CLASSIC MASONRY LIMITED

METHOD STATEMENT

31TH MARCH 2016

NAT WEST BANK SOUTH SHIELDS

STONE REPLACEMENT AND CLEANING

Method Statement Contents

Method Statement for Safe Working

This Method Statement has been produced to assist the site staff to carry out an operation safely and efficiently. It is therefore essential that all relevant information is passed onto and understood by those carrying out the work.

Note: No variation or deviation of this Method Statement will be made without the agreement of the Contracts Manager/Supervisor.

Compiled by :	**Gary Kennedy**
Company Name :	**Classic Masonry Ltd**
Contract Name :	**Nat West Bank**
Project Number / Method Statement Number :	**1853**
Contract Location :	**King Street , South Shields , NE33 1HF**
Main Contractor :	**Morris & Spottiswood**

Scope of work to be undertaken relevant to this method statement:-

- Supply and installation of new profiled stone units to form a new ATM to King Street elevation.
- Infill with new stone of existing ATM to Salem Street elevation.
- Infill of holes and stonework repairs utilising Propriety Compound repair mortar.
- Cleaning of King street and Salem street elevations up to cornice height (approx. 4.2 metres) utilising Thermotec Steam Clean.

Supervision:

- Operations will be controlled by the Site Foreman/Agent under the supervision of the Supervisor and/or Site Manager who will be full time on site.
- Name(s) and position(s) of person(s) carrying out the work:
- **Contracts Manager :** Gary Kennedy 07970652561
- **Site operatives** – TBC (all operatives CSCS accredited in Stonemasonry / Heritage Skills or Façade Maintenance)

Type of PPE Issued:

- Standard & requisite employee PPE: Site Helmets, Works coveralls, Boots, Rigger Gloves, Safety Glasses, Hi vis clothing with company logo.
- Any Operatives requiring to wear Respirators / face masks will have the respirators face fitted and receive face fit training.

- Activity specific PPE as required.
- Classic Masonry and Main Contractor safety policies and PPE policies will be complied with at all times.

Special Work Equipment may be required:

- 110v 5" Angle Grinder
- Sthil Saw
- Medium Duty Breaker
- Water feed Dust suppression
- Hand Held Tools
- Thermotec Steam Cleaning machine
- Scaffold Tower

Date, Time and Duration of Works to be carried out:

- Start Date – TBC
- Completion dates – 5 days' work for stone replacement / 2 x Sundays for cleaning works.

Work Area Conditions and Restrictions:

- All works to be accessed from ground level or scaffold tower.
- Welfare facilities to be provided by Main Contractor.
- The works are to be carried out from inside suitable work barriers and signage.

Where each activity takes place (include drawing/sketch plan):

- King Street and Salem Street.
- All as per marked up elevation drawings.

Emergencies Arising From These Works: Action to be taken:

- Stop work immediately
- Remove all personnel from danger area
- Follow Classic Masonry / Main Contractor / Nat West safety procedures and Emergency Plan.

In the event of a Accident:

- Nearest Hospital: South Tyneside Hospital, Harton Lane, South Shields, NE34 0PL. Tel: 0191 40411000.
- Out of Hours Emergency Tel No. Gary Kennedy 07970652561

Method and Sequence of Operations:

Generally

- All work is to be carried out by skilled and experienced personnel (100% of all employees (excluding apprentices) have CSCS accreditation in Stone Masonry or General Labouring) directly employed by the company under the direction of one of the company foremen. All of the Classic Masonry work force holds certification in abrasive wheels and manual handling use/training.
- Site helmets / gloves / Hi-vis vests / Safety Glasses and boots will be worn at all times and safety instructions given from Classic Masonry will be adhered to at all times by all operatives / visitors to the site.
- Ear defenders and Respirators (Face Fit tested) will be worn where required. NB. Ear plugs will be made available to any operative who requests them.
- Any fire precaution requirements relevant to the site, Pedestrian/ contractor's access routes together with any specific hazards will be brought to the notice of any site personnel/visitors via Main Contractor in the form of a site induction.
- Any subcontractors working on the site are to provide risk assessments, COSHH details, and method statements as necessary before being allowed to commence their works– these to be added to the Health and Safety file as received
- Regular inspection of the works for quality and Health and Safety matters will be undertaken by one of our Contracts Managers, together with Messrs Building Safety Group, the company external Health & Safety consultants, who will attend site on a 10-15 day interval during the course of the contract.
- Daily HAVs duration sheets, Plant PAT Testing, Area Sign Off / Hand over documentation will be recorded and held in the project site file.
- All works are to be undertaken in conjunction with the Specification and schedule of works as tender/contract documentation.
- A copy of the Full Company Health & Safety Policy is available for inspection at the office.

