

### D3.1.6 PARTICULAR SPECIFICATION FOR THE MOLLY MALONE STATUE

To be read in conjunction with drawings the General Specification of Materials and Workmanship for Stone and Bronze Structures, specifications provided in Part D3 of the Works Requirements.

#### 1.11 INTRODUCTION

This particular specification sets out the works scheduled to the Molly Malone Statue during the Contract. The statue is situated on the west side of Grafton Street close to the junction with Nassau Street.

#### 1.12 DESCRIPTION OF HERITAGE ITEM

The Molly Malone Statue was erected in 1988. The sculptor was by Jeanne Rynhart and the bronze figure itself was cast in the Dublin Art Foundry.


The structure comprises of a life-size figure of Molly Malone together with her barrow carrying baskets of cockles, mussels and fish. The figure is set on a low masonry plinth faced with granite cladding.

#### 1.14 OUTLINE SCOPE OF WORK

Phase 1 – The heritage item including the bronze figure and granite plinth shall be carefully dismantled, recorded and laid on palettes for transportation to the Heritage Contractor’s Storage Facility. Prior to its removal, an initial clean shall be carried out to remove bird droppings, chewing gum, grease stains etc. if necessary.

Phase 2 – All disassembled stone and metal elements shall be the subject of a joint inspection with the Employer’s Representative at the Heritage Contractor’s Storage Facility prior to being stored and retrieved when required for reinstatement.

Phase 3 – On completion of associated infrastructural works by the Main Contractor and following Phase 2 to Phase 3 handover, the structure shall be the subject of a joint inspection with the Employer’s Representative at the Heritage Contractor’s Storage Facility prior to being protected as necessary, loaded, transported from the Heritage Contractor’s storage facility and re-erected on a new site at the junction of Suffolk Street and St. Andrews Street.


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## 1.15 DETAILED SCOPE OF WORK


The Heritage Contractor shall carry out the following works and tasks as part of the proposed works to the Molly Malone Statue, to be read in conjunction with the specification of materials and workmanship:

### Phase 1

1. carry out a pre-works inspection of the subject structure including:
  - a. specialist inspection of bronze-work to the figure
  - b. ultra-sonic scan of the figure to determine location of armatures and any zones of weakness
  - c. a condition survey of the subject structure
  - d. records of the characteristics of the masonry and defects noted during the inspection
2. prepare a Detailed Works Activities Method Statement (DWAMS) for Phases 1 of the Works and submit to the Employer's Representative
3. seek and obtain acceptance of the revised DWAMS from the Employer's Representative prior to commencing works
4. seek and obtain all appropriate licenses and approvals from Dublin City Council and Utility Owners as appropriate and in a timely manner
5. confirm condition of the Heritage Item has not altered since the pre-works inspection
6. carry out any necessary investigations to determine ground conditions and determine the status of existing and unknown utilities
7. erect and maintain 3m high self supporting solid wooden hoarding along the perimeter of the work site and in accordance with the drawing provided in Part D2 of the Works Requirements, including 1 number double vehicle access gate and 1 number pedestrian access gate
8. produce and install branding material on the solid wooden hoarding as stated in Part D1.1 of the Works Requirements
9. erect and maintain scaffolding, temporary supports and protection as necessary
10. carry out an initial clean to remove bird droppings, chewing gum, grease stains etc. from the bronze and stonework in advance of removal of the Heritage Item
11. loosening all fixings between the figure and plinth
12. carefully hoist the figure onto a vehicle for transportation to Heritage Contractor's Storage Facility
13. provide samples of raking out for acceptance by Employer's Representative - location to be agreed on site
14. carefully rake out the mortar joints between individual stones to the stone clad pedestal, provide temporary supports and once each stone is released sufficiently, lift free each stone as per DWAMS
15. record the nature of all bolts, cramps and dowels and set aside same for possible reuse

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16. carefully remove all identified fixings and packing around fixings to enable masonry units to sit entirely flat when placed in storage
17. set all masonry units on pallets and give each unit a unique identification reference code in accordance with codes noted on condition drawings, providing additional reference codes where necessary
18. demolish concrete/other core to plinth and excavate foundations and footings beneath structure in accordance with archaeological requirements as set out in Part D1.1 of the Works Requirements
19. remove scaffolding, temporary supports and protection
20. reinstate temporary paving surfaces as Clause 1.50 in General Specification of Materials and Workmanship for Stone and Bronze Structures
21. remove and dispose of solid wooden hoarding and branding material
22. pack, transport and deliver all items to the Heritage Contractor's dedicated storage facility
23. prepare conservation report and submit to the Employer's Representative as stated in the General Specification of Materials and Workmanship for Stone and Bronze Structures


