The Royal Exchange – Stone Repairs – Cross Street Elevation

Ref	Item Description	Photo	Building Location	Comments
308	Redundant scaffold fixings from previous phase of works across various areas of the elevation; remove redundant fixings and restore the holes using Stone Central stone restoration mortar			Numerous redundant fixings across the full elevation varying in size from small plugs to previous scaffold fixings and bracketry
309	Previous indent to head loss of jointing mortar; carefully cut back and regrout voids			Previous indent to head loss of jointing mortar; carefully cut back and regrout voids
310	Damp area evident to the internal corner; investigate to determine cause and report back to client of possible causes and solutions			Damp area evident to the internal corner likely to be from hidden rainwater pipes. Stone darker in colour

The Royal Exchange – Stone Repairs – Cross Street Elevation

311	Damp area evident around window head; investigate to determine cause and report back to client of possible causes and solutions			Areas of darker stone indicating possible staining due to damp
312	Crack evident through top left hand corner pier unit; stitch and pin across crack and carefully open up / restore using Stone Central stone restoration mortar			Diagonal crack to top left hand corner approx. 500mm long
313	Damp area evident around window head; investigate to determine cause and report back to client of possible causes and solutions			Areas of darker stone indicating possible staining due to damp
314	Poor repair and erosion to bottom right hand side of recessed ashlar unit; carefully cut back and indent a piece of new stone			Approx 300 x 50 x 300

The Royal Exchange – Stone Repairs – Cross Street Elevation

315	Previous indent to baluster loss of jointing mortar; carefully cut back and regrout voids			Previous indent to baluster loss of jointing mortar; carefully cut back and regrout voids
316	Damp area evident around window; investigate to determine cause and report back to client of possible causes and solutions			Areas of darker stone indicating possible staining due to damp – staining to heads, 2 mullions and RH Jamb
317	Small spall to top left hand corner of hood mould; carefully cut back and indent a piece of new stone			Possible previous indent – cut out section and indent with new piece of stone to original line – approx. 50mm x 50mm
318	Erosion to moulded string below dentil course; indent moulded string detail section only			Cavetto moulded section below dentils approx. 600mm long

The Royal Exchange – Stone Repairs – Cross Street Elevation

319	Damp area evident to the internal corner; investigate to determine cause and report back to client of possible causes and solutions			Areas of darker stone indicating possible staining due to damp – to the area around window
320	Small spall by joint; carefully cut back and indent a piece of new stone			Approx 250mm x 75mm to ashlar block
321	Damp area evident around window head; investigate to determine cause and report back to client of possible causes and solutions			Area around middle and LH head as well as LH Mullion

The Royal Exchange – Stone Repairs – Cross Street Elevation

322	Small spall to right hand corner of string unit; carefully cut back and indent a piece of new stone			Crack to corner below lead which will soon spall off – approx. 100mm x 100mm
323	Damp area evident to the internal corner; investigate to determine cause and report back to client of possible causes and solutions			Areas of darker stone indicating possible staining due to damp – to the area around LH pier and half baluster
324	Spalling and erosion to base of half baluster unit; carefully cut back and indent a piece of new stone			To base of half baluster and top of string below

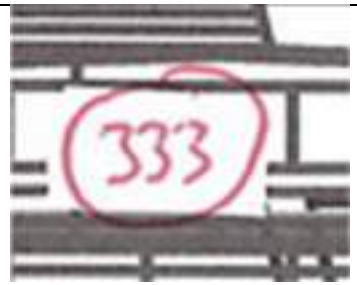
The Royal Exchange – Stone Repairs – Cross Street Elevation

325	Small spall to right hand corner of recessed feature unit; carefully cut back and indent a piece of new stone			Small spall to right hand corner of recessed feature unit Currently assume other indents are solid
326	Copper staining to left hand side of window; clean the area using 2 applications of a poultice to draw out the oxidisation staining within the stone			Green staining to left of window from lightning conductor
327	Open beds to balustrade plinth unit; carefully cut back and indent a piece of new stone			Open beds to unit that the balusters are sat on
328	Damp area evident around window head; investigate to determine cause and report back to client of possible causes and solutions			Areas of darker stone indicating possible staining due to damp – to the area above window head, the head and the RH Jamb

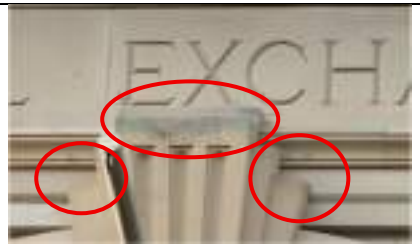
The Royal Exchange – Stone Repairs – Cross Street Elevation

329	Damp area evident to the internal corner; investigate to determine cause and report back to client of possible causes and solutions			Areas of darker stone indicating possible staining due to damp – to the area above window head, the head, the RH Jamb and area to the internal corner
330	Possible displaced coping; allow to cramp for now prior to repointing and investigate if any further works are required			Left hand coping above centre baluster looks out of line with the right hand one and open joint
331	Spalling and erosion to dentil feature; carefully cut back and indent a piece of new stone			5th dentil feature from the left
332	Erosion to moulded string below dentil course; indent moulded string detail section only			Section of cavetto moulded string below item 331 approx 250mm long

The Royal Exchange – Stone Repairs – Cross Street Elevation

333	Area prone to damp and algae build up - numerous indents previously and erosion of adjacent units; investigate to determine cause and report back to client of possible causes and solutions			
334	Crack evident through ashlar unit above moulded string; stitch and pin across crack and carefully open up / restore using Stone Central stone restoration mortar			Approx 600mm long
335	Spalling and erosion to upper mould of decorative capital; carefully cut back and indent a piece of new stone			Spall to top of capital to LHS of centre feature
336	Copper staining to string detail and capital; clean the area using 2 applications of a poultice to draw out the oxidisation			Green staining to top of string unit approx. 1500mm long

The Royal Exchange – Stone Repairs – Cross Street Elevation

	staining within the stone			
337	Copper staining to keystone; clean the area using 2 applications of a poultice to draw out the oxidisation staining within the stone			Green staining to top faces of keystone
338	Damp area evident to cornice section; investigate to determine cause and report back to client of possible causes and solutions			To dentil course and cornice above the 'Exchange' letters
340	Copper staining to capital; clean the area using 2 applications of a poultice to draw out the oxidisation staining within the stone			Green staining to top left hand corner of capital

