



METHOD STATEMENT

Project: Mulbury - Mulbury City, Goulden Street, Manchester, M4 5FR	Principle Contractor: Mulbury Contact: David Watts Email: david.watts@mulbury.co.uk Tel: 07961 061 741
Method Statement Ref: HSRR/MS:250	Revision: 2

1.0 Scope of Works	
	Plan attached: YES / NO:
Approx. Duration: 26 Weeks	Weekend Works: N/A
From: TBC	To: TBC
Dayshift: 08:00 – 16:00	Nightshift: N/A
Description of Works: Attend site to complete Restorative repairs and cleaning as listed below. - Super heat steam cleaning to all identified stone & Brickwork - Replace all spalled brickwork at identified areas across site (sourcing replacements from the original bricks removed during demolition works) - Repair, restore, indent stonework at identified areas across site (sourcing replacements from the original Stone removed during demolition works) - Repointing to all identified areas of stone & brickwork - Remove from site and recondition 16 Cast iron columns	
Has the area been checked for asbestos? If Yes, has the certificate / report been issued If No, then no works are to proceed.	Asbestos to be removed during the demolition process. Any left on site to be managed and asbestos report to be provided to HSRR by main contractor

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<u>Covid-19 (Coronavirus) Additional Risk assessment and supporting documentation is supplied with this set of RAMS.</u>	
Have services been isolated & certificate of isolation issued	N/A
Sequence of Works: 1. Attend site induction, this must include Covid-19 specific topics to cover all activities on site. 2. Ensure RAMS for works to be completed are relevant and highlight all risks involved in completing the required works. 3. Gain access to work area with the use of site identified route. 4. Identify areas to be worked upon as directed by site agent, cordon area to prevent access from unauthorised persons and to maintain a social distance as per Covid-19 risk assessment. 5. Ensure correct PPE is being utilised. 6. Discuss with trades working nearby our requirements in regard to access and egress to the work area re disturbance of our works and Covid-19. 7. Any working at height to be completed from either site supplied, erected and certified scaffold or site supplied and certified MEWP to be operated only by IPAF certified persons after completion of the required checks and ensuring that a harness and fall restraint are being used at all times whilst in the MEWP basket 8. Individual areas of work and processes are listed below <u>Chimney Stack</u> Cleaning 9. Using appropriate brush (Non-Wire) brush off surface dust & contaminates to prevent them being pushed into the masonry prior to cleaning with the Super heat steam system 10. Isolate areas of works per elevation and cordon to prevent access from other trades, ensure the area of work being cordoned and worked upon is briefed to the site team at the morning meeting to ensure all aware 11. Set up Thermatech super heat cleaning system using extended hoses were required ensuring they are ran in a manner so as not to create a tripping hazard. 12. Water to be mains supply, clean and free of contaminants 13. Works at height to be completed from the site supplied scaffold or MEWP as required with all required checks completed. 14. Samples to be completed to stone and brickwork to ensure a survey/assessment can take place to ensure appropriate method utilising experience and expertise to determine the best course of action which is to be approved by Mulbury. 15. Once best practice is identified for cleaning masonry elements then progress with the super heat clean which will be running at 150c at low pressure to give the best results, using the lance from a distance of 400/500mm to prevent surface deterioration. Working from the top down. 16. Check areas of completed works and carry out a second pass to any areas that require a deeper clean. 17. Site Supervisor to be monitoring the brickwork and stonework throughout the cleaning process 18. Abrasive attachment with dolomite abrasive material will be required to remove carbo sulphation to areas of stonework, controlled samples using different grades of dolomite material to determine the most effective combination of grade. 19. Document findings and ensure photographic evidence is obtained before and after as a record of works completed and to assist in the survey. 20. All data sheets to be held in site folder for reference by all site personnel. 21. Removal of deposits, rubbish and surplus materials will be by Henley Stone operatives to the skips provided. 22. Once completed clean down worked in areas and obtain a works completion sign off.	

