



**Politecnico
di Torino**

Honors Thesis

Master in Architecture Heritage Preservation and Enhancement

Abstract

THE VALUE OF KNOWLEDGE.

**The “Manica del Mosca” in the Turin Cavallerizza:
history of construction and definition of guidelines for adaptive reuse.**

Tutor/Correlator

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Candidate

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The research work aims to identify the architectural identity of the so-called 'Manica del Mosca', belonging to the Cavallerizza Reale complex in Turin, in order to ensure its preservation and enhancement in view of eventual interventions.

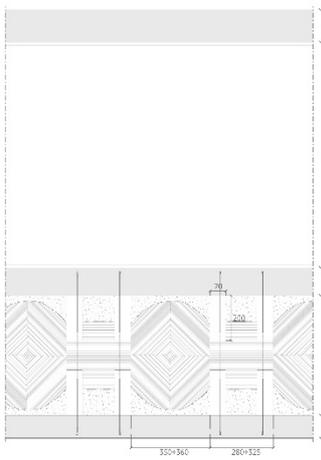
The protagonist of this thesis is a building originally conceived as a stable belonging to the Savoy court, whose functional vocation became obsolete at the beginning of the last century and has undergone successive transformations. The property's troubled history is punctuated by episodes of abandonment and misuse, but at the same time of rediscovery and re-appropriation.

Currently, the situation in which the complex finds itself is delicate and in flux, its future yet to be written. To allow this to happen in an appropriate manner, it was deemed appropriate to get to know the asset to detect its architectural identity and ensure its preservation and valorisation.

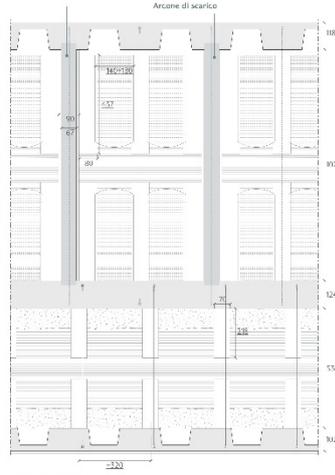
In order to pursue this objective, the work was divided into three phases: the first focused on knowledge of the asset, the second on the interpretation of the data, and the third on the definition of design guidelines with regard to distributional adaptation.

The first phase, relating to the knowledge of the building, constitutes the main body of the thesis and includes research on several levels: on a historical, typological and construction level. The historical investigation includes an in-depth study of the Savoy historical context and continues with the definition of the designer's profile, in order to guarantee total immersion in the dynamics of the period and to favour understanding of certain design choices. The typological investigation consists in studying the role of the horse at court and, in architectural terms, in researching the minimum requirements valid at the time for the design of stables, through the reading of treatises. To conclude, thanks to the on-site inspections, it was possible to carry out a geometric check and an in-depth construction analysis of the property, with the fundamental support of the historical document containing building specifications and the research work of Kateryna Babenko. In fact, the contribution of this research adds to and completes a path that originated with the thesis of my colleague, *Conoscere per conservare. Implicazioni progettuali della lettura costruttiva dell'architettura storica: la manica del Mosca nella Cavallerizza Reale di Torino*.

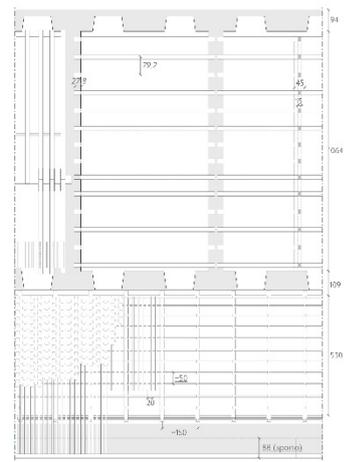
RILIEVO COSTRUTTIVO (1:100)