The Royal Exchange – Stone Repairs – Cross Street Elevation

341	Damp area evident to cornice section; investigate to determine cause and report back to client of possible causes and solutions			Areas of darker stone indicating possible staining due to damp – to the area above letters MCMXIV
342	Small spall by joint; carefully cut back and indent a piece of new stone			Small spall to top of cornice by joint
343	Erosion to cornice section, including moulded string and lower drip detail to internal corner; carefully cut back and indent a pieces of new stone			Erosion to top moulding of cornice section and lower drip detail – indent up to 50mm back from front face of lower drip detail up to the internal corner. Include half of the return as separate pieces

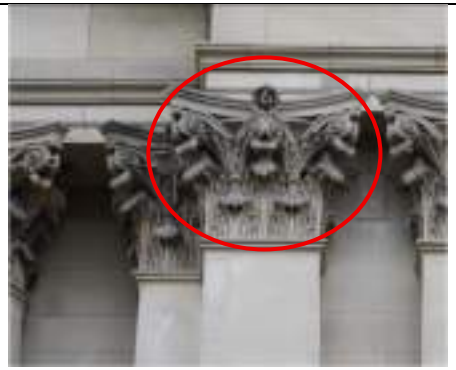
The Royal Exchange – Stone Repairs – Cross Street Elevation

344	Previous protective netting installed to modillions and moulded string detail below; remove netting and make good holes using Stone Central stone restoration mortar once the friable stone has been removed			All netting and fixing holes in this location to be removed and holes made good. Any additional works tbc following the scaffold inspection
345	Bricks fixed within recesses of decorative capitals; remove mortar that has been used to face up they bricks and use a stone restoration mortar to help disguise them. Check secure			Bricks used as additional support within recesses. Works apply to all bricks within this particular capital – SE to confirm can be left and support adequate
346	Bricks fixed within recesses of decorative capitals; remove mortar that has been used to face up they bricks and use a stone restoration mortar to help disguise them. Check secure			Bricks used as additional support within recesses. Works apply to all bricks within this particular capital – SE to confirm can be left and support adequate

The Royal Exchange – Stone Repairs – Cross Street Elevation

347	Bricks fixed within recesses of decorative capitals; remove mortar that has been used to face up they bricks and use a stone restoration mortar to help disguise them. Check secure			Bricks used as additional support within recesses. Works apply to all bricks within this particular capital – SE to confirm can be left and support adequate
348	Bricks fixed within recesses of decorative capitals; remove mortar that has been used to face up they bricks and use a stone restoration mortar to help disguise them. Check secure			Bricks used as additional support within recesses. Works apply to all bricks within this particular capital – SE to confirm can be left and support adequate
349	Bricks fixed within recesses of decorative capitals; remove mortar that has been used to face up they bricks and use a stone restoration mortar to help disguise them. Check secure			Bricks used as additional support within recesses. Works apply to all bricks within this particular capital – SE to confirm can be left and support adequate

The Royal Exchange – Stone Repairs – Cross Street Elevation

350	Small spall by joint; carefully cut back and indent a piece of new stone			Spall to cill string – indent 75mm wide
351	Bricks fixed within recesses of decorative capitals; remove mortar that has been used to face up they bricks and use a stone restoration mortar to help disguise them. Check secure			Bricks used as additional support within recesses. Works apply to all bricks within this particular capital – SE to confirm can be left and support adequate
352	Bricks fixed within recesses of decorative capitals; remove mortar that has been used to face up they bricks and use a stone restoration mortar to help disguise them. Check secure			Bricks used as additional support within recesses. Works apply to all bricks within this particular capital – SE to confirm can be left and support adequate

The Royal Exchange – Stone Repairs – Cross Street Elevation

353	Bricks fixed within recesses of decorative capitals; remove mortar that has been used to face up they bricks and use a stone restoration mortar to help disguise them. Check secure			Bricks used as additional support within recesses. Works apply to all bricks within this particular capital – SE to confirm can be left and support adequate
354	Bricks fixed within recesses of decorative capitals; remove mortar that has been used to face up they bricks and use a stone restoration mortar to help disguise them. Check secure			Bricks used as additional support within recesses. Works apply to all bricks within this particular capital – SE to confirm can be left and support adequate
355	Bricks fixed within recesses of decorative capitals; remove mortar that has been used to face up they bricks and use a stone restoration mortar to help disguise them. Check secure			Bricks used as additional support within recesses. Works apply to all bricks within this particular capital – SE to confirm can be left and support adequate

The Royal Exchange – Stone Repairs – Cross Street Elevation

356	Bricks fixed within recesses of decorative capitals; remove mortar that has been used to face up they bricks and use a stone restoration mortar to help disguise them. Check secure			Bricks used as additional support within recesses. Works apply to all bricks within this particular capital – SE to confirm can be left and support adequate
357	Bricks fixed within recesses of decorative capitals; remove mortar that has been used to face up they bricks and use a stone restoration mortar to help disguise them. Check secure			Bricks used as additional support within recesses. Works apply to all bricks within this particular capital – SE to confirm can be left and support adequate
358	Redundant bracket fixed in to soffit of arch; remove bracket and make good holes using Stone Central stone restoration mortar			
359	Bricks fixed within recesses of decorative capitals; remove mortar that has been used to face up they bricks and use a stone restoration mortar to help disguise them. Check secure			Bricks used as additional support within recesses. Works apply to all bricks within this particular capital – SE to confirm can be left and support adequate

The Royal Exchange – Stone Repairs – Cross Street Elevation

360	Bricks fixed within recesses of decorative capitals; remove mortar that has been used to face up they bricks and use a stone restoration mortar to help disguise them. Check secure			Bricks used as additional support within recesses. Works apply to all bricks within this particular capital – SE to confirm can be left and support adequate
361	Bricks fixed within recesses of decorative capitals; remove mortar that has been used to face up they bricks and use a stone restoration mortar to help disguise them. Check secure			Bricks used as additional support within recesses. Works apply to all bricks within this particular capital – SE to confirm can be left and support adequate
362	Bricks fixed within recesses of decorative capitals; remove mortar that has been used to face up they bricks and use a stone restoration mortar to help disguise them. Check secure			Bricks used as additional support within recesses. Works apply to all bricks within this particular capital – SE to confirm can be left and support adequate – 2No.

