

Examination project of development proposal rain water master plan in specified municipal watersheds

Whole term

2003.6-2004.3

(Purpose)

The progress of the urbanization in recent years has caused land use extremely changed. Since infiltration areas (e.g. agricultural fields and vacant places) were diverted to the impervious area (e.g. housing sites and roads), the water-retaining and the flood control function of the area have been declining. Furthermore, the city congestion causes river's maintenance much more difficult.

Moreover, new types of flood damages in the city have occurred such as failure of transportation system and damage of underground shopping malls. The need for the measures is increasing more in order to reduce more complicated and enormous flood damages.

Therefore, "The legislation for specified municipal river flood damages" for the comprehensive measures for flood damages, which requires collaboration by the river administrators, the related prefecture governors, the related mayors, and managers of sewer, was proclaimed on June 11, 2003, and was enforced on May 15, 2004.

This examination examined the following technical matters which are needed in order to enforce this legislation.

- ① Guide of the plan decision on specific city sewerages (proposal)
- ② Guideline of city flood-assumption-area map creation (proposal)
- ③ Technical examination concerning the application of the rain-water infiltration tank and facilities for drainage
- ④ Examination of rain water storage & by see page facilities

(Contents)

Regarding the technical examination shown in the above towards the enforcement of this legislation, "the guideline creation workgroup for the legislation to specific municipal river flood damages" was made into the top committee and the deliberations were conducted. The workgroup consists of the Ministry of Land, Infrastructure and Transport River Bureau and the Sewerage and Sewage Purification Department, district maintenance offices, and the River Department and Sewerage and Sewage Purification Department of related prefecture and city governments and government-ordinance-designated cities.

Regarding the matter concerning sewerage, the "Specific-city-sewerage workgroup" was held four times, and the discussion was started. This workgroup consists of the Ministry of Land, Infrastructure and Transport Sewerage and Sewage Purification Department, the National Institute for Land and Infrastructure Management, the district maintenance offices, and the Department specializing in the sewerage of related prefecture and city governments and government-ordinance-designated cities.

(summary)

At the river basin specified by the "The legislation for specified municipal river flood damages", in the formulation of watershed disaster preparedness plan, river administrators, related prefecture governors, related mayors, and managers of sewer need to work together. It means that the plan is based on the opinion of citizens. Moreover, it is important to decide upon the plan according to each watershed, because there are many differences in the river and sewerage in each city, the characteristics of watershed, regulation plans, project progress situations, the process of the measure for flood, and citizen consciousness.

By the enforcement of the legislation for specified municipal river flood damages, the comprehensive measure in which the river and the sewerage are considered in each city is expected to be advanced, and it is also anticipated that the contents of this examination will be utilized in the process which aims at mitigation and prevention of city type flood damage.

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Key words

Specific city sewerage, City flood, Runoff analysis, Flood analysis, Simulated zone map of city flood