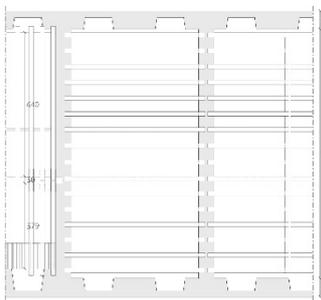
Pianta piano ammezzato



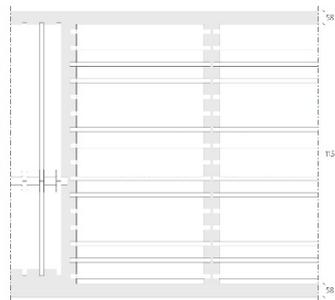
Pianta piano primo



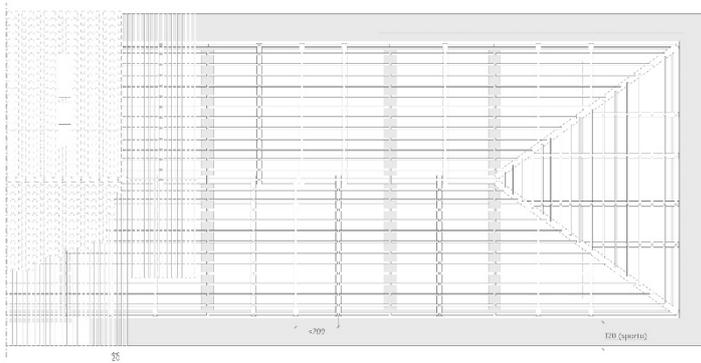
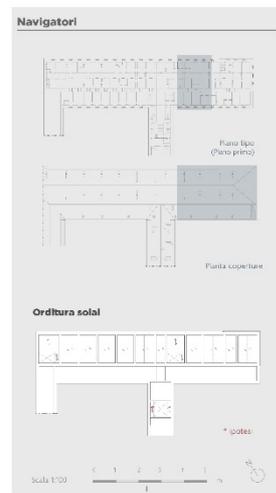
Pianta piano secondo



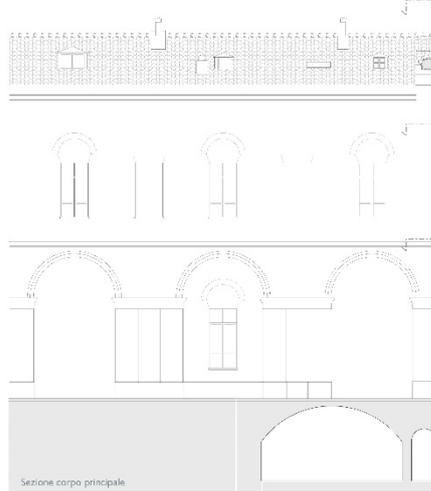
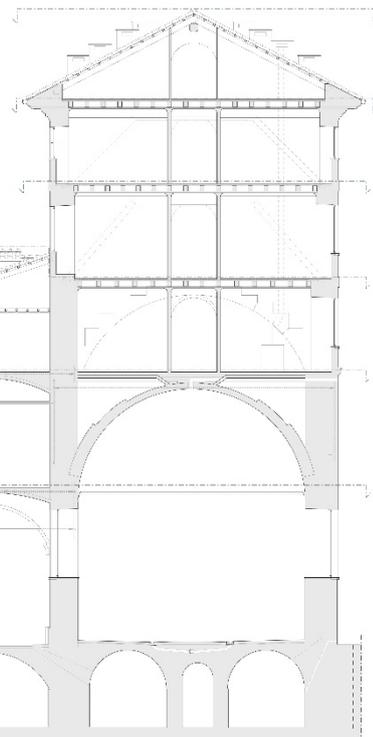
Pianta piano terzo