The Royal Exchange – Stone Repairs – Cross Street Elevation

363	Bricks fixed within recesses of decorative capitals; remove mortar that has been used to face up they bricks and use a stone restoration mortar to help disguise them. Check secure			Bricks used as additional support within recesses. Works apply to all bricks within this particular capital – SE to confirm can be left and support adequate – 4No.
364	Open bed to unit; carefully open up and restore using Stone Central stone restoration mortar			Approx. 600mm long
365	Redundant bracket fixed to recessed ashlar panels; remove bracket and make good holes using Stone Central stone restoration mortar			

The Royal Exchange – Stone Repairs – Cross Street Elevation

366	Open bed to unit; carefully open up and restore using Stone Central stone restoration mortar			Approx 700mm long
367	Crack evident through arch unit; stitch and pin across crack and carefully open up / restore using Stone Central stone restoration mortar			Approx 250mm long
368	Small spall to moulded string unit; carefully cut back and indent a piece of new stone			Approx 150mm wide erosion to top mould

The Royal Exchange – Stone Repairs – Cross Street Elevation

370	Damage is evident to plinth units across the elevation; leave for now as only an aesthetic issue and it will likely become damaged again from equipment being moved in and out of the building			Not part of the initial brief
371	Spalling and erosion to face and returns of rusticated pilaster units where restoration mortar has been used previously; carefully cut back and indent a piece of new stone			Front face and 2 small 100mm returns
372	Erosion to moulded plinth stop section; carefully cut back and restore using Stone Central stone restoration mortar			

The Royal Exchange – Stone Repairs – Cross Street Elevation

373	Spalling and erosion to face and returns of rusticated pilaster units where restoration mortar has been used previously; carefully cut back and indent a piece of new stone			Front face and 2 No 200mm returns
374	Erosion to moulded plinth stop section; carefully cut back and restore using Stone Central stone restoration mortar			
375	Spalling to jamb stone likely due to a window frame fixing; carefully cut back and restore using Stone Central stone restoration mortar			

The Royal Exchange – Stone Repairs – Cross Street Elevation

376	Erosion to moulded plinth stop section; carefully cut back and restore using Stone Central stone restoration mortar			2 faces next to frame
377	Erosion to moulded plinth stop section; carefully cut back and restore using Stone Central stone restoration mortar			2 faces next to frame
378	Spalling and erosion to face and returns of rusticated pilaster units where restoration mortar has been used previously; carefully cut back and indent a piece of new stone			Front face and 2 No 200mm returns

The Royal Exchange – Stone Repairs – Cross Street Elevation

379	Spalling to jamb stone; carefully cut back and restore using Stone Central stone restoration mortar			2 faces next to frame
380	Spalling and erosion to face and return of internal corner unit where restoration mortar has been used previously; carefully cut back and indent a piece of new stone - 3 faces			Front ashlar faces only
381	Spalling to coping stones; assess for repairs once descaled as they may be able to be left with a redressed finish. Reinstatement of lines / profiles would be more for aesthetic reasons			All edges of copings to be assessed once descaled but no further works listed for now as per initial brief

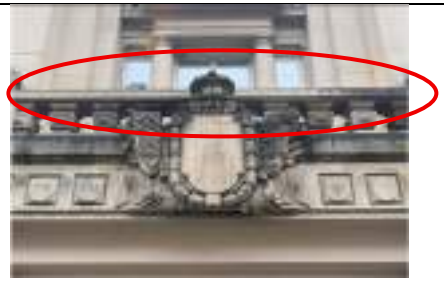
The Royal Exchange – Stone Repairs – Cross Street Elevation

382	Opens beds within units to crest feature; carefully open up and restore using Stone Central stone restoration mortar - only where absolutely necessary			2 locations of open beds shown but full area to be checked
383	Spalling and crazing/cracking where restoration mortar has been used previously to the centre flat section of the crest feature; carefully cut back and indent a piece of new stone			Front flat face of crest feature to be indented to match original shape
384	Spalling to face of capping unit where restoration mortar has been used previously; carefully cut back and restore using Stone Central stone restoration mortar			small section of front face and return

The Royal Exchange – Stone Repairs – Cross Street Elevation

385	Erosion to ashlar units used to form the new entrance reveals; assess for repairs once descaled as they may be able to be left with a redressed finish. Reinstatement of lines / profiles would be more for aesthetic reasons			All edges of ashlar panels to be assessed once descaled but no further works listed for now as per initial brief
386	Opens bed within reveal unit; carefully open up and restore using Stone Central stone restoration mortar			Approx 150mm long
387	Erosion to step units; assess for repairs once descaled as they may be able to be left with a redressed finish. Erosion is happening due to the salts that are likely used in the winter months.			Applies to all steps – left as descaled for now as per original brief - further works to be agreed if required

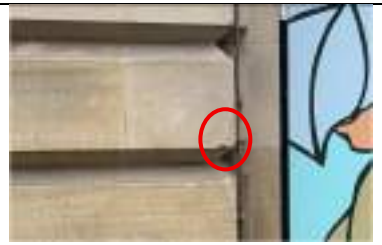
The Royal Exchange – Stone Repairs – Cross Street Elevation

388	Previous indent with open joints; carefully cut back and grout joints			Bottom LH corner
389	Spall to rusticated unit; carefully cut back and indent a piece of new stone			Spall to top mould of rusticated unit – indent affected area
390	Spalling to coping stones; assess for repairs once descaled as they may be able to be left with a redressed finish. Reinstatement of lines / profiles would be more for aesthetic reasons			All edges of copings to be assessed once descaled but no further works listed for now as per initial brief

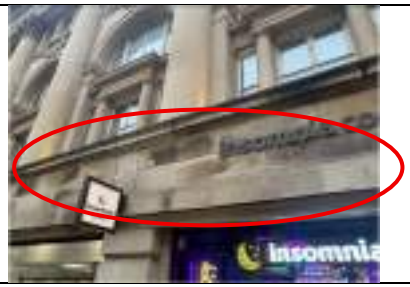
The Royal Exchange – Stone Repairs – Cross Street Elevation

391	Opens beds within units to crest feature; carefully open up and restore using Stone Central stone restoration mortar - only where absolutely necessary			full area to be checked
392	Spalling and crazing/cracking where restoration mortar has been used previously to the centre flat section of the crest feature; carefully cut back and indent a piece of new stone			Front flat face of crest feature to be indented to match original shape
393	Spalling to square section of feature panel; carefully cut back and indent a piece of new stone			Approx 400mm x 75mm x 75mm
394	Spalling to face of rusticated unit where restoration mortar has been used previously; carefully cut back and restore using Stone			Approx 50mm x 150mm

