

Plinth with lead covering and flashings

New code 6 lead flashing incorporated with new plinth top flashing fixed to bottom of statue plinth to extend a minimum of 200mm up the roof slope above the top of the new bracket capping and 200mm each side

Plinth with lead covering and flashings

New code 8 flashing/ capping over new stainless steel fixing brackets

New code 8 lead plinth capping welded to the bottom of the existing lead statue plinth

20 x 20 x 2mm stainless steel square hollow section

New core for lead lion to be formed from a combination of timber sections and Repair Care 4 epoxy resin adhesive/ filler. The new timber core is to be divided into sections that are small enough to be fitted into the lion through the opening in the base

New stainless steel bracket to Ramboll detail

Plinth with lead covering and flashings

New code 6 lead flashing incorporated into new lead covering to plinth to extend minimum 200mm above plinth junction with roof hip and 200mm each side

New code 6 lead flashing incorporated into new lead to overlap flashings below minimum 75mm

Existing iron bar to be removed from plinth, decayed timber to be removed from the existing hole. New 16 x 16mm stainless steel rod to be fixed in plinth with epoxy resin adhesive/ filler

Timber core to plinth

Repairs to plinth and replacement of mouldings to be confirmed following removal of lead coverings

25 x 25mm square timber peg locating bottom of plinth into recess formed at hip is to be retained

Proposed repairs to lions

Before packing and removal from site the statues are to be carefully inspected and photographed to record the existing condition and any existing damage.

Each statue is to be tagged and referenced with its location on the tower (NW, NE, SE and SW)

The statues are to be packed into purpose made protective boxes before they are removed from the scaffolding. Following packing and protection, the statues are to be carefully removed from the scaffolding and transported to a workshop for repairs to be carried out.

Following arrival at the workshop samples of the black staining to the statues are to be carefully removed for analysis. Analysis of the samples of black deposits should determine their chemical composition and include proposals for removal of the deposits from the statues.

Before further work is carried out the statues should be wrapped in suitable protection to allow the work described below to be carried out without causing damage.

All decayed timber should be carefully removed from inside each statue. It appears likely that a large proportion of the timber core is decayed. Following removal of decayed timber the contractor should confirm the extent of the timber core that remains in each lion.

A new solid core is to be formed in the lead statue using a combination of softwood reclaimed from the building and Repair Care 4 epoxy resin. If a large proportion of the timber remains sound towards the outside of the statue, a new timber core should be fitted. If most or all of the timber is decayed, a complete new core should be inserted. It is envisaged that new timber sections will be formed either by hand carving pieces to match the shape of the lion or CNC carving a complete new core based on a scan of one of the lions and then cutting the carved core into pieces that can be fitted into the hollow lead statue. Epoxy resin filler should be used to fill in gaps between the lead, new sections of timber and individual pieces of timber, with the aim of maximising the proportion of timber to epoxy resin.

A new 900mm long 20 x 20 x 2mm square hollow section tube is to be fitted in the middle of the lion in the location where the iron rod was originally fitted.

Following repairs the statue is to be carefully cleaned to remove the black staining and deposits based on recommendations from the analysis of the deposits.

Following repair and cleaning the statue is to be returned to site to allow a new lead base and flashings to be fitted to the bottom of the statue.

Proposed repairs to plinths

It appears that the timber core of the lead covered plinths is in reasonable condition and it is envisaged that the majority of the plinth can be retained with damaged or decayed sections of timber and attached mouldings replaced with new sections manufactured from timber reclaimed from the building and fixed with Repair Care 4 epoxy adhesive/ filler.

Before removal from site the existing lead covering should be carefully removed to allow the condition of the timber core to be reviewed and the extent of repairs required to be confirmed.

Following the site survey the plinths should be protected and removed from site to the workshop for repair.

Following repair a new 1500mm long 16 x 16 square section stainless steel rod is to be fitted in the middle of the plinth with 600mm of the rod embedded in the plinth and 900mm protruding from the top.

A new stainless steel bracket in accordance with Ramboll's details is to be fitted into a recess formed in the top face of the plinth.

Following repair the timber core is to be returned to site to be re-covered in lead.

Scale Bars to be used as guidance only - refer to sheet size below

1:100	mm	1000	3000	5000	7000	
1:200	mm	5000	8000	12000	16000	
1:500	M	5	15	25	35	
1:1250	M	10	30	50	70	90

Notes:

Drawings are based on survey data and may not accurately represent what is physically present.

Do not scale from this drawing. All dimensions are to be verified on site before proceeding with the work.

All dimensions are in millimeters unless noted otherwise.

Purcell shall be notified in writing of any discrepancies.

-	22/08/2023	GR	TK	First issue
ISSUE	DATE	APPROVED	DRAWN	DESCRIPTION



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CLIENT Manchester City Council

PROJECT Our Town Hall

DRAWING TITLE Princess Street Tower
Proposed repairs to lions
and plinths

SIZE & SCALE

DRAWING STATUS S4 Construction

JOB NUMBER 236959

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