

Collaborative Research on the Establishment of Stormwater Runoff Control Facilities (No.3)

Whole term

1996 . 1 ~ 1996 . 3

(Purpose)

This research has been originally conducted since 1993 in order to encourage the establishment of stormwater runoff control facilities as part of sewerage projects throughout the 23 wards of Tokyo. This year, being the final year of the research, “the guideline (tentative) for the establishment of stormwater runoff control facilities”, is formulated, which will be the basis for guiding the establishment of the new facilities. “The technical guideline (tentative) for the stormwater runoff control facilities -the underground reservoir edition” is also formulated in addition to the technical guideline formulated in the last year.

(Contents)

The research involves the following steps.

1.Guideline for the establishment of stormwater runoff control facilities

(1) Examination of the organization and items of the guideline.

Guidelines for stormwater runoff control facilities from every city were collected, and their organization and items were discussed.

(2) Formulation of the guideline (tentative)

Based on the organization and items discussed above (1), a guideline (tentative) was formulated. (the basis of the guideline, subsidy systems and so forth)

2. Technical guideline for the stormwater runoff control facilities (tentative)-the underground reservoir edition

(1) Literature review

(2) Case study

Questionnaire survey

The questionnaire survey was held on facilities having a storage capacity larger than 100m³ according to the past records of the reservoir tanks in Tokyo (1984 ~ 1993).

Interview survey

Interview survey was held in detail according to the classification of the underground reservoir tanks by their installation locations, drainage methods and the purpose.

(3) Examination of the items of design/construction/maintenance

Each of the items of design/construction/maintenance was discussed according to the interview survey results and existing technical guidelines.

(4) Examination of the items and contents of the technical guideline (tentative)

The items necessary for the underground reservoir facilities to be used as stormwater runoff control facilities were listed, along with the content of the guidelines for underground reservoir facilities functioning as rainwater utilization facilities.

(5) Formulation of the technical guideline (tentative)

The guideline is composed of six chapters: general rules, schemes, design, construction, maintenance and reference. It is placed as a part of the technical guideline for stormwater runoff control facilities (tentative) formulated in the last year. It is concretely designed to enable sewerage administrators and facility designers to practice the guideline precisely.

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Keywords

stormwater runoff control, rainwater utilization, underground reservoir, technical guideline