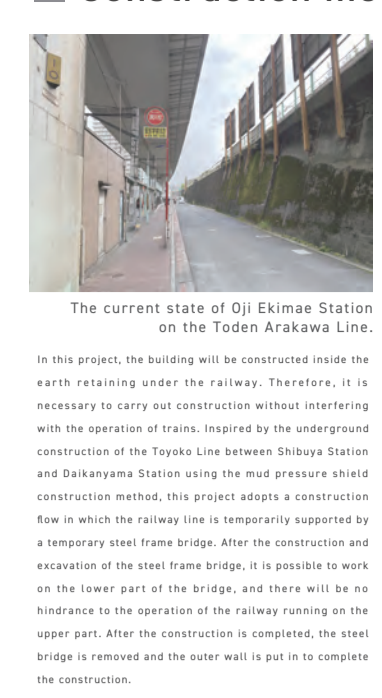
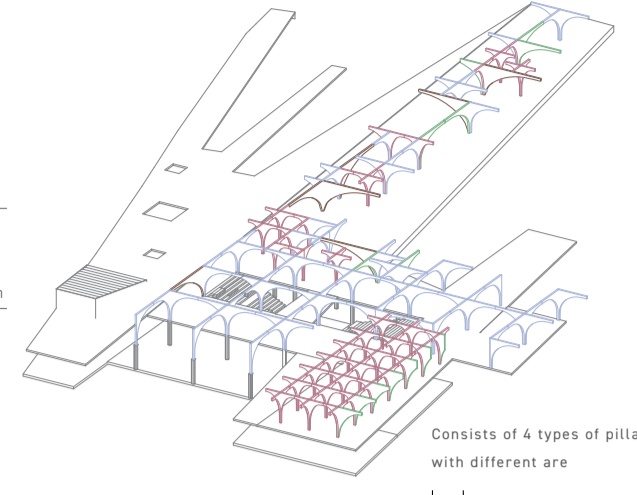


The building is under retained tracks and is therefore under severe load conditions. At the same time, the day room and recycling center on the 1st floor use the workshop on the 2nd floor require a wide field of view and work space, so we had to erect heavy brick pillars close down. Therefore, in this facility, we decided to use SC structure articles as the framework, making the columns capitan thicker and the column bases thicker. In the SC structure, a steel plate reinforced at the Range part receives the axial force and is covered with concrete for fireproof coating and buckling prevention. The canopy created by the series of arch frames blends in with the nature of Arakawa, and closely connects Arakawa and the building.



In this project, the building will be constructed inside the earth retaining under the railway. Therefore, it is necessary to carry out construction without interfering with the operation of trains. Inspired by the underground construction of the Toei Line between Shibusha Station and Nakayama Station using the road pressure shield construction method, this project adopts a construction method in which the railway line is temporarily supported by a temporary steel frame bridge. After the construction and excavation of the steel frame bridge, it is possible to work on the lower part of the bridge, and there will be no hindrance to the operation of the railway running on the upper part. After the construction is completed, the steel bridge is removed and the outer wall is put in to complete the construction.

