

Appendix 10B

Pre and Post Construction Report on the Condition of Martello Tower

Wm.Moyles & Assoc.

Consulting Engineers.

**3 Canal Place,
The Basin,
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Tel 0868197190

VAT Reg No:IE6383757E

09/05/2025

Martello Tower,

Ros an Mhil,

Chontae na Gallaimhe

Re: Post Works Structural Report.

Name of client: Dept of Agriculture, Food and the Marine,

Address of client Reen Point, Blennerville, Tralee, Co.Kerry.

Date of inspection 25th Oct 2024 .

Address of structure Ros an Mhil, Chontae na Gaillimhe

Background

- In January 2023, having been instructed by the Dept. of Agriculture, Food and the Marine, the writer carried out a structural inspection of the Martello Tower at Ros An Mhil.
- This inspection was carried out prior to the commencement of works on the site of the Proposed Deep Water Quay, Ros An Mhil.
- The inspection was carried out on the 25th Jan 2023, with a view to determining the condition of the structure at that time.
- Following this initial inspection, the writer prepared a report which is contained in Appendix X of this report.
- The works on the proposed Ros An Mhil DWQ were commenced at the end of January 2023.
- An Extension of Duration of Planning was granted by Galway County Council but was subsequently quashed by the High Court at which time the works were suspended.
- Following the suspension of works at Ros An Mhil, the writer carried out a follow up structural inspection of the Martello Tower.
- The purpose of this follow up structural inspection was to determine if there had been any deterioration, in the structure of the Martello Tower, due to the works which had been carried out at the site of the Proposed Deep Water Quay since the time of the writer's original inspection.
- The works carried out in the intervening time between both inspections, mainly consisted of:
 - Extending the shoreline towards the navigation channel using material imported from local quarries
 - Blasting of the rock beneath the proposed quay wall, berthing pocket and one area of the channel.
 - Dredging much of the blasted material.
- The Martello Tower is located on the sea shore 1000m to the south of the DWQ site.
- The blasting carried out consisted of approximately 20 no. groups of blasts of varying sizes, involving a total of approximately 1600 drill holes. At each group of drill holes, the blasts were designed such that there was a slight time lag between the explosions at each of the drill holes.

Findings

The writer noted at the time of his second inspection that there had been no change to the structure either on the interior surfaces or the exterior surfaces.

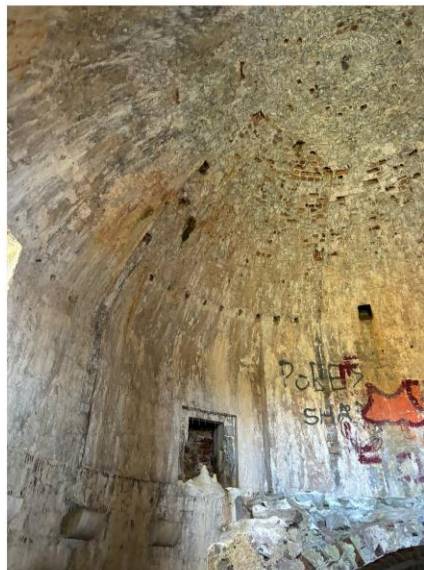
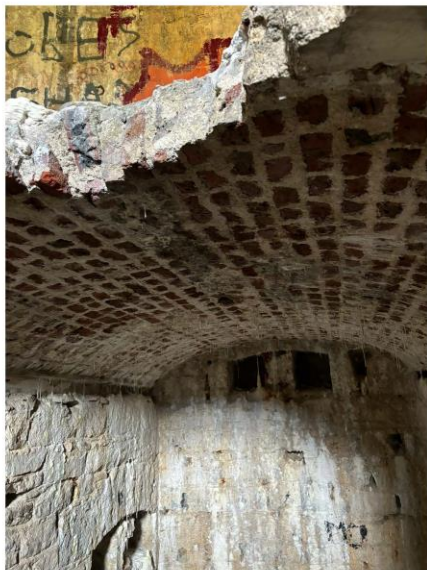
Conclusion:

The very robust and circular nature of the Martello Tower combined with few openings, the use of soft mortar in the random rubble parts of the walls and the dry ashlar facing made it most unlikely that any damage would occur to the structure. Also, the very considerable distance of 1km from the works site to the tower greatly reduced the risk of any damage occurring to the tower as a result of blasting or other construction works at the DWQ site.

From the visual inspections which he undertook, the writer concluded that the works carried out to date at the DWQ site, including the blasting, did not have any negative impact on the Martello Tower and did not cause any structural or superficial damage to the tower.

Images taken on the 25th Oct 2024.

OCTOBER 2024



OCTOBER 2024



William Moyles B.E.

Billy Moyles

Appendix X

Pre commencement report

25th Jan 2023.

Wm.Moyles & Assoc.

Consulting Engineers.

**3 Canal Place,
The Basin,
Tralee,
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Tel 0868197190

VAT Reg No:IE6383757E

25/01/2023

Re: **Pre commencement Structural Report on
Martello Tower,.**

Name of client: Dept of Agriculture, Food and the Marine,
Address of client Reen Point, Blennerville, Tralee, Co.Kerry.
Date: 25th Jan 2023.
Address of structure Ros an Mhil, Chontae na Gallimhe

Description

The Martello Tower, which is approx. 200 years old, is circular on plan and has its walls splayed outwards at the lower level. The tower has an external diameter of 13m at its base.

The external façade of the building consists of blocks of limestone. Each block is shaped to fit both the horizontal and vertical curvatures of the structure. The limestone blocks are laid in rows with a total of 27 rows from base to top of parapet. The blocks of limestone vary in size and measure between 600mm to 1200mm long by 450mm high.

Access to the structure is circa 3.6 m above the external ground level. There are two other opes on the tower façade. The roof is fully intact and consists of a masonry domed structure.

The external walls of the tower are in the region of 2.1m thick at 3.6m above ground level at the access ope. The walls consist of random rubble masonry with the ashlar limestone external finish as detailed above. There is a partially collapsed structure within the tower. This was most likely used as a powder storage room. Its walls are in the region of 700mm thick and its roof is 300mm thick.

Condition:

Generally, the external walls and roof structure are in very good condition, apart from sections of the parapet above roof level which appear to have been intentionally damaged by removal of some stones. Also, parts of the roof and walls of an internal structure, which was most likely the powder room, are damaged. Some large carved limestone blocks are present on the ground directly beneath the damaged areas of the parapet. This is surprising as it would require considerable effort to dislodge these larger stones from the parapet.

Conclusion

The very robust nature of the Martello Tower combined with the dry ashlar facing and its position remote from the proposed construction works make it unlikely that any damage should occur to its structure during the course of construction of the works. Nevertheless, it is recommended that during the course of construction which will involve blasting works, vibration monitoring of the Martello Tower should take place on a continuous basis over the period of construction works.

Images of Martello Tower in Appendix C

William Moyles BE

A handwritten signature in blue ink that reads "Billy Moyles". The signature is written in a cursive style with a large, stylized 'B' and 'M'.

Appendix C

Images of Martello Tower





