

創建当初の南口ドーム内部 『紀念写真帖 大正三年一二月』1914年(大正3)

Inside the dome of the South Entrance just after its completion norative Photo Album: December 1914"



丸の内南ロドーム見上げ部分の 竣工写真

Perspective view of the completed dome ceiling at the Marunouchi South Entrance



丸の内南口ドーム竣工写真

Perspective view of the structure below completed dome ceiling at the Marunouchi South Entrance



engannannannan i mutunannannannannan

新設地下躯体

Newly constructed underground framework

創建時の正面写真

Front photo from just after of foundation



●免震装置 Seismic base isolation system



免震装置 Seismic isolator

復原後の立面図及び工事概要

.....,

復原部分(3階·屋根) Restored portion

(floor three and roof)

保存部分(1階·2階)

Preserved portion (floors one and two)

新設部分(地下1階·2階)

Newly constructed portion

pasement floors one and two

Post-restoration elevation view and construction overview

総武地下躯体(既存)

Sobu underground framework

Preservation and Restoration work down the authentic heritage to future generations

hand

東京駅丸の内駅舎保存・復原工事の最大の特徴は、 復元ではなく、復原であること。創建当時の姿に戻す ために、当時の材料や工法を駆使しています。たとえば、 丸の内駅舎のシンボルともいえる赤レンガ。保存される 100年前のレンガと現代のレンガとの、色合いの違いを 違和感なく調和させるデザイン上の工夫が取り入れら れています。また、復原されるドーム内観の3階から上の 創建当初の重厚なデザインの部分と、駅コンコースや ホテル、ギャラリーに利用される1階・2階の機能的な デザインとの調和を図る工夫も随所に施されています。 詳細な写真や図面などが残る駅舎外観に対し、図面や 資料の少ないドーム内観の復原にあたっては徹底した 調査や資料収集が行われました。また、駅舎の耐震性能を 向上させるために、現存する駅舎の構造体への補強を 極力少なくする工法として免震構造を採用しています。 このプロジェクトがめざした、東京駅丸の内駅舎保存・ 復原工事の目標、それは本物の生きた文化財にふさわ しいオーセンティシティ(信憑性)を高めること。生きた 文化財として大切に保存し、未来へと活用できる、 「本物の価値」を継承・保存した丸の内駅舎にすること を最重要テーマと位置づけました。

One of the most significant features of the project is preservation and restoration of the station building. This means that we make the maximum use of the materials and methods needed to bring the building back to its original state. The best example is restoration of its signature red brick walls. Efforts are under way to use new bricks that are very similar to the bricks of 100 years ago used in the original construction, and to preserve and restore the building by following designs and procedures that will make the new bricks look the same as the original ones. The design and layout also meticulously combine the restored dome on the third and upper floors with the concourse, hotel and gallery

We have fewer blueprints and other materials for the inside of the dome than for the exterior building appearance, for which detailed photos and drawings are available. Accordingly, we conducted thorough study of the dome and collected relevant information materials for it. We are also using a base-isolation technology that reinforcement to the existing structure.

The most important goal for the preservation and restoration project being pursued by the personnel in charge of the design was to retain and improve the worthwhile authenticity of this cultural asset. Our top priority issue was to carefully preserve and restore the building as a cultural asset to hand down its authenticity to future generations.

■ドーム見上げ部の復原

Restoration of the dome ceiling as seen from below

ドーム内の3・4階と天井は創建時の姿に復原され、干支や約2.1mの 大きさにもなる鷲の彫刻など見事な造形が甦りました。

The interiors of the third and fourth floor and the dome ceiling were restored to their original splendor, with decorative sculptures of oriental zodiac signs and eagles up to 2.1 meters high.

ドーム部天井見上げ The dome ceiling as seen from below





Restoration using natural slate

■天然スレートによる復原

天然スレートは今あるものを最大限活用し、 創建時の葺き方に復原しました。

Maximum use was made of existing slate, replicating the original roofing technique





①花飾りレリーフ Reliefs of ornamental

Relief of a dog from the



②鷲型の彫刻





⑤鏡と剣のレリーフ

Relief in the shape of a mirror and sword

approximately 160 oil damper between the existing station building structure and the new underground portion to be built.

This will improve the quake-resistance properties and also

reduce the effects on the surrounding buildings.

⑥鳳凰と動輪、矢東型のレリーフ

③兜型(秀吉の兜)の

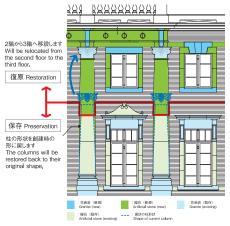
Relief in the shape of a Chinese phoenix driving wheel, and sheaf of arrows

■3階外壁の復原

Restoration of the external walls on the third floor

3階外壁の復原に伴い、柱の形状も創建時の姿に戻しました。

The pillars and columns were restored to their original shape, together with the restoration of external walls on the third floor.