Project Outline Brief

Supply and installation of new profiled stone units to form a new ATM to King Street elevation.

Infill with new stone of existing ATM to Salem Street elevation.

- The full working area will be fully enclosed with herris fencing to segregate the site from the general public.
- At no times can any security / herris fencing around the site be altered or moved, without strict permission from Classic masonry.
- The new ATM / existing ATM will be marked out on each elevation and checked off against the relevant photographs / drawings and the stone schedule to check for correct location.
- All new Limestone units have been cut and dressed to the relevant profile by Classic Masonry at our workshops; these units have been profiled to the Classic Masonry workshop drawings which have been produced from the template details taken from site information.

- All new stone units on the project are pre-cut and manufactured to the desired dimensions an profiles and will arrive on site ready for installation and will be delivered to site by transit van
- We will have a 'banksman' present at all times during deliveries to direct the public away from the site and help maintain their safety.
- The marked up stone areas showing the new openings will be carefully cut out and removed with angle grinders and mechanical breaker and hand tools with great care taking to avoid damage to the adjacent stone.
- All employees have Abrasive Wheels training/certification to undertake these works.
- All mechanical cutting plant will be fitted with suitable Dust Suppression; this will be either water suppression in the form of a suitable water bottle or vacuum suppression with a Hoover attachment to the grinders.
- Great care will be taken in order to prevent damage to any of the surrounding stonework when we cut out the new opening and tooth out for replacement stone units.
- All debris from the dismantling works will be removed from the working areas and placed into a skip provided by the Main Contractor or bagged up and removed from site in a Classic Masonry van.
- The full aperture will be thoroughly cleaned out and flushed with clean water to remove all dust and debris.
- The units will be rebuilt to their new or original line/profile in a traditional method using the schedule and marked up photographs to ensure all units are fixed into their desired location.
- The units will be fixed on a full bed of mortar with great care taken to ensure all bed joints are fully filled. (Mortar mix to be agreed to match the original building.)
- It is important that no voids are left behind the new units where water can settle and cause future problems so every unit will be fully consolidated.
- Any open joints will be filled with a stemming trowel and then fully washed down with clean water and sponges before initial setting takes place.
- The joints will be finished off with a jointing tool and lightly brushed to match the existing and surrounding areas.
- Stainless steel dowels and restraint cramps will be drilled into the bed joint of each adjacent stone unit to secure and stabilize where required.

Infill of holes and stonework repairs utilising Propriety Compound repair mortar.

- The preparatory works required to facilitate the use of compound repair are less percussive and disruptive to the fabric of the façade as small abrasive tools are required to remove the loose friable damaged material prior to repair. Indeed it is essential that minimal use of percussion instruments be employed to avoid disruption/movement of the substrate, leading to 'hair-line' separation of the repair material followed by ultimate failure of the repair.
- It is important that where compound repairs are being considered they are located in areas where the immediate environment can be controlled (good water run-off management), the substrate is of suitable soundness to support the repair (particularly where non-ferrous reinforcing armatures are required), accessibility is achievable to facilitate maintenance (regular monitoring ought to be carried out), and where structural

movement is unlikely to occur (all cement based compounds have restricted plasticity and become brittle as they age).

- The agreed areas will be cut back and remove all loose friable material to sound substrate using non-percussive means, IE: Rotary abrasive small tools.
- Care will be taken to avoid 'feather edging' to the aperture formed. The main structure of the repair will be the sound substrate and it is important that wholesale movement does not occur.
- Once the substrate has been cut back and/or the aperture formed the stone to be repaired will be thoroughly washed down to remove fine dust and provide a key for good repair adhesion.
- This will be done immediately prior to the first layer of repair application.
- The substrate will be kept damp prior to each repair layer application and to avoid shrinkage during the drying out process each repair layer will be covered with damp hessian or similar during the initial set for a period of 24hrs before the application of the following layer.
- Where a repair depth exceeds 30mm a non-ferrous armature will be provided to give support to the repair. Stainless steel, copper or phosphor bronze can be used although care must be taken not to mix the different metals as electrolytic corrosion can take place.
- The armature is formed by setting plugged screws into the substrate at regular intervals and wrapping 1mm – 2mm thick wire (the wire being the same material as the screws) around each screw head to form a cage round which the repair compound will be applied.
- The armature should not come within 25mm of the face the finished surface of the repair. The size of the screws to be used should be appropriate to the depth of repair.
- The compound repair mix should be as close as possible in nature to the substrate being repaired. Repair mixes for sandstone sometimes contain an amount of the crushed sandstone mixed with the fine aggregate and colour pigment.
- A Proprietary Remmers restoration mortar will be colour matched and offered up for approval and used on the project.
- The repair should be built up in layers not exceeding 15mm and usually 10mm where possible.
- Each layer shall be 'scratched' to provide a suitable 'key' for the following layer.
- Each layer should be applied to a dampened surface and well stemmed and compacted around the armature (if required) and against the substrate using a steel stemming tool.
- The repair compound must be prevented from drying out too rapidly and should be covered, if possible, with damp hessian or polythene to inhibit shrinkage.
- The final layer, once applied, will require profiling to match existing stone using a small tool or where continuous profiling is required a reverse templet can be made and scraped against a top and bottom guide timber previously secured to the stone.
- The repair should be finished off with a wooded float or sponge to leave a suitable surface texture.
- The repair compound must be prevented from drying out too rapidly and should be covered, if possible, with damp hessian or polythene to inhibit shrinkage.