The Royal Exchange – Stone Repairs – Cross Street Elevation

	Central stone restoration mortar			
395	Spalling to face of bottom right hand side of rusticated unit; carefully cut back and restore using Stone Central stone restoration mortar			Approx 100mm x 50mm
396	Spalling to leading edge of projecting string; carefully cut back and restore using Stone Central stone restoration mortar			Approx 100mm x 100mm
397	Previous indent with open joints; carefully cut back and grout joints			
398	Spalling to leading edge of projecting string; carefully cut back and restore using Stone Central stone restoration mortar			Approx 150mm x 100mm

The Royal Exchange – Stone Repairs – Cross Street Elevation

399	Spalling to jamb stone; carefully cut back and restore using Stone Central stone restoration mortar			Face next to frame
400	Damp area evident; investigate to determine cause and report back to client of possible causes and solutions			Areas of darker stone indicating possible staining due to damp – 2 ashlar courses and cornice above shopfront
401	Redundant metal fixings within reveal; remove redundant fixings and restore the holes using Stone Central stone restoration mortar			
402	Damp area evident; investigate to determine cause and report back to client of possible causes and solutions			Areas of darker stone indicating possible staining due to damp – 2 ashlar courses and cornice above shopfront

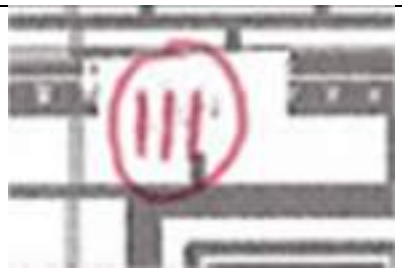
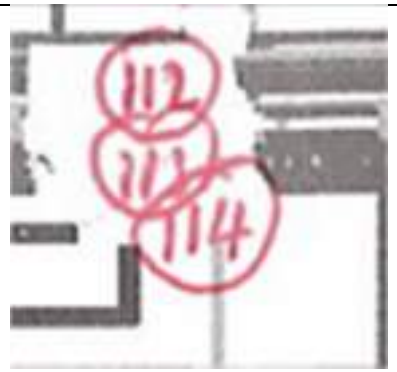
The Royal Exchange – Stone Repairs – Cross Street Elevation

403	Previous indent with open joints; carefully cut back and grout joints			3No.
404	Erosion to moulded plinth stop section; carefully cut back and restore using Stone Central stone restoration mortar			Front face
405	Spalling to moulding by joint; carefully cut back and restore using Stone Central stone restoration mortar			Approx 75mm x 100mm

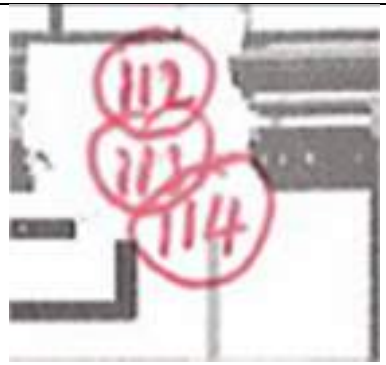
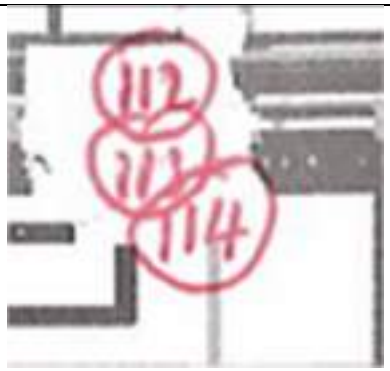
The Royal Exchange – Stone Repairs – Cross Street Elevation

406	Spalling to rusticated unit due to fixing; carefully cut back and indent a piece of new stone			Indent affected area approx. 500 x 100 x 350
407	Redundant metal fixings within reveal; remove redundant fixings and restore the holes using Stone Central stone restoration mortar			2 fixings to reveal

The Royal Exchange – Stone Repairs – Exchange Street Elevation

Ref	Item Description	Photo	Building Location	Comments
110	Redundant scaffold fixings from previous phase of works across various areas of the elevation; remove redundant fixings and restore the holes using Stone Central stone restoration mortar			Various redundant scaffold fixings across the full elevation – other fixings are covered in the general item
111	Erosion to moulded string below dentil course; indent moulded string detail section only			Erosion to cavetto moulded string section below dentils approx. 600mm long
112	Erosion to curved moulded string between modillions; indent moulded string detail section only			Curved moulded string approx.. 900mm x 150mm x 150mm

The Royal Exchange – Stone Repairs – Exchange Street Elevation

113	Erosion to curved dentil course including moulded string above; indent full unit with new stone to match the original			Curved dentil course with ovolo moulding above. 750mm x 150mm x 100mm
114a	Erosion to curved moulded string below dentil course; indent full unit with new stone to match the original			Curved moulded string approx. 750mm x 150mm x 100mm
114b	Damp area evident to internal corner; investigate to determine cause and report back to client of possible causes and solutions			Areas of darker stone indicating possible staining due to damp – staining to corner of cornice, dentil course and band course

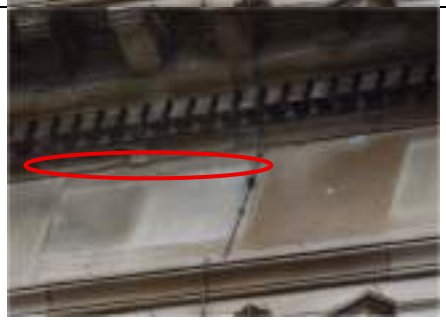
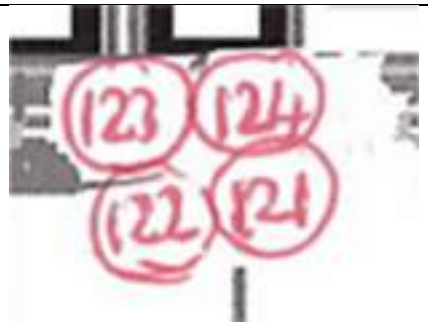
The Royal Exchange – Stone Repairs – Exchange Street Elevation

115a	Previous protective netting installed to cornice and decorative flower details to the soffit; remove netting and make good holes using Stone Central stone restoration mortar once the friable stone has been removed. Review the area once the loose and friable material has been removed to determine if any further works are required			All netting and fixing holes in this location to be removed and holes made good. Any additional works tbc following the scaffold inspection
115b	Spalling to lower drip detail of cornice units; carefully cut back and indent a piece of new stone to reform drip giving protection to the decorative flower soffit details			It can be seen that the lower drip detail to the cornice is missing / spalled through the netting. Allowance to indent this flat section max. 2000 x 75 x 100mm
116	Erosion to moulded string below dentil course; indent moulded string detail section only			Erosion / spalling to moulded string below the dentil course max. 1200 x 150 x 100mm