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Brick Survey, indents & replacements

23. Once all brick & stonework has been cleaned on the chimney stack a survey will be completed to identify all areas requiring brick indents/replacements. This will then be passed to Mulbury site management for approval
24. Once approval has been given works will commence utilising bricks retrieved for the demolition to brick up identified voids accordingly as identified on drawings
25. Any protruding brickwork to be removed as identified to meet the profile of the chimney stack for the addition of new cladding (Installed by others)
26. Protruding bricks to be removed with the use of mechanical cutting equipment, this will have the installed dust extraction system which will minimise the amount of dust created. Operatives are to ensure they are wearing the correct face masks whilst making cuts to the bricks.
27. Once the approval has been given to the survey completed on the brickwork, works will commence replacing the damaged/spalled brickwork throughout the entire chimney stack all replacements to be sourced from bricks left from the demolition works
28. A full repoint to the chimney structure utilising 3.5NHL and locally sourced sands with a ration of 3:1 mix. Samples to be provided before commencing the full repoint of the stack

Stonework – copings to be re-bed & tied

29. Lift off copings and take to ground level with the use of the site supplied crane and driver.
30. Once at ground level remove old bedding material, clean and restore as required
31. Take back to top level, prepare bed to the structure. Install with the use of Stainless L-brackets, resin and dowels to ensure a good fix to the structure.

Internal & External retained Masonry**Cleaning**

32. Using appropriate brush (Non-Wire) brush off surface dust & contaminates to prevent them being pushed into the masonry prior to cleaning with the Super heat steam system
33. Isolate areas of works per elevation and cordon to prevent access from other trades, ensure the area of work being cordoned and worked upon is briefed to the site team at the morning meeting to ensure all aware
34. Set up Thermatech super heat cleaning system using extended hoses were required ensuring they are ran in a manner so as not to create a tripping hazard.
35. Water to be mains supply, clean and free of contaminants
36. Abrasive attachment with dolomite abrasive material will be required to remove carbo sulphation to areas of stonework, controlled samples using different grades of dolomite material to determine the most effective combination of grade.
37. Document findings and ensure photographic evidence is obtained before and after as a record of works completed and to assist in the survey.
38. Sample to be completed on the 4th August 2021 on the corner of Goulden & Cross Keys street

Brick Indents/replacements

39. Once clean completed identify spalled brickwork and create report to pass to Mulbury site management for confirmation of bricks that require replacement, indent or leaving.
40. All bricks to be sourced from the demolition bricks
41. Cut out defective bricks with the use of mechanical equipment ensuring that the dust extraction system is in operation to minimise dust creation, operatives to ensure they are utilising face masks whilst completing cutting operations.
42. Replace bricks as required and reinstate using the 3.5NHL and local sand mix as the heritage approved mix.

Stone Repairs, Indents/replacements.

43. Once clean survey to be completed to identify areas of stone to be repaired/replaced. Once survey approved by Mulbury commence with works.
44. Isolated stone repairs to be completed using Lime Green heritage approved repair mix, colour match sample to be completed prior to completing full scope of repairs.
45. Square the area to be repaired
46. Apply bond (PVA) to ensure adhesion to face of stonework being repaired, apply with a brush with a ration of 6:1 to water.

47. Mix the amount of required for the repair using lime green repair mx & clean water. Apply to repair site in MAX 10mm layers allowing to cure each time. Build up to match profile and shape using wooden float
48. Clean down surrounding stone with sponges to ensure no smearing to existing stone from repairs

Indents

49. Larger identified areas of stone restoration will be carried out using reclaimed stone from the demolition works and used as an indent or replacement.
50. Stonework will be identified for a matching profile
51. Area to be indented to be squared using a masonry chisel.
52. Source, measure & cut a section with a matching profile to be used as indent
53. Drill the indent and fix 2x6mm stainless dowels with resin. Offer up to area of indent and drill over sized holes to accept the 6mm pins in the indent, fill holes with resin and affix the new piece of stone, allow resin to cure and make good profile if required.

Stone Pointing

54. Remove the defective pointing with hand chisels
55. Using the pre-bagged lime green mix and clean water make up pointing mix
56. Pointing to be applied to a depth of 20mm or as a standard a minimum of double the joint width and applied with a trowel
57. Sponge down area surrounding new pointing to ensure no smearing on to the stonework

Brick Pointing

58. Using 3.5NHL & Locally sourced sands as per sample
59. Remove with mechanical router fitted with dust extraction system remove previous pointing
60. Mix pointing material with clean water and document ratio's to ensure any further mixes are the same colour.
61. Ensure a flush beaten back finish with a churn brush to show fine/aggregates in the face