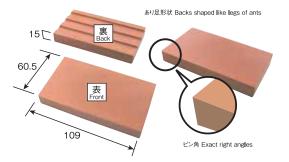


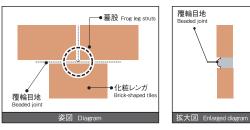
■化粧レンガの再現

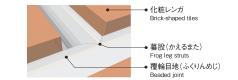
Reproduction of brick-shaped tiles

化粧レンガは創建時のものに近づけました。

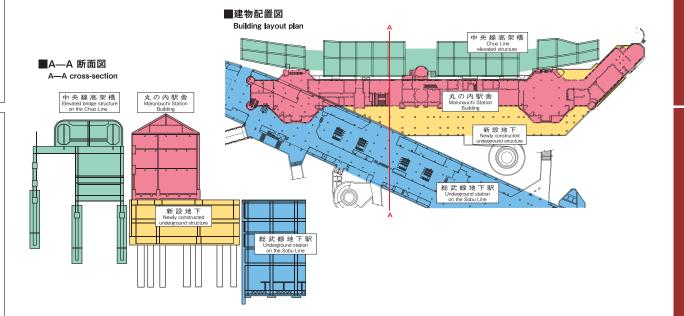
The brick-shaped tiles were made to more closely resemble the original bricks.







■復原部の躯体 3階: 復原外壁 Structural frame of the restored portion 復原する3階の躯体は鉄筋コンクリート壁でつくりました。 鉄骨鉄筋コンクリート壁 新規化粧レンガ 厚さ15mm The structural frame on the third floor was rebuilt with concrete wall reinforced concrete walls. 構造レンガ 化粧レンガ Brick-shaped ti - 厚さ15mm 15mm thick 3階·屋根:復原部 ◆ 厚さ45mm 45mm thick 2階: 保存外壁 下駄っ歯積み・ 1.2階:保存部 争霊アイソレーター Seismic isolator オイルダンパー Oil damne 採用する免震工法は新設される地下部分と現在の丸の内駅舎 との間に約350台の免震アイソレーターと約160台のオイルダン パーを設けました。これにより丸の内駅舎の耐震性能の向上を 図るとともに、隣接構造物への影響を小さくすることができます。 The quake-absorbing approach to be adopted will involve the use of approximately 350 seismic base isolator and 下部建物



保存復原計画[基本方針]

■未来へ継承すべき貴重な歴史的建造物として、残存し ている建物を可能な限り保存するとともに、創建時の姿

【保存】

・1.2階の既存レンガ躯体と鉄骨及び広場側1.2階の 既存外壁を保存。

【復原】

- ・広場側、線路側の3階外壁は新躯体を設置の上、 化粧レンガ、花崗岩、擬石で復原。
- ・線路側1,2階外壁は既存モルタルを撤去の上、化粧 レンガ、花崗岩、擬石で復原。
- ・屋根は天然スレート、銅板で創建時の姿に復原。
- ・ドーム3.4階の内部見上げを創建時の姿に復原。

Preservation and Restoration Plan (Basic Principles)

As a historic architectural structure to be passed down to be preserved in the best condition possible, while restoring the station to its original design.

existing first and second floors will be preserved, as will the the station forecourt. [Restoration]

- The walls for the third floor facing the station forecourt frame, and the exterior wall will be restored using decorative blocks, granite and cast stone.

- The existing external walls made from cement mortar on the first and second floors facing the tracks will be removed
- The roof will be restored to its original appearance using natural slate and copper plates.
- The interior of the third and the forth floor of the dome, as seen from below, will be restored to its original appearance.

- ■丸の内駅舎を駅・ホテル・ギャラリー等として恒久的に 活用するために必要かつ十分な安全性・耐震性を確保 し、免震工法を採用。
- 重要文化財建物を永続的に保存するため、免震工法 にするほか、レンガ壁や床組鉄骨などの既存架構を 極力活用し、新たな補強を軽減。

Structural Plans (Basic Principles)

- A quake-resistant structure will be adopted to ensure adequate safety and to provide earthquake protection measures so that the Marunouchi Station Building can be
- To preserve this important cultural architectural asset in perpetuity, the existing brick walls and steel floor support structures will be used along with the quake-resistant structure, reducing the need for additional reinforcement.

Preservation and Restoration of Marunouchi Station Building