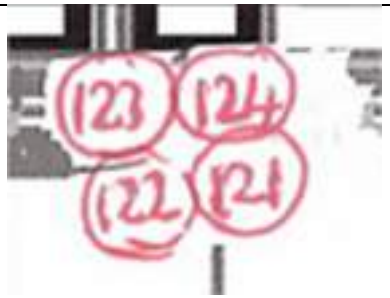
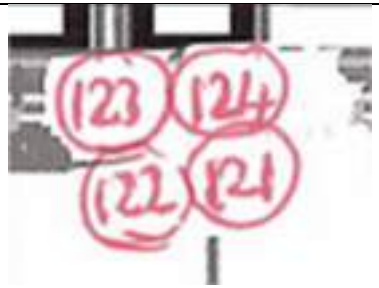
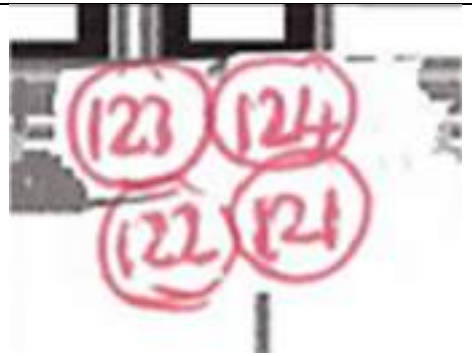
The Royal Exchange – Stone Repairs – Exchange Street Elevation

117	Poor repair and erosion to top right hand of pilaster; carefully cut back and indent a piece of new stone to reform the corner			Approx 1000 x 75 x 200
118	Cracking / spalling to the projecting string unit above the dentil course; carefully cut back and indent a piece of new stone			Approx 150 x 100 x 150
119	Open bed to unit; carefully open up and restore using Stone Central stone restoration mortar			Open bed running along lower part of flat section of stone

The Royal Exchange – Stone Repairs – Exchange Street Elevation

120	Erosion to lower drip detail of moulded string below dentil course; carefully cut back the affected area and restore using Stone Central stone restoration mortar			Lower section of cavetto moulded string unit eroded – unit behind lightning conductor
121	Erosion to moulded string below dentil course; indent moulded string detail section only			Indent unit to the left of the lightning conductor approx. 1500 x 150 x 150mm
122a	Erosion to ashlar panel below item above; carefully cut back and indent a piece of new stone			Indent the top of the ashlar unit to the left of the lightning conductor approx. 1500 x 50 x 100mm Below item 121

The Royal Exchange – Stone Repairs – Exchange Street Elevation

122b	Damp area evident; investigate to determine cause and report back to client of possible causes and solutions			Areas of darker stone indicating possible staining due to damp – staining to corner of cornice, dentil course and band course
123	Hole within modillion unit; restore the hole using Stone Central stone restoration mortar			Small hole to front face of modillion unit
124	Erosion to front moulding of modillion; carefully cut back the affected area and restore using Stone Central stone restoration mortar			Erosion to top of modillion below perp joint

The Royal Exchange – Stone Repairs – Exchange Street Elevation

125	Erosion to front moulding of modillion previously repaired with a concrete repair mortar; carefully cut back defective area and indent with new stone			Top LH corner of modillion unit below perp joint
126a	Copper staining to right hand side of window; clean the area using 2 applications of a poultice to draw out the oxidisation staining within the stone			Green staining to RHS of window
126b	Further applications if required - rate only			

The Royal Exchange – Stone Repairs – Exchange Street Elevation

127	Damp area evident to internal corner; investigate to determine cause and report back to client of possible causes and solutions			Areas of darker stone indicating possible staining due to damp – staining to dentil course, band course and internal corner ashlar panels
128	Redundant light fixing; remove redundant fixings and restore the holes using Stone Central stone restoration mortar			Redundant fixings behind light – up to 4No.
129	Open bed to unit; carefully open up and restore using Stone Central stone restoration mortar			Open bed to LHS of head – approx. 300mm

The Royal Exchange – Stone Repairs – Exchange Street Elevation

130	Damp area evident to internal corner; investigate to determine cause and report back to client of possible causes and solutions			Areas of darker stone indicating possible staining due to damp – staining to dentil course, band course and internal head and jambs
131	Erosion to front moulding of modillion; carefully cut back the affected area and restore using Stone Central stone restoration mortar			Erosion to top mould of 2No. modillion units
132	Large area of damp stonework indicating issues with the weathering to the cornice above; inspect and suggest ways to prevent the water from travelling down in to the stonework below			Areas of darker stone indicating possible staining due to damp – staining to cornice, dentil course, band course

The Royal Exchange – Stone Repairs – Exchange Street Elevation

133	Erosion to drip detail of cornice; carefully cut back defective area and indent with new stone			Indent corner of lower drip detail approx. 200 x 75 x 100mm
134	Large area of damp stonework indicating issues with the weathering to the cornice above; inspect and suggest ways to prevent the water from travelling down in to the stonework below			Areas of darker stone indicating possible staining due to damp – staining to cornice, dentil course, band course
135	Erosion to centre square section of round feature with small previous indents; carefully cut back defective area and indent with new stone			Indent square centre section of feature approx. 700 x 50 x 700mm

The Royal Exchange – Stone Repairs – Exchange Street Elevation

136a	Copper staining to left hand side of window; clean the area using 2 applications of a poultice to draw out the oxidisation staining within the stone			Green staining to LHS of window
136b	Further applications if required - rate only			
137	Damp area evident to internal corner; investigate to determine cause and report back to client of possible causes and solutions			Areas of darker stone indicating possible staining due to damp – staining to dentil course, band course and ashlar panels top internal corner

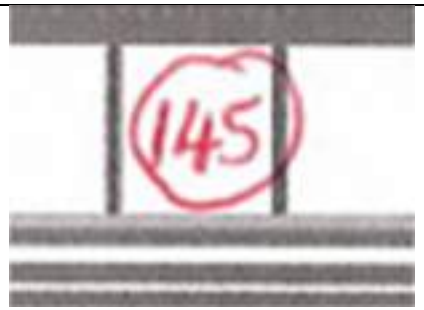
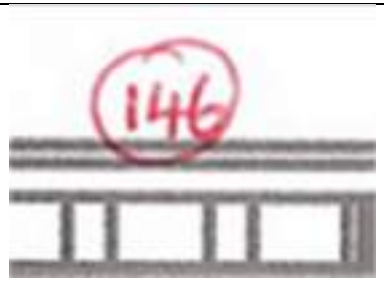
The Royal Exchange – Stone Repairs – Exchange Street Elevation