Stone Quoins and Ashlar plinth restoration

62. Survey to be completed after clean to identify areas for repair and for Mulbury to confirm which areas to be repaired.
63. Using pre-bagged lime green repair mix and clean water make up repair mix.
64. Defrazz the stone surface and create a bond with a PVC and water mix (6:1)
65. Apply scratch coat of 10mm at time allowing time to cure with each layer
66. Finish with a wooden float to achieve texture & profile
67. Clean down surrounding area to ensure no smearing to existing stone work

Bendix Street – Cast Iron Columns

68. Demolition team are to remove the columns from there current fixed position and remove excess concrete/fixing material from them, Then hold in situ whilst the HSRR team wrap with pallet wrap inserting packing material for protection during transit
69. Demolition team then to lay columns on to bespoke pallets in a single layer with no more than 3 columns per pallet.
70. Site visit by Henley Stone Restoration & Remedials management whilst the above is in progress to ensure each column is clearly marked up and identified.
71. Wrap the columns and pallet to hold columns in situ. Ensuring they are stored safely awaiting collection.
72. Using the site provided forklift/telehandler carefully place on to transport. Ensuring that a protection material is placed down before the pallet to limit vibrations
73. HSRR to collect from site and remove to premises where recondition works can be undertaken, using the Thermatec abrasive attachment to remove surface dust & defective paint.
74. Recoat with specified colour primer/treatment (TBC)
75. Return to site at agreed date/time for reinstallation
76. Installation process to TBC with Mulbury & Henley Stone Restoration & Remedials.

Scaffold Ties. Suggested Repairs to Brick & Stonework

77. We'd suggest the holes are core drilled with a suitably sized core bit that will allow the tubes to be passed through the material. If possible, if the cores/plugs from the stone holes could be retained for when the making good is to be done, that would be helpful but not essential.
78. As an option for the brickwork, if the required bricks are marked up in advance, we could attend site reasonably in advance and carefully chop these out. If possible during the removal process, we'd try and save as many as possible, however, we can't guarantee every brick will be able to be removed whole for re-use.
79. For making good the brickwork, we'd then suggest we carefully chop out any such drilled bricks and we can then replace them with salvaged bricks from the demolition works. This would be the best and neatest way to repair those so affected.
80. To make good where stones have been cored, we'd suggest that the holes be filled with either the remains of the core plug or a matching stone dust repair mix. We would then apply a skim coat over the face of the affected stonework to allow it to blend back in and be indistinguishable from the surrounding/existing.

Retained Wall section – Corner of Golden Street & Chadderton Street

81. Demo team to remove the copings to the natural joint and as per provide drawings (HSRR To clean by hand the coping end which will now be showing.
82. Demo team to remove brickwork to the measurements provided leaving a 450mm buffer area
83. HSRR to carefully remove the brickwork back to the dimensions required as per site provided drawings. This will be done with the use of an angle grinder to cut out the bed material (Experience has shown this to be the best way to avoid causing damage to the brickwork in situ).
84. All brick removed will be then cleaned of old bedding material by hand
85. HSRR to the rebuild a neat edge using the recovered/cleaned bricks, ensuring that the process of toothing in is maintained through the whole height of the edge.

2.0 Project Organisation for Health & Safety

Principle Contractor – Mulbury

3.0 Risks & Controls

All areas around which work is taking place to be cordoned off. Correct & Appropriate PPE to be worn whilst undertaking works. Glasses, Gloves, Dust masks, Work boots, Hard Hat, Harness.

NOTE: See additional advice attached to Method statement to ensure the correct cleaning of hands to limit the current threat and transmission of the Coronavirus.

4.0 Means of Access & Egress**To Site:**

Entry to site is only permitted via designated and clearly identified site entrance and exits. The site attendance register MUST be updated on entry and exit by printing and signing with times. Ensure whilst on site the Traffic management plan is strictly adhered to due to COVID-19

Escape Routes & Muster Point:

All fire escape routes and muster points to be clearly identified and briefed to all site operatives by the principle contractor during the site induction. If site a one-way system is in place this must be relayed at the site induction and strictly adhered to due to Covid-19

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To the work area:

Site designated walkways and routes identified by Mulbury

To high level works (if applicable):

Any working at height to be completed from supplied, erected & certified scaffold. Where scaffold is not in use a site supplied and certified MEWP/telescopic boom will be used, operated only by IPAF certified persons having completed the required checks and wearing the required fall restraint/harness whilst in the basket and operating.

