to cure before temporary supports to underside are removed.

10.02 Reinforcement of floor beams using steel plates to soffitt.

10.02.01 The ceiling below the beam is to be cut back for about 300mm either side of the beam to expose the soffitt.

10.02.02 The beam is then to be inspected to ensure compliance with data provided. Any deviation is to be reported and instructions sought.

10.02.03 The soffitt of the beam is then inspected for any obstruction or service they may interfere with the fixing of the plates.

10.02.04 The soffitt of the beam is then cleaned and high spots planed down to ensure good contact with the steel plates.

10.02.05 The two plates to be fixed to the soffitt are placed on the forks of a pair of Genie lifts and raised to beam level.

10.02.06 One of the plates is then positioned on the soffit and used as a template to make pilot hole drillings for the fixing screws.

10.02.07 The plates are then lowered by 400mm.

10.02.08 5mm packs are then fixed to the beam in line with the ends of the plate in order to thicken the resin layer at the ends of the plate to assist the horizontal shear transfer from the beam to the plate.

10.02.09 Thixotropic epoxy resin is then mixed in accordance with the manufacturers instructions and the tops of both plates coated.

10.02.10 One plate is then placed on top of the other and the pair raised to the soffitt of the beam and positioned to align with the predrilled holes.

10.02.11 Starting at the midspan position of the beam and working out towards the ends, the fixing screws are then inserted in the pre-driven holes and driven home.

10.02.12 If necessary the gap at the packed end is injected with additional resin and sealed.

10.02.13 Excess resin is then removed from the plates and the joint.

11.0 Environmental.

Grinding of reinforcement bars, if required, will be carried out in the designated area in accordance with the hot works permit.

All waste and debris to be bagged at the end of each day and removed to Main Contractors waste collection point or skip.

Waste will comprise general builders debris, timber and possible small quantities of resin residue.

Circulation areas to be kept clear of debris at all times.

12.0 Risk assessment.

See attachment.

13.0 COSHH

Appropriate data sheets attached**.**

Signed by on behalf of
R G Services

Robert Green **13/12/11**