Cleaning of King street and Salem street elevations up to cornice height (approx. 4.2 metres) utilising Thermatech Steam Clean.

- The cleaning works are to both the King Street and Salem Street elevations up to the first floor cornice only.
- The purpose of the cleaning operation is to remove surface bound contaminants and detritus from the stone that have not chemically bonded to the surface of the building.
- At all times the protection of the substrate during this work will be the prime consideration. Only in rare circumstances would we suggest abrasion where there is a defined future risk to the building without such an intervention. In such cases we would offer a recommendation for consideration by the Principal Contractor, Project Architect, and Conservation Officer before any further action.
- Access will be gained by using mobile scaffold towers, erected by Classic Masonry personnel. (Classic Masonry personnel have full PASMA accreditation)
- The cleaning works are to take place on a Sunday to minimise the amount of pedestrians using the area. NB: If the area is busy with pedestrians we may have re-visit the access and a fully sheeted fixed scaffold would be required.
- Depending on the quality and seal of the existing windows and doorways we may have to temporary protect and seal the openings with Visqueen sheeting and waterproof adhesive tape.
- Before we commence cleaning we will ensure provision of all safety features including personal and public protection are satisfactory.
- No abrasion, other than non-ferrous bristle brushes for descaling, will be used for the cleaning and descaling process.
- Prior to cleaning we will apply a mist of water to the areas to be cleaned and after an appropriate period of time – between 10 and 15 minutes, we will take a Ph swab from the wall.
- Apply trial samples to confirm specification before commencing any large areas.
- We will then gently brush the surface to be cleaned if there is any loose friable matter, and/or we will then apply a low pressure steam clean over the affected area using the Thermatech System to thoroughly pre-wet the stonework with low volume tap pressure water to moisten the soiling.
- We will also ensure all run off areas are also wet.
- Working from top to bottom steam clean at a maximum pressure of 1000psi but using an average pressure of 800psi. Jetting should be carried out using approximately a 45° fan with a lance distance of 300 - 400mm from the surface of the stone or brick.
- Coverage should be of limited areas at a time working in sequence to mortar joints, downpipes, windows or other natural break points.
- Note – low volume water should be used to avoid saturation.
- Immediately after the steam cleaning process is completed we will take a further Ph swab of the cleaned area, as well as from the water run-off during the cleaning process, to determine if there are any significant fluctuations in the Ph value.
- All water run-off will be controlled and directed into existing pavement and road gullys as available under the direction of the Principal Contractor.
- The operative should be mindful of the risks associated with using steam and appropriate PPE should be available for use during the cleaning operation.

This will be the general method of cleaning that we propose to use throughout the works.

The working areas will be left in a clean and tidy state at the end of every working shift with all debris removed to skips provided or cleared from site for disposal at our workshop address.

NB. All hand held plant is supplied via bonafide plant hire centres, and come with relevant testing and maintenance documentation. All plant will be listed and Hand Arm Vibration records will be kept in our project file.

Variation Works

Any variation works as noted on site or verbally advised to be indicated to Classic Contracts Manager in order to gain formal written approval before undertaking.

Acknowledgement of Reading and Obligation to Adhere to Method

Statement Requirements, Risk Assessments, and COSHH information for :

Nat West South Shields

Job No. 1853

Name of Employee	Signature	Date

Compiled By : Gary Kennedy

Signed : Gary Kennedy

Date : 31st March 2016