Welfare Facilities:

Site provided welfare facilities available and to be utilised in line with Covid-19 restrictions and site direction. Staggered breaks to be implemented along with hand cleaning and sanitisation stations.

5.0 Lighting

Safety & Emergency Lighting to be provided by: N/A

Task Lighting to be provided by: N/A

6.0 Plant & Equipment:

Plant: Site Supplied MEWP

Use of hand tools: All hand tools to be checked for condition prior to use, any equipment not deemed fit for work will be replaced.

Power Tools:

Cutting tools to be 110v and PAT tested for used on site

7.0 Training

Training will be required for the following operations:

All Operatives CSCS Certified

Copies of certificates to be retained by the project management prior to the commencement of any works

7.1 Fit for Work

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All of our operatives are fit for duty to work in accordance with this set of RAMS. We are currently not aware of any of our operatives with a medical condition which may require special attention, however, in the event that anyone working on site is found to have a medical condition their needs will be dealt with accordingly.

8.0 Hazardous Materials & Substances

COSHH data sheets applicable are attached as listed below:

3.5 Natural Hydraulic Lime

Lime green Repair Mix

All Data Sheets & COSHH Assessments Supplied

9.0 House keeping

All working areas to be kept clean and tidy.

All waste materials to be disposed of correctly in the correctly designated skips, if skips are not available follow the direction of site management.

10.0 Special Control Measures

See section 3 of Risk Assessments for control measures

Hot works permit Required.

NO

Lifting Plan Required.

NO

11.0 Briefing Register

All operatives will read thoroughly all RAMS and COSHH Data sheets and will sign below to agree full understanding of all requirements prior to works commencing.

12.0 Personal Protective Equipment

PPE required for these works are as below;

Hard Hat	X	Eye protection	X	Gloves	X
Safety Boots	X	Ear Defenders	X	Overalls	X
Hi Viz Vest	X	Dust Masks	X	Safety Harnesses	X

Other additional Measures

See COVID-19 Specific RAMS

13.0 General

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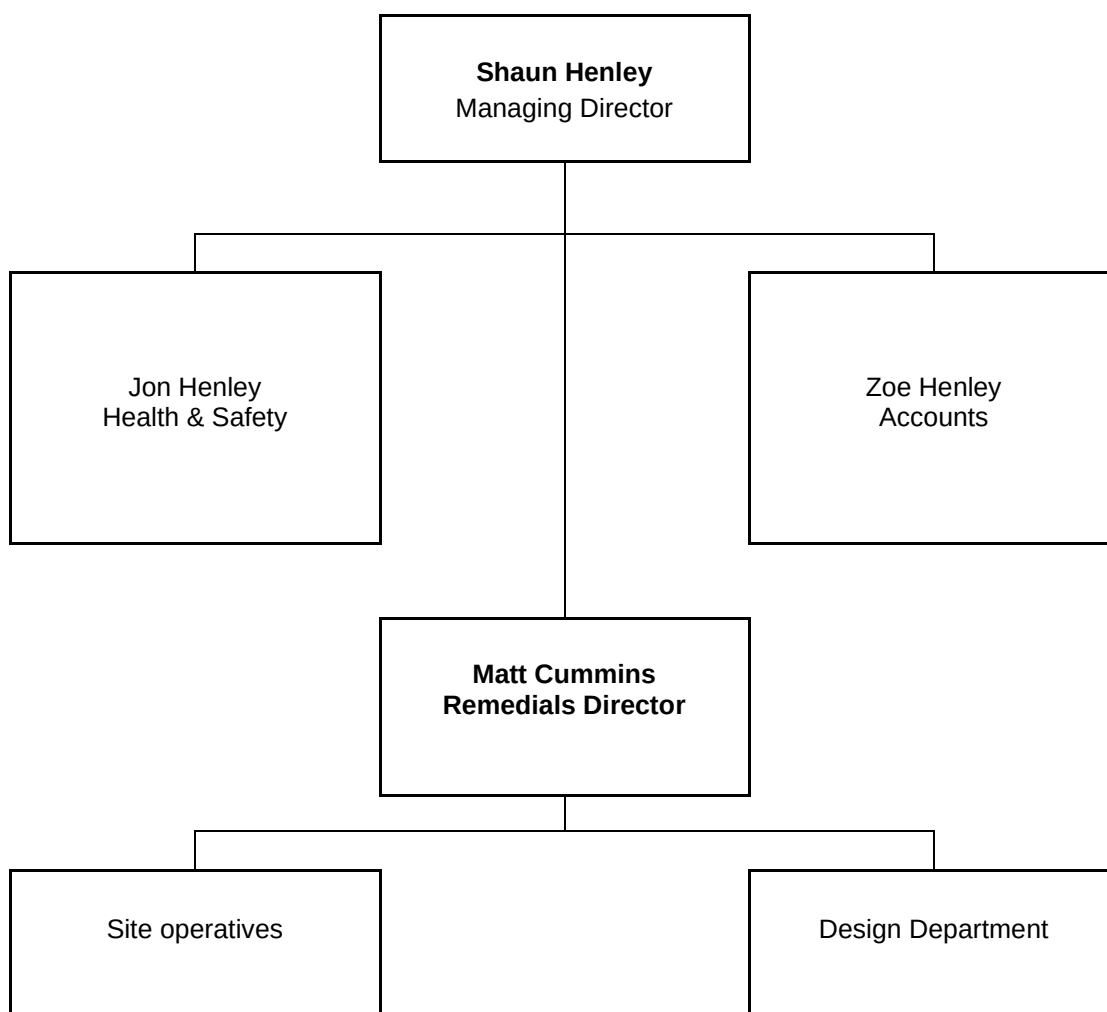
First Aiders are:**Client controlled –** Mulbury**In Emergency Dial: 999****Closest Emergency department:** Manchester Royal Infirmary, Oxford Rd, Manchester, Greater Manchester, M13 9WL**Manchester Royal Infirmary –** 0161 276 1234**Managers Responsible for safety are:**