138	Redundant light fixing; remove redundant fixings and restore the holes using Stone Central stone restoration mortar			Redundant fixings behind light – up to 4No.
139	Poor repair and erosion to moulded string and band course to internal corner; carefully cut back and indent a piece of new stone to repair the eroded sections			Poor re[air to band course to internal corner behind the lightning conductor
140	Repair to modillion using a standard concrete repair mortar; carefully cut back and indent a piece of new stone to repair the eroded sections			Moulded section of modillion carried out using a standard concrete repair mortar – replace with a stone indent

The Royal Exchange – Stone Repairs – Exchange Street Elevation

141	Large area of damp stonework indicating issues with the weathering to the cornice above; inspect and suggest ways to prevent the water from travelling down in to the stonework below			Areas of darker stone indicating possible staining due to damp – staining to dentil course, band course and heads
142	Large area of damp stonework indicating issues with the weathering to the cornice above; inspect and suggest ways to prevent the water from travelling down in to the stonework below			Areas of darker stone indicating possible staining due to damp – staining to dentil course, band course and head and jambs
143	Erosion to small corner block of raised section; carefully cut back defective area and indent with new stone			Indent approx. 400 x 100 x 125mm

The Royal Exchange – Stone Repairs – Exchange Street Elevation

144	Erosion to ashlar blocks; carefully cut back defective area and indent with new stone			4No. ashlar blocks
145	Redundant light fixing; remove redundant fixings and restore the holes using Stone Central stone restoration mortar			Redundant fixings behind light – up to 4No.
146	Erosion to exposed soffit under roof covering; carefully cut back the affected area and restore using Stone Central stone restoration mortar			Spalling to exposed soffit below face of roof covering to dome – cut back where required and restore

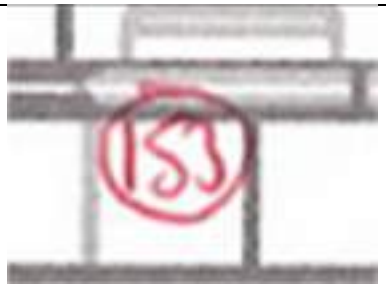
The Royal Exchange – Stone Repairs – Exchange Street Elevation

147	Erosion to moulded string below dentil course; carefully cut back defective area and indent with new stone			Cavetto moulded section approx. 400 x 150 x 100mm
148	Erosion to lower mould of pilaster; carefully cut back defective area and indent with new stone			Previous repair / joint between pilaster unit and base unit to indent Approx 1800mm x 50 x 75mm in 3 pieces
149	Void in weathering; carefully cut back defective area and indent with new stone			Gap formed for some reason. Indent and check why formed

The Royal Exchange – Stone Repairs – Exchange Street Elevation

150	Erosion to ashlar blocks; carefully cut back defective area and indent with new stone			6No. ashlar panels to indent
151	Erosion to modillions; carefully cut back defective area and indent with new stone			4No.
152	Possible movement in this location; review once scaffold access is available and seek advice from a Structural Engineer if required			Previous repairs and displaced masonry – SE to check and advise if any remedial works are required

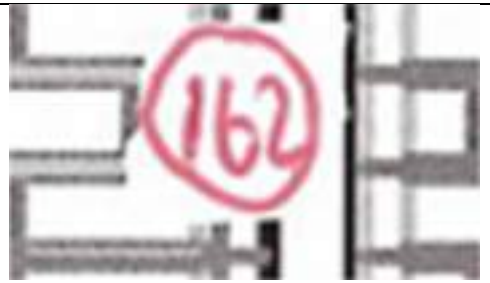
The Royal Exchange – Stone Repairs – Exchange Street Elevation

153	Large joint to base of pilaster possibly from previous flashing details; review once scaffold access is available			Review joint once access is available
154	Damp area evident above entrance; investigate to determine cause and report back to client of possible causes and solutions			Areas of darker stone indicating possible staining due to damp – staining to RHS of entrance stonework
155	Crack evident through recessed ashlar unit; stitch and pin across crack and carefully open up / restore using Stone Central stone restoration mortar			Approx 500mm long

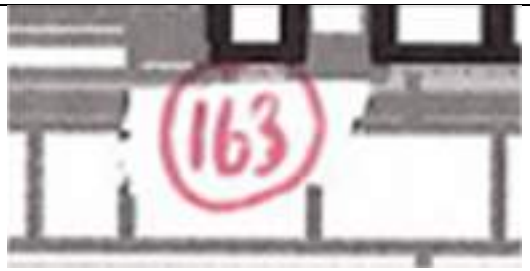
The Royal Exchange – Stone Repairs – Exchange Street Elevation

156	Damp area evident to lower area of recessed panels to shop front; investigate to determine cause and report back to client of possible causes and solutions			Areas of darker stone indicating possible staining due to damp
157	Damp area evident above entrance; investigate to determine cause and report back to client of possible causes and solutions			Areas of darker stone indicating possible staining due to damp
158	Poor repair and erosion to bottom right hand side of pilaster; carefully cut back and indent a piece of new stone			Approx 250 x 50 x 700mm

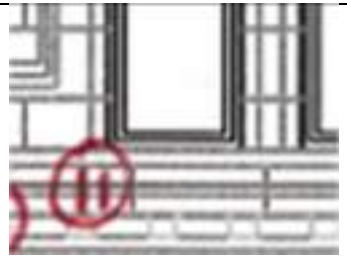
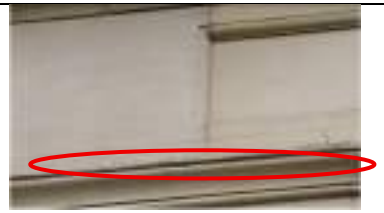
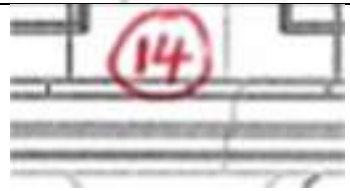
The Royal Exchange – Stone Repairs – Exchange Street Elevation

159	Open bed to unit; carefully open up and restore using Stone Central stone restoration mortar			Approx. 300mm
160	Cracking and failure of previous repair to lower cornice units; carefully cut back defective area and indent with new stone Current allowance for 1mlin - review other areas once clean			Previous repair to full face of cornice failing – cut back and indent new stone – allowance for 1mlin – area to be inspected once clean to determine if further works are required
161	Small spall by joint; carefully cut back and indent a piece of new stone			Approx 75 x 50 x 250mm
162a	Copper staining to left hand side of window; clean the area using 2 applications of a poultice to draw out the oxidisation staining within the stone			Green staining to LHS of window where lightning conductor has been