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## Phase 2


24. revise DWAMS as appropriate to take account of matters arising in Phase 1 and submit to Employer's Representative for review
25. unwrap and lay out all items delivered for storage in an orderly fashion as per the DWAMS and remove all packing and protection. The items shall be laid out in such a manner as to allow easy access and inspection of all items individually by the Heritage Contractor and the Employer's Representative
26. all items shall be rewrapped and stored in accordance with the storage requirements (Part D3.4 of these Works Requirements)
27. prepare reports on stored materials as required during Phase 2 and submit to the Employer's Representative

## Phase 3


28. revise DWAMS as appropriate to take account of matters arising in Phases 1 & 2 and issue to Employer's Representative for review
29. implement all works site requirements in accordance with specification of materials and workmanship
30. unwrap and lay out all items to be removed from storage in an orderly fashion as per the DWAMS and remove all packing and protection. The items shall be laid out in such a manner as to allow easy access and inspection of all items individually by the Heritage Contractor and the Employer's Representative
31. put in place all necessary protection for loading and transportation of all elements of the heritage item to site for re-erection
32. the structure shall be re-erected on a new site within the pedestrian plaza of the junction between Suffolk Street and St. Andrew's Street, the exact location of which is to be agreed not less than thirty (30) working days prior to carrying out any works. The final location for reinstatement shall require acceptance by various stakeholders through the Employer's Representative
33. the Heritage Contractor shall liaise closely and co-ordinate all activities through the Employer's Representative with other contractors in advance of reinstatement works in a timely manner
34. seek and obtain all appropriate licenses and approvals from Dublin City Council and Utility Owners as appropriate and in a timely manner
35. carry out any necessary investigations to determine ground conditions and determine the status of existing and unknown utilities
36. erect and maintain 3m high self supporting solid wooden hoarding along the perimeter of the work site and in accordance with the drawing provided in Part D2 of the Works Requirements, including 1 number double vehicle access gate and 1 number pedestrian access gate
37. produce and install branding material on the solid wooden hoarding as stated in Part D1.1 of the Works Requirements

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38. remove temporary surface and dispose of waste materials. Prepare and form all new foundation details as per structural specifications and details and in accordance with archaeological requirements as set out in Part D3 of these Works Requirements
39. construct concrete plinth as per structural specifications and details, incorporating fixings for bronze figure to match original arrangement
40. erect and maintain scaffolding, temporary supports and protection as necessary
41. transport all stored materials to works site in a timely and orderly fashion to enable the efficient reinstatement of the heritage item in line with the accepted DWAMS
42. reconstruct the structure in a methodical fashion, reinstating all fixings, stones and figure as per the original arrangement unless otherwise agreed with the Employer's Representative and in accordance with the General Specification of Materials and Workmanship for Stone and Bronze Structures
43. provide all required samples of lime, aggregates, and repointing samples for acceptance by Employer's Representative
44. carefully cut out cement mortar repair to SW corner of base of plinth
45. replace damaged stones 12 and 21 with new granite slabs. New granite to carefully match existing granite in terms of colour, grain, texture, inclusions etc.
46. carefully clad concrete pedestal base with the original granite using a mortar mix of 1 part 5NHL to 2.5 parts agreed aggregate, and additional mechanical fixings in austenitic stainless steel/silicon aluminium bronze/phosphor bronze of copper to be indicated in DWAMS and agreed with Employer's Representative
47. following completion of reinstatement and inspection of the rebbeded masonry by the Heritage Contractor should he deem it necessary and following consultation with the Employer's Representative, he shall carefully rake out mortar joints and re-point with a mortar mix of 1 part 3.5NHL to 2.5 parts aggregate
48. provide all necessary protection to bedding and pointing mortars during items reinstatement and repointing operations
49. prepare samples of bronze cleaning for acceptance by Employer's Representative – location to be agreed on site
50. carefully clean bronze figure and plaques
51. carefully prepare and fill 2 no. holes in figure at hand and hem of skirt
52. apply protective micro-crystalline wax coatings to bronze figure
53. prepare samples of stone cleaning to granite for acceptance by Employer's Representative – location to be agreed on site
54. carefully clean all granite to plinth to structure
55. apply anti-graffiti coatings to plinth to structure
56. make good and reinstate all junctions with adjacent materials and surfaces to pre-works condition
57. remove and dispose of solid wooden hoarding and branding material

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58. prepare record of all works and submit to the Employer's Representative as stated in the General Specification of Materials and Workmanship for Stone and Bronze Structures

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