

**Survey study on simultaneous introduction of disposer's system and rain water storage facilities, etc.**

**Whole term**

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**(Purpose)**

Facilities for drainage system installing disposers are spreading in private apartments. Houses having high value is required in response to the rise of concern on high quality performance by customers, and reduction of living waste, realization of the comfortable living environment without kitchen garbage, etc. are required in terms of environmental concerns. Therefore, it is expected that the number of c disposers increases in the future.

To introduce to the disposer, it is needed to place treatment facilities before connecting to sewer pipe and to maintain it properly. It is need to maintain the facility which uses comparatively large underground spaces such as rain water adjustment tank when the regional development project is carried out.

Therefore, underground spaces are used complicatedly by these facilities. On the other hand, local authority forwards the improvement of the combined sewer or measure for the flood to correspond to frequent occurrence of urban flood damage, water pollution problem, etc. One of the measures is installation of storage treatment systems, but it has problems such as the setting space of facilities.

One of the purposes of this research is to suggest the method of base maintenance for contributing to the comfortable and safe town planning which also includes surrounding area, and the others to promote cooperation with local authority and combining and assembling each facilities and other activity for planning of efficient base maintenance which increases the value of public housing. Thus, the method of combinational maintenance of the treatment facilities of disposer drainage, facilities for the improvement of combined sewer and measure for flood, etc were analyzed.

**(Result)**

The case study on the combinational maintenance of treatment facilities of disposer drainage, rain water storage facilities, facilities of improvement of combined sewer, etc were performed. The case study was virtually carried out using the conditions of Shiodome Area and Sangenjaya Area, which are parts of Setagaya Ward and including the "Acty Sangenjaya" and a "Shiodome-H block".

The possibility of batch treatment of disposer's drainage and sewage of combined sewer or disposer's drainage and sewage on fine weather were examined.

The value of combinational maintenance of the facilities of disposer and the public facilities needed for local area from the side of company and the side of the sewerage enterprise was also evaluated. Furthermore, the role apportionment of government and citizens in the future for the combinational maintenance of treatment facilities of disposer drainage, rain water storage facilities, facilities of improvement of combined sewer, etc was arranged.

**(Future tasks)**

When the coordination with development work and other public works such as a sewerage enterprise is planned, it needs to clarify how it is efficient towards urban development.

In order to judge the possibility of batch processing of the disposer's drainage in the sewage treatment facilities and other terms in detail, it is necessary to examine the load mitigation effect in the downstream treatment division, organization of operation and maintenance, the possibility of the installation to an underground space, etc.

Moreover, to promote a unification project smoothly, it is required to arrange issues on the condition of development of local area in the current system etc. and to investigate and adjust of the proposal towards the design of new institutions.

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**Key words**

**Disposer, Integration business**