Jon Henley

14.0 Communications**Important Telephone Numbers are as follows:**

Matt Cummins: 07583 417 282

Jon Henley: 01924 472 277



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This Method Statement was prepared by:

Name: Jon Henley

Company: Henley Stone Restoration & Remedials Ltd

Position: Operations manager

Signed: *Jon Henley*

Date: 28/07/2021

This Method Statement has been approved by (Main Contractor):

Name:

Company:

Position:

Signed:

Date:

The undersigned have read the attached Method Statement and acknowledge that they understand all that is contained within it.

<u>Name(s):</u>	<u>Company</u>	<u>Position</u>	<u>Signed</u>	<u>Date</u>
i.	:	:	:	:
ii.	:	:	:	:
iii.	:	:	:	:
iv.	:	:	:	:
v.	:	:	:	:

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As part of our commitment into the prevention of the passing of coronavirus all operatives must ensure they adhere to the below when cleaning their hands, whilst also observing any site-specific requirements.

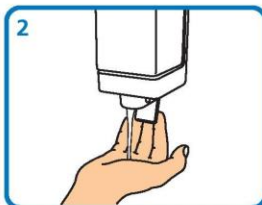
See Also COVID-19 Specific Risk Assessments and additional guidelines



Hand-washing technique with soap and water



Wet hands
with water



Apply enough soap
to cover all
hand surfaces



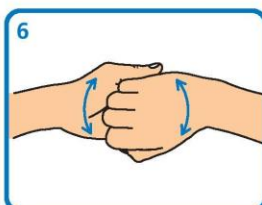
Rub hands palm
to palm



Rub back of each hand
with palm of other hand
with fingers interlaced



Rub palm to palm with
fingers interlaced



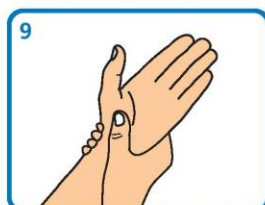
Rub with back of fingers
to opposing palms with
fingers interlocked



Rub each thumb clasped
in opposite hand using a
rotational movement



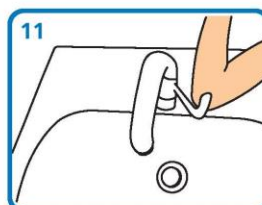
Rub tips of fingers in
opposite palm in a
circular motion



Rub each wrist with
opposite hand



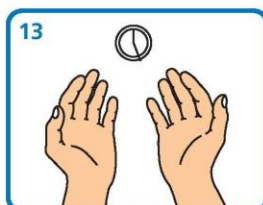
Rinse hands
with water



Use elbow to
turn off tap



Dry thoroughly with
a single-use towel



Hand washing should take
15–30 seconds



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Adapted from World Health Organization *Guidelines on Hand Hygiene in Health Care*



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