Pianta piano sottotetto

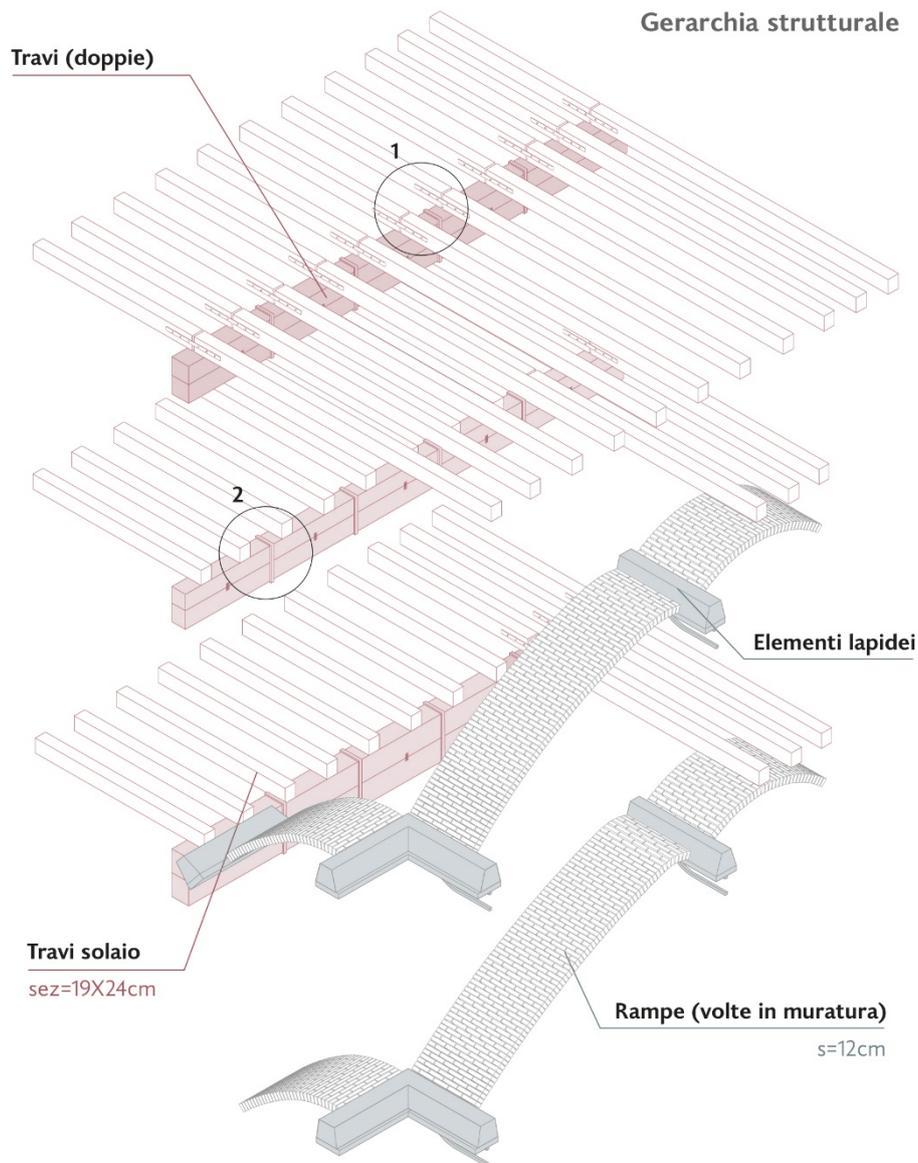


Pianta coperture



- Piano coperture
+ 28.21m
- Piano sottotetto
+ 24.21m
- Piano terzo
+ 20.48m
- Piano secondo
+ 16.25m
- Piano primo
+ 12.12m
- Piano ammezzato
+ 7.00m
- Piano terra
+ 0.00m

Sezione corpo principale



- Elementi lapidei incastrati nella muratura:** funzione di sostegno delle rampe.
- Travi (doppie):** in appoggio sui muri trasversali dell'edificio, hanno la funzione di sostegno per le travi del solaio (e quindi reggono solai e pianerottoli).

OSSERVAZIONE 1: L'idea che vi siano delle piastre metalliche che fungono da connessione tra le travi deriva dalla lettura del Capitolato e non dall'osservazione diretta. Non vi sono indicazioni specifiche riguardanti il caso in questione, ma la soluzione è stata ipotizzata per analogia, in quanto nei suoi scritti il Mosca prevede questo tipo di soluzione per l'edificio delle pagliere.

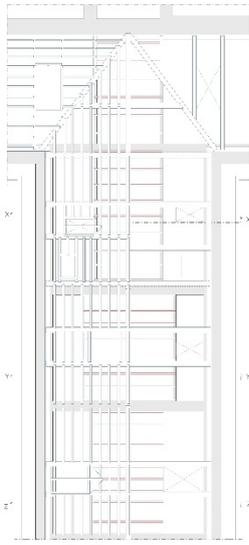
OSSERVAZIONE 2: Poichè lo spazio compreso tra la trave principale e l'appoggio della trave secondaria è molto ampio (nel caso della trave posta tra primo e secondo piano raggiunge una misura di 70cm), l'ipotesi è che in questo spazio siano sovrapposte due travi unite tra loro mediante fascette metalliche e biette in legno che impediscono lo scorrimento.

COPERTURA CORPO SECONDARIO

Il sistema di copertura e di controsoffittatura

Assonometria

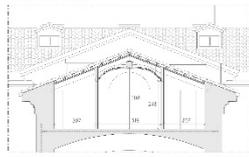
Pianta



Pianta e la controsoffittatura e della copertura

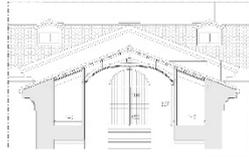
Sezioni

Controsoffitto e tipo 1



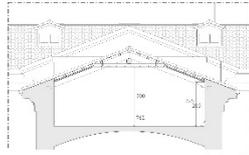
Sezione XX'

Controsoffitto e tipo 2



Sezione YY'

Controsoffitto e tipo 3



Sezione ZZ'

Scala: 1/20