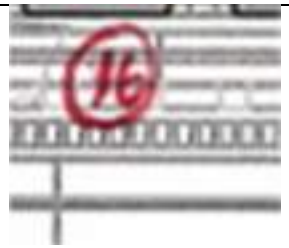
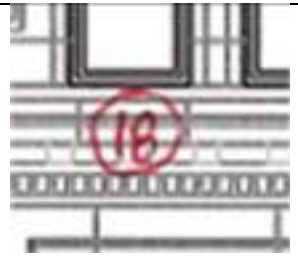
The Royal Exchange – Stone Repairs – Exchange Street Elevation

162b	Further applications if required - rate only			
163	Small spall by joint; carefully cut back and indent a piece of new stone			Approx 200 x 125 x 150
164	Spalled previous repair to corner unit; carefully cut back and indent a piece of new stone			Previous poor repair to bottom LH corner of plinth

The Royal Exchange – Stone Repairs – Market Street Elevation

Ref	Item Description	Photo	Building Location	Comments
11	Spalling to lower drip detail of cornice units; carefully cut back and indent a piece of new stone to reform drip giving protection to the decorative flower soffit details			It can be seen that the lower drip detail to the cornice is missing / spalled through the netting. Allowance to indent this flat section max. 2000 x 75 x 100mm
12	Previous protective netting installed to moulded string detail below modillions; remove netting and make good holes using Stone Central stone restoration mortar once the friable stone has been removed			All netting and fixing holes in this location to be removed and holes made good. Any additional works tbc following the scaffold inspection
14	Erosion to top of moulded string; carefully cut back and indent a piece of new stone to reform weathering and avoid the risk of water traps			Allowance to indent this flat section max. 1700 x 150 x 50mm
15	Previous poor mortar repairs; an example of what has been carried out across the elevation - all repairs to be checked if in good order and left in place if not causing any detriment to the surrounding stone			Previous grey concrete mortar type repairs to be checked if in good order once access is available

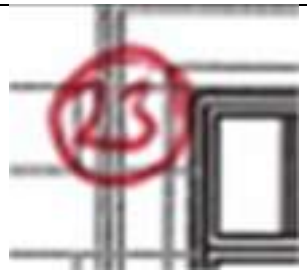
The Royal Exchange – Stone Repairs – Market Street Elevation

16	Open bed to corona; carefully open up and restore using Stone Central stone restoration mortar			Approx 350mm long
17	Erosion to all balusters across the elevation; review following removal of loose and friable material to determine if any further repairs are required			All balusters to be inspected following the descaling operation and scaffold access in place
18	Spalling to lower drip detail of cornice units; carefully cut back and indent a piece of new stone to reform drip giving protection to the decorative flower soffit details			It can be seen that the lower drip detail to the cornice is missing / spalled through the netting. Allowance to indent this flat section max. 700 x 75 x 100mm
19	Spalling to corner of top mould to modillion units repaired previously with mortar and now starting to fail; carefully cut back and indent using new stone worked to the original lines and profiles			Fop cavetto mould of modillion repaired using concrete repair mortar and now starting to fail. Indent area approx. 125 x 125 x 75mm

The Royal Exchange – Stone Repairs – Market Street Elevation

20	Previous poor mortar repairs; an example of what has been carried out across the elevation - all repairs to be checked if in good order and left in place if not causing any detriment to the surrounding stone			Previous grey concrete mortar type repairs to be checked if in good order once access is available
21	Erosion to moulded string below modillions; E/O cost to indent moulded string detail if required following the removal of the loose and friable material			Moulded string between modillions and dentils is showing signs of erosion. Indent if required approx. 1000 x 150 x 150mm
22a	Previous protective netting installed to cornice, modillions, string courses and dentil features; remove netting and make good holes using Stone Central stone restoration mortar once the friable stone has been removed. Review the area once the loose and friable material has been removed to determine if any further works are required			All netting and fixing holes in this location to be removed and holes made good. Any additional works tbc following the scaffold inspection

The Royal Exchange – Stone Repairs – Market Street Elevation

22b	E/O to indent with new stone following descale works due to installation of temp netting causing cracking to lower mould of dentil course			Section of moulded string approx. 700 x 150 x 150mm below dentils
23	Spall by joint to lower left hand side of head unit; leave as weathered or extra over to indent with new piece of stone			Small indent approx. 100 x 75 x 100mm
24	Previous poor repair within right hand moulded jamb unit; carefully remove old repair, cut back stone and restore using Stone Central stone restoration mortar			Approx 100 x 100mm

The Royal Exchange – Stone Repairs – Market Street Elevation

25	Previous protective netting installed to cornice, modillions, string courses and dentil features' remove netting and make good holes using Stone Central stone restoration mortar once the friable stone has been removed. Review the area once the loose and friable material has been removed to determine if any further works are required			All netting and fixing holes in this location to be removed and holes made good. Any additional works tbc following the scaffold inspection
26	Small fracture to cornice detail to internal corner; stitch and pin across crack and carefully open up / restore using Stone Central stone restoration mortar			Approx 150 x 50 x 50mm
27	Small redundant fixings evident from old fixture; remove redundant fixings and restore the holes using Stone Central stone restoration mortar			4 fixings plus 4 small holes to restore

The Royal Exchange – Stone Repairs – Market Street Elevation

28	Erosion to leading edge of cornice; cut back and restore using a stone restoration mortar to redefine the lines			Approx 3000mm curved leading edge
29	Erosion to decorative detail likely to have happened prior to the indent was fixed in place above; cut back and restore using a stone restoration mortar to redefine the lines and features			Top LH corner of flower detail where lighter in colour
30	Open bed to unit; carefully open up and restore using Stone Central stone restoration mortar			Approx 700mm to roll mould

The Royal Exchange – Stone Repairs – Market Street Elevation

31	Crack evident through moulded string below modillions; stitch and pin across crack and carefully open up / restore using Stone Central stone restoration mortar			Approx 200mm
32	Spalling to ashlar unit; carefully cut back and indent using new stone worked to the original lines and profiles			Approx 300 x 50 x 400mm to reveal
33	Spalling to curved ashlar unit; carefully cut back and indent using new stone worked to the original lines and profiles			Approx 800 x 100 x 300

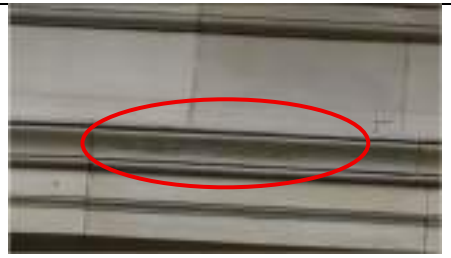
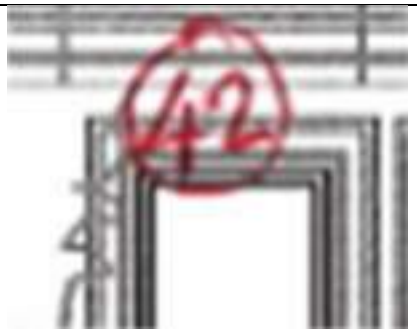
The Royal Exchange – Stone Repairs – Market Street Elevation

34	Spalling to curved ashlar unit; carefully cut back and indent using new stone worked to the original lines and profiles			2 No. Approx 8000 x 100 x 300
35	Previous poor mortar repairs to ashlar unit to internal corner; carefully cut back old mortar repair and indent with new stone			3No. approx. (150 x 50 x 150) (300 x 50 x 500) (150 x 50 x 150)
36	Loss of stone to leading edge of cornice to tower; covered by lead so leave for now but inspect once access is in place			Inspect once access is available – can leave if lead protects the area

The Royal Exchange – Stone Repairs – Market Street Elevation

37	Erosion to front moulding of modillion; carefully cut back defective area and indent with new stone			Moulding to modillion to indent – approx. 400 x 150 x 75mm
38	Large area of damp stonework indicating issues with the weathering to the cornice above; inspect and suggest ways to prevent the water from travelling down in to the stonework below			Areas of darker stone indicating possible staining due to damp – staining to cornice, dentil course and decorative band course
39	Open bed / fracture to top of window head unit; stitch and pin across crack and carefully open up / restore using Stone Central stone restoration mortar			Approx 200mm
40a	Open bed / fracture forming to moulded band course unit; stitch and pin across crack and carefully open up / restore using Stone Central stone restoration mortar			Approx 800mm long

The Royal Exchange – Stone Repairs – Market Street Elevation

40b	Extra over cost to indent with new stone if required			Approx 800 x 150 x 150mm
41	Previous crack repair to soffit; allow to stitch and pin and restore crack and check for any further movement			Approx 500mm long
42	Window head has a fracture to the left hand side; stitch and pin across crack and carefully open up / restore using Stone Central stone restoration mortar			Approx 400mm long

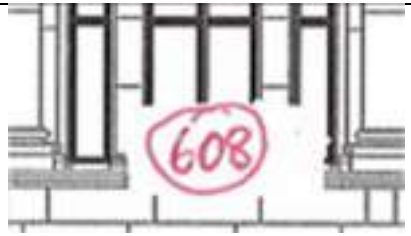
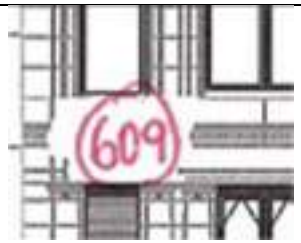
The Royal Exchange – Stone Repairs – Market Street Elevation

43	Erosion to moulded pilaster bases; review once the loose and friable material has been removed to see if any further repairs are required			Review area once descaled
44	Open bed to unit; carefully open up and restore using Stone Central stone restoration mortar			Approx 500mm long
45a	Previous fixings behind the Astrid & Miyu sign; carefully core out embedded fixing and restore hole afterwards using stone restoration mortar	 		Numerous fixings to ashlar fascia units

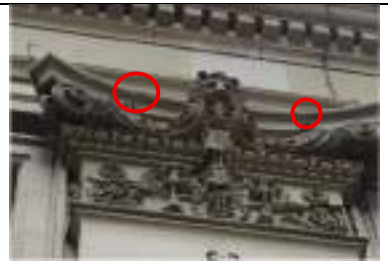
The Royal Exchange – Stone Repairs – Market Street Elevation

46	Erosion to lower edge of pilaster frieze unit ; carefully cut back defective area and indent with new stone			Approx 2000 x 75 x 100
47	Small fracture to cill unit; stitch and pin across crack and carefully open up / restore using Stone Central stone restoration mortar			Approx 500mm long

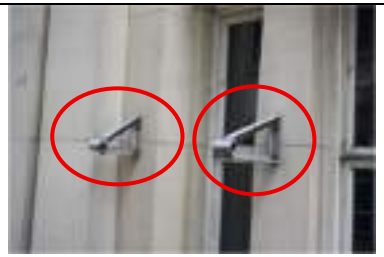
The Royal Exchange – Stone Repairs – Old Bank Street Elevation

Ref	Item Description	Photo	Building Location	Comments
608	Redundant scaffold fixings from previous phase of works across various areas of the elevation; remove redundant fixings and restore the holes using Stone Central stone restoration mortar			Various redundant scaffold fixings across the full elevation – other fixings are covered in the general item
609	Erosion to internal corner of string detail; carefully cut back and restore using Stone Central stone restoration mortar			Indent full section where erosion has occurred approx. 100mm wide
610	Previous indent with open joints; carefully cut back and grout joints			Grout joints around previous indent to lower edge of cornice detail
611	Open bed within keystone unit; carefully open up and restore using Stone Central stone restoration mortar			Approx 200mm long

The Royal Exchange – Stone Repairs – Old Bank Street Elevation

612	Crack / spall to reveal unit; carefully open up and restore using Stone Central stone restoration mortar			Approx 500mm long
613	Spalling to decorative capital unit; carefully cut back and restore using Stone Central stone restoration mortar			Restore small section
614	Loose corner to decorative capital; allow to pin and restore but request a structural engineer review the cause			Section of masonry has moved to right hand side of capital
615	Spalling to decorative capital unit; carefully cut back and restore using Stone Central stone restoration mortar			2 small areas by the top joints

The Royal Exchange – Stone Repairs – Old Bank Street Elevation

616	Erosion to internal corner of string detail; carefully cut back and restore using Stone Central stone restoration mortar			Indent full section where erosion has occurred approx. 100mm wide
617a	Redundant brackets fixed to the elevation; remove redundant brackets complete with fixings and restore the holes using Stone Central stone restoration mortar			
617b	Redundant brackets fixed to the elevation; remove redundant brackets complete with fixings and restore the holes using Stone Central stone restoration mortar			